



VILNIUS GEDIMINAS TECHNICAL UNIVERSITY  
FACULTY OF ENVIRONMENTAL SCIENCES  
DEPARTMENT OF ROADS

Ovidijus Umaras

**RESEARCH OF RADAR SPEED SIGNS EFFECTIVENESS IN  
LITHUANIAN MAIN ROADS  
INFORMACINIŲ GREIČIO MATUOKLIŲ EFEKTYVUMO TYRIMAS  
LIETUVOS MAGISTRALINIJOSE KELIUOSE**

Master's degree Thesis

Study programme of Innovative Road and Bridge Engineering, state code 628H20001  
Study field of Civil Engineering

Vilnius, 2017

VILNIUS GEDIMINAS TECHNICAL UNIVERSITY  
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Vilnius, 2017

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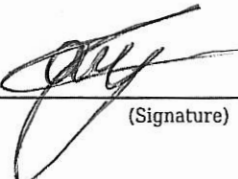
**DECLARATION OF AUTHORSHIP  
IN THE FINAL DEGREE PAPER**

January 9, 2017

I declare that my Final Degree Paper entitled „Research of the Radar Speed Signs Effectiveness in Lithuanian Main Roads“ is entirely my own work. The title was confirmed on November 14, 2016 by Faculty Dean's order No. 219ap. I have clearly signalled the presence of quoted or paraphrased material and referenced all sources.

The academic supervisor of my Final Degree Paper is Audrius Vaitkus.

No contribution of any other person was obtained, nor did I buy my Final Degree Paper.

  
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**OBJECTIVES FOR MASTER THESIS**

.....No. ....

Vilnius

For student .....Ovidijus Umaras.....  
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Master Thesis title: **Research of radar speed signs effectiveness in Lithuanian main roads**  
**Informacinių greičio matuoklių efektyvumo tyrimas Lietuvos magistraliniuose keliuose**

Approved on November 14, 2016, by Dean's decree No. 219ap.

The Final work has to be completed by 4 of January 2017.

**THE OBJECTIVES:**

To review particularity of Lithuania road network. Evaluate existent situation of Lithuanian roads traffic flow and safety. Analyse existing traffic calming measures addressed to traffic speed regulation and car accidents reduction. Perform literature review based on traffic safety issues and driver feedback speed sign efficiency. To provide experimental research on speed radar signs efficiency at Main roads of Lithuania dependent on sign type and road characteristics. Based on performed experimental research results and costs-benefit analysis to suggest possible improvement measures.

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| Antrosios pakopos studijų <b>Inovatyvios kelių ir tiltų inžinerijos</b> programos magistro baigiamasis darbas 3 (keliai ir tiltai)   |   |
| Pavadinimas  | <b>Informacinių transporto priemonių momentinio greičio švieslenčių efektyvumo Lietuvos magistraliniuose keliuose tyrimas</b> |
| Autorius   | <b>Ovidijus Umaras</b>  |
| Vadovas  | <b>Audrius Vaitkus</b>  |
| <b>Kalba:</b> anglų  |   |
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Vilnius Gediminas Technical University  
Faculty of Environmental Engineering  
Department of Roads

ISBN ISSN  
Copies No. ....  
Date .....-.....-.....

Master Degree Studies **Innovative Road and Bridge Engineering** study programme Master Graduation Thesis 3 (Roads and Bridges)

Title **Research of the Radar Speed Signs Effectiveness in Lithuanian Main Roads**  
Author **Ovidijus Umaras**  
Academic supervisor **Audrius Vaitkus**

**Thesis language:** English

**Annotation**

The final master thesis analyses efficiency of driver feedback speed sign on Lithuania main roads. A review of accidents, speed reduction measures, as well as the good practices of foreign study was done. The research investigated influence of driver feedback speed sign to traffic speed. Preformed recommendations for use driver feedback speed signs on Lithuania main roads.

The thesis consists of: introduction, four chapters, general conclusions, and annexes. The volume of the thesis is 73 pages of text, 37 figures, 14 tables. 16 sources of literature were used while writing the thesis.

Annexes to the paper are enclosed separately.

**Keywords:** Traffic safety, traffic calming measures, radar speed signs

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## ABBREVIATIONS

**Driver (Speed) Feedback Signs (Europe)** - signs designed to relay vehicle specific information back to motorists. The most common form of Driver Feedback Sign utilizes a radar assembly or other device for detecting the speed of approaching vehicles and relays that information to motorists through a changeable message display. Studies have found that Driver Feedback Signs used in this manner can be effective in reducing mean and 85th percentile speeds in a variety of situations, especially when the locations speed limit is posted in conjunction with the Driver Feedback Sign

**A radar speed sign (USA)** - an interactive sign, generally constructed of a series of LEDs, that displays vehicle speed as motorists approach. The purpose of radar speed signs is to slow cars down by making drivers aware when they are driving at speeds above the posted limits. They are used as a traffic calming device in addition to or instead of physical devices such as speed humps, speed cushions, speed tables, and speed bumps.

**Road humps** - used to stop people speeding up rather than slow them down. They need to be accompanied by slowing features at each end of a run of humps. They are suitable for residential areas but are not acceptable on bus routes. Effectiveness decreases as spacing increases, 150m maximum

**Speed tables** - similar to road humps but longer and with a flattened top, sometimes used to give pedestrians a level crossing between footways. They can also be used throughout a junction. Especially useful where there are a lot of pedestrians. If they are long enough, they provide a smoother ride for buses than humps. Often used in conjunction with humps.

**Road Width Restrictions/Build** - construction of footway narrow the road and slow traffic. They reduce crossing distance and improve visibility for pedestrians crossing the road. Placed alternately they provide chicanes. Roads can be narrowed to such an extent that only single file traffic is allowed. They can also be used to provide sheltered parking. Suitable for use in urban or rural locations, as initial slowing features and as part of gateway features. Single lane build outs are not suitable for roads with high traffic flows.

**Lane Width Restrictions** - narrowing lanes, using traffic islands and/or road markings can give the impression of a more confined road and results in reduced speeds. If a road is narrowed special attention must be given to the needs of cyclists.

**Gateways/Entry Points** - identified by road markings, build outs, coloured surfacing and/or signs indicating that the driver is entering an area where road conditions change, for example entering an urban area or a change of speed limit. Most effective on those drivers that only use the road occasionally.

**Rumble Strips and Dragon's Teeth** - often used as part of gateway schemes. Rumble strips are a change in the road surface which alert the driver by a change in the sound and feel of the car. Dragon's teeth provide a visual change and narrowing of the road. They are suitable for village entry points. Because rumble strips generate noise they can be unpopular with residents.

**Pedestrian Crossings** - zebra and pelican or puffin crossings may encourage more people to walk by improving safety and reducing delays crossing busy roads. They can be provided where there is a concentrated crossing movement, however there does need to be adequate visibility.

**Pedestrian Refuges** - refuges allow pedestrians to cross one stream of traffic at a time. They are useful where the concentration and number of pedestrians is fairly low. By narrowing the road, they reduce speeds, but the road needs to be wide enough to allow for a suitable refuge and the safe passage of vehicles and cycles.

**Roundabouts** - equal priority in all directions can slow traffic. Ideally, there needs to be a reasonably large flow on all arms for this to be effective. Roundabouts can make some turns easier which can lead to rat-running. They can be expensive and also need works to slow traffic down on the approach to the roundabout. Mini-roundabouts take up less space but need to be in street lit areas.

**Severed Roads** - provide the ultimate deterrent to rat running. They can prove unpopular with residents as they sometimes cause long diversions and increase traffic on other roads. Emergency access and the needs of services like refuse collection need to be taken into account.

**AADT** – annual average daily traffic.

**DFSS** – drivers feedback speed sign.

## **INTRODUCTION**

### **The relevance**

Speeding is one of the biggest problems in road safety, speeding greatly increases the risk of accident. It is a key factor in around 30% of fatal road accidents.

### **Problem**

The speed limiting road signs rarely solves the problems of road safety on dangerous road sections. Much more effective is the engineer speed reducing measures, i.e. roundabout, road curves, safety islands and etc. One of these measures is dynamic speed feedback signs (DFSS). In Lithuania DFSS started to implement in main roads since 2010. During three years 17 radar speed feedback signs installed on 10 main roads.

### **Objective**

The objective of the master thesis is to improve road traffic safety level by analyzing driver feedback speed signs efficiency at Main roads of Lithuania and based on performed experimental research to suggest possible measures.

### **Goals have to be achieved:**

1. Evaluate existent situation of Lithuanian roads traffic flow and safety
2. Analyse existing traffic calming measures addressed to traffic speed regulation and car accidents reduction
3. Perform literature review based on traffic safety issues and driver feedback speed signs efficiency.
4. To provide experimental research on driver feedback speed signs efficiency at Main roads of Lithuania dependent on signs type and road characteristics.
5. Based on performed experimental research results and costs-benefit analysis to suggest possible improvement measures

### **Object of experiment**

In the experiment selected 3 radar speed feedback signs in Marijampole district: two of them on road No. A7 Marijampolė-Kybartai-Kaliningradas in 11,689 km and 36,041 km and one more on road No. A16 Vilnius-Prienai-Marijampolė in 125,15 km.

### **Novelty**

Effectiveness research about dynamic speed feedback signs in Kaunas district has been done by Stanelis (2014). Research covered only places where speed limit was 50 km/h. In this research, dynamic speed feedback signs explored in Marijampolė district with different speed limits 50 km/h and 70 km/h.

### **Practical significance**

Guidance for driver feedback speed sign installation and regulations on Lithuania main roads.

## **1. PARTICULARITY OF NATIONAL ROADS NETWORK**

Lithuania compared with economically stronger states, has a fairly well-developed road network. Country located between south and east, north and west of Europe, therefore road network has big significance to connect all neighboring countries and to ensure comfortable driving for cargo transport in all country along.

### **1.1. National roads network**

The main institution which is responsible for all roads is the Lithuanian Road Administration under the Ministry of Transport and Communications of the Republic of Lithuania is an enterprise founded by the Government of the Republic of Lithuania which is in charge of organizing and coordinating the reconstruction, maintenance and development of the roads of national significance.

Roads in Lithuania are classified by the document released in 1995, 11th of May. It is called “Lithuanian republic statute of roads” Number I-891.

Roads in Lithuania are divided in categories according to vehicle traffic volume, their social and economic importance. According these factors roads are separating by the national importance and local importance.

National importance roads are very busy of international, transit, touristic and local traffic. Roads by national importance are classified in three categories:

- Main roads;

- National roads;

- Regional roads.

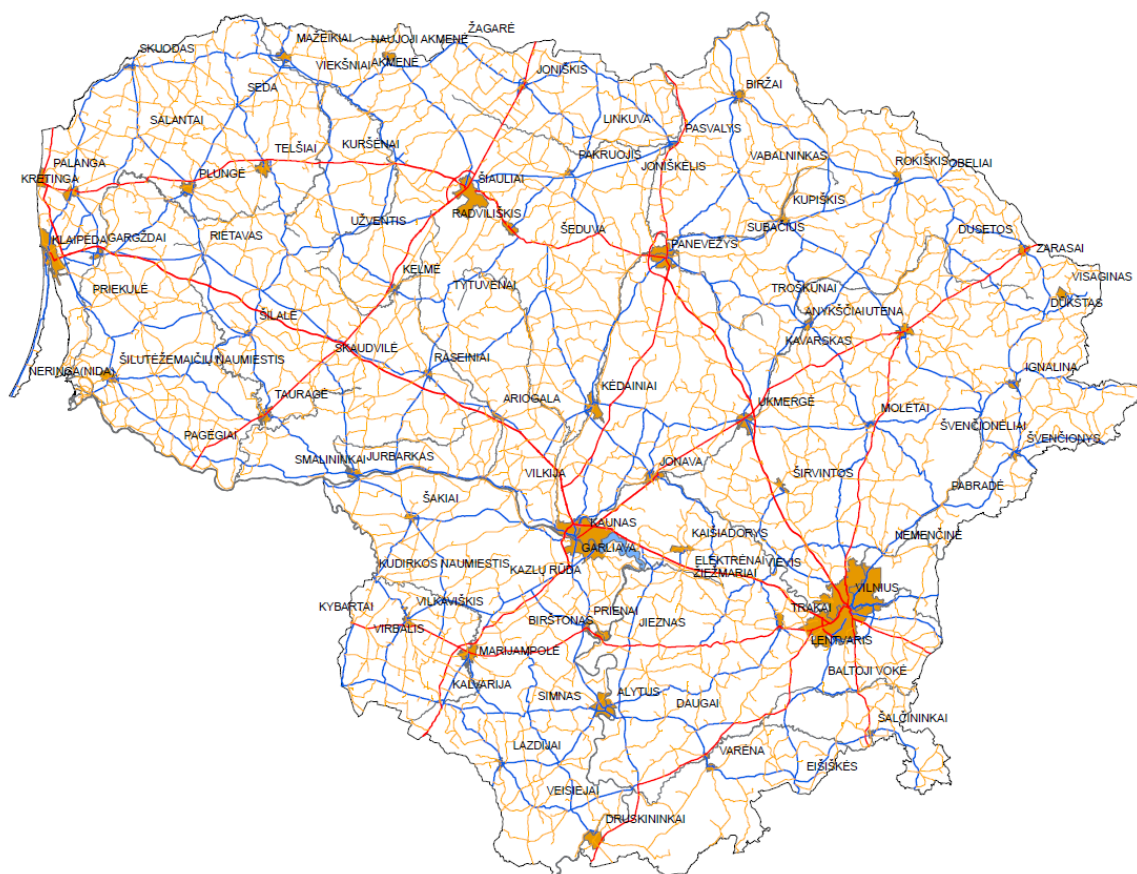


Figure 1.1 Lithuanian national significance road network

The main part of Lithuanian highways are regional roads – 69 % and national roads – 23%. The main roads consist only 8 % of Lithuanian national importance road network.

Table 1.1 The structure of the road network of national significance

|                       |                    |           |
|-----------------------|--------------------|-----------|
| <b>Main roads</b>     | <b>1746.259 km</b> | <b>8%</b> |
| <b>National roads</b> | 4926.549 km        | 23%       |
| <b>Regional roads</b> | 14579.243 km       | 69%       |
| <b>Total</b>          | 21252.051 km       | 100%      |

At National significance roads dominate the asphalt pavement. 1st of May in 2015, paved roads by asphalt had 65.8 %. However, Lithuania has many roads with gravel surface – 33.87 %. Also in Lithuania, there is one road with concrete surface, it contains only 0.29 % of Lithuanian roads, more detailed information shown in Table 1.2.

Table 1.2 National significance roads by the type of surface

| Road category      | Asphalt surface | Concrete surface | Gravel surface | Paving |
|--------------------|-----------------|------------------|----------------|--------|
| Main roads, km     | 1 686,124       | 59,883           | –              | 0,252  |
| National roads, km | 4 926,549       | –                | –              | –      |
| Regional roads, km | 7 372,076       | 1,371            | 7 198,593      | 7,203  |
| Altogether, km     | 13 984,749      | 61,254           | 7 198,593      | 7,455  |
| Percentage, %      | 65,80           | 0,29             | 33,87          | 0,04   |

There are 6 European motorways crossing the country:

- E67 Via Baltica: Helsinki–Tallinn–Riga–Panevežys–Kaunas–Warsaw–Wroclaw–Prague;
- E28: Berlin–Gdansk–Kaliningrad–Marijampolė–Prienai–Vilnius–Minsk;
- E77: Pskov–Riga–Šiauliai–Kaliningrad–Warsaw–Krakow–Budapest;
- E85: Klaipėda–Kaunas–Vilnius–Lida–Cernovcy–Bucharest–Alexandroupoli;
- E262: Kaunas–Utena–Daugavpils–Rezekne–Ostrov;
- E272: Klaipėda–Palanga–Šiauliai–Panevežys–Vilnius.

There are 2 corridors of Trans-European Network (TEN) they crosses Lithuania:

- North-South direction: corridor I (highway VIA BALTICA and railway line RAIL BALTICA) connecting Tallinn, Riga, Kaunas, Warsaw, and its branch – corridor I A (Tallinn–Riga–Siauliai–Tauragė–Kaliningrad)
- East-West direction: corridor IX, corridor IX B branch (Kiev–Minsk–Vilnius–Klaipėda) and IX D corridor (Kaunas–Kaliningrad)

## 1.2. Traffic flow and traffic speed particularity

Traffic flow is better known as annual average daily traffic, abbreviated **AADT**, is a measure used primarily in transportation planning and transportation engineering. Traditionally, it is the total volume of vehicle traffic of a highway or road for a year divided by 365 days. [Wikipedia]



AADT has relation with motorization level in the country. Motorization in Lithuania is increasing every year since 1996 till 2013. In 2014 was new regulations released for unusable vehicles registration. After regulations started to work, more realistic numbers appeared. Statistic department provide that there is 510 vehicles per 1000 inhabitants in 2014. On 2013 it was 773 vehicles per 1000 inhabitants (Fig.1.2).

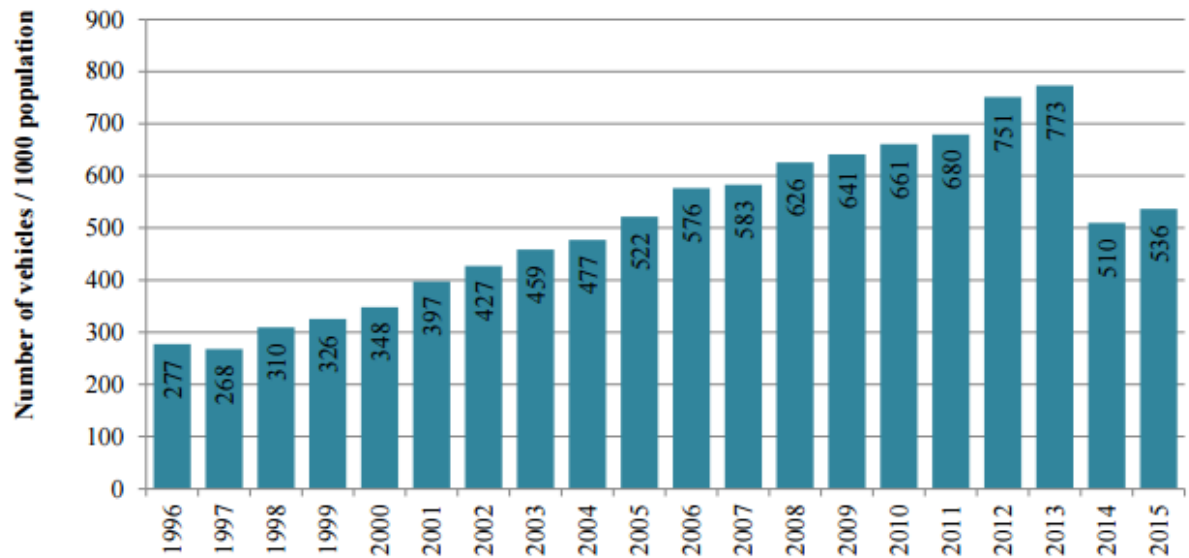


Figure 1.2 The number of vehicles per 1000 inhabitants from 1996 till 2015  
([http://www.lra.lt/files/avariju\\_statistika/statistics\\_2012-2015.pdf](http://www.lra.lt/files/avariju_statistika/statistics_2012-2015.pdf))

Despite that big reduction of vehicles, it hasn't influenced annual average daily traffic. It still is increasing every year, AADT shown in Figure 1.3. Also, it should be noted that dramatic drop of vehicles number were influenced by more strict registration rules. That means that before 2014 a lot of unused cars were in car register but not actually used on roads.

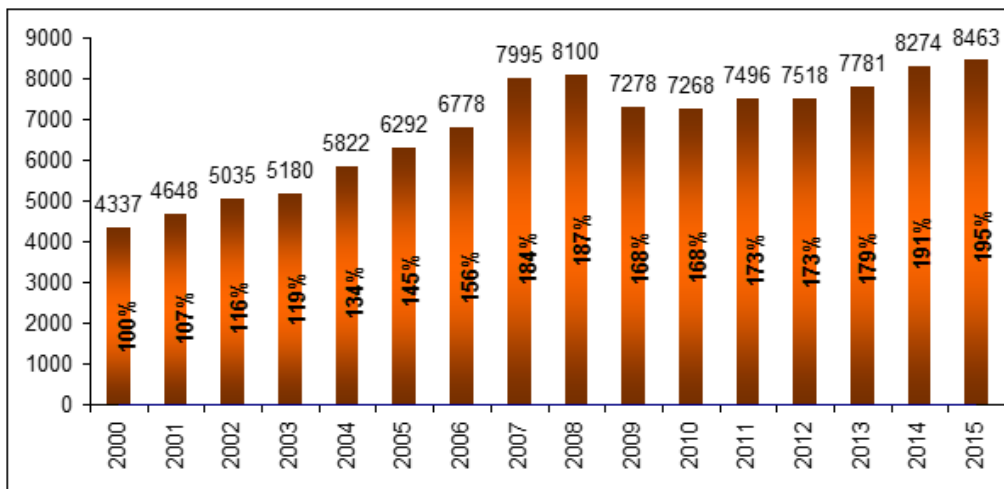


Figure 1.3 Change in annual average daily traffic (AADT, vehicles/day) on main roads compared to the year 2010

In diagram is shown that from year of 2000 it was a big jump in traffic volume in Lithuania main roads till 2008. Then after the financial crisis in all Europe, the amount of traffic decreased for two years. Now and the latter five years traffic flow are stabilized, but with the increased perspective for the next decade. The biggest AADT is on highway A1 (Vilnius-Kaunas-Klaipėda) between two main cities Vilnius and Kaunas (Fig 1.4).

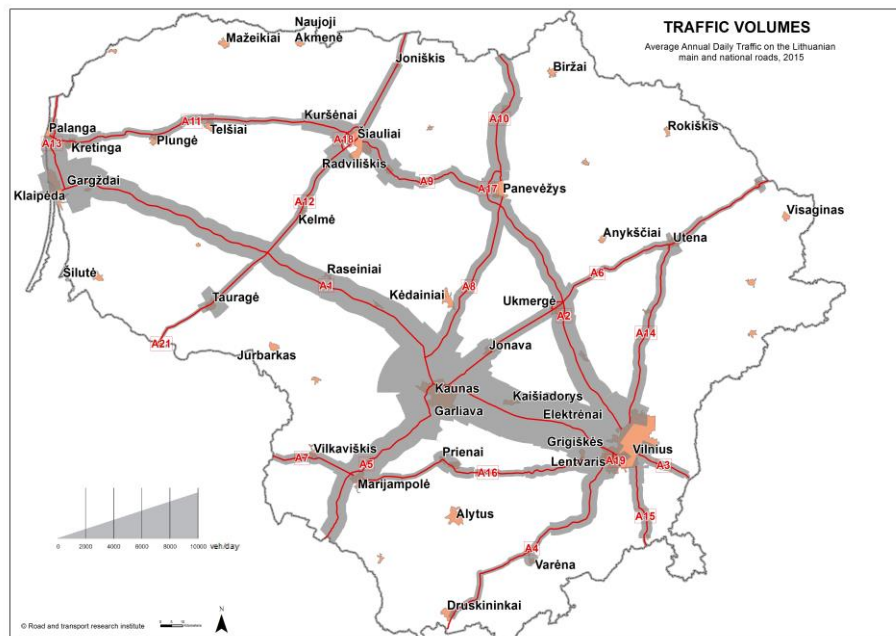


Figure 1.4 Annual average daily traffic distribution in 2015 on main roads

According to traffic volume there should be mentioned section of European road E67 called „Via Baltica“ it has the biggest traffic flow in country of cargo transport. This A5 road section starts from the border of Poland to second largest city of Lithuania–Kaunas. Also, the very crowded road is A1 (Vilnius–Kaunas–Klaipėda) which connects three main cities in Lithuania, by this highway majority of cargo transport takes cargos to the sea port of Klaipėda and backwards. The second highway is A2 (Vilnius–Panevėžys) this is the main road for people traveling from the capital of Lithuania and from Belarus take cargo or travel to Latvia and Estonia. (Figure 1.5).

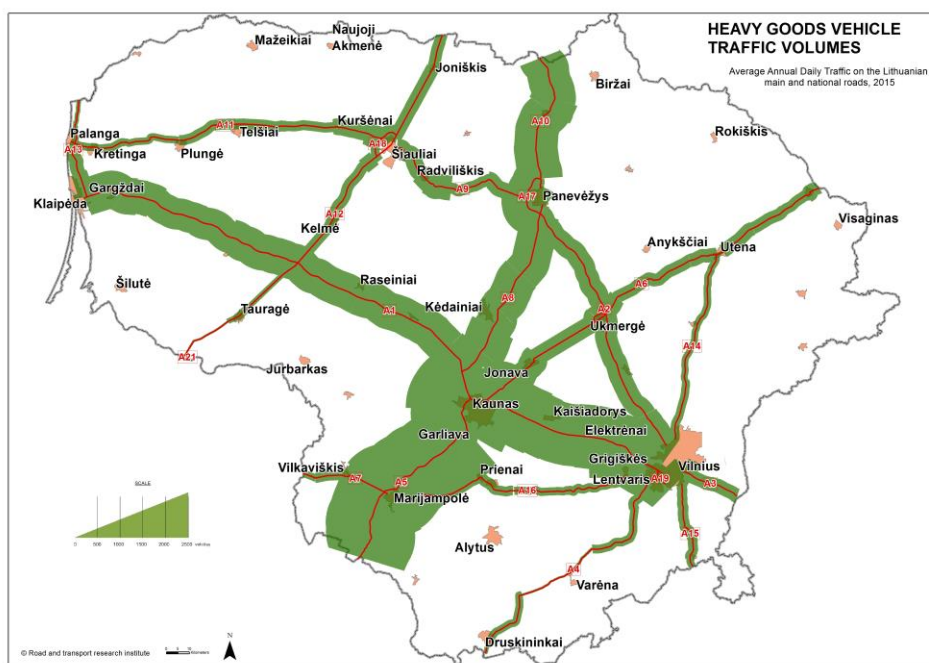


Figure 1.5 Annual average daily traffic distribution of heavy vehicles in 2015 on mains roads

Traffic volumes in main roads for whole traffic and heavy vehicle traffic expressed in numbers shown down below in Table 1.3.

Table 1.3 Annual average daily traffic (AADT) on the main roads in 2015 (Lithuania Road Administration)

| Road number | Road name               | AADT, thousands vehicles/day | Heavy vehicle thousands AADT, vehicles/day |
|-------------|-------------------------|------------------------------|--|
| A1          | Vilnius–Kaunas–Klaipėda | 17,579                       | 2,654                                      |
| A2          | Vilnius–Panevėžys       | 10,226                       | 1,184                                      |
| A3          | Vilnius–Minskas         | 5,937                        | 1,022                                      |

Table 1.3. Continuation

|     |                                     |        |       |
|-----|-------------------------------------|--------|-------|
| A4  | Vilnius–Varėna–Gardinas             | 4,339  | 355   |
| A5  | Kaunas–Marijampolė–Suvalkai         | 14,149 | 5,053 |
| A6  | Kaunas–Zarasai–Daugpilis            | 5,586  | 868   |
| A7  | Marijampolė–Kybartai–Kaliningradas  | 4,833  | 568   |
| A8  | Panevėžys–Aristava–Sitkūnai         | 6,228  | 2,276 |
| A9  | Panevėžys–Šiauliai                  | 7,228  | 930   |
| A10 | Panevėžys–Pasvalys–Ryga             | 7,475  | 2,236 |
| A11 | Šiauliai–Palanga                    | 4,926  | 579   |
| A12 | Ryga–Šiauliai–Tauragė–Kaliningradas | 4,378  | 510   |
| A13 | Klaipėda–Liepāja                    | 9,665  | 572   |
| A14 | Vilnius–Utena                       | 6,604  | 417   |
| A15 | Vilnius–Lyda                        | 5,118  | 541   |
| A16 | Vilnius–Prienai–Marijampolė         | 5,131  | 534   |
| A17 | Panevėžio aplinkkelis               | 7,345  | 2,520 |
| A18 | Šiaulių aplinkkelis                 | 2,626  | 666   |
| A19 | Vilniaus pietinis aplinkkelis       | 20,002 | 4,507 |
| A20 | Ukmergės šiaurinis aplinkkelis      | 2,999  | 935   |

### Speed particularity

Traffic driving speeds used in the road design are:

- Driving speed ( $V_{85}$ );
- The speed limit ( $V_L$ );
- Design speed ( $V_P$ );
- The flow rate.

#### *Driving speed ( $V_{85}$ )*

Driving speed is the speed which does not exceed 85% of passenger cars, under normal traffic conditions and clean and wet road.

#### *The speed limit ( $V_L$ )*

The speed limit is the maximum allowed speed for transport on the specific road. The speed limit is provided in signs and it set by road owner by vehicle category.

#### *Design speed ( $V_P$ )*

From a technical and economic point of view is based on speed, which determined by taking into account the road category, function and design quality traffic levels, road construction (reconstruction) conditions. The design speed determined by several tracks solutions and other parameters of the projected highway.

In Foreign countries road design standards usually required to achieve design speed  $V_P$  is not lower than the permitted speed  $V_L$ .

To determine design speed such formula is used:

$$V_P = V_{85} - \Delta V,$$

here:

$V_{85}$  – driving speed;

$\Delta V$  – difference  $V_P$  between  $V_{85}$ , indicating the real car speed fluctuations on the road.

Design speed must be constant as possible on longer road sections. Design speed stability is good, when the difference between the speed  $V_{85}$  and the design speed of the securities does not exceed 10 km / h.

### **Flow rate**

The flow rate, it is the driver's average speed selected when there is no congestion or other adverse conditions (such as low visibility or bad weather). This rate which is normally comfortable to driver.

To precise measures of traffic speed is needed constant monitoring of roads during different seasons of the year. According „Road and transport research institute” data is visible that average speed on main roads is about 90 km/hour  $\pm$  3km/hour, permissible speed almost on all main roads is 90 km/h, 120 km/h on motorways and 130 km/h on freeways and 110 km/h in winter on both. Regardless of Figure 1.6 speeding problem still is one of the biggest problems in Lithuania (see Fig.1.7).

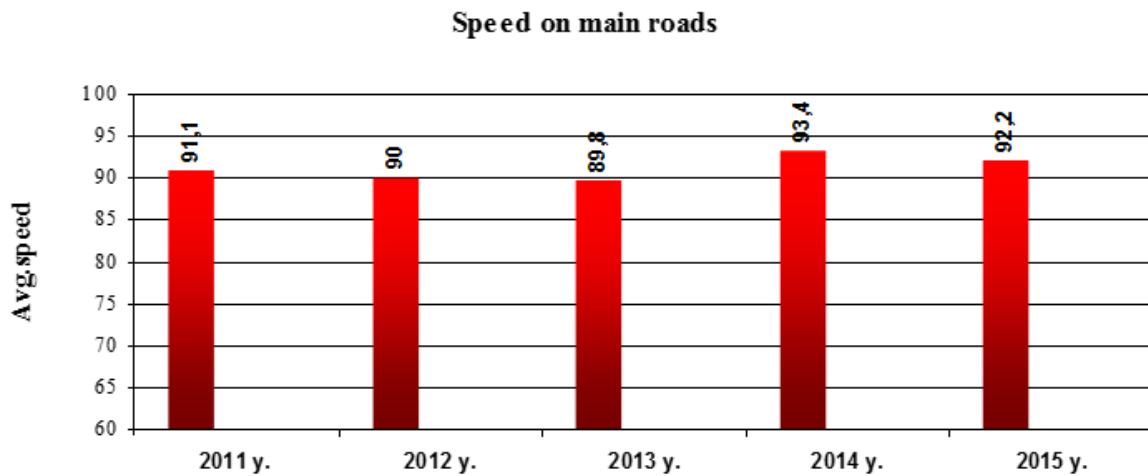


Figure 1.6 Average speed on main roads 2011-2015 (Road and Transport Research Institute)

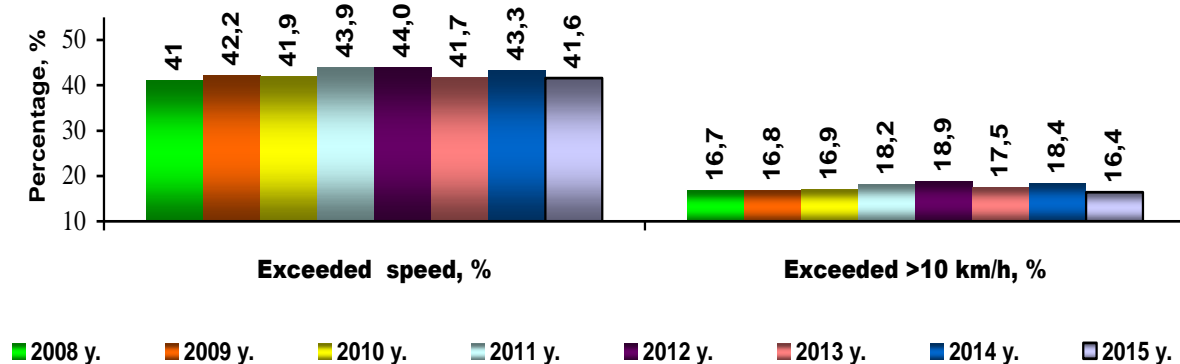


Figure 1.7 Speeding on the main roads 2008-2015 (Road and Transport Research Institute)

### 1.3. Traffic accidents analysis

According to the European Commission CARE database in 2015. In the European Union 1 million population had an average of 52 killed in road user. Lithuania had 83 deaths for 1 million of population. More worse data than Lithuania was only in Latvia (94 dead / million. inhabitants), Bulgaria (95 dead / million. inhabitants) and Romania (95 killed / million. Inhabitants). The highest position among the European Union countries in 2015 held in Malta - 26 dead / 1 million of the country's population.

Lithuania has made good progress in road safety since the year 2000 with a 58% overall reduction in fatalities. Its current goal is to reduce fatalities to a rate of 6 per 100 000 inhabitants by 2017. Provisional data from 2015 show progress again with a total of 241 killed, a 9.2%

decrease over 2014. Number of vehicles and number of fatalities from 1996 to 2015 is visible in Fig.1.8.

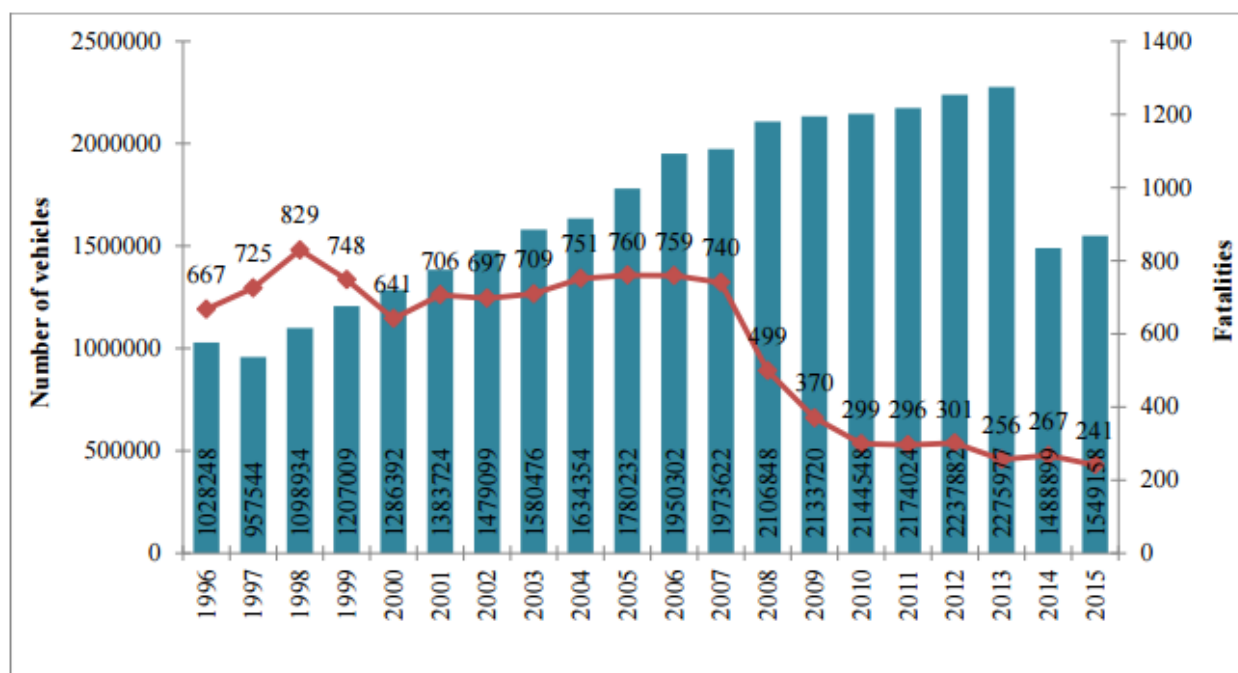


Figure 1.8 Number of registered vehicles and traffic participants deaths 1996-2015  
([http://www.lra.lt/files/avariju\\_statistika/statistics\\_2012-2015.pdf](http://www.lra.lt/files/avariju_statistika/statistics_2012-2015.pdf))

Lithuania vehicle park has increased in compare of 2014 to 2015 by 4,05%, while fatalities reduced by 9,74%. Fatalities increased by 3.5% in 2014 compared to 2013.

2008-14: A significant breakthrough was achieved in 2008 with growing awareness among citizens of road safety issues and the leading role of the EU in setting a target to reduce by 50% the number of fatalities between 2001 and 2010, which many countries achieved. In 2010 Lithuania reached the EU road safety target. The economic downturn in 2008-2010 also probably contributed to a reduction in traffic and a decrease in the number of road fatalities.

Traffic accidents have different causes and responsible why accident happen, who is guilty, etc. In most cases, **drivers** fault is the leading cause of accidents. Two parts of three of all accidents are because of drivers Table 1.9. That is because drivers are often speeding, unsafe overtaking, doesn't take into account traffic conditions and the situation on the road. Also, negative impact on traffic safety makes driving drunk, under the influence of drugs or drive without rest.

Table 1.4 Responsibility for accidents („Statistics of fatal and injury road accidents in Lithuania, 2012–2015 “)

| RESPONSIBILITY    | AMOUNT OF TRAFFIC ACCIDENTS |        |      |        |      |        |      |        |
|-------------------|-----------------------------|--------|------|--------|------|--------|------|--------|
|                   | 2012                        |        | 2013 |        | 2014 |        | 2015 |        |
| Drivers           | 2031                        | 64,01% | 2303 | 67,92% | 2156 | 66,24% | 2007 | 63,49% |
| Motorcycle riders | 76                          | 2,4%   | 74   | 2,18%  | 84   | 2,58%  | 92   | 2,91%  |
| Pedestrians       | 325                         | 10,24% | 350  | 10,32% | 296  | 9,09%  | 258  | 8,16%  |
| Cyclists          | 182                         | 5,74%  | 195  | 5,75%  | 185  | 5,68%  | 137  | 4,33%  |
| Moped riders      | 68                          | 2,14%  | 66   | 1,95%  | 50   | 1,54%  | 42   | 1,33%  |
| Others            | 491                         | 15,47% | 403  | 11,88% | 484  | 14,87% | 625  | 19,77% |
| Total             | 3173                        | 100%   | 3391 | 100%   | 3255 | 100%   | 3161 | 100%   |

12,34% of all recorded traffic accidents caused by an inexperienced, less than two years driving experience having novice drivers. Often it is younger people, who are characterized by frivolity and lack of responsibility and too high confidence. Least accidents do drivers who have more than 20 years of driving experience. (Fig. 1.9)

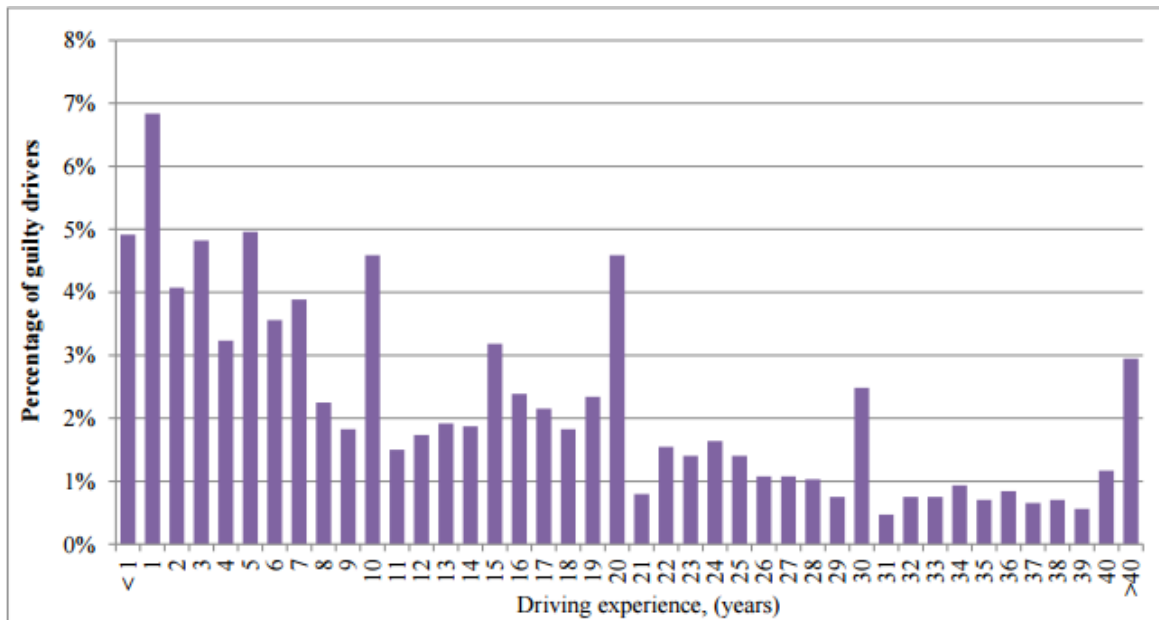


Figure 1.9 Drivers involved in traffic accidents with different driving experience ([http://www.lra.lt/files/avariju\\_statistika/statistics\\_2012-2015.pdf](http://www.lra.lt/files/avariju_statistika/statistics_2012-2015.pdf))

Lithuania for road accidents each year suffer economic losses. Traffic accidents suffered damage directly depends on the number of dead and injured in traffic. Damage to economy is shown in Table 1.5.



Table 1.5 Negative impact on Lithuanian economy

| <i>Years</i> | <i>Traffic Accidents</i> | <i>Fatalities</i> | <i>Injured</i> | <i>Loss, mln. €</i> |
|--------------|--------------------------|-------------------|----------------|---------------------|
| 2012         | 3173                     | 301               | 3712           | 351,09              |
| 2013         | 3391                     | 256               | 4007           | 351,20              |
| 2014         | 3325                     | 267               | 3785           | 364,52              |
| 2015         | 3161                     | 241               | 3777           | 355,71              |

#### **1.4. Objective and goals**

Exceeding the speed is one of the most common traffic offenses. Many drivers mistakenly assess their ability to control a car driving much faster than the speed limit. The higher the speed - the less time to spot hazards and react accordingly.

High travel speed increased the probability of an accident and exacerbated its consequences, and the consequences of accidents suffer in both society and the national economy. To control the problem of speeding drivers in the road, infrastructure is being prepared for various engineering safety measures, but not all measures efficiency is investigated.

Work objective - determine the radar speed feedback sign efficiency, to provide an assessment and recommendations.

In order to achieve the following tasks:

- Analyse traffic speed regulation measures;
- Determine efficiency of driver feedback speed signs on Main roads of Lithuania;
- Make cost-benefit analysis;
- Make conclusions and recommendations for the use of driver feedback speed signs

## **2. TRAFFIC SPEED REGULATION MEASURES**

Road as construction has to be built in such way that it let drivers do mistakes and it would not be fatal. Traffic speed regulation measures or traffic calming measures is essential because they are life savers. Traffic calming uses physical design and other measures to improve safety for motorists, pedestrians, and cyclists. It aims to encourage safer, more responsible driving and potentially reduce traffic flow.

### **2.1. Analysis of traffic speed regulation measures**

Speed limit road signs settlements or dangerous road sections do not always provide the desired effect. The straight sections of the road and the wide streets of speeding is inevitable, it is appropriate to apply the engineering safety measures to minimize the driver's comfort driving faster than the speed limit, or are physically restricts the driver does not exceed the speed. Most popular traffic speed regulation measures:

- ❖ Vertical deflections (speed hump, speed table, raised intersection);
- ❖ Horizontal shifts (traffic circle, chicane);
- ❖ Severed roads;
- ❖ Lane width restrictions (choker, center island narrowing).
- ❖ Noisy lanes (Pre-warning rumble strips);

#### **Vertical deflections**

A speed hump is rounded raised areas of pavement. Sometimes also called undulations. They mostly applicable:

- residential streets;
- not typically used on the main roads, bus routes, or primary emergency response routes;
- midblock placement, not at an intersection;
- not on grades greater than 8 percent;
- work well with curb extensions.

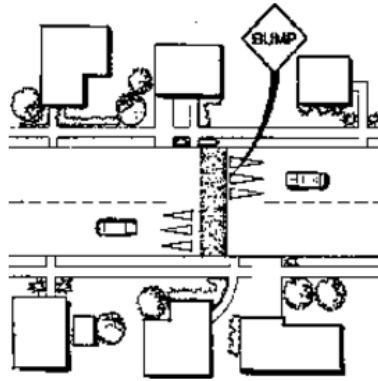


Figure 2.1 Scheme of speed hump (<http://www.ite.org/traffic/hump.asp>)

#### Design/Installation Issues:

Speed bump shapes include parabolic, circular and sinusoidal. Hard to construct precisely, may need to specify a construction tolerance on height. Almost in all cases should be signed.

#### Design/Installation Issues:

- typically, 12 to 14 feet in length; other lengths (10, 22, and 30 feet) reported in practice in U.S. (1 foot = 30.5 cm)
- speed hump shapes include parabolic, circular, and sinusoidal;
- hump heights range between 3 and 4 inches with trend toward 3 - 3 ½ inches maximum (inch = 2.54 cm);
- difficult to construct precisely; may need to specify a construction tolerance (e.g.  $\pm 1/8$  inch) on height;
- often have signage (advance warning sign before the first hump in series and warning sign or object marker at hump);
- typically have pavement marking (zigzag, shark's tooth, chevron, zebra);
- taper edge near the curb to allow a gap for drainage;
- some have speed advisories;
- bicyclists prefer that it not cover or cross a bike lane.

#### Potential Impacts:

- no effect on non-emergency access;
- speeds determined by height and spacing; speeds between humps have been observed to be reduced between 20 and 25 percent on average;

- based on a limited sample of sites, typical crossing speeds (85th percentile) of 19 mph have been measured for 3½ inch high, 12 foot humps and of 21 mph for 3 inch high, 14 foot humps; speeds have been observed to rise to 27 mph within 200 feet downstream; (1 mph = 1.61 km/h)
- speeds typically increase approximately 0.5 mph midway between humps for each 100 feet of separation;
- studies indicate that traffic volumes have been reduced on average by 18 percent depending on alternative routes available;
- studies show that collisions have been reduced on average by 13 percent on treated streets (not adjusted for traffic diversion);
- most communities limit height to 3-3½ inches, partly because of the harsh ride over 4-inch high humps;
- possible increase in traffic noise from braking and acceleration of vehicles, particularly buses and trucks.

#### Emergency Response Issues:

- Concern over jarring of emergency rescue vehicles;
- Approximate delay of between 3 and 5 seconds per hump for fire trucks and up to 10 seconds for an ambulance with the patient.

Speed table or raised zebra crossing is long raised speed humps with a flat section in the middle and ramps on the ends. Sometimes constructed with brick or other textured materials on the flat section. They are mostly applicable:

- local and collector streets;
- main roads through small communities;
- typically, long enough for the entire wheelbase of a passenger car to rest on top;
- work well in combination with textured crosswalks, curb extensions, and curb radius reductions;
- can include a crosswalk.

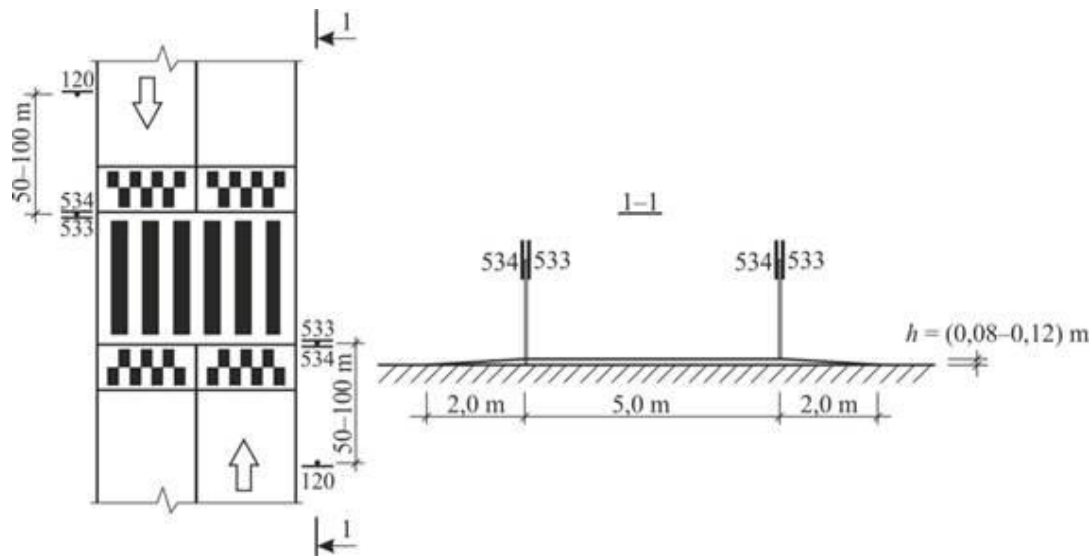


Figure 2.2 Designing regulations for raised zebra crossings (LRA, pedestrian crossings installation regulations Nr. V-239)

#### Design/Installation Issues:

- typically, 22 feet in the direction of travel with 6 foot ramps on each end and a 10 foot flat section in the middle; other lengths (32 and 48 feet) reported in U.S. practice;
- most common height is between 3 and 4 inches (and reported as high as 6 inches);
- ramps are typically 6 feet long (reported up to 10 feet long) and are either parabolic or linear;
- careful design is needed for drainage.

#### Potential Impacts:

- no effect on access;
- speeds are reduced, but usually to a higher crossing speed than at speed humps (typically between 25 and 27 miles per hour);
- traffic volumes have been reduced on average by 12 percent depending on alternative routes available;
- collisions have been reduced on average by 45 percent on treated streets (not adjusted for traffic diversion);
- reported to increase pedestrian visibility and likelihood that driver yields to pedestrian.

Raised intersection is flat raised area covering entire intersection with ramps on all approaches and often with brick or other textured materials on the flat section and ramps. Raised intersection mostly work well with curb extensions and textured crosswalks, mostly usable in densely developed urban areas where loss of parking would be unacceptable. Often part of an area wide traffic calming scheme involving both intersecting streets.

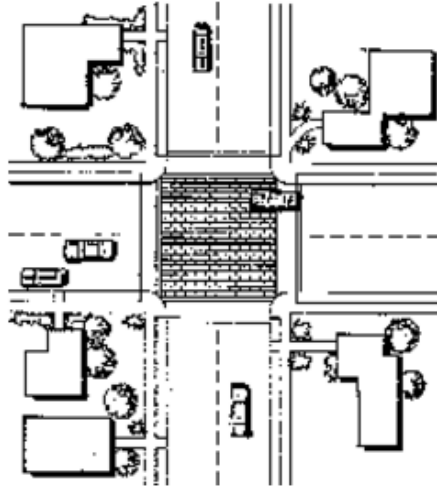


Figure 2.3 Scheme of raised intersection (<http://www.ite.org/traffic/raised.asp>)

#### Design/Installation Issues:

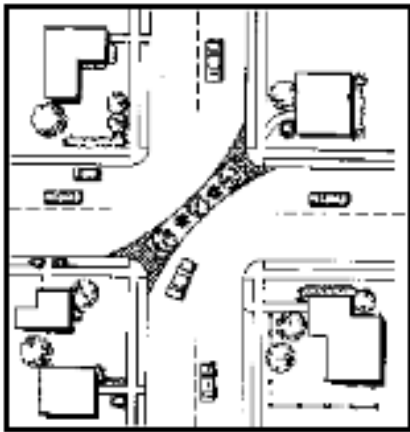
- typically rise to sidewalk level;
- may require bollards to define the edge of the roadway;
- Canadian installations typically have gentle 1:40 slopes on ramps;
- storm drainage modifications are necessary.

#### Potential Impacts:

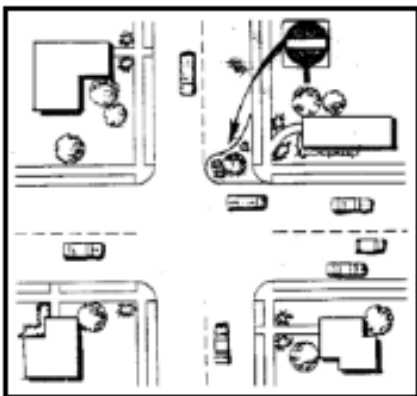
- reduction in through movement speeds at intersection;
- reduction in midblock speeds typically less than 10 percent;
- no effect on access;
- make entire intersections more pedestrian-friendly;
- no data available on volume or safety impacts.

## Severed roads

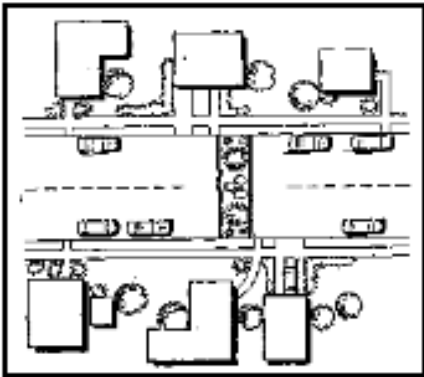
Severed roads or Closures are physical barriers which partly or fully close road, intersection, road segment, etc. Closures are typically applied only when other measures have failed or been determined to be inappropriate. Also, closures have been used as a crime prevention tool. Often used in sets to make travel through neighborhoods more circuitous - typically staggered internally in a neighborhood, which leaves through movement possible but less attractive than alternative (external) routes. For all types of closures, provisions are available to make diversions passable for pedestrians and bicycles users. There are four types of closures (source: [www.ite.org/traffic/closure.asp](http://www.ite.org/traffic/closure.asp)):



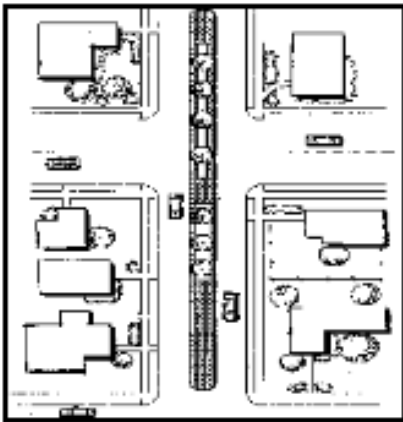
**Diagonal diverters** are barriers placed diagonally across an intersection, blocking through movement; they are sometimes called full diverters or diagonal road closures.



**Half closures** are barriers that block travel in one direction for a short distance on otherwise two-way streets; they are sometimes called partial closures, entrance barriers, or one-way closures (when two half-closures are placed across from one another at an intersection, the result is a semi-diverter)



**Full-street closures** are barriers placed across a street to completely close the street to through-traffic, usually leaving only sidewalks open; they are sometimes called cul-de-sacs or dead-ends



**Median barriers** are raised islands in the centerline of a street and continuing through an intersection that block the left turn movement from all intersection approaches and the through movement at the cross street

#### Design/Installation Issues:

- there may be legal issues associated with closing a public street;
- can be placed at an intersection or midblock;
- barriers may consist of landscaped islands, walls, gates, side-by-side bollards, or any other obstruction that leave an opening smaller than the width of a passenger car.

#### Potential Impacts:

- concern over effects on emergency response, street network connectivity, and capacity, and parallel local streets that carry diverted traffic;
- may divert significant traffic volumes;
- no significant effect on vehicle speeds beyond the closed block.



## Horizontal shifts

The traffic circle is raised island placed in the intersection which allows traffic circulate only around. Priority is for those who are already in the circle. Traffic circle requires drivers to slow down the speed that allows maneuver comfortably. Applicable in intersections of local or collector streets, only one lane each direction entering the intersection, not applicable at intersections with high volume or large trucks and buses turning left. The quality of landscaping and its maintenance are key issues for measurement. Also, need to pay attention to designing part to allow adequate sight distance.

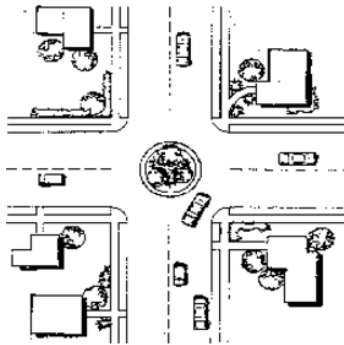


Figure 2.4 Example of traffic circle (<http://www.ite.org/traffic/circle.asp>)

### Design/Installation Issues:

- typically, circular in shape, though not always;
- usually landscaped in their center islands, though not always;
- often controlled by „YIELD“ signs on all approaches, but many different signage approaches have been used;
- key design features are the offset distance (distance between projection of street curb and center island), lane width for circling the circle, the circle diameter, and height of mountable outer ring for large vehicles such as school buses and trash trucks.

### Potential Impacts:

- no effect on access;
- reduction in the midblock speed of about 10 percent; area of influence tends to be a couple hundred feet upstream and downstream of intersection;
- only minimal diversion of traffic;

- intersection collisions have been reduced on average by 70 percent and overall collisions by 28 percent;
- can result in bicycle/auto conflicts at intersections because of narrowed travel lane.

### **Lane width restrictions**

Pedestrian refuge allows pedestrians to cross one stream of traffic at a time. They are useful where the concentration and number of pedestrians are relatively low. By narrowing the road, they reduce speeds, but the road needs to be wide enough to allow for a suitable refuge and the safe passage of vehicles and cycles.

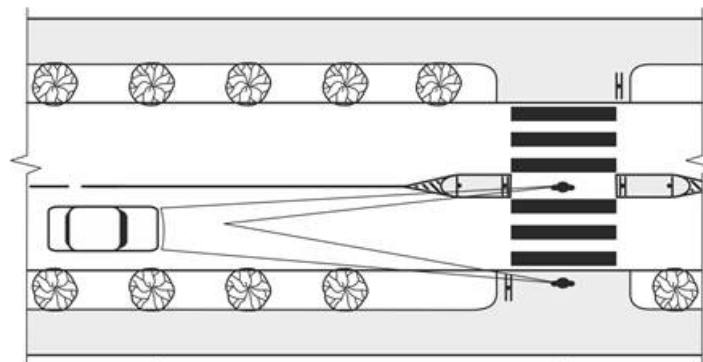


Figure 2.5 Scheme of pedestrian refuge (LRA, Pedestrian crossings installation regulations V-239, 2012)

Potential impacts:

- may reduce parking and driveway access;
- reduces pedestrian crossing width;
- may visually enhance the street through landscaping but may also limit visibility of pedestrian crossings;
- bicyclists prefer not to have the travel way narrowed into path of motor vehicles;
- collision, speed, and volume data are not available.

The choker is curb extensions at midblock or intersection corners that narrow a street by extending the sidewalk or widening the planting strip. Also, called parallel chokers, angled chokers, twisted chokers, angle points, pinch points or midblock narrowing. Choker usually are installed in local and collector streets/roads, included pedestrian crossings, on main roads in small

communities. Chokers work well with speed humps, speed tables, raised intersections, textured crosswalks, curb radius reductions and raised median islands.

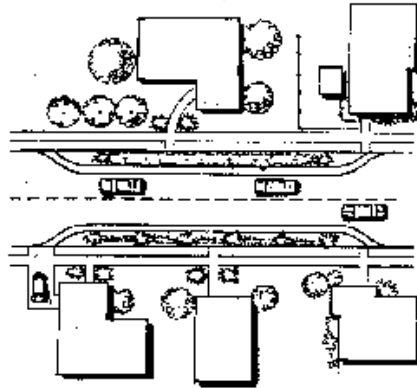


Figure 2.6 Schematic view of choker (<http://www.ite.org/traffic/choker.asp>)

#### Design/Installation Issues:

- some applications use an island which allows drainage and bicyclists to continue between the choker and the original curb line;
- typically designed to narrow road to 20 feet for two-way traffic; typically avoid the use of widths between 13 and 17 feet;
- adequate drainage is a key consideration;
- provides an opportunity for landscaping;
- vertical delineators, bollards or object markers are often used to make visible to snowplow operators.

#### Potential Impacts:

- can impact parking and driveway access;
- reduces pedestrian crossing width and increases the visibility of pedestrian;
- speeds have typically been reduced on average by 4 percent for two-lane chokers and 14 percent for one lane chokers;
- a minor decrease in traffic for two-lane and 20 percent reduction for one-lane chokers;
- collision data not available;
- bicyclists prefer not to have the travel way narrowed into the path of motor vehicles.

## Rumble Strips and Dragon's Teeth

Centerline rumble strips are used on undivided highways to reduce cross-over incidents and resultant head-on collisions. Shoulder rumble strips are used primarily to reduce run-off-road collisions. They alert distracted or drowsy drivers that they are leaving the roadway or crossing the centerline of the road.



Figure 2.7 Rumble strips (<http://www.stuff.co.nz/motoring/news/66630474/rumble-strips-median-barriers-needed-to-make-roads-safer>)

### Design/Installation Issues:

- typically designed across/along lane;
- easy to install;
- damages surface;

### Potential Impacts:

- can impact driving speed;
- can impact vehicle stability;
- speeds have typically been reduced;
- can make annoying noise in urban areas.

Selecting the speed reduction measures must take into account the street category and the permissible speed. At 70 km/h speed, vertical speed reduction measures, physically active drivers to apply. Instead, it is recommended to apply plantations, arching curves corresponding to the speed limit or restriction of visibility.

## 2.2. Analysis of traffic safety dependence on traffic speed regulation measures

A reasonable number of research projects were performed in Lithuania to improve road safety issues:

- Vaitkus, Audrius, Jasiūnienė, Vilma, Jateikienė, Laura, Andriejauskas, Tadas, & Skrodenis, Dovydas. (2016). Palanki visuomenės nuomonė efektyviam leistino greičio valdymui. Lietuvos Keliai, (1), 56-61.
- Vaitkus, Audrius, Strumskys, Mantvydas, Jasiūnienė, Vilma, Jateikienė, Laura, Andriejauskas, Tadas, & Skrodenis, Dovydas. (2016). Effect of intelligent transport systems on traffic safety. The Baltic Journal of Road and Bridge Engineering, 11(2), 136-143.
- Čygaite, Laura, Jasiūnienė, Vilma, & Žolynas, Andrius. (2014). The analysis of implementation possibilities of sectorial automated vehicle speed control systems on the roads of Lithuania. The Baltic Journal of Road and Bridge Engineering, 9(2), 131-138.
- Jasiūnienė, Vilma, & Čygas, Donatas. (2013). Road accident prediction model for the roads of national significance of Lithuania. The Baltic Journal of Road and Bridge Engineering, 8(1), 66-73.
- Laurinavičius, Alfredas, Skerys, Kęstutis, Jasiūnienė, Vilma, Pakalnis, Algis, & Starevičius, Martynas. (2009). Analysis and evaluation of the effect of studded tyres on road pavement and environment (I). The Baltic Journal of Road and Bridge Engineering, 4(3), 115-122.

*High speed reduces the possibility to respond in time when necessary. People need time to process information, to decide whether or not to react and, finally to execute a reaction. At high speed the distance covered in this period is longer. At high speeds, the distance between starting to brake and a complete stand still is longer as well. The braking distance is proportional to the square of speed ( $v^2$ ). Therefore, the possibility to avoid a collision becomes smaller as speed increases*([http://ec.europa.eu/transport/road\\_safety/specialist/knowledge/speed/speed\\_is\\_a\\_central\\_issue\\_in\\_road\\_safety/speed\\_and\\_accident\\_risk\\_en](http://ec.europa.eu/transport/road_safety/specialist/knowledge/speed/speed_is_a_central_issue_in_road_safety/speed_and_accident_risk_en)). This relation is well illustrated by

*Finch* („Speed, speed limits and crashes“ Project Record S211G/RB/Project Report PR 58. Transport Research Laboratory TRL, Crowthorne, Berkshire 1994) in report is said that 1 km/h increase in speed is 3 % increase in accidents. In practice the relationship is more complex. The exact relationship depends among many other things on speed level and road type. The higher the speed, the steeper the increase in accident risk. The relationship between speed and accident risk is a power function: With increasing speed, the accident risk increases more as the absolute speed is higher.

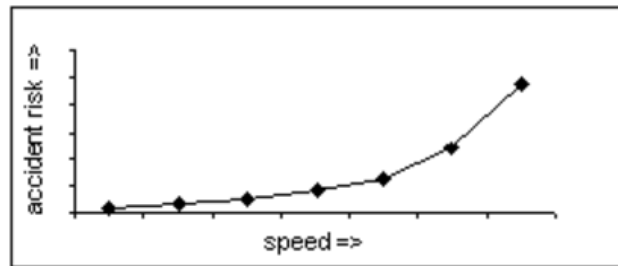


Figure 2.8 Basic view of speed and accident risk relation

Based on the principles of kinetic energy and validated by empirical data, ([Nilsson, G.](#) „Traffic safety dimensions and the power model to describe the effect of speed on safety“ 2004) developed the following formula:

$$A_2 = A_1 (V_2/V_1)^2 \quad (2.1)$$

Here:

$A_2$  – Number of injury accidents after change in speed;

$A_1$  – number of accidents before the change;

$V_2$  – new average speed;

$V_1$  – former average speed.

Also, type of road affects the relationship between speed – accident risk. On some roads, the traffic situation is more complex than on other roads. This depends on the number and type of intersections, zebra crossings, number of pedestrians, cyclist, agricultural vehicles, cargo transport. In more complex traffic situations, the accident risk is higher. The increase of accident risk is larger as complexity increases (Taylor, M., Baruya, A., & Kennedy, J.V. „The relationship between speed and accidents on rural single carriageway roads“ TRL Report TRL511 (2002)).

So the traffic safety dependence of traffic regulations measures can be evaluated by speed reduction after measurement installation.

Vertical shifts in the roads have a greater impact on vehicle speeds than any other measure. Speed control humps installation can help to solve many of the problems in the settlements: speeding, high traffic passing the village, traffic accidents, safer pedestrians environment, narrow road. Such conclusions appear after poll of different countries road safety experts were asked. (Rahman et al. (2009).

Humps or ramps should be spaced sufficiently close together, they show promising results of 85<sup>th</sup> percentile speed if speed limit is 30 km/h. Spacing should not be greater than 60 m, and in general, the height of the shift should be 100 mm. Ramps with a shallow gradient need to be placed closer together than steeper gradients to achieve the same effect. (T. Harvey (HETS) „A Review of current traffic calming techniques“) Also in this source is shown various measurements such as lateral shifts, road restrictions, roundabouts, small corner radius and changes in priority have an impact on vehicles speed, but the 85<sup>th</sup> percentile speed generally remains above 30 km/h, although average speed may be below the 30 km/h threshold. Figure 2.8 gives an indication of the relative speed reductions achievable from a number of traffic calming measures. The "before" situation refers to a road with a 48 km/h speed limit. From this figure is visible that best effect for speed reduction gives vertical shifts, range of average speed before measure variates 45-65 km/h and after implementation it reduces to 18-25 km/h. This significant speed drop gives accident causes to minimum damage.

|                                    | Upper limit of maximum speed (kph) |       | Upper limit of 85 percentile speed (kph) |       | Range of average speed (kph) |       |
|------------------------------------|------------------------------------|-------|--|-------|------------------------------|-------|
|                                    | Before                             | After | Before                                   | After | Before                       | After |
| Vertical shifts in the carriageway | 100                                | 40    | 75                                       | 30    | 45-65                        | 18-25 |
| Lateral shifts in the carriageway  | 100                                | 65    | 75                                       | 45    | 45-65                        | 22-35 |
| Road narrowing to a single lane    | 100                                | 65    | 75                                       | 45    | 45-65                        | 22-35 |
| Roundabout                         | 100                                | 65    | 75                                       | 45    | 45-65                        | 22-35 |
| Road narrowing to a reduced width  | 100                                | 95    | 75                                       | 70    | 45-65                        | 40-55 |
| Central islands                    | 100                                | 95    | 75                                       | 70    | 45-65                        | 40-55 |

Figure 2.9 Expected speed reduction effect of various traffic calming measure  
([http://www.its.leeds.ac.uk/projects/primavera/p\\_calming.html#a1](http://www.its.leeds.ac.uk/projects/primavera/p_calming.html#a1))

Lateral shifts, road narrowing to a single lane and roundabout effect to average speed range is also promising. It drops from 45-65 km/h before installation to 22-35 km/h after installation.

“City gate”- one of speed reduction measurement. Effect to speed changing, measurement affect area and effect to drivers was set by Ariën *et al* (2014). Research object was „city gate” then they are on area of 70 km/h reduction to 50 km/h (city entrance). In research participated 17 drivers with driver license. Data was analyzed using (dispersion analysis) was set that “„city gate” installation has effect on average speed reduction by 1,2-4,0 km/h on 300 effect area – 200 meters before entrance city and 100 meters after passing by „city gates”.

Less efficient to speed reduction are road narrowing to a reduced width and central islands. These measures expected speed reduction is from 45-65 km/h to 40-55 km/h.

### **Instant speed cameras**

United Kingdom transport research department in the scientific report (2004) states that instant speed cameras are effective for speed and accidents reduction. In researches is proven that after cameras installation exceed speed >20 km/h is less 80 %. Furthermore, decrease amount of accidents 33 %, as a consequence 40 % less fatal and injuries in accidents.

In United Kingdom (Cambridge area) was researched the effectiveness of 49 instant speed cameras. Research states that effect of instant speed camera is lowering depending on the distance from installation place. As more far from measure, as lower effectiveness recorded, 250 meters area from camera – 45,7%, 500 meters from camera – 41,3%, 1 kilometers from camera gives – 31,6 % reduced a number of accidents. (Hess „Analysis of the Effects of Speed Limit Enforcement Cameras: Differentiation by Road Type and Catchment Area“ 2004)

In Sweden roads research was done by Andersson, Larsson (2005). Speed and fatalities data was researched before and after installation of the camera. After cameras was installed speed decreased 8 km/h. That gives significant result for fatal accidents – 50 % and injuries – 25 % less than before installation.

### **2.3. Best practice of driver feedback speed signs**

Driver feedback speed sign (DFSS) systems are one type of traffic control device that has been used to reduce vehicle speeds successfully and, subsequently, crashes in applications such



as traffic calming on urban roads. DSFS consist of a speed measuring device, which may be loop detectors or radar, and a message sign that displays feedback to those drivers who exceed a predetermined speed threshold. The feedback may be the driver's actual speed, a message such as SLOW DOWN, or activation of some warning device, such as beacons or a curve warning sign.

DSFS systems have been tested and proven effective in urban applications such as school zones. They can be installed reasonably quickly and can be moved to other location if not effective at a particular location. One of the main advantages is that DSFS are set to activate only when drivers are exceeding a set speed threshold which targets only problem drivers.

Several studies have looked at the effectiveness of DSFS. (*Bertini* „Field Evaluation of the Myrtle Creek Advance Curve Warning System“ 2006) studied the effectiveness of a DSFS at a curve on Interstate 5 in Oregon. Results indicated that, after installation of the DSFS system, passenger vehicle speeds were reduced by 4,2 km/h and commercial truck speeds were reduced by 3,1 km/h, with the results being statistically significant at the 95% confidence level.

Western Transportation Institute made an evaluation of dynamic curve warning systems in Sacramento Riven Canyon in California (*Tribbet*, „An Evaluation of Dynamic Curve Warning Systems in the Sacramento River Canyon“ 2000). The roadway has high traffic volumes 7650 to 9300 veh./day, mountainous terrain, and a number of heavy vehicle crashes. The signs were 10 by 7 foot full-matrix LED panels that could be programmed to display a variety of messages. Messages used by the researchers included curve warnings and driver speed feedback. Data were collected before and at several periods after installation of the signs. In general, the researchers found decreases in heavy trucks speeds up to 8,7 km/h and decreases of up to 7,7 km/h in cars.

(*Mattox* „Development and Evaluation of a Speed Activated Sign to Reduce Speeds in Work Zones“ 2007) looked at the effectiveness of a DSFS system on secondary highways in South Carolina. This system consisted of a radar device and a 4 by 4 foot yellow sign with 6 inch lettering reading: YOU ARE SPEEDING IF FLASHING. In addition, there were two 1 by 1 foot orange flags and a type B flashing beacon light. Results showed that overall mean speed and 85th percentile speeds were reduced by 4,8 km/h.

A traffic safety Company 3M made evaluated driver speed feedback signs in the United Kingdom. Signs were tested at various locations in Doncaster in South Yorkshire, England, including semi-rural roadways. The signs displayed the approaching driver speed. The sites had

speed limits of 40 mph and reductions up to 7 mph in 85th percentile speeds were noted (3M Company „A Before and After Study of 3M Driver Feedback Signs“ 2006).

Department of Transport in Wokingham, Berkshire made studies about three vehicle-activated curve warning signs. These signs were placed on curves on two-lane roads in Norfolk, Wiltshire, and West Sussex. The sign displays were blank when the driver was under a specified speed threshold and displayed the curve sign when a driver exceeded the threshold (50th percentile speed). Mean speeds were reduced by 2.1 to 6.9 mph. Crash data were available for two sites, and the researchers found that crashes decreased by 54% and 100%. (*Winnet* „Vehicle Activated Signs—A Large Scale Evaluation“ 2002)

The effectiveness of a dynamic speed feedback sign on a rural two-lane highway in Wisconsin was done in 2012 by (Santiago-Chaparra „Spatial Effectiveness of Speed Feedback Signs“ 2012). Speed trajectories were collected upstream and downstream of the DSFS. The DSFS displayed a flashing speed when vehicle was above the speed limit and provided a black display when the approaching vehicles speed was below the speed limit. They found that the signs were the most efficient up to 1400 feet before the sign and that the impact began to reduce 300 to 500 feet after the DSFS. A full Bayes modeling methodology was utilized to develop crash modification factors (CMFs) for several scenarios including total crashes for both directions, total crashes in the direction of the sign, total single-vehicle crashes, and single-vehicle crashes in the direction of the sign. Using quarterly crash frequency as the response variable, crash modification factors were developed and results showed that crashes were 5% to 7% lower after installation of the signs depending on the model.

In order of Transport Ministry of United Kingdom research about driver feedback speed signs effect to speed and accident rate was done. (*Winnet* „Vehicle Activated Signs—A Large Scale Evaluation“ 2002). DFSS effectiveness was researched in different speed limits 50 mph, 40 mph and 30 mph. The biggest average speed decrease was recorded where 30 mph speed limit – 2,6-7,1 mph; in a place where the speed limit was 50 mph speed decrease – 3,6-4,6 mph and the lowest effect was in a place where the speed limit was 40 mph – 1,2-4,4 mph). Results state that not visible change of effectiveness during time. Also found that dynamic speed feedback signs have influence for accidents change.

The Texas Transportation Institute (*Fontaine „Evaluation of Traffic Control Devices for Rural High-Speed Maintenance Work Zones: Second Year Activities and Final Recommendations“* 2000) evaluated the use of a portable speed display trailer in work zones. The researchers found that passenger vehicle speeds were reduced by 7 to 9 mph at one site and 2 to 3 mph at another. Truck speeds were reduced 3 to 10 mph at both sites.

Average speeds can be reduced by 1 to 7 mph using dynamic speed signs; they also suggest that signs are more effective on a mobile basis, given drivers may become immune when the signs are installed on a permanent basis (*Sustrans. „Rural Minor Road Traffic Calming. National Cycle Network“,* 2005)

Two different signs were evaluated as part of the previous traffic-calming research project by (Hallmark „Evaluation of Gateway and Low-Cost Traffic-Calming Treatments for Major Routes in Small Rural Communities“ 2007). One sign technology involving displaying the current speed of the driver in Union, Iowa was effective at reducing speeds drastically. Another sign was evaluated in Slater, Iowa that was capable of providing different messages to the driver in addition to their current speed. The sign reduced the average speed of the drivers by 5 mph and the 85th percentile speed by 7 mph.

Evaluation of different types of dynamic speed display signs was done in Berlin. (Gehlert et al 2012). All three displays were researched in the same area where the speed limit is 30 km/h. Speeds were measured in different time of sign existence 1 month before installation, 2-3 months after installation and 1-6 months after unistallation. Found that most effective sign was with verbal meaning and animated with kid picture, less effective was sign with speed display and different colors, and worse performed numeric DFSS (Fig. 2.10).

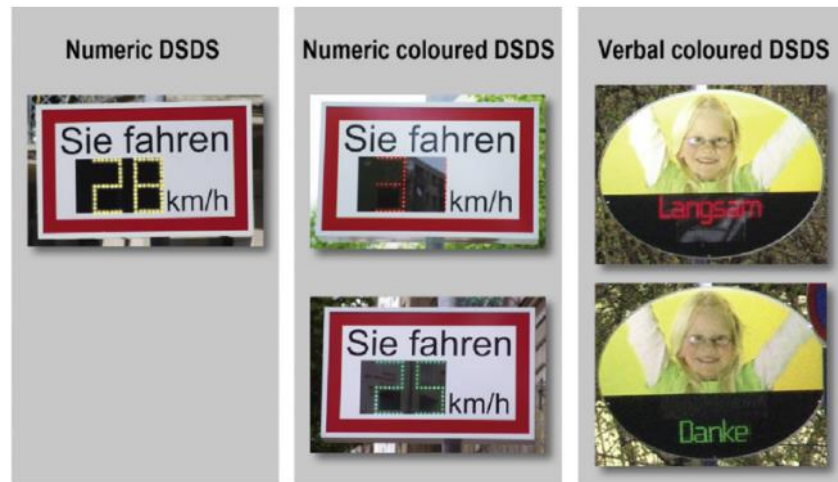


Figure 2.10 Dynamic speed display sign used in research  
 ([https://www.researchgate.net/figure/271582037\\_fig1\\_Fig-1-Description-of-dynamic-speed-display-signs](https://www.researchgate.net/figure/271582037_fig1_Fig-1-Description-of-dynamic-speed-display-signs))

## 2.4. Conclusions of second chapter

Analysis of speed regulation measures shows that each measure has issues in designing and installation. Some potential impacts of measure are positive some are negative. Also, not all measures has desired effect.

Analysis of traffic safety dependence of traffic regulation measures shows that speed is mean criteria for accidents. Instant speed cameras have a significant effect on speed reduction. Most valuable designing measures are vertical shifts, road narrowing in the carriageway, roundabout, and road narrowing with a single lane.

Best practice analysis shows that dynamic speed feedback sign decrease traffic average speed and has a positive effect on a number of accidents. Some researches show that time has no influence on the effect of the measure. One research shows that the weakest social group – kids showing gratitude „thank you“ shall create an additional effect on speed reduction.

### 3. EXPERIMENTAL RESEARCH OF DRIVER FEEDBACK SPEED SIGNS

The purpose of the experimental research was to evaluate the efficiency of driver feedback speed signs at Main roads of Lithuania dependent on sign type and road characteristics. For that purpose, I chose three driver feedback speed signs in Marijampolė district and performed traffic speed measurements before sign within the distance of 80-120 m, by sign and behind the sign within the distance of 80-100 m. Places were chosen randomly.

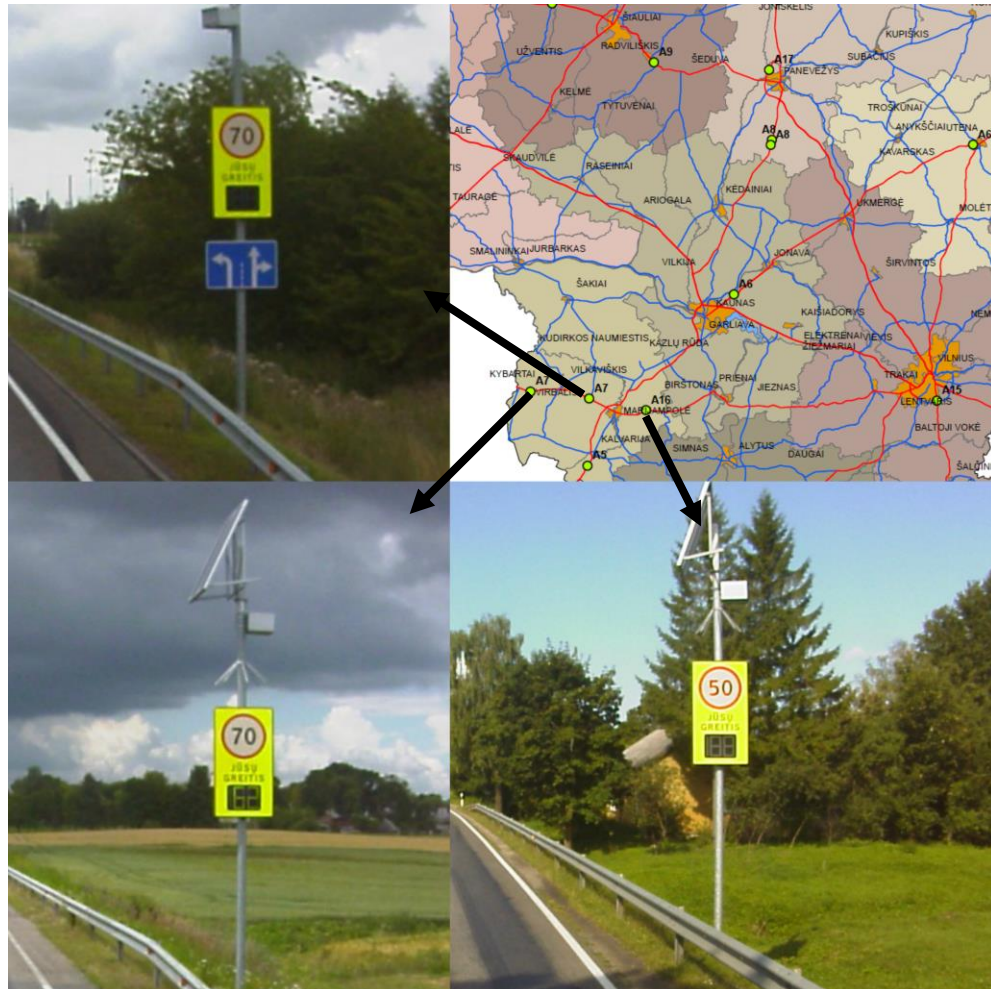


Figure 3.1 Driver feedback speed signs on Marijampolė district

Radar speed signs or driver feedback speed signs (DFSS). The two-color light emitting diode (LED) display, informing drivers about their vehicle's speed and reminding them of the speed limit. Vehicle speeds that are measured by the integral microwave radar are displayed. The car's speed and the speed limit signs informing users in road sections where it is very important to stick to the speed limit.

Usable:

- in speed access zones: urban areas, restricted zone, work zones, city gates;
- road sections with high accident rates: curves, bridges, tunnels;
- road sections with vulnerable road users: hospitals, school areas, road sections near senior houses, factories, bus stops, etc;
- road sections important for environment: noisy or polluted sections.

### **Characteristics of driver feedback speed sign**

Two-color light emitting diode (LED) display

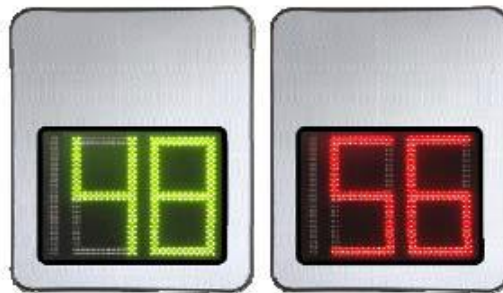


Figure 3.2 Display possibilities

Information drivers clearly demonstrated

- Allusive colors: green - the information, red – warning
- Flashing information that extra pay attention
- Numeric speed from 3 to 199 km show
- Perceptible from 100 m and greater distance.

The various energy options

- Running connected to the mains, the fixed equipment powered by a power supply device
- Works with one or two 17Ah batteries, the device is portable

- Running a power system with a buffer battery and the optional charger is used in places where installed a temporary power line (for example, street lamps).

Table 3.1 Technical characteristics of dynamic speed feedback sign

|                               |  |
|-------------------------------|--|
| <b>Dimensions and weight</b>  | <b>480x610x58 mm, 4 kg</b>                                       |
| Working voltage range         | 11,3 – 14,7 V  |
| Power consumption             | 840 mWt (without showing info)<br>24 Wt (maximum)                |
| Security class                | IP 54  |
| LED light – emitting diodes   | ALGaInP SMD LEDs<br>3 rows green (570 nm)<br>3 rows red (635 nm) |
| The radar microwave frequency | 24,15 – 24,25 GHz  |
| <i>The radar power</i>        | 20 dBm, 100 mWt  |

### 3.1. Objective of research

Investigations were carried out during daylight hours from 8 AM to 1 PM at a dry carriageway surfacing and good visibility, Friday, August 26th. Day of the week and time of the study was not assessed because it was assumed that the selected driving speed has no direct link. In the experiment were chosen three information signs:

- On road A16 Vilnius-Prienai-Marijampolė 125,15 km sign is on right side of the road. It is placed near road barriers, on rural area Igliskėliai village, near bus stop and curve to left. The sign is using solar energy and showing actual speed of vehicles passing by. Permissible speed is 50 km/h.
- On road A7 Marijampolė-Kybartai-Kaliningradas 11,7 km sign (Fig 3.8) is on right side of the road (left side in accordance with direction). It is placed near the junction with national road No. 187 Gižai-Pilviškiai and regional road No. 5116 Gižai-Keturvalakiai Sign installed near road barriers and safety island. DSFS is using solar energy, permissible speed is 70 km/h.
- On road A7 Marijampolė-Kybartai-Kaliningradas 36 km sign (Fig 3.9) is on right side of the road. It is placed near Virbalis village. Sign installed near road barriers. DSFS is using solar energy, permissible speed is 70 km/h.

Table 3.2 Driver feedback speed sign location information

| Road No. | Road name                          | Place km, side | Divider       | Visibility | Road section            | AADT veh./day | Driveways, meters |
|----------|------------------------------------|----------------|---------------|------------|-------------------------|---------------|-------------------|
| A7       | Marijampolė-Kybartai-Kaliningradas | 11,689 Left    | Safety island | Good       | Straight near junction  | 4665          | 20-30             |
| A7       | Marijampolė-Kybartai-Kaliningradas | 36,041 Right   | No            | Good       | Straight before village | 4503          | 70-80             |
| A16      | Vilnius-Prienai-Marijampolė        | 125,15 Right   | No            | Sufficient | Before curve in village | 3339          | 40-50             |

### 3.2. Equipment and methodology of experimental research

Equipment: meters with pneumatic tubes sensors

The traffic counters classifications are portable autonomous devices with interchangeable operating modes. This meter to connect two soft rubber tube that works paves the way of 1 meter from each other, according to specific needs also other rubber pipe installation techniques. When the car wheels are driven onto the tube, they increased air pressure triggered pneumatic meter sensors. Their signal meter scheme examine and record information about passed vehicle in its memory.

To determine vehicles driving speed were used mobile speedometers „CA Minuteman EVR“ (3.4 Fig.) and „Metrocount“ (3.5 Fig.).

CA Minuteman EVR counter with pneumatic sensors can continuously perform measurements up to 74 days, depending on the traffic on the road. The device is capable of storing up to 220 thousand recorded passed vehicles. This counter vehicles classifies to EUR 13 classes. The classification accuracy of the calculator is more than 98% accuracy rate is 98%, with a tolerance of +/- 2%. The unit records the vehicles with a speed not less than 3 km/h and not more than 235 km/h.

„Metrocount“ device can distinguish between vehicles which at the same time goes through rubber tubes, provided that the operating speed is different at 5 km / h. This counter classifies vehicles to EUR 13 classes, recorded by the vehicle number of axles and the time span between the axles. The meter can identify the vehicle direction, speed, the wheelbase, the gap between the



other two vehicles and class. This measurement may be done by the calculator continuously for up to 290 weeks. The study analysed only the instant speed and the length of the vehicle data.



Figure 3.3 CA traffic “Minutem EVR” counter

The studies unit attached near road and pneumatic tubes paved on the driveway at right angles to form a 90 ° angle to the vehicle flow direction. The tubes must be tensioned and fixed parallel distance of 1 m from each other. The device should be placed only in straight sections of the road.



Figure 3.4 “Metrocount” installation

Instant recording speed of each object is collected in place of three measurement bases. First and third were placed 80-120 m distance before and after the sign. 2nd place is on sign area. Bases were selected not more than 100 m away from the board to stay in safety measure coverage

of this measurement. One measuring point was the distance of 120 m because physically it was impossible to put the measuring device. A conceptual scheme of the measurements 3.6 Fig.



Figure 3.5 Principal scheme of measure vehicles speed

All collected data was analysed. Accepted that all measured speed of vehicle falls into the general set and consists population. Empirical rule is assumed that the interval  $\mu \pm 2\sigma$  fall approximately 95% of the tested object data (Gindra Kasnauskienė, Statistika verslo sprendimams. Vilniaus universiteto leidykla, 2013.)

Population standard deviation defining population calculated according to the formula 3.1.

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2} \quad (3.1)$$

Here  $\mu$  – average of the population, calculated according to formula 3.2.

$$\mu = \frac{1}{N} \sum_{i=1}^N x_i \quad (3.2)$$

Determined each place average of the population and standard deviation, rejected not decent speeds. The speed which falls into interval  $\mu$  creates average traffic speed and then the percentage of exceeding vehicles counted.

### 3.3. Results and evaluation of experiment

Statistical analysis done according to methodology and results are shown in Figures 3.6–3.14, showing lower and upper limit of  $\pm 2\sigma$  interval, speeds of vehicles and traffic average speed (Annex A). Vehicles speeds which don't get into interval  $2\sigma$ , ignored and didn't take into account of average traffic speed.

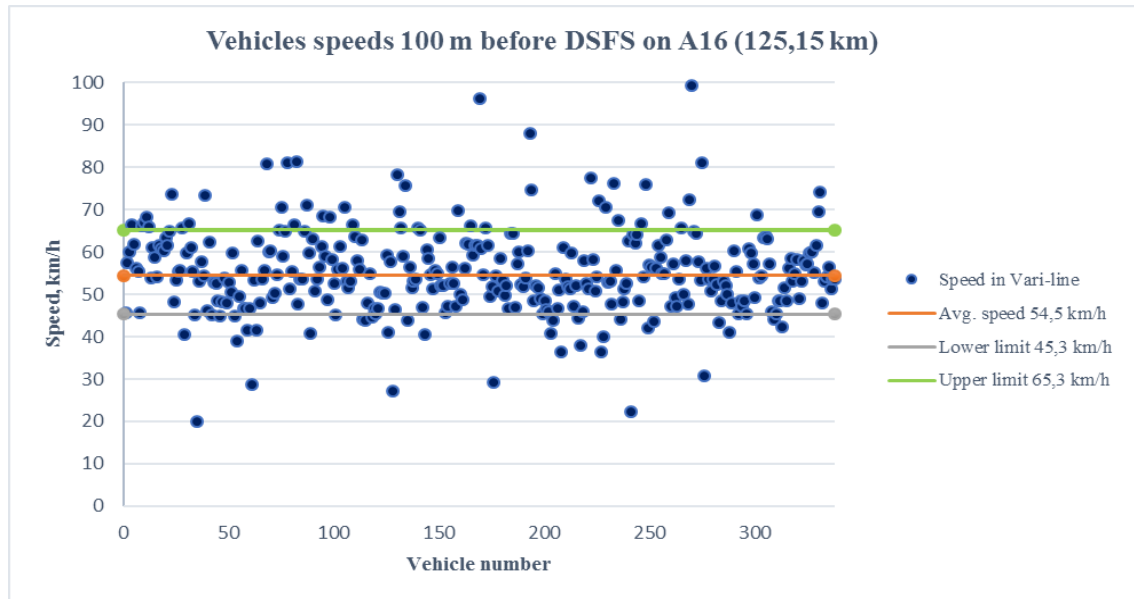


Figure 3.6 Speeds of vehicles distribution before sign – road No. A16 125,15 km

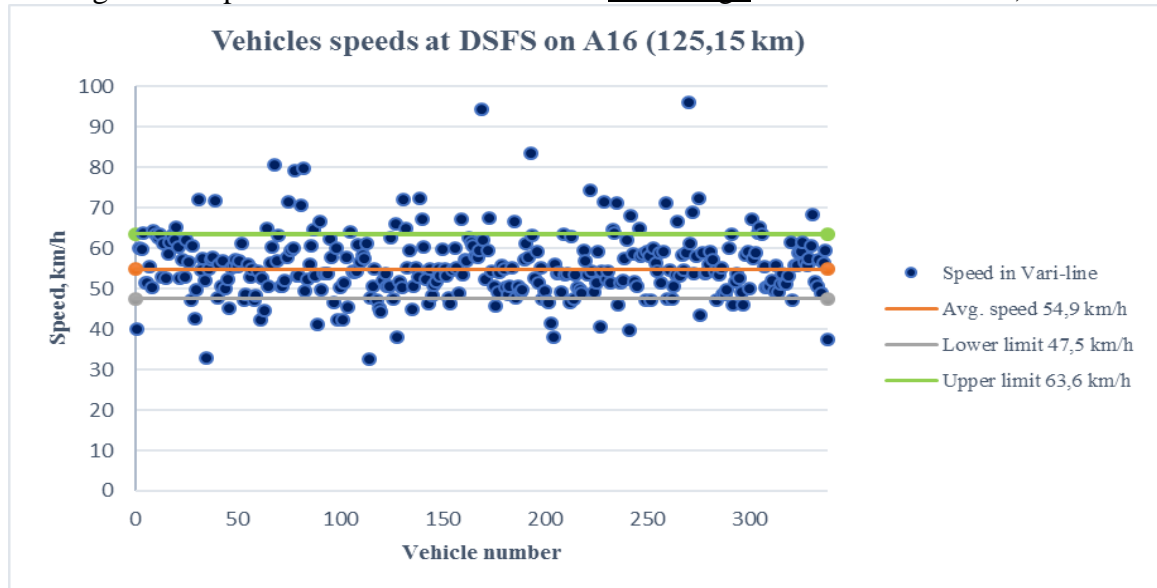


Figure 3.7 Speed of vehicles distribution at sign - road No. A16 125,15 km

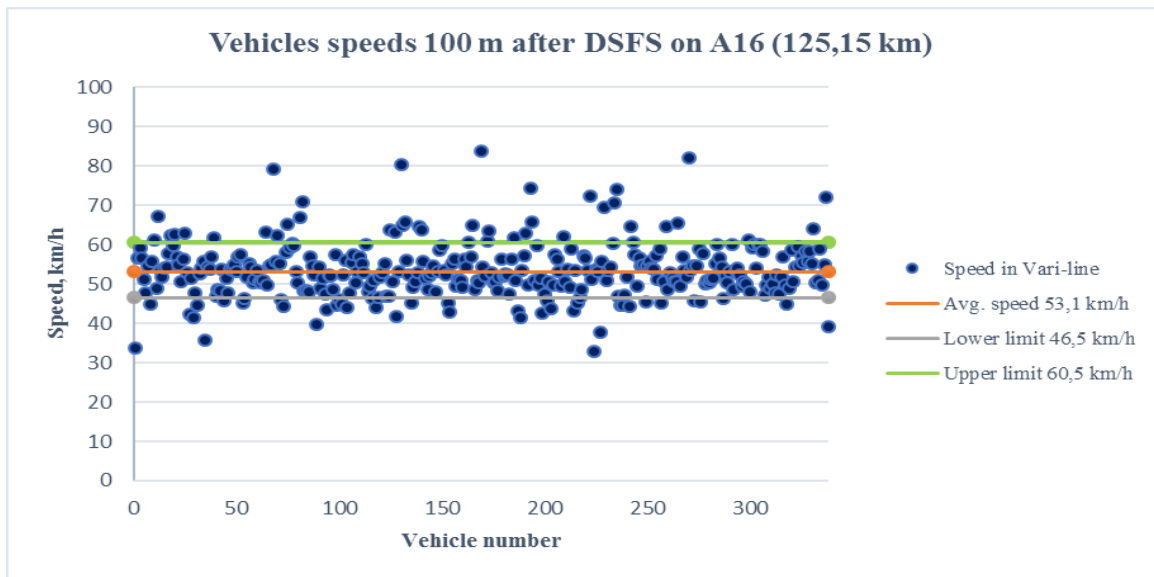


Figure 3.8 Speeds of vehicles distribution after sign – road No. A16 125,15 km

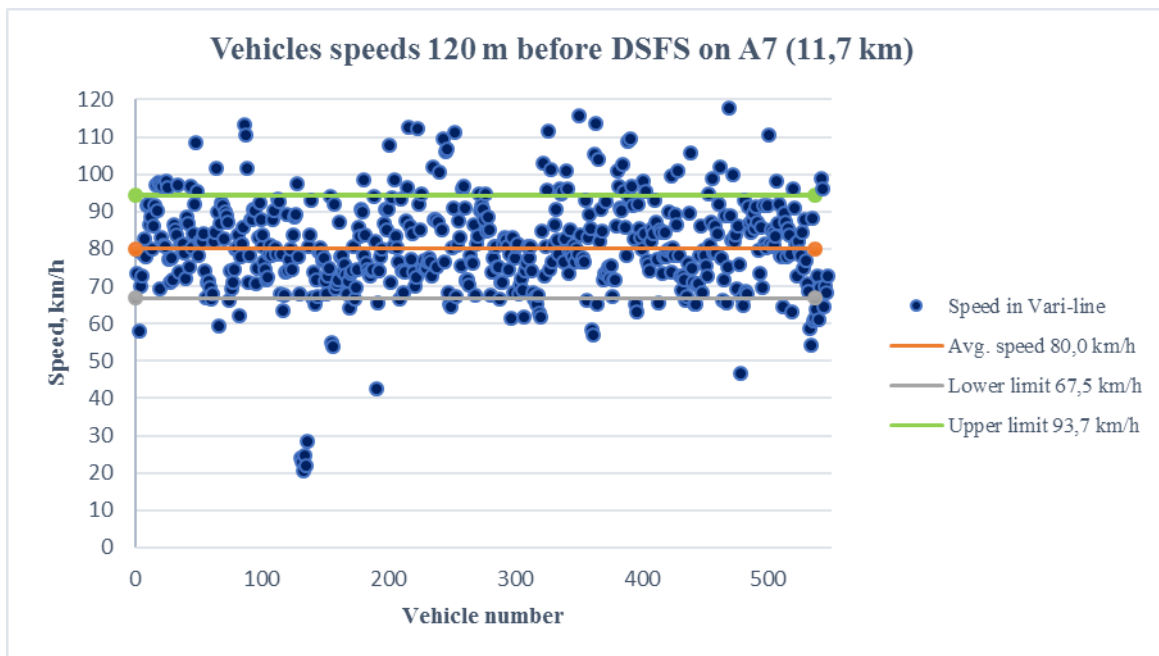


Figure 3.9 Speeds of vehicles distribution before sign – road No. A7 11,7 km

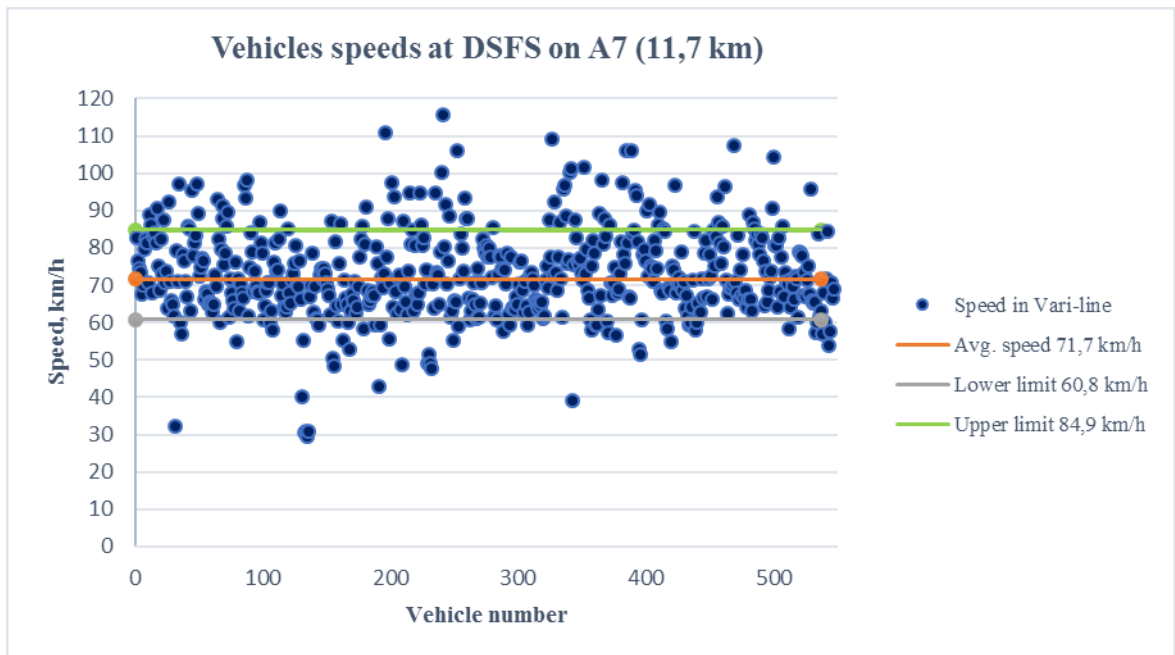


Figure 3.10 Speeds of vehicles distribution at sign – road No. A7 11,7 km

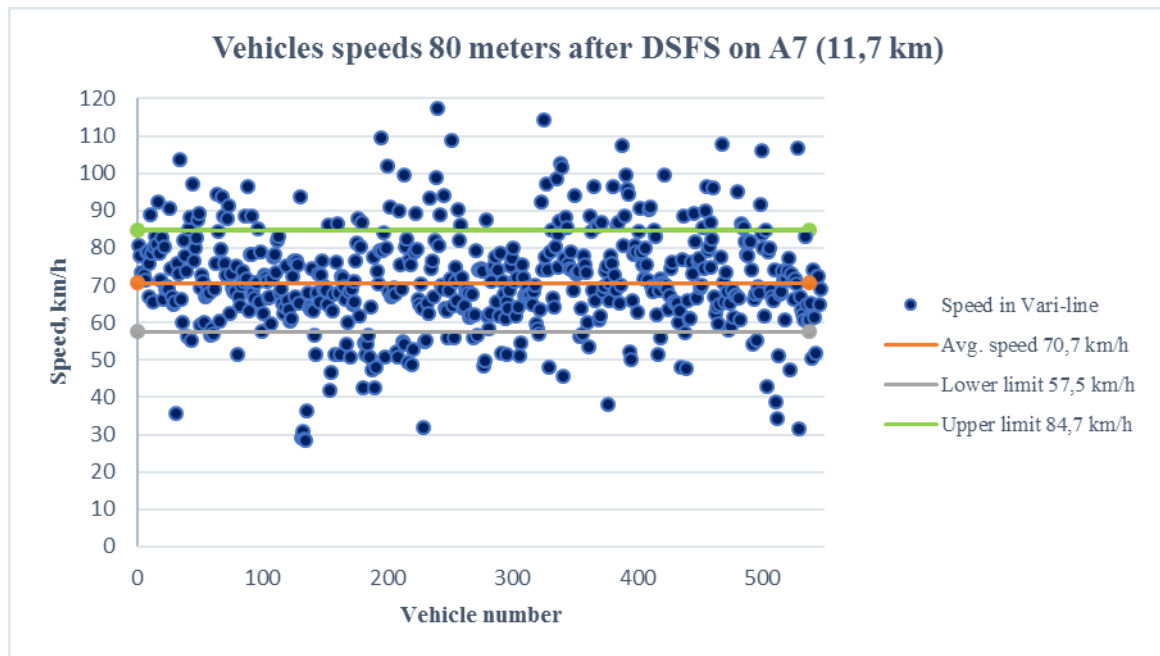


Figure 3.11 Speeds of vehicles distribution after sign – road No. A7 11,7 km

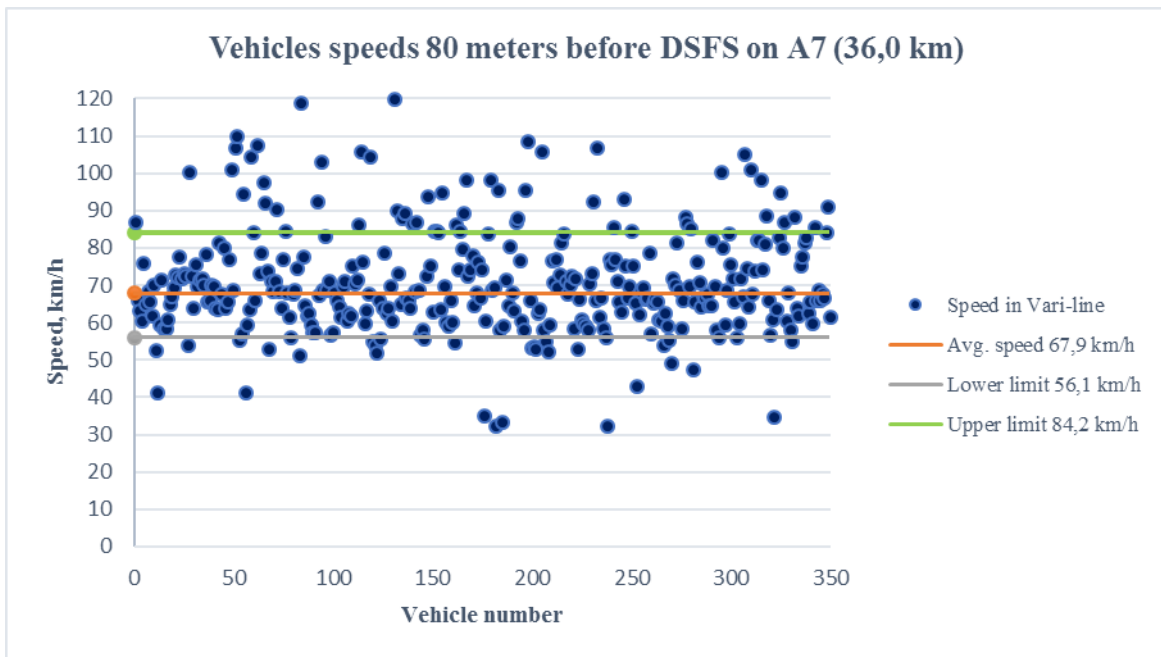


Figure 3.12 Speeds of vehicles distribution before sign – road No. A7 36,0 km

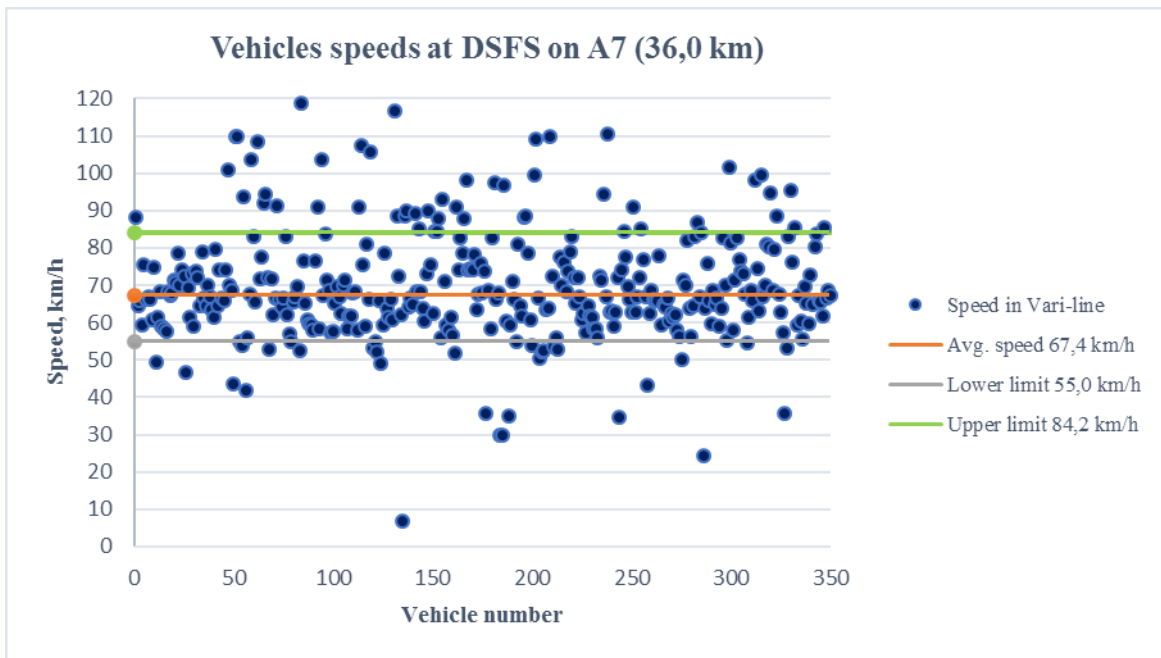


Figure 3.13 Speeds of vehicles distribution at sign – road No. A7 36,0 km

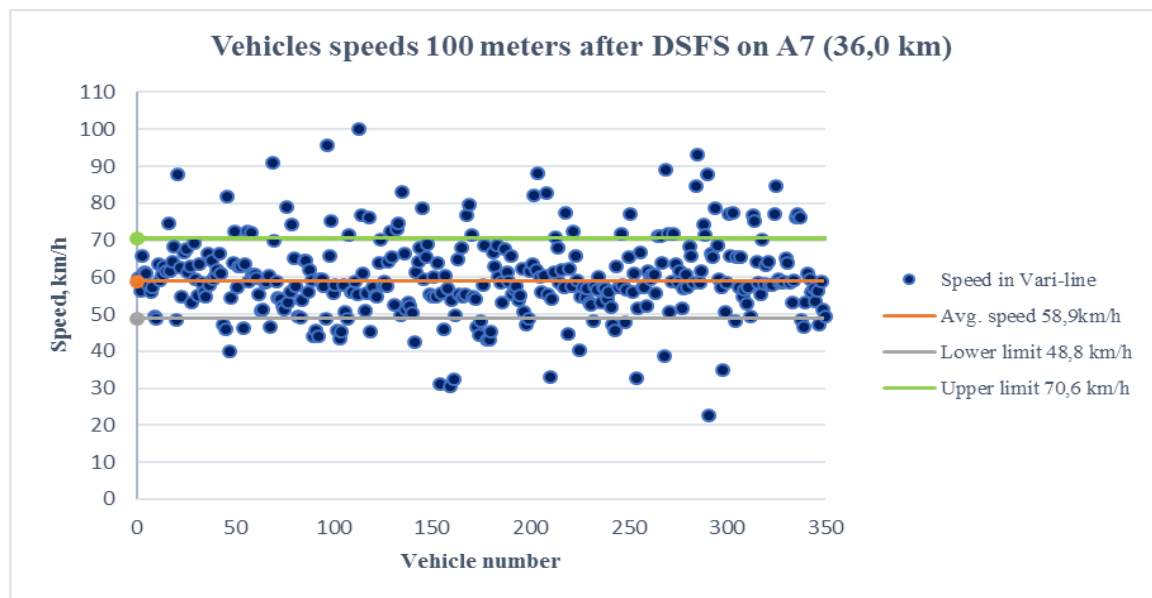


Figure 3.14 Speeds of vehicles distribution after sign – road No. A7 36,0 km

#### Road No. A16 Vilnius-Prienai-Marijampolė

Speed limit 50 km/h. Average traffic speed reduced by 1,4 km/h, from 54,5 km/h to 53,1 km/h. Despite that vehicles still moving above the speed limit. Vehicles who exceed speed limit is 73,4 % and exceed speed more than 10 km/h – 26 %. After sign is passed vehicles who exceed speed >10 km/h is just 3,1 %. This speed reduction is cause of curve to the left and driver feedback speed sign.

#### Road No. A7 Marijampolė-Kybartai-Kaliningradas 11,7 km

Speed limit 70 km/h. Average traffic speed reduced by 9,3 km/h, from 80,0 km/h to 70,7 km/h. Although vehicles still moving above the speed limit. Vehicles who exceed speed limit is 92,5 % and exceed speed more than 10 km/h – 49,2 %. After sign is passed vehicles who exceed speed >10 km/h decrease by 29,9 %. Driver feedback speed sign creates speed reduction, +1 lane for slowing and waiting for maneuver and traffic island which alert about changing driving conditions.

#### Road No. A7 Marijampolė-Kybartai-Kaliningradas 11,7 km

Speed limit 70 km/h. Average traffic speed reduced by 9,0 km/h, from 67,9 km/h to 58,9 km/h. Despite that vehicles who moving above the speed limit is 34,9 %. Vehicles who exceed speed limit more than 10 km/h – just 6,5 %. After sign is passed vehicles which exceed speed



reduce by 34,1 % and vehicles who exceed speed > 10 km/h gone. For speed reduction have impact few aspects – driving speed changing (70 to 50 km/h), drivers feedback speed sign.

Overall, all driver feedback speed signs working well with other speed reduction measures and they are giving positive impact on average speed and speeding reduction

Table 3.3 Change of speed according measure place

| Measure place  | Speed limit, km/h | Avg. traffic speed, km/h | Vehicles exceeded speed limit, % | Vehicles exceeded speed >10 km/h, % |
|--|-------------------|--------------------------|----------------------------------|-------------------------------------|
| Road No. A16 Vilnius-Prienai-Marijampolė               |                   |                          |                                  |                                     |
| 100 m before   | 50                | 54,5                     | 73,4                             | 26                                  |
| On sign  |                   | 54,9                     | 88,1                             | 13,9                                |
| 100 m after sign                                       |                   | 53,1                     | 79,6                             | 3,1                                 |
| Difference   |                   | -1,4                     | 6,2                              | -22,9                               |
| Road No. A7 Marijampolė-Kybartai-Kaliningradas 11,7 km |                   |                          |                                  |                                     |
| 120 m before   | 70                | 80,0                     | 92,5                             | 49,2                                |
| On sign  |                   | 71,7                     | 56,6                             | 49,2                                |
| 80 m after sign  |                   | 70,7                     | 49,4                             | 19,3                                |
| Difference   |                   | -9,3                     | -43,2                            | -29,9                               |
| Road No. A7 Marijampolė-Kybartai-Kaliningradas 36,0 km |                   |                          |                                  |                                     |
| 80 m before  | 70                | 67,9                     | 34,9                             | 6,5                                 |
| On sign  |                   | 67,4                     | 32,6                             | 6,7                                 |
| 100 m after sign                                       |                   | 58,9                     | 0,8                              | 0,0                                 |
| Difference   |                   | -9,0                     | -34,1                            | -6,5                                |

### 3.4. Analysis of driver feedback speed signs effect on traffic safety in main roads of Lithuania

To make roads more safer there are a lot of different ways to reach that goal, one of them is driver feedback speed signs. In Lithuania main roads there are 17 DFSS (see Fig. 3.15). There is no strict regulations how these signs appear on roads, but there are 10 basis points, which is determined by local relevance:

- ❖ Traffic accidents;
- ❖ Black spot or accidents section;



- ❖ Event type matching;
- ❖ Fatalities;
- ❖ Intensity;
- ❖ The road type;
- ❖ Unreconstructed section;
- ❖ Vehicles which are speeding more than 85% of traffic speed;
- ❖ Good technical installation possibilities and environmental friendliness;
- ❖ Camera security.



Figure 3.15 Driver feedback speed signs locations on main roads

Table 3.4 Traffic accidents analysis near driver feedback speed signs

| No. | Road No. | Road name                          | Place of installation | Road side | Installation year | Before installation |            |          | After installation |            |          |
|-----|----------|------------------------------------|-----------------------|-----------|-------------------|---------------------|------------|----------|--------------------|------------|----------|
|     |          |                                    |                       |           |                   | Accidents           | Fatalities | Injuries | Accidents          | Fatalities | Injuries |
| 1   | A6       | Kaunas-Zarasai-Daugpilis           | 13,92                 | Right     | 2012              | 10                  | 1          | 11       | 7                  | 1          | 7        |
| 2   | A11      | Šiauliai-Palanga                   | 135,85                | Left      | 2011              | 21                  | 1          | 33       | 15                 | 1          | 15       |
| 3   | A16      | Vilnius-Prienai-Marijampolė        | 125,15                | Right     | 2012              | 3                   | 1          | 4        | 0                  | 0          | 0        |
| 4   | A5       | Kaunas-Marijampolė-Suvalkai        | 88,95                 | Right     | 2011              | 3                   | 0          | 6        | 5                  | 1          | 4        |
| 5   | A7       | Marijampolė-Kybartai-Kaliningradas | 11,689                | Left      | 2011              | 5                   | 2          | 8        | 2                  | 1          | 5        |
| 6   | A7       | Marijampolė-Kybartai-Kaliningradas | 36,041                | Right     | 2011              | 8                   | 9          | 9        | 0                  | 0          | 0        |
| 7   | A6       | Kaunas-Zarasai-Daugpilis           | 182,15                | Right     | 2011              | 1                   | 0          | 1        | 4                  | 1          | 3        |
| 8   | A6       | Kaunas-Zarasai-Daugpilis           | 182,25                | Left      | 2011              | 1                   | 0          | 1        | 4                  | 1          | 3        |
| 9   | A6       | Kaunas-Zarasai-Daugpilis           | 129,58                | Right     | 2013              | 0                   | 0          | 0        | 3                  | 0          | 3        |
| 10  | A8       | Panevėžys-Aristava-Sitkūnai        | 23,76                 | Right     | 2011              | 2                   | 2          | 0        | 2                  | 0          | 3        |
| 11  | A8       | Panevėžys-Aristava-Sitkūnai        | 25,73                 | Left      | 2011              | 3                   | 4          | 0        | 3                  | 0          | 4        |
| 12  | A10      | Panevėžys-Pasvalys-Ryga            | 33,375                | Right     | 2011              | 2                   | 2          | 0        | 3                  | 5          | 4        |
| 13  | A17      | Panevėžio miesto aplinkkelis       | 15,545                | Left      | 2010              | 4                   | 0          | 5        | 1                  | 0          | 1        |
| 14  | A12      | Ryga-Šiauliai-Taragė-Kaliningradas | 168,16                | Right     | 2011              | 1                   | 1          | 0        | 0                  | 0          | 0        |
| 15  | A15      | Vilnius - Lyda                     | 11,55                 | Left      | 2010              | 15                  | 4          | 26       | 3                  | 0          | 5        |
| 16  | A9       | Panevėžys-Šiauliai                 | 54,25                 | Right     | 2010              | 10                  | 1          | 14       | 7                  | 1          | 7        |
| 17  | A11      | Šiauliai-Palanga                   | 26,23                 | Left      | 2013              | 0                   | 0          | 0        | 0                  | 0          | 0        |

To make dynamic speed feedback sign performance evaluation accidents data was collected. In calculations of accident rate decrease, installation year data has not been analyzed and assessed, because there is no accurate to evaluate it. Traffic accident analyse was done using related information, which is shown in Table 3.4. Installation of radar speed signs started since 2010, during three years were installed 17 radar speed feedback signs on main roads network. Traffic accidents data was collected 2-3 years before and after installation was done. Taking into account 1 kilometer before sign and 2 kilometers after the sign.

Before treatment was installed: 89 accidents, 28 fatalities, and 118 injuries were recorded. After measurement was installed 59 accidents, 12 deaths, and 64 injuries were recorded (Fig. 3.16).

Despite the fact that annual average daily traffic all over the places increased from 102391 vehicles/day to 113657 vehicles/day, increment – 11%, accidents drop is 33,7 %. Fatalities decrease is significant 57,1 %, and injuries are 45,8% less than it was before DFSS installation.

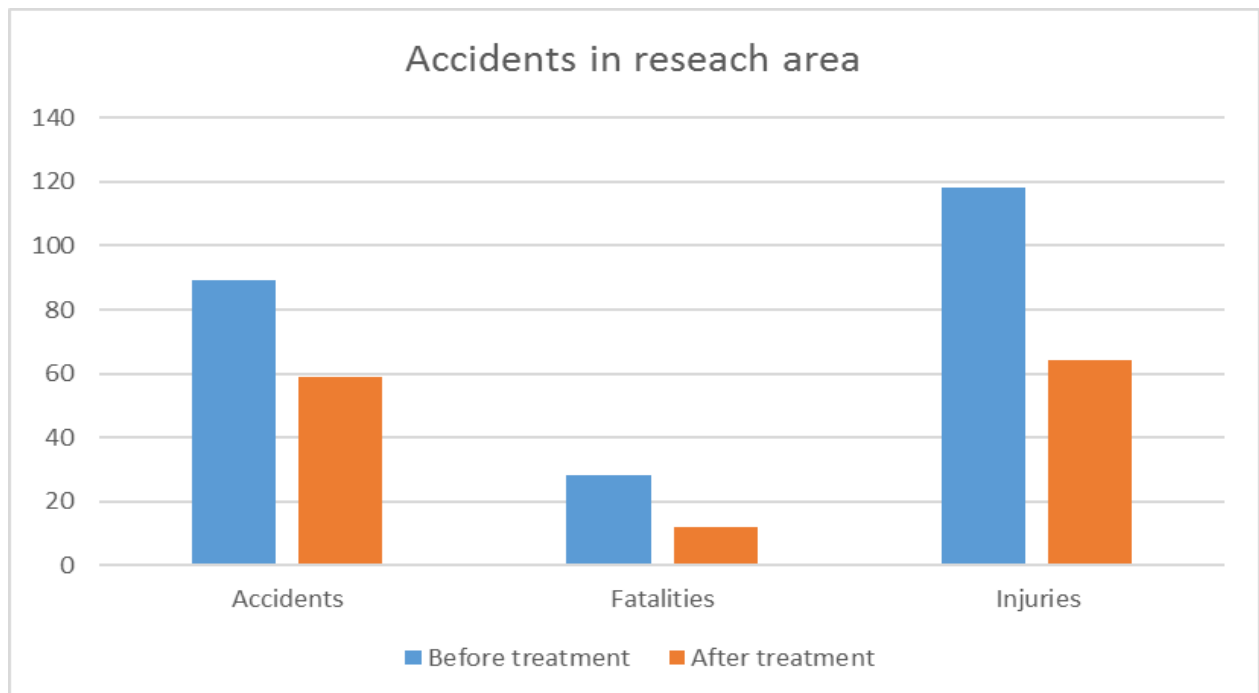


Figure 3.16 Accidents results before and after driver feedback speed signs installation

### **3.5. Conlusions of third chapter**

Research has expressed reduction of average traffic speed at radar speed sign sectors which were included to research programme. In average speed reduction varies from 1,4 km/h to 9,0 km/h.

At all three radar speed signs sectors speeding was identificated as high risk element.. The speeding of 10 km/h and below was identificated at ratio of 34,9-92,5%. The best performance showed radar speed sign sector on Road A7 Marijampolė-Kybartai-Kaliningradas 11,7 km. At this sector reduction of the traffic speed to allowed speed limit or below compare to section before this section reached 43,1%.

Vehicles exceeding the allowable speed limit by more than 10 km/h were at 6-49,2 % before (80-120 meters) sign sector and 0-19,3% after (80-100 meters) sign.

Summarizing data from all three test sections with radar speed signs conclusions can be made that accidents number dropped significantly from 16 to 2 or 87,5% dependent on particular section peculiarity.

## 4. DRIVER SPEED FEEDBACK SIGN IN LITHUANIA MAIN ROADS

### 4.1. Survey. Driver feedback signs in Lithuania main roads

Survey was created on the basis of human behavior near driver feedback speed sign. The survey involved 611 drivers with a driver license. The main task of the survey was to ask drivers how they react then they drive thru driver feedback speed sign and find which people group react most. Questions asked such information:

- Gender (Male, Female);
- Age (18+);
- Education (Secondary school, college);
- Driver experience (less than 1 year, 1-2 years, 3-5 years, 5-10 years and more than 10 years);
- Fines for speeding (Yes or No);
- Why you speeding? (open question)
- How you react then you see driver feedback speed sign (No reaction, speed up, slow down).

#### Results of the survey

Table 4.1 Driving experience, gender and reaction to DFSS

| Driving Experience | Male        |          |           | Total | Female      |          |           | Total |
|--------------------|-------------|----------|-----------|-------|-------------|----------|-----------|-------|
|                    | No reaction | Speed up | Slow down |       | No reaction | Speed up | Slow down |       |
| <1                 | 10          | 1        | 23        | 34    | 6           | –        | 45        | 51    |
| 1–2                | 16          | –        | 29        | 45    | 11          | –        | 40        | 51    |
| 3–5                | 28          | 4        | 41        | 73    | 17          | –        | 62        | 79    |
| 5–10               | 30          | 4        | 39        | 73    | 9           | –        | 61        | 70    |
| >10                | 22          | 3        | 48        | 73    | 12          | –        | 50        | 62    |
| Total:             | 106         | 12       | 180       | 298   | 55          | 0        | 258       | 313   |

- *Less than 1 year driving experience.* 18,8 % of all respondents says that they don't take any action when they see driver feedback speed sign. One respondent answer that he speeds up and 80 % stand with answer slow down.

- *1-2 years of driving experience.* 28,1 % of all respondents answer “No reaction” while they go thru driver feedback speed sign. Rest of all 71,9 % stands for “Slow down”.
- *3-5 years of driving experience.* 29,6 % answer that they ignore sign. 4 respondents say that they usually speed up and rest respondents 67,7% used to slow down near the sign.
- *5-10 years of driving experience.* Less than one-third of drivers says that they don’t take any reaction to driver feedback speed sign. Four respondents or 2,7 % says that they like to accelerate. Respondents who choose to slow down option is 100 of 143 or 69,9 %.
- *More than 10 years of driving experience.* 25,1% of drivers stands for taking no action. Three respondents choose to speed up near the sign and 72,6 % belongs to „Slow down“ group.

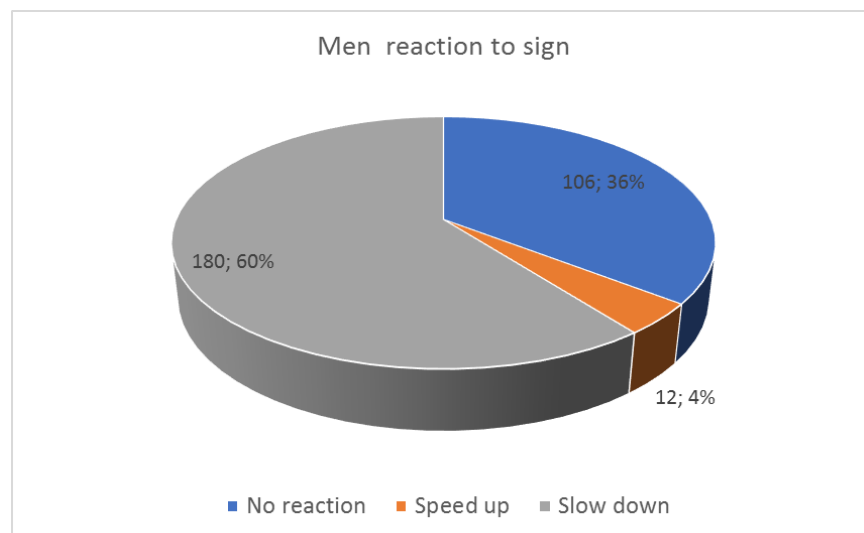


Figure 4.1 Male answers distribution

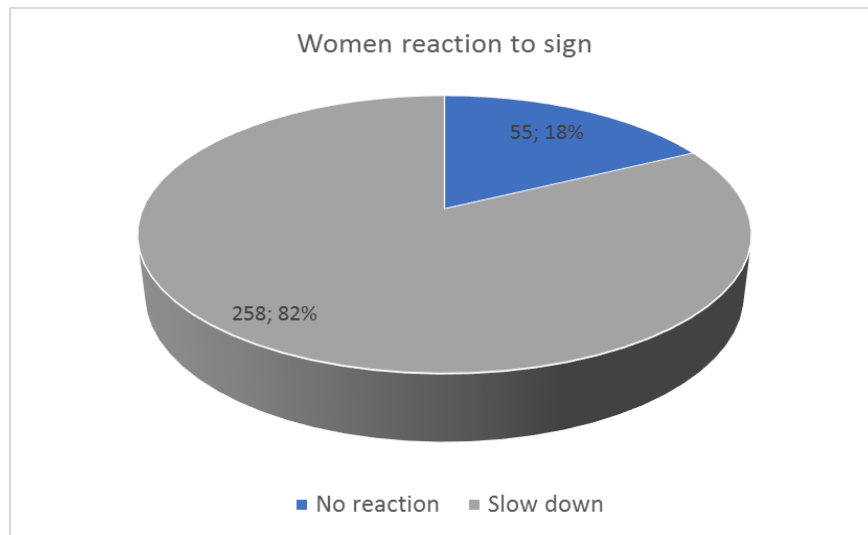


Figure 4.2 Female answers distribution

As it is visible men is more likely to ignore sign or even speed up, but still 60 % of men answers says that they slow down near driver feedback speed sign, while 82 % of women says that they use to slow down and just 18 % ignore the sign.

In compare, statistic results show that for accidents which happen because the lack of experience is higher in first two-three years. Later numbers decrease and little bit rise up on ten years experience limit. In accordance, survey results show that young drivers use to slow down the speed, but still making most of the accidents on the roads.

Table 4.2 Driving experience of the drivers guilty for road accidents, 2012–2015  
([http://www.lra.lt/files/avariju\\_statistika/statistics\\_2012-2015.pdf](http://www.lra.lt/files/avariju_statistika/statistics_2012-2015.pdf))

| Experience, years | 2012 |        | 2013 |        | 2014 |        | 2015 |        |
|-------------------|------|--------|------|--------|------|--------|------|--------|
| Up to 1           | 113  | 5.36 % | 110  | 4.63 % | 108  | 4.82 % | 129  | 6.15 % |
| 1                 | 161  | 7.64 % | 176  | 7.40 % | 148  | 6.61 % | 130  | 6.19 % |
| 2                 | 86   | 4.08 % | 121  | 5.09 % | 91   | 4.06 % | 82   | 3.91 % |
| 3                 | 78   | 3.70 % | 95   | 4.00 % | 107  | 4.78 % | 91   | 4.34 % |
| 4                 | 81   | 3.84 % | 55   | 2.31 % | 72   | 3.21 % | 67   | 3.19 % |
| 5                 | 93   | 4.41 % | 114  | 4.80 % | 112  | 5.00 % | 88   | 4.19 % |
| 6                 | 50   | 2.37 % | 67   | 2.82 % | 75   | 3.35 % | 76   | 3.62 % |
| 7                 | 63   | 2.99 % | 73   | 3.07 % | 87   | 3.88 % | 83   | 3.95 % |
| 8                 | 53   | 2.52 % | 61   | 2.57 % | 49   | 2.19 % | 53   | 2.53 % |
| 9                 | 39   | 1.85 % | 54   | 2.27 % | 42   | 1.88 % | 52   | 2.48 % |
| 10                | 91   | 4.32 % | 81   | 3.41 % | 101  | 4.51 % | 121  | 5.76 % |
| 11                | 48   | 2.28 % | 30   | 1.26 % | 33   | 1.47 % | 46   | 2.19 % |
| 12                | 71   | 3.37 % | 47   | 1.98 % | 41   | 1.83 % | 39   | 1.86 % |
| 13                | 47   | 2.23 % | 49   | 2.06 % | 41   | 1.83 % | 23   | 1.10 % |
| 14                | 60   | 2.85 % | 63   | 2.65 % | 42   | 1.88 % | 37   | 1.76 % |
| 15                | 77   | 3.65 % | 73   | 3.07 % | 72   | 3.21 % | 78   | 3.72 % |

## 4.2. Recommendations for traffic speed regulation measures specification in main roads of Lithuania

Recommendations for the use of driver feedback speed signs based on VTrans RSFS Guidelines with Policy #3014 (January 2009) „Guidelines for the use of radar speed feedback signs on the state highway system.“

General information:

Recommendations is only for use driver feedback speed signs on Lithuania main roads. The recommendation does not cover the use of these type of sign work zones or cities.

Purpose & Objective:

A dynamic speed feedback signs are *installed to provide a real-time dynamic display of a driver's vehicular speed at a particular location where speeding has been documented to be a problem*. When the DFSS is activated, the display format shall not include animation, rapid flashing, or other dynamic elements which can lead to driver's distraction.

Conditions for Use:

To install dynamic speed feedback sign such conditions should exist:

1. The 85<sup>th</sup> percentile speed, as determined by a speed study, exceeds the posted speed limit by at least 10 km/h.



2. Black spots exist. Black spot called the 500 m stretch of road, which took place over four years at least four traffic accidents, where people are killed or injured.
3. Junction of two difference categories roads. The main road and national or regional road.
4. Small communities on main roads there speed usually is 90 km/h and in town is demanded to reduce to 50 km/h.

Installation may be considered for location where crash data is clearly linked to excessive speed.

Technical requirements:

Dynamic speed feedback sign must meet the following specifications:

1. Installation shall be merged with a Speed Limit sign or Curve.
2. The dynamic speed feedback sign shall include the legend “your speed xx km/h” or similar legend.
3. The changeable display shall be programmed to go blank /no display when the vehicle speed exceeds 20 km/h to over the posted speed.
4. The lowest speed which dynamic speed feedback sign shall show 20 km/h lower speed limit not less.
5. When activated, the dynamic speed feedback sign shall give drivers immediate feedback on their driving speed when the posted speed is exceeded without animation, rapid flashing, or other dynamic elements who can effect drivers on night time.
6. The installation shall not interfere with the visibility and general effectiveness of any other signs in the area.
7. Dynamic speed feedback signs must have the ability to collect speed data for the later analysis of sign effectiveness to speed.

Eligible Requesting Entities:

All requests for DFSS on the Lithuania main roads system shall be submitted by the Lithuania Road Administration, *unless* the DFSS is a specific permit condition on a private road.

Regional roads responsibility:

Regional roads shall be responsible for the installation, maintenance, and removal of DFSS if it is necessary. Also, they shall collect data and perform speed analysis annual.

Besides these recommendations also new types of dynamic speed feedback sign should be considered. Such as sign with eyes contact included or shocking message „days spent in hospital xx“ here xx stands as exceeded speed km/h.

### 4.3. Benefit-cost analysis

On main road No. A7 Marijampolė–Kybartai–Kaliningradas 11,6 km installed dynamic speed feedback sign. To evaluate value for country cost-benefit analysis has to be done.

Benefit-cost analysis for safety measures shall be calculated from 10-20 years (Automobilių kelių investijų vadovas, 2015).

The benefit-cost analysis evaluates 2 scenarios:

- Do nothing – I scenario;
- Dynamic speed feedback sign installation – II scenario.

#### Average annual daily traffic

Annual average daily traffic (later AADT) is most important data to make a prognosis of road conductivity in future. Traffic intensity depends on country economics, vehicles and fuel prices, inhabitants density, etc.

Main road No. A7 in section 11,54-24,80 km AADT is 4665 vpd in 2011 year. Expected traffic variation presented in Table 4.1 it is based on Roads and Transport Research Institute prognosis.

Table 4.3 Expected annual average daily traffic variation on main road No. A7 11,54-24,80 km

| Years | <i>Annual average daily traffic, vehicles/day</i> |      |             |       | <i>Annual average daily traffic variation, %</i> |             |       |
|-------|---|------|-------------|-------|--|-------------|-------|
|       | AADT  | Cars | Heavy goods | Buses | Cars   | Heavy goods | Buses |
| 2011  | 4665  | 3776 | 612         | 201   | 0,90%  | 1,30%       | 0,80% |
| 2012  | 4707  | 3810 | 620         | 203   | 0,90%  | 1,30%       | 0,80% |
| 2013  | 4792  | 3879 | 636         | 206   | 0,90%  | 1,30%       | 0,80% |
| 2014  | 4921  | 3983 | 661         | 211   | 0,90%  | 1,30%       | 0,80% |
| 2015  | 5098  | 4127 | 695         | 218   | 0,90%  | 1,30%       | 0,80% |
| 2016  | 5328  | 4312 | 740         | 226   | 0,90%  | 1,30%       | 0,80% |
| 2017  | 5615  | 4545 | 798         | 237   | 0,90%  | 1,30%       | 0,80% |
| 2018  | 5969  | 4832 | 871         | 250   | 0,90%  | 1,30%       | 0,80% |
| 2019  | 6387  | 5170 | 964         | 266   | 0,70%  | 1,60%       | 0,70% |
| 2020  | 6879  | 5568 | 1083        | 285   | 0,70%  | 1,60%       | 0,70% |
| 2021  | 7457  | 6036 | 1233        | 307   | 0,70%  | 1,60%       | 0,70% |

## Accident

The accident rate is an important indicator of the economy, i.e. as fewer injured or killed people on the road as the greater economy is obtained. Motor accident - this is a traffic accident in which the presence of moving, a motor vehicle or moped, killed or injured people or damaged vehicles.

On the road A7 Marijampolė–Kybartai–Kaliningradas 11,6 km (500 meters before sign) in 2007-2010 years five accidents were registered, two fatalities and seven injuries recorded. Average is 0,5 fatality and two injuries each year.

Table 4.4 Accidents in driver feedback speed sign area

| Years   | Fatalities | Injured |
|---------|------------|---------|
| 2010    | 1          | 3       |
| 2009    | 0          | 1       |
| 2008    | 0          | 2       |
| 2007    | 1          | 2       |
| Average | 0,5        | 2,0     |

## Cost

Dynamic speed feedback sign installation approximately cost 50 000 EUR and 300 EUR/year for maintenance.

Accident cost is equal to  $0,5 \times (609\,135) + 2 (55\,312) = 414\,892$  EUR.

## Traffic safety

According to TARVAL speed limit reduction from 90 km/h to 70 km/h has 0,85 impact coefficient with 0,14 reduction of severity.

Traffic safety impact factor accidents with cars is 0,85 and accidents with cars the consequences of the change is 0,14. This means that the implementation of the measure predicted that the recorded number of traffic accidents is 85%, and the consequences of accidents - 73.1% of the level ( $0.85 (1-0,14) = 0.731$ ).

Expected that number of accident each year will increase depending on AADT grown. Losses caused by traffic accidents I and II scenarios, calculations are presented in Table 4.2

Table 4.5 Losses caused by traffic accidents

| Years | I scenario, thousands,<br>Eur | II scenario, thousands,<br>Eur | Savings, thousands,<br>Eur |
|-------|-------------------------------|--------------------------------|----------------------------|
| 2012  | 305,36                        | 259,56                         | 45,80                      |

|      |        |        |       |
|------|--------|--------|-------|
| 2013 | 306,74 | 260,73 | 46,01 |
| 2014 | 308,81 | 262,49 | 46,32 |
| 2015 | 311,59 | 264,85 | 46,74 |
| 2016 | 315,11 | 267,84 | 47,27 |
| 2017 | 319,35 | 271,45 | 47,90 |
| 2018 | 324,39 | 275,73 | 48,66 |
| 2019 | 330,08 | 280,56 | 49,51 |
| 2020 | 336,44 | 285,97 | 50,47 |
| 2021 | 395,35 | 336,04 | 59,30 |
| 2022 | 398,32 | 338,57 | 59,75 |

Investments absorbed in the first year. Discounting the cost of the undiscounted value (investment cost + operating expenses) is multiplied by a discount factor. Calculations the discount rate equal to 5.5% (KTTI data). During the first year (2012) the discount factor value equal to 1. Further details in the discount rate had received:

$$1 / 1.055 = 0.948.$$

Next year, the discount rate had to be:

$$0.948 / 1.055 = 0.899, \text{ etc.}$$

Existing cost value K calculated by adding all discounted costs:

$$\mathbf{K} = 26\,065 \text{ Eur};$$

Existing benefit value N calculated as the sum of all the discounted benefits:

$$\mathbf{N} = 34\,754 \text{ Eur};$$

The net present value NPV calculated:

$$\mathbf{NPV} = N - K = 34\,754 - 26\,065 = 8\,689 \text{ Eur};$$

The benefit-cost ratio N/K calculated:

$$\mathbf{N/K} = 34\,754 / 26\,065 = 1,33;$$

Internal rate of return IRR:

$$\mathbf{IRR} = 14,29 \, \%.$$

One of the most important economic indicators is the internal rate of return – IRR. The internal rate of return is a metric used in capital budgeting measuring the profitability of potential investments. Under EU Regulation TINA approved TINA 15-98 and applied in EU countries „Investment and cost-benefit analysis manager“ requirements of the project is acceptable, if  $IRR > 5\%$  and N/K relation should be more than 1,0.

As is it is visible from Table 4.2 after installation of driver feedback speed sign possible savings from 45,8 to 59,7 thousands EUR each year.

#### **4.4. Conclusions of fourth chapter**

Driver feedback speed sign according to survey gives positive results. 60% men and 82% women is slowing down then they see the sign. As more experience driver has as more, he uses to ignore signs.

Driver feedback speed sign should be installing in Lithuania Main roads each year in places there speeding is visible as a main problem of accidents.

Cost-benefit analysis shows that installation of driver feedback speed sign on the road No. A7 Marijampolė–Kybartai–Kaliningradas 11,6 km has paid off after one year according to accidents prognosis. Since sign installation price and maintenance cost is relatively low, installation of signs should continue.

## GENERAL CONCLUSIONS

Evaluation of existent situation of Lithuanian roads traffic flow and safety shows that speeding is one of the most common violation type. Many drivers mistakenly overestimate their ability to safely control a car driving much faster above the speed limit.

Speeding increase the probability of accidents and exacerbated its consequences, and the consequences of accidents suffer in both society and the national economy. To control the driving speed and to assure high level traffic safety various road safety engineering measures or implementing.

Analysis of speed regulation measures conclude the differences and efficiency of each measure or group of measures. Many research cases show some of potential impact of measure as much positive but some are still negative. It should be stated that efficiency of particular traffic safety measure are very much dependent on measure suitability for defined problem.

Detail literature review conclude that average speed control system have a significant effect on speed reduction, but such systems can be installed not in all cases. Most valuable traffic safety measures can be outlined as vertical shifts, road narrowing in the carriageways, roundabouts, and road narrowing with a single lane.

One of the most effective measures can be defined radar speed signs, thus it decrease traffic speed and has a positive effect on number of accidents. Some researchers conclude that there is no big influence on the measure efficiency dependent on installation and exploitation period. It was expressed that the weakest social group – kids showing gratitude „thank you“ on the radar speed signs shall create an additional effect on speed reduction.

Radar speed signs according to survey gives positive results. 60% men and 82% women are slowing down then they see the sign. Also, relation between experience and tolerance of signs is visible. As more experience driver has, more he tends to ignore the driver feedback speed sign.

Driver feedback speed signs should be continued deployment in Lithuania main roads because they are giving visible results for accidents and speed reduction. Also, signs installation price and maintenance cost is relatively low.

Experimental research has showed very positive effect of radar speed signs on speeding reduction. According collected traffic speed data it should be stated that speeding of 10 km/h and below was identified at ratio of 34,9-92,5%. On road No. A7 11 km vehicles which exceeded

speed limit were 34,9%, almost all vehicles reduced speed to speed limit 100 m after radar speed sign, just 0,8% were still exceeding. On road No. A7 36 km vehicles which exceeded speed limit were 92,5%, almost half of vehicles reduced speed to speed limit 80 m after radar speed sign, 49,4% were still exceeding. On road No. A16 vehicles which exceeded speed limit were 73,4%, 100 m after radar speed sign number increased to 79,6%. Mostly it become higher because road geometry - sign is on curve and after curve is long straight road segment. I would conclude that speed radar sign efficiency zone is about 100-150 m before sign and 150-200 after sign.

Driver feedback speed signs should be continued deployment in Lithuania main roads because they are giving visible results for accidents and speed reduction. Also, signs installation price and maintenance cost is relatively low.

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## **ANNEX A**

## Annex A

### Road No. A16 speed measurement results

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 08:44:03 | 45,7  | car, light van |
| On sign            | 08:44:12 | 40,1  | car, light van |
| 100 m. before sign | 08:46:04 | 57,4  | BUS            |
| On sign            | 08:46:11 | 60,2  | BUS            |
| 100 m. after sign  | 08:46:17 | 56,5  | BUS            |
| 100 m. before sign | 08:46:51 | 60    | Truck          |
| On sign            | 08:46:58 | 59,8  | Truck          |
| 100 m. after sign  | 08:47:04 | 59,3  | Truck          |
| 100 m. before sign | 08:47:15 | 66,5  | car, light van |
| On sign            | 08:47:21 | 63,8  | car, light van |
| 100 m. after sign  | 08:47:27 | 56,7  | car, light van |
| 100 m. before sign | 08:49:01 | 61,8  | car, light van |
| 100 m. before sign | 08:49:03 | 56,3  | car, light van |
| On sign            | 08:49:09 | 51,5  | car, light van |
| On sign            | 08:49:09 | 51,5  | car, light van |
| 100 m. before sign | 08:49:13 | 55,4  | car, light van |
| 100 m. after sign  | 08:49:16 | 51,3  | car, light van |
| 100 m. after sign  | 08:49:18 | 47,8  | car, light van |
| On sign            | 08:49:21 | 55,5  | car, light van |
| 100 m. after sign  | 08:49:27 | 54,6  | car, light van |
| 100 m. before sign | 08:50:17 | 45,7  | car, light van |
| On sign            | 08:50:26 | 50,4  | car, light van |
| 100 m. before sign | 08:50:27 | 66,3  | car, light van |
| 100 m. before sign | 08:50:29 | 66,9  | car, light van |
| On sign            | 08:50:33 | 64,4  | car, light van |
| 100 m. after sign  | 08:50:33 | 45    | car, light van |
| On sign            | 08:50:36 | 63,4  | car, light van |
| 100 m. after sign  | 08:50:39 | 55,9  | car, light van |
| 100 m. after sign  | 08:50:41 | 61,1  | car, light van |
| 100 m. before sign | 08:50:46 | 76,2  | Truck          |
| 100 m. before sign | 08:50:52 | 68,3  | car, light van |
| 100 m. after sign  | 08:50:56 | 73    | Truck          |
| On sign            | 08:50:58 | 62,7  | car, light van |
| 100 m. after sign  | 08:51:05 | 48,9  | car, light van |
| 100 m. before sign | 08:51:32 | 66    | car, light van |
| On sign            | 08:51:38 | 63,5  | car, light van |
| 100 m. after sign  | 08:51:44 | 67,1  | car, light van |
| 100 m. before sign | 08:52:13 | 53,8  | car, light van |
| On sign            | 08:52:21 | 53    | car, light van |
| 100 m. after sign  | 08:52:27 | 53,5  | car, light van |
| 100 m. before sign | 08:52:41 | 61    | car, light van |
| 100 m. before sign | 08:52:46 | 58,7  | car, light van |
| On sign            | 08:52:47 | 61,3  | car, light van |
| 100 m. before sign | 08:52:51 | 54,1  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 08:52:53 | 52,5  | car, light van |
| 100 m. after sign  | 08:52:54 | 51,8  | car, light van |
| On sign            | 08:52:59 | 58,7  | car, light van |
| 100 m. after sign  | 08:53:00 | 54,1  | car, light van |
| 100 m. after sign  | 08:53:05 | 54,4  | car, light van |
| 100 m. before sign | 08:53:21 | 61,5  | Truck          |
| 100 m. before sign | 08:53:23 | 60,9  | car, light van |
| On sign            | 08:53:27 | 61,6  | Truck          |
| On sign            | 08:53:29 | 63,2  | car, light van |
| 100 m. after sign  | 08:53:33 | 57,7  | Truck          |
| 100 m. after sign  | 08:53:35 | 62,3  | car, light van |
| 100 m. before sign | 08:53:45 | 60,2  | car, light van |
| On sign            | 08:53:52 | 62    | Truck          |
| 100 m. after sign  | 08:53:58 | 59,7  | car, light van |
| 100 m. before sign | 08:54:10 | 63,5  | car, light van |
| 100 m. before sign | 08:54:16 | 61,7  | car, light van |
| On sign            | 08:54:17 | 65,1  | car, light van |
| 100 m. before sign | 08:54:17 | 64,8  | car, light van |
| 100 m. before sign | 08:54:20 | 73,6  | car, light van |
| 100 m. after sign  | 08:54:22 | 62,7  | car, light van |
| On sign            | 08:54:23 | 60,4  | car, light van |
| On sign            | 08:54:24 | 52,5  | car, light van |
| On sign            | 08:54:26 | 57,2  | car, light van |
| 100 m. after sign  | 08:54:29 | 56,8  | car, light van |
| 100 m. after sign  | 08:54:31 | 54,8  | car, light van |
| 100 m. after sign  | 08:54:33 | 50,6  | car, light van |
| 100 m. before sign | 08:55:27 | 48,3  | car, light van |
| On sign            | 08:55:35 | 52,9  | car, light van |
| 100 m. after sign  | 08:55:41 | 56,2  | car, light van |
| 100 m. before sign | 08:55:50 | 53,4  | car, light van |
| On sign            | 08:55:57 | 62,2  | Truck          |
| 100 m. after sign  | 08:56:03 | 62,9  | car, light van |
| 100 m. before sign | 08:56:40 | 55,5  | car, light van |
| On sign            | 08:56:47 | 56,7  | car, light van |
| 100 m. after sign  | 08:56:54 | 52,9  | car, light van |
| 100 m. before sign | 08:57:43 | 55,7  | car, light van |
| On sign            | 08:57:52 | 47,3  | car, light van |
| 100 m. after sign  | 08:58:00 | 42,2  | car, light van |
| 100 m. before sign | 08:58:26 | 65,8  | car, light van |
| On sign            | 08:58:33 | 60,7  | Truck          |
| 100 m. after sign  | 08:58:39 | 51,4  | car, light van |
| 100 m. before sign | 08:59:03 | 40,4  | car, light van |
| 100 m. before sign | 08:59:13 | 59,7  | car, light van |
| On sign            | 08:59:13 | 42,6  | car, light van |
| On sign            | 08:59:21 | 49,9  | car, light van |
| 100 m. after sign  | 08:59:21 | 41,6  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 08:59:28 | 47,7  | car, light van |
| 100 m. before sign | 08:59:46 | 66,8  | Truck          |
| On sign            | 08:59:52 | 72,2  | Truck          |
| 100 m. after sign  | 08:59:57 | 44,6  | car, light van |
| 100 m. before sign | 09:00:45 | 61    | car, light van |
| On sign            | 09:00:53 | 54,6  | BUS            |
| 100 m. before sign | 09:00:59 | 55,4  | Truck          |
| 100 m. after sign  | 09:01:00 | 52,5  | Truck          |
| 100 m. before sign | 09:01:03 | 45,2  | car, light van |
| On sign            | 09:01:07 | 57,6  | Truck          |
| On sign            | 09:01:11 | 52,1  | Truck          |
| 100 m. after sign  | 09:01:13 | 54,1  | Truck          |
| 100 m. after sign  | 09:01:18 | 55,8  | car, light van |
| 100 m. before sign | 09:03:48 | 53,1  | car, light van |
| On sign            | 09:03:56 | 54,9  | car, light van |
| 100 m. after sign  | 09:04:02 | 54,4  | car, light van |
| 100 m. before sign | 09:04:15 | 57,7  | car, light van |
| On sign            | 09:04:23 | 57,1  | Truck          |
| 100 m. after sign  | 09:04:29 | 53,9  | car, light van |
| 100 m. before sign | 09:05:31 | 54,3  | car, light van |
| On sign            | 09:05:38 | 57,8  | car, light van |
| 100 m. after sign  | 09:05:44 | 56,9  | car, light van |
| 100 m. before sign | 09:06:08 | 73,5  | car, light van |
| On sign            | 09:06:14 | 71,9  | car, light van |
| 100 m. after sign  | 09:06:19 | 61,7  | car, light van |
| 100 m. before sign | 09:06:32 | 46,1  | car, light van |
| On sign            | 09:06:41 | 47,7  | car, light van |
| 100 m. after sign  | 09:06:48 | 46,9  | car, light van |
| 100 m. before sign | 09:07:19 | 62,4  | car, light van |
| On sign            | 09:07:26 | 56    | car, light van |
| 100 m. after sign  | 09:07:33 | 48,5  | car, light van |
| 100 m. before sign | 09:08:07 | 45,1  | car, light van |
| On sign            | 09:08:16 | 50,6  | car, light van |
| 100 m. after sign  | 09:08:23 | 48,2  | car, light van |
| 100 m. before sign | 09:08:30 | 52,8  | car, light van |
| On sign            | 09:08:37 | 56,8  | car, light van |
| 100 m. after sign  | 09:08:44 | 53,7  | car, light van |
| 100 m. before sign | 09:09:17 | 52,6  | car, light van |
| On sign            | 09:09:25 | 50    | car, light van |
| 100 m. after sign  | 09:09:33 | 45,8  | car, light van |
| 100 m. before sign | 09:09:51 | 48,5  | car, light van |
| 100 m. before sign | 09:09:56 | 44,8  | car, light van |
| On sign            | 09:09:59 | 52,3  | car, light van |
| On sign            | 09:10:05 | 45,3  | Truck          |
| 100 m. after sign  | 09:10:06 | 51,5  | car, light van |
| 100 m. after sign  | 09:10:12 | 47,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 09:11:02 | 48,2  | car, light van |
| 100 m. before sign | 09:11:08 | 54    | car, light van |
| On sign            | 09:11:10 | 55,1  | car, light van |
| On sign            | 09:11:15 | 55,8  | car, light van |
| 100 m. after sign  | 09:11:17 | 53,8  | car, light van |
| 100 m. after sign  | 09:11:22 | 53,4  | car, light van |
| 100 m. before sign | 09:11:57 | 47,9  | car, light van |
| On sign            | 09:12:05 | 57,2  | car, light van |
| 100 m. before sign | 09:12:09 | 52,8  | car, light van |
| 100 m. after sign  | 09:12:12 | 55    | car, light van |
| On sign            | 09:12:17 | 55,4  | car, light van |
| 100 m. before sign | 09:12:22 | 50,6  | car, light van |
| 100 m. after sign  | 09:12:24 | 53,3  | car, light van |
| On sign            | 09:12:30 | 56,8  | car, light van |
| 100 m. after sign  | 09:12:36 | 56,9  | car, light van |
| 100 m. before sign | 09:13:45 | 59,9  | Truck          |
| On sign            | 09:13:52 | 61,3  | Truck          |
| 100 m. after sign  | 09:13:58 | 57,6  | Truck          |
| 100 m. before sign | 09:14:00 | 48,7  | car, light van |
| On sign            | 09:14:08 | 49,7  | car, light van |
| 100 m. before sign | 09:14:15 | 45    | car, light van |
| On sign            | 09:14:24 | 47,2  | car, light van |
| 100 m. after sign  | 09:14:32 | 45,2  | car, light van |
| On sign            | 09:15:05 | 48,5  | car, light van |
| 100 m. after sign  | 09:15:12 | 46,2  | car, light van |
| 100 m. before sign | 09:15:21 | 49,4  | car, light van |
| 100 m. before sign | 09:15:23 | 55,6  | car, light van |
| On sign            | 09:15:29 | 56    | car, light van |
| On sign            | 09:15:30 | 52,8  | car, light van |
| 100 m. after sign  | 09:15:36 | 51,8  | car, light van |
| 100 m. after sign  | 09:15:37 | 55,1  | car, light van |
| 100 m. before sign | 09:16:47 | 46,6  | car, light van |
| 100 m. before sign | 09:16:49 | 46,6  | car, light van |
| On sign            | 09:16:55 | 54,8  | car, light van |
| On sign            | 09:16:57 | 47,1  | car, light van |
| 100 m. after sign  | 09:17:01 | 54,4  | car, light van |
| 100 m. before sign | 09:17:02 | 41,6  | car, light van |
| 100 m. after sign  | 09:17:05 | 50,2  | car, light van |
| On sign            | 09:17:11 | 48,2  | car, light van |
| 100 m. after sign  | 09:17:18 | 51,1  | car, light van |
| 100 m. before sign | 09:17:20 | 46,6  | car, light van |
| On sign            | 09:17:29 | 54,3  | car, light van |
| 100 m. after sign  | 09:17:35 | 53,6  | car, light van |
| On sign            | 09:17:51 | 42,2  | car, light van |
| 100 m. before sign | 09:17:58 | 53,4  | car, light van |
| 100 m. after sign  | 09:17:59 | 50,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:18:06 | 52,7  | Truck          |
| 100 m. after sign  | 09:18:12 | 50,3  | car, light van |
| 100 m. before sign | 09:18:44 | 41,6  | Truck          |
| On sign            | 09:18:53 | 44,6  | Truck          |
| 100 m. before sign | 09:18:57 | 62,5  | car, light van |
| 100 m. after sign  | 09:19:01 | 50,9  | car, light van |
| On sign            | 09:19:04 | 65    | car, light van |
| 100 m. after sign  | 09:19:09 | 63,1  | car, light van |
| 100 m. before sign | 09:19:40 | 48,1  | Truck          |
| On sign            | 09:19:48 | 50,5  | Truck          |
| 100 m. after sign  | 09:19:56 | 49,7  | Truck          |
| 100 m. before sign | 09:20:23 | 53,7  | car, light van |
| 100 m. before sign | 09:20:26 | 55,7  | car, light van |
| On sign            | 09:20:30 | 56,4  | car, light van |
| On sign            | 09:20:33 | 60,4  | Truck          |
| 100 m. after sign  | 09:20:36 | 54,7  | car, light van |
| 100 m. after sign  | 09:20:39 | 54,8  | car, light van |
| 100 m. before sign | 09:21:25 | 80,9  | car, light van |
| On sign            | 09:21:30 | 80,6  | car, light van |
| 100 m. after sign  | 09:21:34 | 79,1  | car, light van |
| 100 m. before sign | 09:24:42 | 60    | Truck          |
| On sign            | 09:24:49 | 56,9  | Truck          |
| 100 m. after sign  | 09:24:55 | 55,8  | Truck          |
| 100 m. before sign | 09:25:56 | 60,4  | BUS            |
| On sign            | 09:26:03 | 63,1  | BUS            |
| 100 m. after sign  | 09:26:08 | 62,4  | BUS            |
| 100 m. before sign | 09:26:34 | 49,2  | Truck          |
| On sign            | 09:26:42 | 50,7  | Truck          |
| 100 m. after sign  | 09:26:49 | 55,3  | Truck          |
| 100 m. before sign | 09:26:49 | 50,2  | car, light van |
| On sign            | 09:26:57 | 50,7  | car, light van |
| 100 m. after sign  | 09:27:04 | 46    | car, light van |
| 100 m. before sign | 09:29:26 | 54,6  | car, light van |
| On sign            | 09:29:34 | 52    | car, light van |
| 100 m. after sign  | 09:29:41 | 44,4  | car, light van |
| 100 m. before sign | 09:29:44 | 65,1  | car, light van |
| On sign            | 09:29:51 | 57,8  | car, light van |
| 100 m. after sign  | 09:29:57 | 58,2  | car, light van |
| 100 m. before sign | 09:31:28 | 70,6  | Truck          |
| On sign            | 09:31:34 | 71,6  | BUS            |
| 100 m. after sign  | 09:31:39 | 65,1  | Truck          |
| 100 m. before sign | 09:32:57 | 59,1  | car, light van |
| On sign            | 09:33:03 | 59,6  | car, light van |
| 100 m. after sign  | 09:33:10 | 59,2  | car, light van |
| 100 m. before sign | 09:36:09 | 64,9  | car, light van |
| 100 m. before sign | 09:36:15 | 81,1  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:36:15 | 60,1  | car, light van |
| On sign            | 09:36:20 | 79,3  | car, light van |
| 100 m. after sign  | 09:36:21 | 60,4  | car, light van |
| 100 m. after sign  | 09:36:25 | 59,8  | car, light van |
| 100 m. before sign | 09:36:35 | 51,4  | Truck          |
| 100 m. before sign | 09:36:40 | 55,4  | car, light van |
| On sign            | 09:36:43 | 53,2  | Truck          |
| On sign            | 09:36:46 | 53,1  | car, light van |
| 100 m. after sign  | 09:36:49 | 53,3  | Truck          |
| 100 m. after sign  | 09:36:53 | 50,2  | car, light van |
| 100 m. before sign | 09:37:08 | 66,4  | car, light van |
| On sign            | 09:37:14 | 70,7  | car, light van |
| 100 m. after sign  | 09:37:19 | 66,9  | car, light van |
| 100 m. before sign | 09:37:38 | 81,4  | car, light van |
| On sign            | 09:37:43 | 79,8  | Truck          |
| 100 m. after sign  | 09:37:47 | 71    | car, light van |
| 100 m. before sign | 09:37:48 | 47,7  | car, light van |
| On sign            | 09:37:57 | 49,4  | car, light van |
| 100 m. after sign  | 09:38:04 | 48,4  | car, light van |
| 100 m. before sign | 09:38:18 | 53,6  | car, light van |
| 100 m. before sign | 09:38:20 | 53,6  | car, light van |
| On sign            | 09:38:26 | 52,4  | car, light van |
| On sign            | 09:38:27 | 56    | car, light van |
| 100 m. after sign  | 09:38:33 | 48,2  | car, light van |
| 100 m. after sign  | 09:38:34 | 48,1  | car, light van |
| 100 m. before sign | 09:38:57 | 64,9  | car, light van |
| On sign            | 09:39:03 | 60,7  | car, light van |
| 100 m. after sign  | 09:39:09 | 57    | car, light van |
| 100 m. before sign | 09:39:33 | 71    | car, light van |
| 100 m. before sign | 09:39:36 | 59,7  | car, light van |
| On sign            | 09:39:39 | 64,5  | car, light van |
| On sign            | 09:39:43 | 53,3  | car, light van |
| 100 m. after sign  | 09:39:45 | 54,6  | car, light van |
| 100 m. after sign  | 09:39:50 | 52,3  | car, light van |
| 100 m. before sign | 09:40:29 | 40,9  | car, light van |
| On sign            | 09:40:38 | 41,1  | car, light van |
| 100 m. before sign | 09:41:49 | 63    | Truck          |
| On sign            | 09:41:56 | 66,5  | Truck          |
| 100 m. after sign  | 09:42:01 | 54,2  | Truck          |
| 100 m. before sign | 09:42:47 | 50,7  | car, light van |
| 100 m. before sign | 09:42:48 | 53,5  | car, light van |
| 100 m. before sign | 09:42:51 | 56,5  | car, light van |
| 100 m. before sign | 09:42:53 | 61,2  | car, light van |
| On sign            | 09:42:55 | 49,9  | car, light van |
| On sign            | 09:42:56 | 53,9  | car, light van |
| On sign            | 09:42:56 | 53,9  | car, light van |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:42:58 | 53,9  | car, light van |
| 100 m. before sign | 09:43:00 | 68,5  | car, light van |
| On sign            | 09:43:00 | 57    | car, light van |
| 100 m. after sign  | 09:43:02 | 48,9  | car, light van |
| 100 m. after sign  | 09:43:04 | 51,5  | car, light van |
| On sign            | 09:43:06 | 62,4  | car, light van |
| 100 m. after sign  | 09:43:06 | 47,6  | car, light van |
| 100 m. after sign  | 09:43:07 | 43,4  | car, light van |
| 100 m. before sign | 09:43:12 | 58,9  | car, light van |
| 100 m. after sign  | 09:43:12 | 52,3  | car, light van |
| On sign            | 09:43:19 | 57,7  | car, light van |
| 100 m. after sign  | 09:43:26 | 52    | car, light van |
| 100 m. before sign | 09:44:46 | 48,7  | car, light van |
| On sign            | 09:44:55 | 46,5  | car, light van |
| 100 m. after sign  | 09:45:02 | 48,6  | car, light van |
| 100 m. before sign | 09:45:07 | 68,2  | car, light van |
| On sign            | 09:45:13 | 60,1  | car, light van |
| 100 m. after sign  | 09:45:19 | 57,5  | car, light van |
| 100 m. before sign | 09:45:26 | 58,2  | car, light van |
| On sign            | 09:45:34 | 42,4  | car, light van |
| 100 m. after sign  | 09:45:42 | 44,7  | car, light van |
| 100 m. before sign | 09:46:02 | 52,5  | car, light van |
| On sign            | 09:46:10 | 50,2  | car, light van |
| 100 m. after sign  | 09:46:18 | 46    | car, light van |
| 100 m. before sign | 09:46:37 | 45,1  | car, light van |
| On sign            | 09:46:46 | 42,4  | car, light van |
| 100 m. after sign  | 09:46:54 | 44,8  | car, light van |
| 100 m. before sign | 09:47:28 | 56    | car, light van |
| On sign            | 09:47:35 | 51,6  | car, light van |
| 100 m. after sign  | 09:47:42 | 52,3  | car, light van |
| 100 m. before sign | 09:48:08 | 61,3  | car, light van |
| On sign            | 09:48:15 | 57,9  | car, light van |
| 100 m. after sign  | 09:48:21 | 56    | car, light van |
| 100 m. before sign | 09:48:24 | 56,1  | car, light van |
| 100 m. before sign | 09:48:29 | 70,7  | car, light van |
| On sign            | 09:48:32 | 45,6  | car, light van |
| On sign            | 09:48:35 | 64,1  | car, light van |
| 100 m. after sign  | 09:48:40 | 43,9  | car, light van |
| 100 m. after sign  | 09:48:42 | 47,7  | car, light van |
| 100 m. before sign | 09:48:58 | 53,1  | car, light van |
| 100 m. before sign | 09:49:00 | 51,6  | car, light van |
| On sign            | 09:49:06 | 54,2  | car, light van |
| On sign            | 09:49:07 | 54    | Truck          |
| 100 m. after sign  | 09:49:12 | 55,4  | car, light van |
| 100 m. after sign  | 09:49:14 | 57,6  | car, light van |
| 100 m. before sign | 09:49:18 | 53    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:49:25 | 54,4  | car, light van |
| 100 m. after sign  | 09:49:32 | 50,2  | car, light van |
| 100 m. before sign | 09:50:01 | 66,5  | Truck          |
| 100 m. before sign | 09:50:03 | 63,7  | car, light van |
| On sign            | 09:50:08 | 60,9  | Truck          |
| On sign            | 09:50:10 | 56,7  | car, light van |
| 100 m. after sign  | 09:50:14 | 53,3  | Truck          |
| 100 m. before sign | 09:50:15 | 58,1  | car, light van |
| 100 m. after sign  | 09:50:16 | 56,8  | car, light van |
| On sign            | 09:50:22 | 58,4  | car, light van |
| 100 m. after sign  | 09:50:28 | 55,2  | car, light van |
| 100 m. before sign | 09:50:38 | 56    | car, light van |
| On sign            | 09:50:45 | 57,6  | car, light van |
| 100 m. after sign  | 09:50:52 | 52,9  | car, light van |
| 100 m. before sign | 09:51:02 | 62,8  | car, light van |
| On sign            | 09:51:09 | 61,2  | car, light van |
| 100 m. after sign  | 09:51:15 | 60,1  | car, light van |
| 100 m. before sign | 09:51:53 | 44,2  | car, light van |
| 100 m. before sign | 09:51:58 | 43,9  | car, light van |
| 100 m. before sign | 09:52:01 | 48,1  | car, light van |
| 100 m. before sign | 09:52:05 | 55    | car, light van |
| On sign            | 09:52:07 | 47,7  | car, light van |
| On sign            | 09:52:09 | 50,5  | Truck          |
| On sign            | 09:52:12 | 54,9  | car, light van |
| 100 m. after sign  | 09:52:12 | 48    | car, light van |
| 100 m. after sign  | 09:52:14 | 49,4  | car, light van |
| 100 m. after sign  | 09:52:17 | 46,4  | Truck          |
| 100 m. after sign  | 09:52:19 | 50,8  | car, light van |
| 100 m. before sign | 09:52:30 | 44,6  | car, light van |
| 100 m. before sign | 09:52:31 | 46,6  | car, light van |
| 100 m. before sign | 09:52:32 | 45,3  | car, light van |
| On sign            | 09:52:38 | 47,3  | car, light van |
| On sign            | 09:52:40 | 45,3  | car, light van |
| On sign            | 09:52:41 | 44,2  | car, light van |
| 100 m. after sign  | 09:52:46 | 44,1  | car, light van |
| 100 m. after sign  | 09:52:47 | 46,5  | car, light van |
| 100 m. after sign  | 09:52:48 | 51,7  | car, light van |
| 100 m. before sign | 09:53:42 | 46,6  | car, light van |
| On sign            | 09:53:50 | 52,1  | car, light van |
| 100 m. before sign | 09:53:54 | 50,6  | car, light van |
| 100 m. after sign  | 09:53:57 | 52,9  | car, light van |
| On sign            | 09:54:02 | 53,9  | car, light van |
| 100 m. after sign  | 09:54:08 | 55,3  | car, light van |
| 100 m. before sign | 09:56:05 | 50,4  | car, light van |
| On sign            | 09:56:13 | 50,6  | car, light van |
| 100 m. after sign  | 09:56:20 | 46,8  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 09:56:52 | 59,2  | car, light van |
| On sign            | 09:56:59 | 62,7  | Truck          |
| 100 m. after sign  | 09:57:04 | 63,9  | car, light van |
| 100 m. before sign | 09:57:05 | 41,1  | car, light van |
| On sign            | 09:57:14 | 47,6  | car, light van |
| 100 m. after sign  | 09:57:22 | 50,5  | car, light van |
| 100 m. before sign | 09:57:47 | 57,7  | Truck          |
| On sign            | 09:57:54 | 66,1  | Truck          |
| 100 m. after sign  | 09:57:59 | 63,1  | Truck          |
| 100 m. after sign  | 09:58:19 | 41,8  | Truck          |
| 100 m. before sign | 09:58:38 | 46,5  | car, light van |
| On sign            | 09:58:46 | 51,7  | car, light van |
| 100 m. after sign  | 09:58:53 | 53,1  | car, light van |
| 100 m. before sign | 09:58:55 | 78,2  | car, light van |
| On sign            | 09:59:00 | 50,2  | car, light van |
| 100 m. after sign  | 09:59:04 | 80,3  | car, light van |
| 100 m. before sign | 09:59:08 | 69,6  | Truck          |
| 100 m. before sign | 09:59:10 | 65,8  | car, light van |
| 100 m. before sign | 09:59:13 | 59    | car, light van |
| On sign            | 09:59:14 | 72    | car, light van |
| On sign            | 09:59:16 | 65    | car, light van |
| 100 m. after sign  | 09:59:19 | 64,9  | Truck          |
| On sign            | 09:59:19 | 55,3  | car, light van |
| 100 m. after sign  | 09:59:22 | 65,7  | car, light van |
| 100 m. after sign  | 09:59:26 | 56    | car, light van |
| 100 m. before sign | 09:59:47 | 75,8  | car, light van |
| On sign            | 09:59:54 | 59,4  | car, light van |
| 100 m. after sign  | 10:00:00 | 52,4  | car, light van |
| 100 m. before sign | 10:01:56 | 43,8  | BUS            |
| On sign            | 10:02:05 | 45    | BUS            |
| 100 m. after sign  | 10:02:13 | 45,1  | BUS            |
| 100 m. before sign | 10:03:12 | 56,4  | car, light van |
| On sign            | 10:03:20 | 50,7  | car, light van |
| 100 m. after sign  | 10:03:27 | 49,3  | car, light van |
| 100 m. before sign | 10:03:33 | 51,6  | Truck          |
| 100 m. before sign | 10:03:36 | 53,1  | car, light van |
| On sign            | 10:03:41 | 55,2  | Truck          |
| On sign            | 10:03:43 | 53    | car, light van |
| 100 m. after sign  | 10:03:48 | 50,6  | Truck          |
| 100 m. after sign  | 10:03:50 | 52,9  | car, light van |
| 100 m. before sign | 10:04:25 | 53,5  | car, light van |
| 100 m. before sign | 10:04:29 | 65,8  | car, light van |
| On sign            | 10:04:30 | 72,4  | car, light van |
| On sign            | 10:04:35 | 67,2  | car, light van |
| 100 m. after sign  | 10:04:36 | 64,6  | car, light van |
| 100 m. before sign | 10:04:38 | 65,2  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 10:04:40 | 63,8  | car, light van |
| On sign            | 10:04:45 | 60,3  | Truck          |
| 100 m. after sign  | 10:04:51 | 55,8  | car, light van |
| 100 m. before sign | 10:05:07 | 47    | car, light van |
| On sign            | 10:05:15 | 52,4  | car, light van |
| 100 m. after sign  | 10:05:22 | 51,5  | car, light van |
| 100 m. before sign | 10:06:06 | 40,4  | car, light van |
| 100 m. before sign | 10:06:12 | 60,5  | car, light van |
| 100 m. before sign | 10:06:14 | 58,6  | car, light van |
| On sign            | 10:06:15 | 46,3  | car, light van |
| On sign            | 10:06:19 | 54,8  | car, light van |
| 100 m. after sign  | 10:06:22 | 48,7  | car, light van |
| On sign            | 10:06:22 | 48,4  | Truck          |
| 100 m. after sign  | 10:06:25 | 52,1  | car, light van |
| 100 m. after sign  | 10:06:29 | 53    | car, light van |
| 100 m. before sign | 10:07:25 | 54,7  | car, light van |
| On sign            | 10:07:33 | 50,9  | car, light van |
| 100 m. after sign  | 10:07:40 | 54,5  | car, light van |
| 100 m. before sign | 10:08:04 | 51,4  | car, light van |
| On sign            | 10:08:12 | 51,9  | car, light van |
| 100 m. after sign  | 10:08:19 | 48,1  | car, light van |
| 100 m. before sign | 10:08:24 | 55,8  | car, light van |
| On sign            | 10:08:31 | 54,9  | car, light van |
| 100 m. after sign  | 10:08:38 | 53,1  | car, light van |
| 100 m. before sign | 10:09:12 | 54,9  | car, light van |
| On sign            | 10:09:20 | 53,2  | car, light van |
| 100 m. after sign  | 10:09:26 | 58,7  | car, light van |
| 100 m. before sign | 10:09:30 | 63,3  | car, light van |
| On sign            | 10:09:36 | 59,7  | car, light van |
| 100 m. after sign  | 10:09:42 | 59,9  | car, light van |
| 100 m. before sign | 10:09:45 | 52    | Truck          |
| On sign            | 10:09:53 | 54,9  | Truck          |
| 100 m. before sign | 10:09:58 | 52,2  | car, light van |
| 100 m. after sign  | 10:09:59 | 53,6  | Truck          |
| On sign            | 10:10:06 | 53,1  | car, light van |
| 100 m. after sign  | 10:10:12 | 52,2  | car, light van |
| 100 m. before sign | 10:10:27 | 45,7  | car, light van |
| 100 m. before sign | 10:10:30 | 47,3  | car, light van |
| On sign            | 10:10:36 | 47,7  | car, light van |
| On sign            | 10:10:38 | 46,2  | car, light van |
| 100 m. after sign  | 10:10:43 | 45,3  | car, light van |
| 100 m. after sign  | 10:10:46 | 43    | car, light van |
| 100 m. before sign | 10:12:11 | 52,5  | car, light van |
| On sign            | 10:12:19 | 54,6  | car, light van |
| 100 m. before sign | 10:12:25 | 56,5  | car, light van |
| 100 m. after sign  | 10:12:25 | 55,2  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:12:32 | 60    | car, light van |
| 100 m. after sign  | 10:12:38 | 56,4  | car, light van |
| 100 m. before sign | 10:12:56 | 52,5  | car, light van |
| On sign            | 10:13:04 | 55,1  | car, light van |
| 100 m. after sign  | 10:13:11 | 49,6  | car, light van |
| 100 m. before sign | 10:14:45 | 47,2  | car, light van |
| On sign            | 10:14:53 | 48,8  | car, light van |
| 100 m. before sign | 10:15:00 | 69,7  | car, light van |
| 100 m. after sign  | 10:15:00 | 51,3  | car, light van |
| On sign            | 10:15:06 | 67,3  | car, light van |
| 100 m. after sign  | 10:15:11 | 50,8  | car, light van |
| 100 m. before sign | 10:15:14 | 50    | Truck          |
| 100 m. before sign | 10:15:17 | 48,7  | car, light van |
| On sign            | 10:15:22 | 53,5  | Truck          |
| On sign            | 10:15:25 | 57,1  | car, light van |
| 100 m. after sign  | 10:15:29 | 49,3  | Truck          |
| 100 m. after sign  | 10:15:31 | 56,3  | car, light van |
| 100 m. before sign | 10:16:01 | 56,2  | car, light van |
| On sign            | 10:16:08 | 56,8  | car, light van |
| 100 m. after sign  | 10:16:15 | 54,3  | car, light van |
| 100 m. before sign | 10:17:08 | 62    | car, light van |
| 100 m. before sign | 10:17:11 | 61,9  | car, light van |
| On sign            | 10:17:15 | 62,5  | car, light van |
| On sign            | 10:17:17 | 61,5  | Truck          |
| 100 m. after sign  | 10:17:20 | 60,7  | car, light van |
| 100 m. after sign  | 10:17:24 | 56,8  | Truck          |
| 100 m. before sign | 10:17:59 | 66,3  | car, light van |
| On sign            | 10:18:05 | 60,6  | car, light van |
| 100 m. after sign  | 10:18:11 | 64,9  | car, light van |
| 100 m. before sign | 10:18:47 | 59,2  | Truck          |
| 100 m. before sign | 10:18:49 | 61,5  | Truck          |
| 100 m. before sign | 10:18:51 | 61,6  | Truck          |
| On sign            | 10:18:54 | 58    | Truck          |
| On sign            | 10:18:56 | 57,9  | BUS            |
| On sign            | 10:18:57 | 59,4  | Truck          |
| 100 m. after sign  | 10:19:01 | 48,5  | Truck          |
| 100 m. before sign | 10:19:02 | 96,3  | car, light van |
| 100 m. after sign  | 10:19:02 | 51    | Truck          |
| 100 m. after sign  | 10:19:04 | 50,3  | Truck          |
| 100 m. before sign | 10:19:05 | 60,8  | car, light van |
| On sign            | 10:19:06 | 94,5  | car, light van |
| 100 m. after sign  | 10:19:10 | 83,7  | car, light van |
| On sign            | 10:19:12 | 62,1  | car, light van |
| 100 m. after sign  | 10:19:18 | 54,4  | car, light van |
| 100 m. before sign | 10:20:55 | 54,6  | car, light van |
| On sign            | 10:21:03 | 52,2  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 10:21:09 | 52    | car, light van |
| 100 m. before sign | 10:21:23 | 65,6  | car, light van |
| On sign            | 10:21:30 | 59,6  | car, light van |
| 100 m. after sign  | 10:21:35 | 60,9  | car, light van |
| 100 m. before sign | 10:21:44 | 61,5  | car, light van |
| On sign            | 10:21:50 | 67,5  | car, light van |
| 100 m. before sign | 10:21:50 | 49,6  | car, light van |
| 100 m. before sign | 10:21:52 | 51,9  | car, light van |
| 100 m. after sign  | 10:21:56 | 63,6  | car, light van |
| On sign            | 10:21:58 | 54,2  | car, light van |
| On sign            | 10:22:00 | 50,5  | car, light van |
| 100 m. after sign  | 10:22:05 | 52,9  | car, light van |
| 100 m. after sign  | 10:22:07 | 50,3  | car, light van |
| On sign            | 10:22:52 | 45,7  | car, light van |
| 100 m. before sign | 10:22:57 | 54,4  | Truck          |
| 100 m. after sign  | 10:22:59 | 50,5  | car, light van |
| On sign            | 10:23:05 | 49,1  | Truck          |
| 100 m. after sign  | 10:23:12 | 48,4  | Truck          |
| 100 m. before sign | 10:23:40 | 50,8  | car, light van |
| On sign            | 10:23:48 | 54,1  | car, light van |
| 100 m. before sign | 10:23:53 | 58,6  | Truck          |
| 100 m. after sign  | 10:23:55 | 51,8  | car, light van |
| On sign            | 10:24:00 | 55,7  | Truck          |
| 100 m. after sign  | 10:24:07 | 56,3  | Truck          |
| 100 m. before sign | 10:24:15 | 53,4  | Truck          |
| 100 m. before sign | 10:24:19 | 49,8  | Truck          |
| 100 m. before sign | 10:24:21 | 52    | Truck          |
| On sign            | 10:24:22 | 54,8  | Truck          |
| On sign            | 10:24:27 | 50,4  | Truck          |
| 100 m. after sign  | 10:24:29 | 52    | Truck          |
| On sign            | 10:24:29 | 48,5  | Truck          |
| 100 m. after sign  | 10:24:34 | 52,7  | Truck          |
| 100 m. after sign  | 10:24:36 | 52,3  | Truck          |
| 100 m. before sign | 10:24:36 | 46,8  | car, light van |
| 100 m. before sign | 10:24:38 | 64,3  | car, light van |
| On sign            | 10:24:44 | 55,1  | car, light van |
| On sign            | 10:24:46 | 50,6  | car, light van |
| 100 m. after sign  | 10:24:51 | 56,3  | car, light van |
| 100 m. after sign  | 10:24:53 | 47,6  | car, light van |
| 100 m. before sign | 10:26:44 | 64,4  | car, light van |
| On sign            | 10:26:50 | 66,7  | Truck          |
| 100 m. before sign | 10:26:55 | 46,9  | car, light van |
| 100 m. after sign  | 10:26:56 | 61,9  | Truck          |
| On sign            | 10:27:03 | 47,7  | car, light van |
| 100 m. after sign  | 10:27:11 | 50,8  | car, light van |
| 100 m. before sign | 10:28:44 | 57,3  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:28:51 | 50,6  | car, light van |
| 100 m. before sign | 10:28:52 | 60    | car, light van |
| On sign            | 10:28:59 | 49,2  | car, light van |
| 100 m. after sign  | 10:28:59 | 43,2  | car, light van |
| 100 m. after sign  | 10:29:07 | 41,5  | car, light van |
| 100 m. before sign | 10:30:59 | 52,3  | car, light van |
| 100 m. before sign | 10:31:05 | 51,7  | car, light van |
| On sign            | 10:31:07 | 49,9  | car, light van |
| On sign            | 10:31:13 | 57,2  | car, light van |
| 100 m. after sign  | 10:31:14 | 53,5  | car, light van |
| 100 m. after sign  | 10:31:19 | 57,3  | car, light van |
| 100 m. before sign | 10:31:20 | 53,9  | car, light van |
| On sign            | 10:31:27 | 61,1  | car, light van |
| 100 m. after sign  | 10:31:33 | 62,8  | car, light van |
| 100 m. before sign | 10:31:43 | 60,4  | Truck          |
| On sign            | 10:31:50 | 57,8  | Truck          |
| 100 m. after sign  | 10:31:57 | 49,7  | Truck          |
| 100 m. before sign | 10:32:57 | 88    | car, light van |
| On sign            | 10:33:02 | 83,4  | car, light van |
| 100 m. after sign  | 10:33:06 | 74,5  | car, light van |
| 100 m. before sign | 10:33:13 | 74,8  | car, light van |
| On sign            | 10:33:19 | 63,3  | car, light van |
| 100 m. after sign  | 10:33:24 | 65,8  | car, light van |
| 100 m. before sign | 10:33:31 | 48,4  | car, light van |
| On sign            | 10:33:39 | 52,6  | car, light van |
| 100 m. after sign  | 10:33:46 | 50,8  | car, light van |
| 100 m. before sign | 10:35:03 | 52,1  | car, light van |
| On sign            | 10:35:10 | 59,1  | car, light van |
| 100 m. after sign  | 10:35:16 | 59,9  | car, light van |
| 100 m. before sign | 10:35:54 | 51,5  | car, light van |
| On sign            | 10:36:02 | 51,4  | car, light van |
| 100 m. after sign  | 10:36:09 | 49,8  | car, light van |
| 100 m. before sign | 10:37:05 | 49    | car, light van |
| On sign            | 10:37:13 | 55,3  | car, light van |
| 100 m. after sign  | 10:37:20 | 51,5  | car, light van |
| 100 m. before sign | 10:38:17 | 45,5  | car, light van |
| On sign            | 10:38:26 | 47,4  | Truck          |
| 100 m. after sign  | 10:38:34 | 42,7  | car, light van |
| 100 m. before sign | 10:39:58 | 48,5  | car, light van |
| 100 m. before sign | 10:40:00 | 46,5  | car, light van |
| On sign            | 10:40:06 | 49,5  | Truck          |
| On sign            | 10:40:09 | 46,8  | car, light van |
| 100 m. after sign  | 10:40:13 | 47,5  | Truck          |
| 100 m. after sign  | 10:40:17 | 45,7  | car, light van |
| 100 m. before sign | 10:40:45 | 45,8  | car, light van |
| On sign            | 10:40:54 | 46,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 10:40:59 | 40,8  | car, light van |
| 100 m. before sign | 10:41:01 | 43,8  | car, light van |
| 100 m. after sign  | 10:41:02 | 50,7  | car, light van |
| On sign            | 10:41:09 | 41,4  | Truck          |
| 100 m. before sign | 10:41:11 | 54,9  | car, light van |
| 100 m. after sign  | 10:41:17 | 43,7  | car, light van |
| On sign            | 10:41:19 | 56    | car, light van |
| 100 m. after sign  | 10:41:19 | 49,8  | car, light van |
| 100 m. after sign  | 10:41:25 | 57,5  | car, light van |
| 100 m. before sign | 10:41:43 | 46,6  | car, light van |
| On sign            | 10:41:51 | 53,8  | car, light van |
| 100 m. after sign  | 10:41:58 | 56,2  | car, light van |
| 100 m. before sign | 10:42:18 | 51,1  | car, light van |
| On sign            | 10:42:26 | 54,1  | car, light van |
| 100 m. after sign  | 10:42:33 | 53,2  | car, light van |
| On sign            | 10:42:54 | 49,2  | Truck          |
| 100 m. after sign  | 10:43:01 | 49,6  | Truck          |
| 100 m. before sign | 10:43:56 | 61,1  | car, light van |
| On sign            | 10:44:02 | 63,5  | Truck          |
| 100 m. after sign  | 10:44:08 | 62    | car, light van |
| 100 m. before sign | 10:44:17 | 43,6  | car, light van |
| On sign            | 10:44:27 | 57,2  | car, light van |
| 100 m. before sign | 10:45:26 | 53,6  | car, light van |
| On sign            | 10:45:34 | 53,4  | car, light van |
| 100 m. after sign  | 10:45:41 | 50,7  | car, light van |
| 100 m. before sign | 10:45:59 | 51,7  | Truck          |
| On sign            | 10:46:07 | 53,8  | Truck          |
| 100 m. after sign  | 10:46:14 | 53,8  | car, light van |
| 100 m. before sign | 10:46:31 | 51,4  | car, light van |
| On sign            | 10:46:39 | 46,7  | car, light van |
| 100 m. after sign  | 10:46:47 | 49,1  | car, light van |
| 100 m. before sign | 10:46:55 | 59,7  | BUS            |
| On sign            | 10:47:01 | 63    | BUS            |
| 100 m. before sign | 10:47:01 | 47,2  | car, light van |
| 100 m. after sign  | 10:47:07 | 59    | BUS            |
| On sign            | 10:47:09 | 47,4  | car, light van |
| 100 m. before sign | 10:47:16 | 52,2  | car, light van |
| 100 m. after sign  | 10:47:17 | 43,1  | car, light van |
| On sign            | 10:47:23 | 53,6  | car, light van |
| 100 m. before sign | 10:47:24 | 44,4  | car, light van |
| 100 m. after sign  | 10:47:30 | 53,6  | car, light van |
| On sign            | 10:47:32 | 50,4  | car, light van |
| 100 m. after sign  | 10:47:40 | 45,1  | car, light van |
| 100 m. before sign | 10:48:13 | 46    | car, light van |
| On sign            | 10:48:20 | 49,7  | car, light van |
| On sign            | 10:48:22 | 48,9  | car, light van |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 10:48:27 | 46,6  | car, light van |
| 100 m. after sign  | 10:48:29 | 48,7  | car, light van |
| 100 m. before sign | 10:48:42 | 58,1  | Truck          |
| 100 m. before sign | 10:48:45 | 52,6  | Truck          |
| 100 m. before sign | 10:48:46 | 51,4  | car, light van |
| On sign            | 10:48:49 | 59,4  | Truck          |
| On sign            | 10:48:52 | 56,8  | Truck          |
| On sign            | 10:48:54 | 53,6  | car, light van |
| 100 m. after sign  | 10:48:55 | 57,1  | Truck          |
| 100 m. after sign  | 10:48:59 | 56,7  | Truck          |
| 100 m. after sign  | 10:49:01 | 53,6  | car, light van |
| 100 m. before sign | 10:49:56 | 77,4  | car, light van |
| On sign            | 10:50:02 | 74,5  | Truck          |
| 100 m. before sign | 10:50:05 | 58,2  | car, light van |
| 100 m. after sign  | 10:50:07 | 72,4  | car, light van |
| On sign            | 10:50:12 | 54,2  | car, light van |
| 100 m. after sign  | 10:50:19 | 51,3  | car, light van |
| 100 m. before sign | 10:50:55 | 50,9  | car, light van |
| On sign            | 10:51:02 | 49,2  | car, light van |
| 100 m. before sign | 10:51:25 | 54,2  | Truck          |
| On sign            | 10:51:32 | 51,5  | Truck          |
| 100 m. after sign  | 10:51:39 | 53,7  | Truck          |
| 100 m. before sign | 10:51:58 | 72    | car, light van |
| On sign            | 10:52:03 | 59,3  | car, light van |
| 100 m. after sign  | 10:52:10 | 53,1  | car, light van |
| On sign            | 10:53:07 | 40,6  | car, light van |
| 100 m. before sign | 10:53:20 | 40,1  | Truck          |
| On sign            | 10:53:28 | 54,3  | Truck          |
| 100 m. after sign  | 10:53:34 | 55,9  | Truck          |
| 100 m. before sign | 10:53:35 | 70,6  | car, light van |
| On sign            | 10:53:41 | 71,5  | car, light van |
| 100 m. after sign  | 10:53:46 | 69,5  | car, light van |
| 100 m. before sign | 10:55:21 | 52,9  | Truck          |
| 100 m. before sign | 10:55:25 | 53,1  | car, light van |
| 100 m. before sign | 10:55:28 | 47,6  | car, light van |
| On sign            | 10:55:29 | 52,2  | Truck          |
| On sign            | 10:55:32 | 54,4  | car, light van |
| 100 m. before sign | 10:55:34 | 76,1  | car, light van |
| On sign            | 10:55:36 | 51,6  | car, light van |
| 100 m. after sign  | 10:55:36 | 51    | Truck          |
| 100 m. after sign  | 10:55:39 | 53,4  | car, light van |
| On sign            | 10:55:40 | 64,7  | car, light van |
| 100 m. after sign  | 10:55:43 | 54,2  | car, light van |
| 100 m. after sign  | 10:55:46 | 60,4  | car, light van |
| 100 m. before sign | 10:56:12 | 55,7  | car, light van |
| On sign            | 10:56:19 | 63,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 10:56:24 | 70,6  | car, light van |
| 100 m. before sign | 10:56:40 | 67,5  | car, light van |
| On sign            | 10:56:46 | 71,2  | car, light van |
| 100 m. after sign  | 10:56:51 | 74,2  | car, light van |
| 100 m. before sign | 10:57:08 | 44,2  | Truck          |
| On sign            | 10:57:17 | 46    | Truck          |
| 100 m. after sign  | 10:57:24 | 46,8  | Truck          |
| 100 m. before sign | 10:57:48 | 48,2  | Truck          |
| 100 m. before sign | 10:57:51 | 51,3  | Truck          |
| 100 m. before sign | 10:57:55 | 52,6  | car, light van |
| On sign            | 10:57:56 | 51,4  | Truck          |
| On sign            | 10:57:59 | 52,1  | Truck          |
| On sign            | 10:58:03 | 57,6  | car, light van |
| 100 m. after sign  | 10:58:04 | 46,8  | Truck          |
| 100 m. after sign  | 10:58:07 | 44,6  | Truck          |
| 100 m. after sign  | 10:58:09 | 47,3  | car, light van |
| 100 m. before sign | 10:58:19 | 62,7  | BUS            |
| On sign            | 10:58:25 | 62,2  | BUS            |
| 100 m. after sign  | 10:58:31 | 51,9  | BUS            |
| 100 m. before sign | 10:59:44 | 64,2  | Truck          |
| 100 m. after sign  | 10:59:46 | 44,4  | car, light van |
| 100 m. before sign | 10:59:48 | 62,1  | BUS            |
| On sign            | 10:59:50 | 68,2  | car, light van |
| On sign            | 10:59:55 | 58,7  | car, light van |
| 100 m. after sign  | 10:59:56 | 64,5  | Truck          |
| 100 m. before sign | 10:59:58 | 64,2  | car, light van |
| 100 m. after sign  | 11:00:00 | 60,7  | BUS            |
| On sign            | 11:00:05 | 51,9  | car, light van |
| 100 m. after sign  | 11:00:12 | 57,4  | car, light van |
| 100 m. before sign | 11:01:06 | 48,5  | car, light van |
| On sign            | 11:01:14 | 50,7  | car, light van |
| 100 m. before sign | 11:01:15 | 66,6  | Truck          |
| On sign            | 11:01:21 | 64,9  | Truck          |
| 100 m. after sign  | 11:01:21 | 49,6  | car, light van |
| 100 m. after sign  | 11:01:27 | 56,5  | Truck          |
| 100 m. before sign | 11:01:41 | 54,1  | car, light van |
| 100 m. before sign | 11:01:42 | 76    | car, light van |
| On sign            | 11:01:49 | 58,5  | car, light van |
| On sign            | 11:01:49 | 58,1  | car, light van |
| 100 m. after sign  | 11:01:55 | 54,7  | car, light van |
| 100 m. after sign  | 11:01:56 | 54,8  | car, light van |
| 100 m. before sign | 11:02:13 | 42    | car, light van |
| 100 m. before sign | 11:02:21 | 57    | car, light van |
| On sign            | 11:02:22 | 47,3  | Truck          |
| On sign            | 11:02:28 | 59,2  | car, light van |
| 100 m. after sign  | 11:02:30 | 45,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 11:02:34 | 54,6  | car, light van |
| 100 m. before sign | 11:02:35 | 56,5  | Truck          |
| On sign            | 11:02:42 | 58    | Truck          |
| 100 m. after sign  | 11:02:48 | 55,7  | Truck          |
| 100 m. before sign | 11:03:17 | 43,7  | Truck          |
| On sign            | 11:03:26 | 47,3  | Truck          |
| 100 m. after sign  | 11:03:34 | 54    | car, light van |
| 100 m. before sign | 11:03:54 | 56,3  | Truck          |
| 100 m. before sign | 11:04:00 | 61,5  | car, light van |
| On sign            | 11:04:02 | 60    | Truck          |
| On sign            | 11:04:07 | 56,4  | car, light van |
| 100 m. after sign  | 11:04:08 | 53,8  | Truck          |
| 100 m. after sign  | 11:04:13 | 57,2  | car, light van |
| 100 m. before sign | 11:04:38 | 58,8  | car, light van |
| 100 m. before sign | 11:04:42 | 55    | car, light van |
| On sign            | 11:04:45 | 54,3  | car, light van |
| On sign            | 11:04:49 | 59    | Truck          |
| 100 m. before sign | 11:04:50 | 54,8  | car, light van |
| 100 m. after sign  | 11:04:52 | 51,2  | car, light van |
| 100 m. after sign  | 11:04:55 | 58,9  | car, light van |
| 100 m. before sign | 11:04:57 | 62,8  | car, light van |
| On sign            | 11:04:57 | 51,5  | Truck          |
| On sign            | 11:05:04 | 59,1  | car, light van |
| 100 m. after sign  | 11:05:04 | 45,1  | car, light van |
| 100 m. after sign  | 11:05:10 | 50,6  | car, light van |
| 100 m. before sign | 11:06:00 | 69,4  | car, light van |
| On sign            | 11:06:06 | 71,1  | car, light van |
| 100 m. after sign  | 11:06:11 | 64,6  | car, light van |
| 100 m. before sign | 11:06:11 | 47,2  | car, light van |
| On sign            | 11:06:19 | 47,5  | Truck          |
| 100 m. after sign  | 11:06:27 | 48,6  | car, light van |
| 100 m. before sign | 11:07:28 | 57,3  | car, light van |
| On sign            | 11:07:36 | 54,5  | Truck          |
| 100 m. before sign | 11:07:39 | 49,3  | car, light van |
| 100 m. before sign | 11:07:41 | 47,2  | Truck          |
| 100 m. after sign  | 11:07:42 | 53    | Truck          |
| On sign            | 11:07:48 | 47,6  | car, light van |
| On sign            | 11:07:50 | 50,7  | Truck          |
| 100 m. after sign  | 11:07:55 | 51,4  | car, light van |
| 100 m. after sign  | 11:07:57 | 50,7  | Truck          |
| 100 m. before sign | 11:08:58 | 53,7  | car, light van |
| On sign            | 11:09:06 | 53,5  | car, light van |
| 100 m. after sign  | 11:09:13 | 50,5  | car, light van |
| 100 m. before sign | 11:09:23 | 65,7  | Truck          |
| On sign            | 11:09:30 | 66,7  | Truck          |
| 100 m. after sign  | 11:09:35 | 65,6  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 11:11:30 | 50,1  | car, light van |
| On sign            | 11:11:38 | 53,2  | car, light van |
| 100 m. after sign  | 11:11:45 | 49,4  | car, light van |
| 100 m. before sign | 11:11:47 | 58    | car, light van |
| On sign            | 11:11:54 | 58,4  | car, light van |
| 100 m. after sign  | 11:12:00 | 57    | car, light van |
| 100 m. before sign | 11:12:07 | 47,8  | car, light van |
| 100 m. before sign | 11:12:13 | 72,4  | car, light van |
| On sign            | 11:12:15 | 54,5  | car, light van |
| On sign            | 11:12:19 | 58,9  | car, light van |
| 100 m. after sign  | 11:12:22 | 53,4  | car, light van |
| 100 m. after sign  | 11:12:26 | 51,7  | car, light van |
| 100 m. before sign | 11:12:46 | 99,4  | car, light van |
| On sign            | 11:12:50 | 96    | car, light van |
| 100 m. after sign  | 11:12:54 | 82,1  | car, light van |
| 100 m. before sign | 11:13:01 | 65    | Truck          |
| 100 m. before sign | 11:13:06 | 64,3  | Truck          |
| On sign            | 11:13:08 | 61,3  | Truck          |
| On sign            | 11:13:13 | 69    | car, light van |
| 100 m. after sign  | 11:13:14 | 53,4  | Truck          |
| 100 m. after sign  | 11:13:19 | 54,6  | Truck          |
| 100 m. before sign | 11:13:27 | 57,7  | car, light van |
| On sign            | 11:13:34 | 53,9  | car, light van |
| 100 m. before sign | 11:13:36 | 53,4  | Truck          |
| 100 m. after sign  | 11:13:41 | 45,8  | car, light van |
| On sign            | 11:13:43 | 58,2  | Truck          |
| 100 m. after sign  | 11:13:49 | 54,5  | car, light van |
| 100 m. before sign | 11:14:38 | 81,2  | car, light van |
| On sign            | 11:14:43 | 72,3  | Truck          |
| 100 m. after sign  | 11:14:49 | 58,8  | car, light van |
| On sign            | 11:15:19 | 43,6  | car, light van |
| 100 m. after sign  | 11:15:27 | 45,6  | car, light van |
| 100 m. before sign | 11:15:57 | 56,3  | car, light van |
| On sign            | 11:16:04 | 58,8  | car, light van |
| 100 m. after sign  | 11:16:10 | 57,9  | car, light van |
| 100 m. before sign | 11:17:01 | 53,5  | Truck          |
| 100 m. before sign | 11:17:04 | 50,9  | car, light van |
| 100 m. before sign | 11:17:07 | 53,5  | car, light van |
| On sign            | 11:17:09 | 53,7  | Truck          |
| 100 m. before sign | 11:17:11 | 56,7  | car, light van |
| On sign            | 11:17:11 | 54    | car, light van |
| On sign            | 11:17:13 | 56,1  | Truck          |
| 100 m. before sign | 11:17:13 | 52,4  | car, light van |
| On sign            | 11:17:14 | 59,2  | car, light van |
| On sign            | 11:17:16 | 58    | car, light van |
| 100 m. after sign  | 11:17:16 | 50,1  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 11:17:16 | 43,4  | car, light van |
| On sign            | 11:17:18 | 57,2  | car, light van |
| 100 m. after sign  | 11:17:18 | 50,9  | car, light van |
| 100 m. after sign  | 11:17:20 | 50,2  | car, light van |
| On sign            | 11:17:21 | 54,3  | car, light van |
| 100 m. after sign  | 11:17:21 | 51,1  | car, light van |
| 100 m. after sign  | 11:17:22 | 51,5  | car, light van |
| 100 m. after sign  | 11:17:24 | 50,8  | car, light van |
| 100 m. before sign | 11:17:24 | 48,5  | car, light van |
| On sign            | 11:17:25 | 47,2  | car, light van |
| 100 m. after sign  | 11:17:27 | 55,2  | car, light van |
| 100 m. after sign  | 11:17:32 | 60,1  | car, light van |
| 100 m. before sign | 11:17:50 | 53    | car, light van |
| 100 m. before sign | 11:17:51 | 52,2  | car, light van |
| On sign            | 11:17:58 | 53,5  | car, light van |
| On sign            | 11:17:59 | 55,1  | car, light van |
| 100 m. after sign  | 11:18:04 | 56,6  | car, light van |
| 100 m. after sign  | 11:18:05 | 54,2  | car, light van |
| 100 m. before sign | 11:18:44 | 50,1  | car, light van |
| On sign            | 11:18:53 | 48,7  | car, light van |
| 100 m. before sign | 11:18:58 | 41,1  | car, light van |
| 100 m. after sign  | 11:19:00 | 46,2  | car, light van |
| On sign            | 11:19:07 | 48,5  | car, light van |
| 100 m. before sign | 11:19:09 | 48,1  | car, light van |
| 100 m. after sign  | 11:19:14 | 52,1  | car, light van |
| On sign            | 11:19:17 | 49,9  | car, light van |
| 100 m. after sign  | 11:19:24 | 50,4  | car, light van |
| 100 m. before sign | 11:19:34 | 60,4  | Truck          |
| 100 m. before sign | 11:19:37 | 55,5  | Truck          |
| 100 m. before sign | 11:19:40 | 50,7  | car, light van |
| On sign            | 11:19:41 | 60    | Truck          |
| On sign            | 11:19:44 | 63,4  | Truck          |
| 100 m. after sign  | 11:19:47 | 53,2  | Truck          |
| 100 m. after sign  | 11:19:50 | 60    | Truck          |
| 100 m. after sign  | 11:19:54 | 56,8  | car, light van |
| 100 m. before sign | 11:20:47 | 45,3  | car, light van |
| On sign            | 11:20:56 | 46,1  | car, light van |
| 100 m. before sign | 11:21:01 | 48,6  | car, light van |
| 100 m. before sign | 11:21:02 | 47,3  | car, light van |
| 100 m. after sign  | 11:21:03 | 48,7  | car, light van |
| 100 m. before sign | 11:21:04 | 48,4  | car, light van |
| On sign            | 11:21:09 | 51,7  | car, light van |
| On sign            | 11:21:10 | 53,9  | car, light van |
| On sign            | 11:21:12 | 52,6  | car, light van |
| 100 m. after sign  | 11:21:15 | 53,4  | car, light van |
| 100 m. after sign  | 11:21:17 | 54,1  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. after sign  | 11:21:19 | 52,4  | car, light van |
| 100 m. before sign | 11:23:05 | 45,4  | Truck          |
| 100 m. before sign | 11:23:07 | 45,8  | car, light van |
| 100 m. before sign | 11:23:09 | 60,7  | car, light van |
| On sign            | 11:23:14 | 49,3  | Truck          |
| On sign            | 11:23:16 | 45,9  | car, light van |
| On sign            | 11:23:17 | 47,5  | car, light van |
| 100 m. after sign  | 11:23:21 | 49,5  | Truck          |
| 100 m. after sign  | 11:23:23 | 50,6  | car, light van |
| 100 m. before sign | 11:24:38 | 59,7  | car, light van |
| On sign            | 11:24:45 | 58,3  | car, light van |
| 100 m. after sign  | 11:24:51 | 50,1  | car, light van |
| 100 m. before sign | 11:25:29 | 57,2  | car, light van |
| On sign            | 11:25:36 | 59,3  | car, light van |
| 100 m. after sign  | 11:25:42 | 61,3  | car, light van |
| 100 m. before sign | 11:25:56 | 49,2  | car, light van |
| On sign            | 11:26:04 | 50    | car, light van |
| 100 m. after sign  | 11:26:11 | 48,1  | car, light van |
| 100 m. before sign | 11:26:31 | 68,8  | car, light van |
| On sign            | 11:26:37 | 67,1  | car, light van |
| 100 m. after sign  | 11:26:42 | 59,2  | car, light van |
| 100 m. before sign | 11:26:44 | 53,9  | Truck          |
| On sign            | 11:26:52 | 57,6  | Truck          |
| 100 m. after sign  | 11:26:58 | 60,1  | Truck          |
| 100 m. before sign | 11:28:38 | 54,4  | car, light van |
| On sign            | 11:28:45 | 59    | car, light van |
| 100 m. after sign  | 11:28:52 | 54,1  | car, light van |
| 100 m. before sign | 11:29:48 | 63,5  | BUS            |
| 100 m. before sign | 11:29:52 | 63,6  | Truck          |
| On sign            | 11:29:55 | 63,7  | BUS            |
| 100 m. before sign | 11:29:55 | 63    | Truck          |
| 100 m. before sign | 11:29:57 | 57,1  | Truck          |
| On sign            | 11:29:58 | 65,3  | Truck          |
| 100 m. after sign  | 11:30:00 | 60    | BUS            |
| On sign            | 11:30:01 | 63,5  | Truck          |
| 100 m. after sign  | 11:30:04 | 60    | Truck          |
| On sign            | 11:30:04 | 55,4  | Truck          |
| 100 m. before sign | 11:30:04 | 45,9  | Truck          |
| 100 m. after sign  | 11:30:07 | 58,3  | Truck          |
| 100 m. after sign  | 11:30:11 | 47,1  | Truck          |
| On sign            | 11:30:13 | 50,4  | Truck          |
| 100 m. after sign  | 11:30:20 | 49,9  | Truck          |
| 100 m. before sign | 11:31:56 | 44,2  | car, light van |
| On sign            | 11:32:05 | 50,6  | car, light van |
| 100 m. after sign  | 11:32:12 | 51,8  | car, light van |
| 100 m. before sign | 11:33:00 | 45,4  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 11:33:08 | 50,6  | BUS            |
| 100 m. after sign  | 11:33:15 | 48,8  | Truck          |
| 100 m. before sign | 11:34:19 | 48,4  | Truck          |
| 100 m. before sign | 11:34:22 | 48,5  | car, light van |
| 100 m. before sign | 11:34:26 | 42,4  | car, light van |
| On sign            | 11:34:27 | 52,1  | Truck          |
| On sign            | 11:34:30 | 49,4  | car, light van |
| On sign            | 11:34:34 | 55,7  | car, light van |
| 100 m. after sign  | 11:34:34 | 50,1  | Truck          |
| 100 m. after sign  | 11:34:37 | 47,8  | car, light van |
| 100 m. before sign | 11:34:40 | 51,5  | car, light van |
| 100 m. after sign  | 11:34:41 | 52,3  | car, light van |
| On sign            | 11:34:48 | 49,1  | car, light van |
| 100 m. after sign  | 11:34:56 | 47,6  | car, light van |
| 100 m. before sign | 11:35:12 | 48,6  | car, light van |
| On sign            | 11:35:20 | 51,3  | car, light van |
| 100 m. before sign | 11:35:24 | 56,2  | car, light van |
| 100 m. after sign  | 11:35:27 | 51,9  | car, light van |
| On sign            | 11:35:31 | 53,9  | car, light van |
| 100 m. after sign  | 11:35:38 | 56,8  | car, light van |
| 100 m. before sign | 11:36:16 | 58,4  | car, light van |
| 100 m. before sign | 11:36:19 | 53,2  | car, light van |
| On sign            | 11:36:24 | 51,4  | car, light van |
| On sign            | 11:36:27 | 51,2  | car, light van |
| 100 m. after sign  | 11:36:31 | 49,9  | car, light van |
| 100 m. after sign  | 11:36:34 | 44,8  | car, light van |
| 100 m. before sign | 11:36:50 | 54,8  | car, light van |
| On sign            | 11:36:58 | 53,2  | car, light van |
| 100 m. after sign  | 11:37:05 | 49    | car, light van |
| 100 m. before sign | 11:37:09 | 58,3  | car, light van |
| On sign            | 11:37:16 | 61,4  | car, light van |
| 100 m. after sign  | 11:37:22 | 58,6  | car, light van |
| 100 m. before sign | 11:37:26 | 48,9  | car, light van |
| On sign            | 11:37:35 | 47,3  | Truck          |
| 100 m. after sign  | 11:37:42 | 50,7  | car, light van |
| 100 m. before sign | 11:38:17 | 53,2  | car, light van |
| On sign            | 11:38:24 | 55,9  | car, light van |
| 100 m. after sign  | 11:38:30 | 54,2  | car, light van |
| 100 m. before sign | 11:38:41 | 58,1  | car, light van |
| On sign            | 11:38:48 | 55,9  | car, light van |
| 100 m. after sign  | 11:38:54 | 59,4  | car, light van |
| 100 m. before sign | 11:39:14 | 56,9  | Truck          |
| 100 m. before sign | 11:39:17 | 57,2  | Truck          |
| 100 m. before sign | 11:39:19 | 59,7  | car, light van |
| On sign            | 11:39:21 | 58,9  | Truck          |
| 100 m. before sign | 11:39:22 | 60    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 100 m. before sign | 11:39:23 | 55,2  | car, light van |
| On sign            | 11:39:24 | 59,3  | Truck          |
| On sign            | 11:39:26 | 61,6  | car, light van |
| 100 m. after sign  | 11:39:27 | 54,7  | Truck          |
| On sign            | 11:39:28 | 56,6  | car, light van |
| 100 m. after sign  | 11:39:30 | 57,3  | Truck          |
| On sign            | 11:39:30 | 55,7  | car, light van |
| 100 m. before sign | 11:39:31 | 61,6  | car, light van |
| 100 m. after sign  | 11:39:32 | 55,4  | car, light van |
| 100 m. after sign  | 11:39:35 | 58,4  | car, light van |
| 100 m. after sign  | 11:39:37 | 55,9  | car, light van |
| On sign            | 11:39:38 | 57,5  | car, light van |
| 100 m. after sign  | 11:39:44 | 58,4  | car, light van |
| 100 m. before sign | 11:40:09 | 69,6  | BUS            |
| 100 m. before sign | 11:40:13 | 74,2  | car, light van |
| On sign            | 11:40:15 | 60,7  | BUS            |
| On sign            | 11:40:19 | 68,4  | Truck          |
| 100 m. after sign  | 11:40:21 | 55,3  | BUS            |
| 100 m. after sign  | 11:40:24 | 64    | car, light van |
| 100 m. before sign | 11:41:11 | 47,9  | car, light van |
| On sign            | 11:41:19 | 51,8  | car, light van |
| 100 m. after sign  | 11:41:26 | 50,3  | car, light van |
| 100 m. before sign | 11:41:51 | 53,2  | Truck          |
| On sign            | 11:41:53 | 47,1  | car, light van |
| On sign            | 11:42:00 | 50,6  | Truck          |
| 100 m. after sign  | 11:42:07 | 51    | Truck          |
| 100 m. before sign | 11:42:09 | 54,2  | car, light van |
| On sign            | 11:42:16 | 57,1  | car, light van |
| 100 m. after sign  | 11:42:22 | 59    | car, light van |
| 100 m. before sign | 11:42:53 | 56,5  | car, light van |
| On sign            | 11:43:01 | 48,8  | car, light van |
| 100 m. after sign  | 11:43:08 | 49,7  | car, light van |
| 100 m. before sign | 11:43:52 | 51,4  | car, light van |
| On sign            | 11:44:00 | 56,4  | car, light van |
| 100 m. after sign  | 11:44:06 | 55    | car, light van |
| 100 m. before sign | 11:44:40 | 53,6  | car, light van |
| 100 m. before sign | 11:44:43 | 53,6  | car, light van |
| 100 m. before sign | 11:44:54 | 53,6  | car, light van |
| On sign            | 11:44:57 | 59,4  | car, light van |
| 100 m. after sign  | 11:45:02 | 72    | car, light van |
| On sign            | 11:45:49 | 65,4  | Truck          |
| 100 m. after sign  | 11:45:54 | 67,4  | Truck          |
| On sign            | 11:45:58 | 79,7  | Truck          |
| 100 m. after sign  | 11:46:02 | 79,5  | Truck          |
| On sign            | 11:46:21 | 59,1  | Truck          |
| 100 m. after sign  | 11:46:27 | 69,3  | car, light van |



## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 11:46:27 | 56    | Truck          |
| On sign           | 11:46:29 | 62,3  | car, light van |
| 100 m. after sign | 11:46:33 | 55    | Truck          |
| 100 m. after sign | 11:46:35 | 62,2  | car, light van |
| On sign           | 11:46:59 | 86,9  | car, light van |
| On sign           | 11:47:01 | 74    | car, light van |
| 100 m. after sign | 11:47:03 | 87,5  | car, light van |
| On sign           | 11:47:22 | 49,2  | car, light van |
| 100 m. after sign | 11:47:24 | 47,5  | car, light van |
| 100 m. after sign | 11:47:33 | 46,4  | Truck          |
| 100 m. after sign | 11:47:36 | 58,8  | car, light van |
| 100 m. after sign | 11:47:39 | 58,4  | car, light van |
| 100 m. after sign | 11:47:42 | 58,6  | car, light van |
| 100 m. after sign | 11:48:38 | 52,2  | car, light van |
| 100 m. after sign | 11:49:19 | 55,1  | car, light van |

### Road No. A7 (11,7 km) speed measurement results

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 09:25:40 | 73,4  | car, light van |
| 120 m. before sign | 09:25:41 | 79,5  | car, light van |
| On sign            | 09:25:47 | 82,6  | car, light van |
| On sign            | 09:25:48 | 76,4  | car, light van |
| 120 m. after sign  | 09:25:51 | 80,7  | car, light van |
| 120 m. after sign  | 09:25:52 | 77,8  | car, light van |
| 120 m. before sign | 09:26:33 | 58,1  | car, light van |
| 120 m. before sign | 09:26:36 | 69,9  | car, light van |
| On sign            | 09:26:40 | 74,5  | Truck          |
| On sign            | 09:26:43 | 73,4  | car, light van |
| 120 m. after sign  | 09:26:44 | 73,6  | Truck          |
| 120 m. after sign  | 09:26:47 | 71,3  | car, light van |
| 120 m. before sign | 09:27:04 | 72,6  | car, light van |
| 120 m. before sign | 09:27:09 | 78,5  | car, light van |
| On sign            | 09:27:11 | 67,6  | car, light van |
| On sign            | 09:27:15 | 69,9  | car, light van |
| 120 m. after sign  | 09:27:16 | 72,8  | car, light van |
| 120 m. after sign  | 09:27:20 | 71,3  | car, light van |
| 120 m. before sign | 09:27:31 | 82,6  | BUS            |
| On sign            | 09:27:37 | 79,7  | BUS            |
| 120 m. after sign  | 09:27:41 | 79,1  | BUS            |
| 120 m. before sign | 09:27:58 | 78    | car, light van |
| On sign            | 09:28:03 | 82,3  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 09:28:07 | 78,9  | car, light van |
| 120 m. before sign | 09:28:23 | 91,8  | car, light van |
| On sign            | 09:28:28 | 81,2  | car, light van |
| 120 m. after sign  | 09:28:32 | 76    | car, light van |
| 120 m. before sign | 09:28:43 | 92,1  | car, light van |
| On sign            | 09:28:49 | 70,6  | car, light van |
| 120 m. before sign | 09:28:50 | 86,4  | Truck          |
| 120 m. after sign  | 09:28:53 | 67    | car, light van |
| On sign            | 09:28:56 | 89    | Truck          |
| 120 m. before sign | 09:28:59 | 88,5  | car, light van |
| 120 m. after sign  | 09:29:00 | 89    | Truck          |
| On sign            | 09:29:05 | 86,1  | car, light van |
| 120 m. after sign  | 09:29:09 | 78,6  | car, light van |
| 120 m. before sign | 09:29:23 | 79,8  | car, light van |
| On sign            | 09:29:30 | 68,1  | car, light van |
| 120 m. after sign  | 09:29:35 | 65,7  | car, light van |
| 120 m. before sign | 09:30:01 | 86,3  | car, light van |
| On sign            | 09:30:07 | 83,1  | car, light van |
| 120 m. after sign  | 09:30:11 | 80,3  | Truck          |
| 120 m. before sign | 09:31:45 | 91,6  | car, light van |
| 120 m. before sign | 09:31:47 | 97,2  | car, light van |
| On sign            | 09:31:51 | 84    | car, light van |
| On sign            | 09:31:53 | 81,4  | car, light van |
| 120 m. after sign  | 09:31:55 | 83,2  | car, light van |
| 120 m. after sign  | 09:31:57 | 81,1  | car, light van |
| 120 m. before sign | 09:31:59 | 90,2  | car, light van |
| On sign            | 09:32:04 | 90,6  | car, light van |
| 120 m. after sign  | 09:32:08 | 92,5  | car, light van |
| 120 m. before sign | 09:32:14 | 97,7  | car, light van |
| On sign            | 09:32:20 | 75,3  | car, light van |
| 120 m. after sign  | 09:32:24 | 78,5  | car, light van |
| 120 m. before sign | 09:32:37 | 69,2  | car, light van |
| On sign            | 09:32:44 | 68,7  | car, light van |
| 120 m. after sign  | 09:32:48 | 71,4  | car, light van |
| 120 m. before sign | 09:32:50 | 97    | car, light van |
| On sign            | 09:32:56 | 82,4  | Truck          |
| 120 m. after sign  | 09:33:00 | 82,8  | Truck          |
| 120 m. before sign | 09:33:39 | 83,1  | car, light van |
| 120 m. before sign | 09:33:43 | 96,8  | car, light van |
| On sign            | 09:33:45 | 73,2  | car, light van |
| On sign            | 09:33:48 | 87,6  | car, light van |
| 120 m. after sign  | 09:33:50 | 66,4  | car, light van |
| 120 m. after sign  | 09:33:52 | 80,4  | car, light van |
| 120 m. before sign | 09:34:00 | 81    | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 09:34:02 | 80,6  | Truck          |
| On sign            | 09:34:07 | 70,6  | Truck          |
| On sign            | 09:34:08 | 73,9  | Truck          |
| 120 m. before sign | 09:34:09 | 98,3  | car, light van |
| 120 m. after sign  | 09:34:11 | 68,9  | Truck          |
| 120 m. after sign  | 09:34:13 | 69,7  | Truck          |
| On sign            | 09:34:16 | 63,8  | car, light van |
| 120 m. before sign | 09:34:19 | 96,4  | car, light van |
| 120 m. after sign  | 09:34:21 | 69,1  | car, light van |
| On sign            | 09:34:24 | 92,4  | car, light van |
| 120 m. after sign  | 09:34:27 | 90,7  | car, light van |
| 120 m. before sign | 09:34:27 | 77,2  | Truck          |
| On sign            | 09:34:34 | 71,2  | Truck          |
| 120 m. after sign  | 09:34:38 | 74,5  | Truck          |
| 120 m. before sign | 09:34:46 | 71    | car, light van |
| 120 m. before sign | 09:34:48 | 77,5  | car, light van |
| 120 m. before sign | 09:34:49 | 71,6  | car, light van |
| On sign            | 09:34:54 | 65,8  | car, light van |
| On sign            | 09:34:55 | 64,7  | car, light van |
| On sign            | 09:34:56 | 61,7  | car, light van |
| 120 m. after sign  | 09:34:59 | 67    | car, light van |
| 120 m. after sign  | 09:35:00 | 64,9  | car, light van |
| 120 m. after sign  | 09:35:02 | 65,7  | car, light van |
| 120 m. before sign | 09:35:05 | 86,4  | car, light van |
| On sign            | 09:35:12 | 32,4  | car, light van |
| 120 m. after sign  | 09:35:21 | 35,8  | car, light van |
| 120 m. before sign | 09:35:49 | 85,2  | car, light van |
| 120 m. before sign | 09:35:50 | 83,6  | car, light van |
| On sign            | 09:35:55 | 79,3  | car, light van |
| On sign            | 09:35:57 | 70,9  | car, light van |
| 120 m. after sign  | 09:35:59 | 75,8  | car, light van |
| 120 m. after sign  | 09:36:01 | 73,1  | car, light van |
| 120 m. before sign | 09:36:21 | 97,1  | car, light van |
| On sign            | 09:36:26 | 97    | car, light van |
| 120 m. after sign  | 09:36:30 | 103,6 | car, light van |
| 120 m. before sign | 09:37:26 | 73,8  | car, light van |
| 120 m. before sign | 09:37:27 | 81    | car, light van |
| On sign            | 09:37:33 | 60,1  | car, light van |
| On sign            | 09:37:35 | 56,8  | car, light van |
| 120 m. after sign  | 09:37:39 | 66,1  | car, light van |
| 120 m. after sign  | 09:37:40 | 60    | car, light van |
| 120 m. before sign | 09:37:50 | 80,8  | Truck          |
| 120 m. before sign | 09:37:52 | 81,2  | car, light van |
| On sign            | 09:37:56 | 78,2  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:37:58 | 76,6  | car, light van |
| 120 m. before sign | 09:37:58 | 79    | Truck          |
| 120 m. before sign | 09:38:00 | 72,1  | car, light van |
| 120 m. after sign  | 09:38:01 | 82,1  | Truck          |
| 120 m. after sign  | 09:38:02 | 77,8  | Truck          |
| On sign            | 09:38:05 | 71,1  | Truck          |
| On sign            | 09:38:07 | 66,9  | car, light van |
| 120 m. after sign  | 09:38:09 | 73,8  | Truck          |
| 120 m. after sign  | 09:38:12 | 56,2  | car, light van |
| 120 m. before sign | 09:39:30 | 88,5  | car, light van |
| 120 m. before sign | 09:39:31 | 86,7  | car, light van |
| On sign            | 09:39:35 | 85,9  | car, light van |
| On sign            | 09:39:36 | 85    | car, light van |
| 120 m. after sign  | 09:39:39 | 85,1  | car, light van |
| 120 m. after sign  | 09:39:40 | 88,1  | car, light van |
| 120 m. before sign | 09:40:01 | 75,3  | car, light van |
| On sign            | 09:40:09 | 63,2  | car, light van |
| 120 m. after sign  | 09:40:14 | 55,2  | car, light van |
| 120 m. before sign | 09:41:00 | 96,7  | car, light van |
| 120 m. before sign | 09:41:04 | 80,3  | Truck          |
| On sign            | 09:41:05 | 95,5  | car, light van |
| 120 m. after sign  | 09:41:09 | 97,3  | car, light van |
| On sign            | 09:41:10 | 77,8  | Truck          |
| 120 m. after sign  | 09:41:15 | 76,4  | Truck          |
| 120 m. before sign | 09:41:31 | 84,1  | car, light van |
| On sign            | 09:41:37 | 81,5  | car, light van |
| 120 m. after sign  | 09:41:41 | 80    | car, light van |
| 120 m. before sign | 09:41:44 | 92    | car, light van |
| On sign            | 09:41:50 | 83,5  | car, light van |
| 120 m. after sign  | 09:41:54 | 82,6  | car, light van |
| 120 m. before sign | 09:42:21 | 108,6 | car, light van |
| On sign            | 09:42:25 | 97    | car, light van |
| 120 m. after sign  | 09:42:29 | 87,6  | car, light van |
| 120 m. before sign | 09:42:42 | 95,3  | car, light van |
| On sign            | 09:42:48 | 89,1  | car, light van |
| 120 m. after sign  | 09:42:51 | 89,3  | car, light van |
| 120 m. before sign | 09:43:52 | 78,4  | car, light van |
| 120 m. before sign | 09:43:56 | 82,1  | car, light van |
| 120 m. before sign | 09:43:57 | 81,9  | car, light van |
| 120 m. before sign | 09:43:58 | 82,2  | car, light van |
| On sign            | 09:43:59 | 72,4  | car, light van |
| On sign            | 09:44:02 | 74,7  | car, light van |
| On sign            | 09:44:03 | 77,1  | car, light van |
| 120 m. after sign  | 09:44:04 | 59,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:44:04 | 76,5  | car, light van |
| 120 m. before sign | 09:44:05 | 84    | car, light van |
| 120 m. after sign  | 09:44:06 | 69,3  | car, light van |
| 120 m. after sign  | 09:44:07 | 72,8  | car, light van |
| 120 m. after sign  | 09:44:08 | 71,1  | car, light van |
| On sign            | 09:44:12 | 66,3  | car, light van |
| 120 m. after sign  | 09:44:17 | 60,1  | car, light van |
| 120 m. before sign | 09:46:46 | 74,1  | car, light van |
| On sign            | 09:46:53 | 68,4  | car, light van |
| 120 m. after sign  | 09:46:58 | 66,8  | car, light van |
| 120 m. before sign | 09:47:18 | 67    | car, light van |
| 120 m. before sign | 09:47:21 | 71    | Truck          |
| 120 m. before sign | 09:47:24 | 71,4  | Truck          |
| On sign            | 09:47:25 | 67,6  | car, light van |
| 120 m. before sign | 09:47:26 | 69,7  | car, light van |
| 120 m. before sign | 09:47:27 | 66,6  | car, light van |
| On sign            | 09:47:28 | 64,8  | Truck          |
| 120 m. before sign | 09:47:28 | 67,8  | Truck          |
| 120 m. after sign  | 09:47:30 | 67,6  | car, light van |
| On sign            | 09:47:31 | 65,4  | Truck          |
| 120 m. after sign  | 09:47:33 | 69,4  | Truck          |
| On sign            | 09:47:33 | 65,3  | car, light van |
| On sign            | 09:47:35 | 62,9  | car, light van |
| 120 m. after sign  | 09:47:36 | 68    | Truck          |
| On sign            | 09:47:36 | 65    | Truck          |
| 120 m. after sign  | 09:47:38 | 56,5  | car, light van |
| 120 m. after sign  | 09:47:40 | 58,5  | car, light van |
| 120 m. after sign  | 09:47:41 | 56,9  | Truck          |
| 120 m. before sign | 09:47:55 | 82,2  | car, light van |
| 120 m. before sign | 09:48:01 | 84,4  | car, light van |
| On sign            | 09:48:02 | 72,7  | car, light van |
| 120 m. after sign  | 09:48:06 | 68,9  | car, light van |
| On sign            | 09:48:08 | 69,7  | car, light van |
| 120 m. after sign  | 09:48:12 | 75,7  | car, light van |
| 120 m. before sign | 09:48:22 | 101,5 | Truck          |
| On sign            | 09:48:27 | 93,1  | Truck          |
| 120 m. after sign  | 09:48:31 | 94,4  | Truck          |
| 120 m. before sign | 09:48:32 | 89,9  | Truck          |
| On sign            | 09:48:37 | 82,4  | Truck          |
| 120 m. after sign  | 09:48:41 | 84,5  | Truck          |
| 120 m. before sign | 09:48:51 | 59,4  | car, light van |
| On sign            | 09:48:59 | 59,9  | car, light van |
| 120 m. after sign  | 09:49:04 | 60,4  | car, light van |
| 120 m. before sign | 09:49:08 | 87    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 09:49:13 | 79,6  | car, light van |
| 120 m. after sign  | 09:49:17 | 79,7  | car, light van |
| 120 m. before sign | 09:49:38 | 92,2  | car, light van |
| 120 m. before sign | 09:49:39 | 91,8  | car, light van |
| On sign            | 09:49:44 | 91,2  | car, light van |
| On sign            | 09:49:45 | 88    | car, light van |
| 120 m. after sign  | 09:49:47 | 93,6  | car, light van |
| 120 m. before sign | 09:49:47 | 82,8  | car, light van |
| 120 m. after sign  | 09:49:48 | 88,7  | car, light van |
| On sign            | 09:49:53 | 75,6  | car, light van |
| 120 m. after sign  | 09:49:57 | 75,8  | car, light van |
| 120 m. before sign | 09:49:59 | 89,9  | car, light van |
| On sign            | 09:50:05 | 78,7  | car, light van |
| 120 m. after sign  | 09:50:09 | 72,7  | car, light van |
| 120 m. before sign | 09:50:27 | 89    | car, light van |
| On sign            | 09:50:33 | 85,9  | car, light van |
| 120 m. after sign  | 09:50:36 | 87,8  | car, light van |
| 120 m. before sign | 09:51:02 | 87,2  | car, light van |
| On sign            | 09:51:07 | 89,7  | car, light van |
| 120 m. after sign  | 09:51:10 | 91,4  | car, light van |
| 120 m. before sign | 09:51:11 | 66,4  | car, light van |
| On sign            | 09:51:19 | 61,6  | car, light van |
| 120 m. before sign | 09:51:19 | 74,3  | Truck          |
| 120 m. before sign | 09:51:23 | 69,3  | Truck          |
| 120 m. after sign  | 09:51:24 | 62,3  | car, light van |
| 120 m. before sign | 09:51:25 | 71,1  | car, light van |
| On sign            | 09:51:26 | 71,8  | Truck          |
| 120 m. before sign | 09:51:26 | 74,6  | car, light van |
| 120 m. after sign  | 09:51:30 | 73,2  | Truck          |
| On sign            | 09:51:30 | 67,9  | Truck          |
| On sign            | 09:51:32 | 66    | car, light van |
| On sign            | 09:51:34 | 63,8  | car, light van |
| 120 m. after sign  | 09:51:35 | 69,2  | Truck          |
| 120 m. before sign | 09:51:36 | 79,8  | car, light van |
| 120 m. after sign  | 09:51:37 | 68,3  | car, light van |
| 120 m. after sign  | 09:51:39 | 68,3  | car, light van |
| On sign            | 09:51:43 | 76,2  | car, light van |
| 120 m. after sign  | 09:51:47 | 75,1  | car, light van |
| 120 m. before sign | 09:52:21 | 80,4  | car, light van |
| 120 m. before sign | 09:52:26 | 83,7  | car, light van |
| On sign            | 09:52:29 | 54,9  | car, light van |
| On sign            | 09:52:33 | 71,9  | car, light van |
| 120 m. after sign  | 09:52:35 | 51,4  | car, light van |
| 120 m. after sign  | 09:52:37 | 67    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 09:52:47 | 62,2  | car, light van |
| On sign            | 09:52:55 | 63,1  | car, light van |
| 120 m. after sign  | 09:53:00 | 64,5  | car, light van |
| 120 m. before sign | 09:53:07 | 77,9  | car, light van |
| On sign            | 09:53:14 | 70,4  | car, light van |
| 120 m. before sign | 09:53:14 | 81,4  | car, light van |
| 120 m. after sign  | 09:53:19 | 69,9  | car, light van |
| On sign            | 09:53:20 | 67,8  | car, light van |
| 120 m. after sign  | 09:53:25 | 73,9  | car, light van |
| 120 m. before sign | 09:53:57 | 85,8  | Truck          |
| On sign            | 09:54:04 | 66,7  | Truck          |
| 120 m. before sign | 09:54:05 | 113,3 | car, light van |
| 120 m. before sign | 09:54:06 | 110,4 | car, light van |
| 120 m. after sign  | 09:54:08 | 71,1  | Truck          |
| On sign            | 09:54:10 | 96,8  | car, light van |
| On sign            | 09:54:10 | 93,5  | car, light van |
| 120 m. after sign  | 09:54:13 | 88,7  | car, light van |
| 120 m. after sign  | 09:54:14 | 71,8  | car, light van |
| 120 m. before sign | 09:54:17 | 101,6 | car, light van |
| On sign            | 09:54:21 | 98,2  | car, light van |
| 120 m. after sign  | 09:54:24 | 96,3  | car, light van |
| 120 m. before sign | 09:54:58 | 70,9  | car, light van |
| On sign            | 09:55:05 | 61,8  | car, light van |
| 120 m. before sign | 09:55:10 | 78,1  | car, light van |
| 120 m. after sign  | 09:55:11 | 63,3  | car, light van |
| On sign            | 09:55:17 | 74,7  | car, light van |
| 120 m. before sign | 09:55:18 | 87,8  | car, light van |
| 120 m. after sign  | 09:55:21 | 78,2  | car, light van |
| On sign            | 09:55:24 | 84,2  | car, light van |
| 120 m. after sign  | 09:55:27 | 88,4  | car, light van |
| 120 m. before sign | 09:55:34 | 87,9  | car, light van |
| 120 m. before sign | 09:55:35 | 90,7  | car, light van |
| 120 m. before sign | 09:55:38 | 90,1  | car, light van |
| On sign            | 09:55:40 | 78,8  | car, light van |
| On sign            | 09:55:42 | 68,2  | car, light van |
| 120 m. after sign  | 09:55:44 | 78,2  | car, light van |
| On sign            | 09:55:44 | 73,8  | car, light van |
| 120 m. after sign  | 09:55:46 | 68,1  | car, light van |
| 120 m. after sign  | 09:55:48 | 66,5  | car, light van |
| 120 m. before sign | 09:56:17 | 70,6  | car, light van |
| On sign            | 09:56:24 | 69,5  | car, light van |
| 120 m. after sign  | 09:56:29 | 70,8  | car, light van |
| 120 m. before sign | 09:57:06 | 74,8  | car, light van |
| 120 m. before sign | 09:57:07 | 83,1  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 09:57:11 | 92,5  | car, light van |
| On sign            | 09:57:13 | 68,2  | car, light van |
| On sign            | 09:57:13 | 68,1  | car, light van |
| On sign            | 09:57:16 | 86,8  | car, light van |
| 120 m. after sign  | 09:57:18 | 70,6  | car, light van |
| 120 m. after sign  | 09:57:20 | 85,1  | car, light van |
| 120 m. before sign | 09:57:56 | 88    | car, light van |
| On sign            | 09:58:02 | 81,3  | car, light van |
| 120 m. after sign  | 09:58:06 | 65,6  | car, light van |
| 120 m. before sign | 09:58:29 | 80,8  | Truck          |
| On sign            | 09:58:35 | 78,5  | Truck          |
| 120 m. after sign  | 09:58:40 | 78,9  | Truck          |
| 120 m. before sign | 09:58:44 | 83,9  | car, light van |
| On sign            | 09:58:51 | 60,6  | car, light van |
| 120 m. after sign  | 09:58:57 | 57,6  | car, light van |
| 120 m. before sign | 09:59:40 | 76,4  | Truck          |
| On sign            | 09:59:47 | 64,5  | Truck          |
| 120 m. after sign  | 09:59:52 | 62,3  | Truck          |
| 120 m. before sign | 10:00:20 | 74,5  | Truck          |
| 120 m. before sign | 10:00:22 | 71,9  | car, light van |
| 120 m. before sign | 10:00:23 | 72,3  | car, light van |
| On sign            | 10:00:27 | 68,7  | Truck          |
| On sign            | 10:00:29 | 70,6  | car, light van |
| On sign            | 10:00:30 | 70,8  | car, light van |
| 120 m. after sign  | 10:00:32 | 72,8  | Truck          |
| 120 m. after sign  | 10:00:33 | 72,1  | Truck          |
| 120 m. after sign  | 10:00:34 | 70,9  | car, light van |
| 120 m. before sign | 10:00:37 | 78,5  | Truck          |
| 120 m. before sign | 10:00:39 | 80,9  | car, light van |
| On sign            | 10:00:45 | 60,2  | Truck          |
| On sign            | 10:00:48 | 63    | car, light van |
| 120 m. after sign  | 10:00:50 | 66,6  | Truck          |
| 120 m. after sign  | 10:00:53 | 66,8  | car, light van |
| 120 m. before sign | 10:01:31 | 78,4  | car, light van |
| On sign            | 10:01:39 | 57,9  | car, light van |
| 120 m. after sign  | 10:01:45 | 59,8  | car, light van |
| 120 m. before sign | 10:02:05 | 87,9  | Truck          |
| On sign            | 10:02:11 | 76,3  | Truck          |
| 120 m. after sign  | 10:02:15 | 71,8  | Truck          |
| 120 m. before sign | 10:02:16 | 90,4  | car, light van |
| On sign            | 10:02:21 | 81,2  | car, light van |
| 120 m. after sign  | 10:02:25 | 77,6  | car, light van |
| 120 m. before sign | 10:02:33 | 80,3  | Truck          |
| 120 m. before sign | 10:02:35 | 78,7  | Truck          |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:02:39 | 73,8  | Truck          |
| On sign            | 10:02:41 | 74,1  | Truck          |
| 120 m. after sign  | 10:02:44 | 78,2  | Truck          |
| 120 m. after sign  | 10:02:46 | 73,3  | Truck          |
| 120 m. before sign | 10:03:27 | 93,4  | car, light van |
| 120 m. before sign | 10:03:32 | 92,8  | car, light van |
| On sign            | 10:03:33 | 82,4  | car, light van |
| 120 m. after sign  | 10:03:37 | 82,2  | car, light van |
| On sign            | 10:03:37 | 89,8  | car, light van |
| 120 m. after sign  | 10:03:41 | 83,1  | car, light van |
| 120 m. before sign | 10:04:36 | 67,9  | Truck          |
| On sign            | 10:04:44 | 67,1  | Truck          |
| 120 m. after sign  | 10:04:49 | 68,1  | Truck          |
| 120 m. before sign | 10:05:38 | 78,7  | car, light van |
| 120 m. before sign | 10:05:41 | 63,4  | Truck          |
| On sign            | 10:05:45 | 70,4  | car, light van |
| 120 m. before sign | 10:05:45 | 67,7  | car, light van |
| 120 m. before sign | 10:05:46 | 73,8  | car, light van |
| On sign            | 10:05:49 | 64,1  | Truck          |
| 120 m. after sign  | 10:05:50 | 69,1  | car, light van |
| On sign            | 10:05:53 | 62,7  | car, light van |
| 120 m. after sign  | 10:05:54 | 65,1  | Truck          |
| On sign            | 10:05:54 | 64,2  | car, light van |
| 120 m. before sign | 10:05:57 | 89,4  | car, light van |
| 120 m. after sign  | 10:05:58 | 62,6  | car, light van |
| 120 m. after sign  | 10:05:59 | 64,2  | car, light van |
| On sign            | 10:06:03 | 85,1  | car, light van |
| 120 m. after sign  | 10:06:07 | 75,1  | car, light van |
| 120 m. before sign | 10:06:08 | 74,2  | car, light van |
| 120 m. before sign | 10:06:11 | 77,2  | car, light van |
| 120 m. before sign | 10:06:12 | 80    | car, light van |
| 120 m. before sign | 10:06:13 | 74,4  | car, light van |
| On sign            | 10:06:15 | 68    | car, light van |
| On sign            | 10:06:17 | 65,1  | car, light van |
| 120 m. before sign | 10:06:17 | 83,6  | car, light van |
| 120 m. after sign  | 10:06:19 | 66    | car, light van |
| On sign            | 10:06:19 | 71,5  | car, light van |
| On sign            | 10:06:20 | 73,2  | car, light van |
| 120 m. after sign  | 10:06:22 | 63,5  | car, light van |
| 120 m. after sign  | 10:06:23 | 60,4  | car, light van |
| On sign            | 10:06:23 | 75,8  | car, light van |
| 120 m. after sign  | 10:06:24 | 61,1  | car, light van |
| 120 m. after sign  | 10:06:27 | 72,5  | car, light van |
| 120 m. before sign | 10:07:00 | 88,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:07:05 | 80,6  | car, light van |
| 120 m. after sign  | 10:07:10 | 76,7  | car, light van |
| 120 m. before sign | 10:07:11 | 89,4  | Truck          |
| On sign            | 10:07:17 | 70,4  | Truck          |
| 120 m. after sign  | 10:07:22 | 66,8  | Truck          |
| 120 m. before sign | 10:07:55 | 97,5  | car, light van |
| On sign            | 10:08:01 | 69,6  | car, light van |
| 120 m. after sign  | 10:08:05 | 76,5  | car, light van |
| 120 m. before sign | 10:09:01 | 77,8  | car, light van |
| On sign            | 10:09:07 | 76,4  | car, light van |
| 120 m. after sign  | 10:09:12 | 75,6  | car, light van |
| 120 m. before sign | 10:10:28 | 68    | car, light van |
| On sign            | 10:10:36 | 66,2  | car, light van |
| 120 m. after sign  | 10:10:41 | 65,2  | car, light van |
| 120 m. before sign | 10:11:03 | 24,1  | Truck          |
| 120 m. before sign | 10:11:07 | 23,1  | car, light van |
| 120 m. before sign | 10:11:08 | 20,6  | car, light van |
| 120 m. before sign | 10:11:13 | 24,7  | car, light van |
| 120 m. before sign | 10:11:15 | 22,1  | car, light van |
| On sign            | 10:11:22 | 40,3  | car, light van |
| On sign            | 10:11:23 | 55,2  | car, light van |
| 120 m. before sign | 10:11:25 | 28,3  | Truck          |
| On sign            | 10:11:26 | 30,6  | car, light van |
| On sign            | 10:11:27 | 30,8  | car, light van |
| On sign            | 10:11:29 | 29,4  | car, light van |
| On sign            | 10:11:32 | 30,8  | car, light van |
| 120 m. after sign  | 10:11:34 | 93,6  | car, light van |
| 120 m. after sign  | 10:11:37 | 29,3  | car, light van |
| 120 m. after sign  | 10:11:39 | 30,2  | car, light van |
| 120 m. after sign  | 10:11:41 | 31    | car, light van |
| On sign            | 10:11:43 | 29,4  | Truck          |
| 120 m. after sign  | 10:11:44 | 28,9  | car, light van |
| 120 m. before sign | 10:11:46 | 80,7  | car, light van |
| On sign            | 10:11:52 | 67    | car, light van |
| 120 m. after sign  | 10:11:55 | 28,6  | Truck          |
| 120 m. after sign  | 10:11:59 | 36,3  | car, light van |
| 120 m. before sign | 10:13:06 | 83,9  | car, light van |
| 120 m. before sign | 10:13:08 | 92,9  | car, light van |
| On sign            | 10:13:13 | 69,9  | car, light van |
| On sign            | 10:13:13 | 78,7  | car, light van |
| 120 m. after sign  | 10:13:17 | 68    | car, light van |
| 120 m. after sign  | 10:13:18 | 64,3  | car, light van |
| 120 m. before sign | 10:13:33 | 66,8  | Truck          |
| On sign            | 10:13:41 | 62,8  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:13:46 | 63,6  | Truck          |
| 120 m. before sign | 10:13:50 | 73,8  | car, light van |
| On sign            | 10:13:56 | 69,8  | Truck          |
| 120 m. before sign | 10:13:56 | 65,3  | car, light van |
| 120 m. after sign  | 10:14:01 | 74,5  | Truck          |
| On sign            | 10:14:04 | 61    | car, light van |
| 120 m. before sign | 10:14:06 | 71,7  | Truck          |
| 120 m. before sign | 10:14:07 | 67,4  | car, light van |
| 120 m. after sign  | 10:14:09 | 63,1  | car, light van |
| On sign            | 10:14:13 | 60,7  | Truck          |
| On sign            | 10:14:14 | 59,4  | car, light van |
| 120 m. after sign  | 10:14:19 | 56,5  | Truck          |
| 120 m. after sign  | 10:14:21 | 51,4  | car, light van |
| 120 m. before sign | 10:14:24 | 79,3  | Truck          |
| 120 m. before sign | 10:14:29 | 80,4  | Truck          |
| On sign            | 10:14:31 | 72,8  | Truck          |
| 120 m. before sign | 10:14:31 | 78,9  | car, light van |
| 120 m. after sign  | 10:14:35 | 68,1  | Truck          |
| On sign            | 10:14:35 | 74,4  | Truck          |
| 120 m. before sign | 10:14:35 | 77    | car, light van |
| On sign            | 10:14:37 | 71,7  | car, light van |
| 120 m. after sign  | 10:14:39 | 73    | Truck          |
| On sign            | 10:14:41 | 74,6  | car, light van |
| 120 m. after sign  | 10:14:42 | 65,4  | car, light van |
| 120 m. after sign  | 10:14:45 | 72,9  | car, light van |
| 120 m. before sign | 10:15:39 | 77,6  | car, light van |
| 120 m. before sign | 10:15:40 | 71,3  | car, light van |
| 120 m. before sign | 10:15:42 | 68    | Truck          |
| On sign            | 10:15:45 | 73,2  | Truck          |
| On sign            | 10:15:47 | 70,8  | car, light van |
| 120 m. before sign | 10:15:47 | 72,9  | Truck          |
| 120 m. before sign | 10:15:48 | 74,9  | car, light van |
| On sign            | 10:15:49 | 69,1  | Truck          |
| 120 m. after sign  | 10:15:50 | 76,6  | Truck          |
| 120 m. after sign  | 10:15:52 | 68,9  | car, light van |
| 120 m. after sign  | 10:15:54 | 69,6  | Truck          |
| On sign            | 10:15:54 | 67,2  | Truck          |
| On sign            | 10:15:56 | 62,2  | car, light van |
| 120 m. after sign  | 10:15:59 | 68,5  | Truck          |
| 120 m. after sign  | 10:16:01 | 65    | car, light van |
| 120 m. before sign | 10:16:34 | 94    | car, light van |
| On sign            | 10:16:39 | 87,3  | car, light van |
| 120 m. after sign  | 10:16:43 | 86,3  | Truck          |
| 120 m. before sign | 10:16:48 | 54,8  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 10:16:49 | 53,8  | car, light van |
| On sign            | 10:16:58 | 50,5  | Truck          |
| On sign            | 10:16:59 | 48,5  | car, light van |
| 120 m. before sign | 10:17:00 | 92    | car, light van |
| 120 m. before sign | 10:17:03 | 69,2  | car, light van |
| 120 m. after sign  | 10:17:05 | 41,8  | Truck          |
| 120 m. after sign  | 10:17:06 | 46,6  | car, light van |
| On sign            | 10:17:06 | 81,7  | car, light van |
| 120 m. before sign | 10:17:06 | 70,6  | Truck          |
| 120 m. after sign  | 10:17:10 | 63,2  | car, light van |
| On sign            | 10:17:11 | 64,4  | car, light van |
| On sign            | 10:17:14 | 60,3  | Truck          |
| 120 m. after sign  | 10:17:16 | 67,5  | car, light van |
| 120 m. after sign  | 10:17:20 | 51,5  | Truck          |
| 120 m. before sign | 10:17:55 | 71,8  | car, light van |
| On sign            | 10:18:01 | 75,9  | car, light van |
| 120 m. before sign | 10:18:04 | 87,1  | Truck          |
| 120 m. after sign  | 10:18:05 | 76,2  | car, light van |
| On sign            | 10:18:09 | 86,4  | Truck          |
| 120 m. after sign  | 10:18:13 | 86,4  | Truck          |
| 120 m. before sign | 10:18:15 | 78    | car, light van |
| On sign            | 10:18:22 | 64,8  | car, light van |
| 120 m. after sign  | 10:18:27 | 68,1  | car, light van |
| 120 m. before sign | 10:18:45 | 78,1  | car, light van |
| On sign            | 10:18:53 | 55,2  | car, light van |
| 120 m. after sign  | 10:18:59 | 51,6  | car, light van |
| 120 m. before sign | 10:19:03 | 73,7  | Truck          |
| On sign            | 10:19:10 | 71,4  | Truck          |
| 120 m. after sign  | 10:19:14 | 72,3  | Truck          |
| 120 m. before sign | 10:19:37 | 75,7  | car, light van |
| On sign            | 10:19:44 | 66,7  | car, light van |
| 120 m. after sign  | 10:19:49 | 72    | car, light van |
| 120 m. before sign | 10:20:19 | 73,2  | car, light van |
| On sign            | 10:20:26 | 64,9  | car, light van |
| 120 m. after sign  | 10:20:30 | 69,6  | car, light van |
| 120 m. before sign | 10:20:30 | 68,1  | car, light van |
| 120 m. before sign | 10:20:31 | 71,3  | car, light van |
| On sign            | 10:20:38 | 60,2  | car, light van |
| On sign            | 10:20:39 | 52,9  | Truck          |
| 120 m. after sign  | 10:20:43 | 66,2  | car, light van |
| 120 m. after sign  | 10:20:45 | 54,2  | Truck          |
| 120 m. before sign | 10:20:50 | 64,1  | car, light van |
| On sign            | 10:20:58 | 63,2  | car, light van |
| 120 m. after sign  | 10:21:03 | 59,9  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 10:22:02 | 73,4  | car, light van |
| 120 m. before sign | 10:22:03 | 74,2  | car, light van |
| On sign            | 10:22:09 | 67,7  | car, light van |
| On sign            | 10:22:10 | 65,9  | car, light van |
| 120 m. before sign | 10:22:13 | 80,8  | car, light van |
| 120 m. after sign  | 10:22:14 | 68,4  | car, light van |
| 120 m. after sign  | 10:22:16 | 50,7  | car, light van |
| On sign            | 10:22:20 | 71,1  | car, light van |
| 120 m. after sign  | 10:22:24 | 69    | car, light van |
| 120 m. before sign | 10:22:34 | 66,5  | car, light van |
| 120 m. before sign | 10:22:36 | 69,7  | car, light van |
| 120 m. before sign | 10:22:40 | 74,5  | Truck          |
| On sign            | 10:22:42 | 62,6  | car, light van |
| On sign            | 10:22:43 | 64,3  | car, light van |
| 120 m. before sign | 10:22:45 | 85,7  | car, light van |
| On sign            | 10:22:46 | 69,8  | Truck          |
| 120 m. after sign  | 10:22:47 | 64,8  | car, light van |
| 120 m. after sign  | 10:22:48 | 65,6  | car, light van |
| 120 m. after sign  | 10:22:51 | 71    | Truck          |
| On sign            | 10:22:51 | 77,7  | car, light van |
| 120 m. after sign  | 10:22:55 | 76,7  | car, light van |
| 120 m. before sign | 10:24:12 | 83,3  | BUS            |
| On sign            | 10:24:18 | 82,4  | BUS            |
| 120 m. before sign | 10:24:19 | 90,6  | car, light van |
| 120 m. after sign  | 10:24:22 | 81,4  | BUS            |
| On sign            | 10:24:24 | 85,9  | car, light van |
| 120 m. after sign  | 10:24:28 | 87,8  | car, light van |
| 120 m. before sign | 10:24:40 | 90    | car, light van |
| On sign            | 10:24:46 | 58,4  | car, light van |
| 120 m. before sign | 10:24:48 | 78,4  | Truck          |
| 120 m. after sign  | 10:24:52 | 61,9  | car, light van |
| On sign            | 10:24:54 | 81,1  | Truck          |
| 120 m. before sign | 10:24:56 | 98,4  | car, light van |
| 120 m. after sign  | 10:24:58 | 80,2  | Truck          |
| On sign            | 10:25:01 | 90,9  | car, light van |
| 120 m. after sign  | 10:25:04 | 86,8  | car, light van |
| 120 m. before sign | 10:27:06 | 83,7  | car, light van |
| 120 m. before sign | 10:27:10 | 76,1  | car, light van |
| 120 m. before sign | 10:27:11 | 74,4  | car, light van |
| On sign            | 10:27:13 | 68,5  | car, light van |
| 120 m. before sign | 10:27:13 | 73,6  | car, light van |
| 120 m. before sign | 10:27:14 | 72,8  | car, light van |
| On sign            | 10:27:17 | 64,7  | car, light van |
| On sign            | 10:27:18 | 66    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:27:19 | 42,5  | car, light van |
| On sign            | 10:27:20 | 67,3  | car, light van |
| On sign            | 10:27:21 | 68,2  | car, light van |
| 120 m. after sign  | 10:27:22 | 54,5  | car, light van |
| 120 m. after sign  | 10:27:24 | 51,5  | car, light van |
| 120 m. after sign  | 10:27:25 | 54,3  | car, light van |
| 120 m. after sign  | 10:27:26 | 56,6  | car, light van |
| 120 m. before sign | 10:27:29 | 74,2  | car, light van |
| On sign            | 10:27:36 | 67,4  | car, light van |
| 120 m. before sign | 10:27:39 | 74,5  | car, light van |
| 120 m. after sign  | 10:27:41 | 50,7  | car, light van |
| On sign            | 10:27:46 | 59,5  | car, light van |
| 120 m. after sign  | 10:27:52 | 64,3  | car, light van |
| 120 m. before sign | 10:28:24 | 93,9  | car, light van |
| On sign            | 10:28:29 | 80,2  | car, light van |
| 120 m. before sign | 10:28:33 | 82    | Truck          |
| 120 m. after sign  | 10:28:34 | 47,5  | car, light van |
| On sign            | 10:28:40 | 75,7  | Truck          |
| 120 m. after sign  | 10:28:44 | 77,6  | Truck          |
| 120 m. before sign | 10:29:43 | 42,4  | Truck          |
| On sign            | 10:29:55 | 42,9  | Truck          |
| 120 m. before sign | 10:29:55 | 65,4  | Truck          |
| 120 m. after sign  | 10:30:02 | 42,4  | car, light van |
| 120 m. after sign  | 10:30:03 | 42,5  | car, light van |
| On sign            | 10:30:04 | 59,5  | Truck          |
| 120 m. after sign  | 10:30:09 | 48,2  | car, light van |
| 120 m. before sign | 10:30:25 | 74,2  | BUS            |
| 120 m. before sign | 10:30:25 | 73    | car, light van |
| 120 m. before sign | 10:30:28 | 77,8  | car, light van |
| On sign            | 10:30:32 | 72,2  | Truck          |
| 120 m. after sign  | 10:30:36 | 73,9  | Truck          |
| On sign            | 10:30:36 | 69,2  | car, light van |
| 120 m. after sign  | 10:30:40 | 70,4  | car, light van |
| 120 m. before sign | 10:31:08 | 80    | Truck          |
| On sign            | 10:31:14 | 73,2  | Truck          |
| 120 m. after sign  | 10:31:18 | 79,4  | Truck          |
| 120 m. before sign | 10:31:25 | 121,5 | car, light van |
| On sign            | 10:31:29 | 110,8 | car, light van |
| 120 m. after sign  | 10:31:32 | 109,4 | car, light van |
| 120 m. before sign | 10:31:33 | 86,7  | car, light van |
| On sign            | 10:31:39 | 77,5  | car, light van |
| 120 m. before sign | 10:31:39 | 90,7  | car, light van |
| 120 m. after sign  | 10:31:43 | 79,2  | car, light van |
| On sign            | 10:31:44 | 88    | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:31:48 | 84,2  | car, light van |
| 120 m. before sign | 10:31:58 | 85,2  | car, light van |
| On sign            | 10:32:04 | 55,6  | car, light van |
| 120 m. before sign | 10:32:06 | 90,6  | car, light van |
| 120 m. after sign  | 10:32:10 | 50,8  | car, light van |
| On sign            | 10:32:11 | 70,8  | car, light van |
| 120 m. after sign  | 10:32:15 | 80    | car, light van |
| 120 m. before sign | 10:32:15 | 107,7 | car, light van |
| On sign            | 10:32:19 | 97,6  | car, light van |
| 120 m. after sign  | 10:32:22 | 102   | car, light van |
| 120 m. before sign | 10:33:20 | 70,9  | Truck          |
| On sign            | 10:33:27 | 64,2  | Truck          |
| 120 m. after sign  | 10:33:32 | 68,3  | Truck          |
| 120 m. before sign | 10:33:39 | 93,8  | car, light van |
| On sign            | 10:33:44 | 93,7  | car, light van |
| 120 m. after sign  | 10:33:47 | 90,8  | car, light van |
| 120 m. before sign | 10:33:49 | 80,5  | BUS            |
| On sign            | 10:33:56 | 68,3  | BUS            |
| 120 m. after sign  | 10:34:01 | 66,9  | BUS            |
| 120 m. before sign | 10:34:21 | 98,5  | car, light van |
| 120 m. before sign | 10:34:23 | 83,3  | Truck          |
| 120 m. before sign | 10:34:26 | 80,4  | car, light van |
| On sign            | 10:34:27 | 62,3  | car, light van |
| On sign            | 10:34:29 | 72,2  | Truck          |
| 120 m. after sign  | 10:34:32 | 67,7  | car, light van |
| On sign            | 10:34:32 | 72,9  | car, light van |
| 120 m. after sign  | 10:34:34 | 69,4  | Truck          |
| 120 m. after sign  | 10:34:37 | 67,6  | car, light van |
| 120 m. before sign | 10:34:37 | 76,6  | car, light van |
| On sign            | 10:34:44 | 63,5  | car, light van |
| 120 m. after sign  | 10:34:50 | 52,2  | car, light van |
| 120 m. before sign | 10:34:57 | 66,5  | car, light van |
| On sign            | 10:35:05 | 48,7  | car, light van |
| 120 m. after sign  | 10:35:12 | 50,7  | car, light van |
| 120 m. before sign | 10:35:29 | 93,3  | car, light van |
| On sign            | 10:35:34 | 87,1  | car, light van |
| 120 m. after sign  | 10:35:38 | 90    | car, light van |
| 120 m. before sign | 10:35:45 | 74,1  | Truck          |
| 120 m. before sign | 10:35:47 | 68,3  | car, light van |
| 120 m. before sign | 10:35:51 | 73,9  | car, light van |
| On sign            | 10:35:52 | 69,5  | Truck          |
| On sign            | 10:35:55 | 65,5  | car, light van |
| 120 m. before sign | 10:35:55 | 87,6  | car, light van |
| 120 m. after sign  | 10:35:57 | 75,4  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:35:58 | 62    | car, light van |
| 120 m. after sign  | 10:36:00 | 69,1  | car, light van |
| On sign            | 10:36:01 | 73,8  | car, light van |
| 120 m. after sign  | 10:36:04 | 54,9  | car, light van |
| 120 m. after sign  | 10:36:06 | 54,1  | car, light van |
| 120 m. before sign | 10:36:29 | 96,5  | car, light van |
| On sign            | 10:36:33 | 94,6  | car, light van |
| 120 m. after sign  | 10:36:37 | 99,4  | car, light van |
| 120 m. before sign | 10:37:39 | 112,7 | car, light van |
| On sign            | 10:37:44 | 80,9  | car, light van |
| 120 m. after sign  | 10:37:48 | 80,2  | car, light van |
| 120 m. before sign | 10:37:56 | 86,2  | car, light van |
| On sign            | 10:38:02 | 84,7  | car, light van |
| 120 m. after sign  | 10:38:05 | 82,3  | car, light van |
| 120 m. before sign | 10:38:50 | 77,2  | car, light van |
| On sign            | 10:38:57 | 63,2  | car, light van |
| 120 m. after sign  | 10:39:03 | 49,4  | car, light van |
| 120 m. before sign | 10:39:10 | 84    | Truck          |
| 120 m. before sign | 10:39:13 | 73,7  | car, light van |
| On sign            | 10:39:16 | 80,8  | Truck          |
| 120 m. before sign | 10:39:16 | 69,9  | car, light van |
| 120 m. before sign | 10:39:18 | 72,3  | car, light van |
| 120 m. after sign  | 10:39:20 | 77    | Truck          |
| On sign            | 10:39:20 | 67,7  | car, light van |
| On sign            | 10:39:23 | 64,8  | car, light van |
| 120 m. after sign  | 10:39:24 | 75,4  | car, light van |
| On sign            | 10:39:25 | 67,8  | car, light van |
| 120 m. after sign  | 10:39:28 | 48,6  | car, light van |
| 120 m. before sign | 10:39:28 | 112,2 | car, light van |
| 120 m. after sign  | 10:39:30 | 53    | car, light van |
| On sign            | 10:39:33 | 94,9  | car, light van |
| 120 m. after sign  | 10:39:36 | 78,8  | car, light van |
| 120 m. before sign | 10:39:39 | 92,1  | Truck          |
| On sign            | 10:39:44 | 86    | Truck          |
| 120 m. after sign  | 10:39:48 | 89,3  | Truck          |
| 120 m. before sign | 10:39:50 | 85    | car, light van |
| On sign            | 10:39:56 | 80,5  | car, light van |
| 120 m. after sign  | 10:40:00 | 79,7  | car, light van |
| 120 m. before sign | 10:40:36 | 94,8  | car, light van |
| On sign            | 10:40:42 | 82,6  | car, light van |
| 120 m. before sign | 10:40:44 | 75,1  | car, light van |
| 120 m. after sign  | 10:40:46 | 66,2  | car, light van |
| 120 m. before sign | 10:40:49 | 76,8  | car, light van |
| On sign            | 10:40:50 | 70,4  | car, light van |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:40:55 | 64,8  | car, light van |
| On sign            | 10:40:55 | 74,2  | car, light van |
| 120 m. after sign  | 10:41:00 | 70,5  | car, light van |
| 120 m. before sign | 10:41:14 | 74,5  | car, light van |
| 120 m. before sign | 10:41:15 | 74,9  | car, light van |
| 120 m. before sign | 10:41:16 | 76,4  | Truck          |
| 120 m. before sign | 10:41:18 | 77,6  | car, light van |
| On sign            | 10:41:22 | 48,9  | car, light van |
| On sign            | 10:41:22 | 51,4  | car, light van |
| On sign            | 10:41:24 | 49    | Truck          |
| On sign            | 10:41:26 | 47,7  | car, light van |
| 120 m. after sign  | 10:41:28 | 63,8  | car, light van |
| 120 m. before sign | 10:41:28 | 76,4  | car, light van |
| 120 m. after sign  | 10:41:30 | 31,8  | car, light van |
| 120 m. after sign  | 10:41:30 | 54,8  | Truck          |
| 120 m. before sign | 10:41:31 | 72,9  | car, light van |
| 120 m. after sign  | 10:41:32 | 55,3  | car, light van |
| On sign            | 10:41:34 | 70,4  | car, light van |
| On sign            | 10:41:38 | 63,8  | car, light van |
| 120 m. after sign  | 10:41:39 | 65,3  | car, light van |
| 120 m. after sign  | 10:41:43 | 62,5  | car, light van |
| 120 m. before sign | 10:43:13 | 102   | car, light van |
| On sign            | 10:43:17 | 94,6  | car, light van |
| 120 m. before sign | 10:43:20 | 87,7  | car, light van |
| 120 m. after sign  | 10:43:21 | 93,3  | car, light van |
| 120 m. before sign | 10:43:21 | 87,9  | car, light van |
| On sign            | 10:43:26 | 73,4  | car, light van |
| On sign            | 10:43:27 | 72,6  | car, light van |
| 120 m. before sign | 10:43:28 | 75,3  | car, light van |
| 120 m. after sign  | 10:43:30 | 74,6  | car, light van |
| 120 m. after sign  | 10:43:32 | 76,4  | car, light van |
| On sign            | 10:43:35 | 64,8  | car, light van |
| 120 m. before sign | 10:43:35 | 87,3  | car, light van |
| 120 m. after sign  | 10:43:40 | 66,8  | car, light van |
| On sign            | 10:43:41 | 78,9  | car, light van |
| 120 m. after sign  | 10:43:45 | 82,1  | car, light van |
| 120 m. before sign | 10:44:41 | 100,7 | car, light van |
| On sign            | 10:44:46 | 100,2 | car, light van |
| 120 m. after sign  | 10:44:49 | 98,7  | car, light van |
| 120 m. before sign | 10:45:14 | 126,4 | car, light van |
| On sign            | 10:45:18 | 115,7 | car, light van |
| 120 m. after sign  | 10:45:21 | 117,5 | Truck          |
| 120 m. before sign | 10:45:37 | 85,1  | car, light van |
| On sign            | 10:45:43 | 80,3  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:45:47 | 80,6  | car, light van |
| 120 m. before sign | 10:45:48 | 109,4 | car, light van |
| On sign            | 10:45:52 | 91,5  | car, light van |
| 120 m. after sign  | 10:45:56 | 88,9  | car, light van |
| 120 m. before sign | 10:46:34 | 76,7  | car, light van |
| 120 m. before sign | 10:46:36 | 106,2 | car, light van |
| On sign            | 10:46:41 | 70,5  | car, light van |
| On sign            | 10:46:42 | 76,5  | car, light van |
| 120 m. after sign  | 10:46:45 | 70    | car, light van |
| 120 m. after sign  | 10:46:46 | 69,1  | car, light van |
| 120 m. before sign | 10:46:55 | 106,8 | car, light van |
| On sign            | 10:46:59 | 88,7  | car, light van |
| 120 m. after sign  | 10:47:03 | 94,1  | car, light van |
| 120 m. before sign | 10:47:31 | 68,3  | Truck          |
| 120 m. before sign | 10:47:33 | 65,2  | car, light van |
| 120 m. before sign | 10:47:35 | 64,4  | Truck          |
| On sign            | 10:47:39 | 61,5  | Truck          |
| On sign            | 10:47:41 | 63    | car, light van |
| On sign            | 10:47:43 | 55,4  | Truck          |
| 120 m. after sign  | 10:47:45 | 63,8  | Truck          |
| 120 m. after sign  | 10:47:46 | 63,3  | car, light van |
| 120 m. after sign  | 10:47:49 | 55,9  | Truck          |
| 120 m. before sign | 10:48:12 | 80,2  | Truck          |
| On sign            | 10:48:19 | 65,9  | Truck          |
| On sign            | 10:48:21 | 67,5  | car, light van |
| 120 m. after sign  | 10:48:24 | 68,6  | Truck          |
| 120 m. after sign  | 10:48:26 | 67,1  | car, light van |
| 120 m. before sign | 10:48:32 | 91,1  | car, light van |
| On sign            | 10:48:38 | 65,7  | car, light van |
| 120 m. after sign  | 10:48:43 | 71,6  | car, light van |
| 120 m. before sign | 10:49:24 | 111,2 | car, light van |
| On sign            | 10:49:29 | 106   | car, light van |
| 120 m. after sign  | 10:49:31 | 108,7 | car, light van |
| 120 m. before sign | 10:49:39 | 67,2  | car, light van |
| On sign            | 10:49:47 | 58,9  | car, light van |
| 120 m. after sign  | 10:49:52 | 64,5  | car, light van |
| 120 m. before sign | 10:50:18 | 81,1  | car, light van |
| On sign            | 10:50:24 | 71,6  | car, light van |
| 120 m. before sign | 10:50:27 | 87,6  | car, light van |
| 120 m. before sign | 10:50:28 | 82,9  | car, light van |
| 120 m. after sign  | 10:50:29 | 56    | car, light van |
| On sign            | 10:50:32 | 83,6  | car, light van |
| On sign            | 10:50:34 | 80,1  | car, light van |
| 120 m. after sign  | 10:50:36 | 71,1  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 10:50:38 | 74,9  | car, light van |
| 120 m. before sign | 10:50:59 | 75,5  | Truck          |
| On sign            | 10:51:06 | 73,8  | Truck          |
| 120 m. after sign  | 10:51:10 | 65,9  | Truck          |
| 120 m. before sign | 10:51:19 | 96,2  | car, light van |
| 120 m. before sign | 10:51:21 | 96,7  | car, light van |
| 120 m. before sign | 10:51:23 | 91,1  | car, light van |
| On sign            | 10:51:24 | 93,3  | car, light van |
| On sign            | 10:51:26 | 88    | car, light van |
| 120 m. after sign  | 10:51:28 | 90,3  | car, light van |
| On sign            | 10:51:28 | 87,8  | car, light van |
| 120 m. after sign  | 10:51:30 | 82,2  | car, light van |
| 120 m. after sign  | 10:51:32 | 86    | car, light van |
| 120 m. before sign | 10:52:31 | 71,8  | car, light van |
| 120 m. before sign | 10:52:32 | 71,5  | car, light van |
| On sign            | 10:52:38 | 66,5  | car, light van |
| On sign            | 10:52:40 | 60,7  | car, light van |
| 120 m. after sign  | 10:52:43 | 72,1  | car, light van |
| 120 m. after sign  | 10:52:45 | 63,7  | car, light van |
| 120 m. before sign | 10:53:08 | 71,8  | car, light van |
| 120 m. before sign | 10:53:15 | 70,3  | Truck          |
| On sign            | 10:53:16 | 63,2  | car, light van |
| 120 m. before sign | 10:53:17 | 78,1  | car, light van |
| 120 m. after sign  | 10:53:21 | 64,4  | car, light van |
| On sign            | 10:53:22 | 66,1  | Truck          |
| On sign            | 10:53:24 | 70,6  | car, light van |
| 120 m. after sign  | 10:53:27 | 68,7  | Truck          |
| 120 m. after sign  | 10:53:29 | 69    | car, light van |
| 120 m. before sign | 10:54:49 | 76,4  | car, light van |
| 120 m. before sign | 10:54:50 | 76,2  | car, light van |
| 120 m. before sign | 10:54:53 | 86,5  | car, light van |
| On sign            | 10:54:56 | 64,9  | car, light van |
| On sign            | 10:54:57 | 61    | car, light van |
| On sign            | 10:54:59 | 74,4  | car, light van |
| 120 m. after sign  | 10:55:01 | 68,1  | car, light van |
| 120 m. after sign  | 10:55:02 | 61,4  | car, light van |
| 120 m. after sign  | 10:55:04 | 62,2  | car, light van |
| 120 m. before sign | 10:55:26 | 67,7  | car, light van |
| On sign            | 10:55:34 | 61,3  | car, light van |
| 120 m. after sign  | 10:55:39 | 67,7  | car, light van |
| 120 m. before sign | 10:56:07 | 81,3  | car, light van |
| On sign            | 10:56:14 | 65,2  | car, light van |
| 120 m. after sign  | 10:56:19 | 56,1  | car, light van |
| 120 m. before sign | 10:56:22 | 83,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 10:56:28 | 70,8  | car, light van |
| 120 m. after sign  | 10:56:33 | 62,2  | car, light van |
| 120 m. before sign | 10:57:13 | 94,7  | car, light van |
| On sign            | 10:57:18 | 82,5  | car, light van |
| 120 m. before sign | 10:57:21 | 90,4  | car, light van |
| 120 m. after sign  | 10:57:22 | 79,2  | car, light van |
| On sign            | 10:57:26 | 80    | car, light van |
| 120 m. after sign  | 10:57:31 | 56,5  | car, light van |
| 120 m. before sign | 10:57:32 | 91,5  | car, light van |
| 120 m. before sign | 10:57:33 | 90,5  | car, light van |
| 120 m. before sign | 10:57:35 | 87,9  | car, light van |
| On sign            | 10:57:37 | 78,7  | car, light van |
| On sign            | 10:57:38 | 80,5  | car, light van |
| 120 m. after sign  | 10:57:41 | 74,1  | car, light van |
| On sign            | 10:57:41 | 77,6  | car, light van |
| 120 m. after sign  | 10:57:43 | 74,2  | car, light van |
| 120 m. after sign  | 10:57:45 | 74,5  | car, light van |
| 120 m. before sign | 10:58:41 | 94,7  | car, light van |
| On sign            | 10:58:46 | 80,1  | car, light van |
| 120 m. after sign  | 10:58:51 | 73,8  | car, light van |
| 120 m. before sign | 10:59:01 | 84,7  | car, light van |
| On sign            | 10:59:07 | 77,4  | car, light van |
| 120 m. after sign  | 10:59:12 | 48,3  | car, light van |
| 120 m. before sign | 10:59:41 | 88,7  | car, light van |
| On sign            | 10:59:48 | 72    | car, light van |
| 120 m. before sign | 10:59:48 | 85,2  | car, light van |
| 120 m. after sign  | 10:59:53 | 49,8  | car, light van |
| On sign            | 10:59:53 | 85,5  | car, light van |
| 120 m. after sign  | 10:59:57 | 87,6  | car, light van |
| 120 m. before sign | 11:00:01 | 67,7  | car, light van |
| 120 m. before sign | 11:00:03 | 73,7  | car, light van |
| On sign            | 11:00:08 | 61,8  | car, light van |
| On sign            | 11:00:10 | 64,4  | car, light van |
| 120 m. after sign  | 11:00:14 | 61,8  | car, light van |
| 120 m. before sign | 11:00:14 | 77,4  | car, light van |
| 120 m. after sign  | 11:00:15 | 58,2  | car, light van |
| 120 m. before sign | 11:00:19 | 80,6  | car, light van |
| On sign            | 11:00:22 | 60,6  | car, light van |
| 120 m. before sign | 11:00:22 | 80,5  | Truck          |
| 120 m. before sign | 11:00:23 | 75    | car, light van |
| On sign            | 11:00:26 | 72,6  | car, light van |
| 120 m. after sign  | 11:00:27 | 62,5  | car, light van |
| On sign            | 11:00:28 | 77,8  | Truck          |
| On sign            | 11:00:29 | 77,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:00:30 | 71,1  | Truck          |
| 120 m. after sign  | 11:00:32 | 74,6  | Truck          |
| 120 m. after sign  | 11:00:33 | 75    | car, light van |
| 120 m. before sign | 11:01:21 | 75,1  | Truck          |
| 120 m. before sign | 11:01:24 | 66,5  | Truck          |
| On sign            | 11:01:28 | 74,6  | Truck          |
| 120 m. after sign  | 11:01:32 | 77,6  | Truck          |
| On sign            | 11:01:32 | 57,7  | Truck          |
| 120 m. after sign  | 11:01:38 | 65,6  | Truck          |
| 120 m. before sign | 11:02:08 | 70,9  | Truck          |
| 120 m. before sign | 11:02:11 | 71,2  | car, light van |
| On sign            | 11:02:15 | 74    | Truck          |
| On sign            | 11:02:18 | 70,2  | car, light van |
| 120 m. after sign  | 11:02:19 | 74,2  | Truck          |
| On sign            | 11:02:20 | 65    | car, light van |
| 120 m. after sign  | 11:02:24 | 57,6  | car, light van |
| 120 m. after sign  | 11:02:25 | 61,8  | car, light van |
| 120 m. before sign | 11:02:35 | 81,3  | car, light van |
| On sign            | 11:02:41 | 78,5  | car, light van |
| 120 m. after sign  | 11:02:45 | 78,7  | car, light van |
| 120 m. before sign | 11:02:48 | 82,9  | car, light van |
| 120 m. before sign | 11:02:49 | 82,4  | car, light van |
| On sign            | 11:02:55 | 62    | car, light van |
| On sign            | 11:02:55 | 59,4  | car, light van |
| 120 m. before sign | 11:02:59 | 80,5  | Truck          |
| 120 m. after sign  | 11:03:00 | 51,7  | car, light van |
| 120 m. after sign  | 11:03:00 | 71    | car, light van |
| On sign            | 11:03:05 | 77,7  | Truck          |
| 120 m. after sign  | 11:03:09 | 67,6  | Truck          |
| 120 m. before sign | 11:04:10 | 74,4  | car, light van |
| On sign            | 11:04:17 | 63,8  | car, light van |
| 120 m. after sign  | 11:04:22 | 61    | car, light van |
| 120 m. before sign | 11:04:34 | 78,6  | car, light van |
| On sign            | 11:04:41 | 64,1  | car, light van |
| 120 m. after sign  | 11:04:47 | 51,5  | car, light van |
| 120 m. before sign | 11:04:48 | 61,4  | car, light van |
| 120 m. before sign | 11:04:50 | 83,2  | Truck          |
| On sign            | 11:04:56 | 63,5  | car, light van |
| On sign            | 11:04:57 | 66,9  | Truck          |
| 120 m. after sign  | 11:05:01 | 65,4  | car, light van |
| 120 m. after sign  | 11:05:02 | 64    | Truck          |
| 120 m. before sign | 11:05:06 | 68,3  | car, light van |
| On sign            | 11:05:14 | 65    | car, light van |
| 120 m. after sign  | 11:05:19 | 68,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 11:05:21 | 77,5  | car, light van |
| On sign            | 11:05:27 | 70,3  | car, light van |
| 120 m. before sign | 11:05:27 | 80,5  | car, light van |
| 120 m. after sign  | 11:05:32 | 75,1  | car, light van |
| On sign            | 11:05:33 | 76,2  | car, light van |
| 120 m. after sign  | 11:05:37 | 77,3  | car, light van |
| 120 m. before sign | 11:05:44 | 81,2  | Truck          |
| On sign            | 11:05:50 | 76,7  | Truck          |
| 120 m. after sign  | 11:05:54 | 79,8  | Truck          |
| 120 m. before sign | 11:06:05 | 68    | car, light van |
| 120 m. before sign | 11:06:07 | 70,2  | Truck          |
| On sign            | 11:06:12 | 68,5  | car, light van |
| On sign            | 11:06:15 | 62,7  | Truck          |
| 120 m. after sign  | 11:06:17 | 70,9  | car, light van |
| 120 m. after sign  | 11:06:20 | 61,9  | Truck          |
| 120 m. before sign | 11:06:50 | 72,1  | car, light van |
| On sign            | 11:06:56 | 71    | car, light van |
| 120 m. after sign  | 11:07:01 | 72,2  | car, light van |
| 120 m. before sign | 11:07:14 | 69,1  | BUS            |
| 120 m. before sign | 11:07:19 | 61,9  | car, light van |
| On sign            | 11:07:21 | 64,6  | BUS            |
| 120 m. before sign | 11:07:22 | 74,2  | car, light van |
| 120 m. after sign  | 11:07:26 | 64,3  | BUS            |
| On sign            | 11:07:27 | 59,4  | car, light van |
| On sign            | 11:07:29 | 62,7  | car, light van |
| 120 m. after sign  | 11:07:33 | 51    | car, light van |
| 120 m. after sign  | 11:07:35 | 54,4  | car, light van |
| 120 m. before sign | 11:08:52 | 76,2  | Truck          |
| 120 m. before sign | 11:08:56 | 80,8  | Truck          |
| 120 m. before sign | 11:08:58 | 77,6  | Truck          |
| On sign            | 11:08:59 | 72,8  | Truck          |
| 120 m. before sign | 11:09:00 | 80,7  | car, light van |
| On sign            | 11:09:02 | 73,6  | Truck          |
| 120 m. after sign  | 11:09:03 | 75,4  | Truck          |
| On sign            | 11:09:04 | 71,8  | Truck          |
| On sign            | 11:09:06 | 70    | car, light van |
| 120 m. after sign  | 11:09:07 | 72,2  | Truck          |
| 120 m. after sign  | 11:09:09 | 67,3  | Truck          |
| 120 m. after sign  | 11:09:11 | 67,5  | car, light van |
| 120 m. before sign | 11:10:10 | 74,1  | Truck          |
| 120 m. before sign | 11:10:13 | 68,2  | BUS            |
| 120 m. before sign | 11:10:15 | 66,7  | Truck          |
| On sign            | 11:10:17 | 66,1  | Truck          |
| 120 m. before sign | 11:10:17 | 67,4  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 11:10:19 | 65,3  | Truck          |
| On sign            | 11:10:20 | 65,6  | BUS            |
| 120 m. before sign | 11:10:21 | 67,6  | car, light van |
| 120 m. after sign  | 11:10:22 | 69,2  | Truck          |
| On sign            | 11:10:22 | 64    | Truck          |
| 120 m. before sign | 11:10:23 | 62,9  | car, light van |
| On sign            | 11:10:24 | 65,6  | car, light van |
| 120 m. after sign  | 11:10:25 | 67,7  | BUS            |
| On sign            | 11:10:25 | 64,6  | car, light van |
| 120 m. before sign | 11:10:26 | 61,7  | car, light van |
| 120 m. after sign  | 11:10:27 | 67,2  | Truck          |
| On sign            | 11:10:27 | 65,7  | Truck          |
| 120 m. after sign  | 11:10:29 | 65,6  | car, light van |
| 120 m. after sign  | 11:10:30 | 65    | car, light van |
| On sign            | 11:10:31 | 61    | car, light van |
| 120 m. after sign  | 11:10:32 | 68,3  | Truck          |
| 120 m. after sign  | 11:10:34 | 69,9  | car, light van |
| On sign            | 11:10:34 | 61,8  | car, light van |
| 120 m. after sign  | 11:10:36 | 68,5  | car, light van |
| 120 m. after sign  | 11:10:39 | 59,8  | car, light van |
| 120 m. before sign | 11:11:06 | 84,8  | car, light van |
| 120 m. before sign | 11:11:09 | 103,1 | car, light van |
| On sign            | 11:11:12 | 71,3  | car, light van |
| On sign            | 11:11:14 | 75,3  | car, light van |
| 120 m. after sign  | 11:11:17 | 58,4  | car, light van |
| 120 m. after sign  | 11:11:19 | 56,8  | car, light van |
| 120 m. before sign | 11:11:56 | 72,6  | car, light van |
| On sign            | 11:12:03 | 69,2  | car, light van |
| 120 m. after sign  | 11:12:08 | 63,4  | car, light van |
| 120 m. before sign | 11:12:08 | 80,6  | car, light van |
| On sign            | 11:12:13 | 87,4  | car, light van |
| 120 m. after sign  | 11:12:16 | 92,5  | car, light van |
| 120 m. before sign | 11:12:50 | 95,6  | car, light van |
| On sign            | 11:12:55 | 77,4  | car, light van |
| 120 m. after sign  | 11:13:00 | 74    | car, light van |
| 120 m. before sign | 11:13:16 | 111,5 | car, light van |
| On sign            | 11:13:20 | 109   | car, light van |
| 120 m. before sign | 11:13:22 | 74,6  | car, light van |
| 120 m. after sign  | 11:13:23 | 114,3 | car, light van |
| On sign            | 11:13:28 | 72,6  | car, light van |
| 120 m. after sign  | 11:13:32 | 77,4  | car, light van |
| 120 m. before sign | 11:14:06 | 101,3 | car, light van |
| 120 m. before sign | 11:14:09 | 76,4  | car, light van |
| On sign            | 11:14:11 | 92,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:14:15 | 97,1  | car, light van |
| On sign            | 11:14:16 | 73,6  | car, light van |
| 120 m. after sign  | 11:14:20 | 74    | car, light van |
| 120 m. before sign | 11:14:43 | 80,9  | car, light van |
| On sign            | 11:14:50 | 68,7  | car, light van |
| 120 m. before sign | 11:14:54 | 86,6  | Truck          |
| 120 m. after sign  | 11:14:55 | 48,1  | car, light van |
| On sign            | 11:15:00 | 77,7  | Truck          |
| 120 m. after sign  | 11:15:04 | 78,9  | Truck          |
| 120 m. before sign | 11:15:19 | 90,6  | car, light van |
| On sign            | 11:15:25 | 86,8  | car, light van |
| 120 m. after sign  | 11:15:28 | 84,8  | car, light van |
| 120 m. before sign | 11:16:12 | 82,5  | car, light van |
| 120 m. before sign | 11:16:14 | 78,7  | car, light van |
| On sign            | 11:16:18 | 71,8  | car, light van |
| 120 m. before sign | 11:16:20 | 96,1  | car, light van |
| On sign            | 11:16:21 | 61,4  | car, light van |
| 120 m. after sign  | 11:16:23 | 66,7  | car, light van |
| On sign            | 11:16:25 | 95,8  | car, light van |
| 120 m. after sign  | 11:16:26 | 64,3  | car, light van |
| 120 m. after sign  | 11:16:29 | 80,2  | car, light van |
| 120 m. before sign | 11:16:34 | 94,9  | car, light van |
| On sign            | 11:16:39 | 96,7  | car, light van |
| 120 m. after sign  | 11:16:42 | 98,5  | car, light van |
| 120 m. before sign | 11:16:42 | 95,5  | car, light van |
| On sign            | 11:16:47 | 88,6  | car, light van |
| 120 m. after sign  | 11:16:50 | 83,8  | car, light van |
| 120 m. before sign | 11:17:39 | 76,6  | car, light van |
| On sign            | 11:17:45 | 76    | car, light van |
| 120 m. after sign  | 11:17:50 | 74,8  | car, light van |
| 120 m. before sign | 11:18:02 | 82,7  | car, light van |
| On sign            | 11:18:08 | 76,8  | car, light van |
| 120 m. after sign  | 11:18:12 | 87,2  | car, light van |
| 120 m. before sign | 11:18:51 | 101   | Truck          |
| 120 m. before sign | 11:18:53 | 96,1  | car, light van |
| On sign            | 11:18:55 | 100,1 | Truck          |
| 120 m. after sign  | 11:18:58 | 102,5 | Truck          |
| On sign            | 11:18:58 | 101,2 | car, light van |
| 120 m. after sign  | 11:19:01 | 101,7 | car, light van |
| 120 m. before sign | 11:19:06 | 73,6  | car, light van |
| On sign            | 11:19:14 | 39,1  | car, light van |
| 120 m. before sign | 11:19:18 | 79,5  | Truck          |
| 120 m. after sign  | 11:19:22 | 45,5  | car, light van |
| On sign            | 11:19:24 | 75,5  | Truck          |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:19:28 | 77,1  | car, light van |
| 120 m. after sign  | 11:19:28 | 77,1  | car, light van |
| 120 m. before sign | 11:19:32 | 85,1  | BUS            |
| 120 m. before sign | 11:19:34 | 79    | car, light van |
| On sign            | 11:19:38 | 87,4  | BUS            |
| On sign            | 11:19:39 | 82,6  | car, light van |
| 120 m. after sign  | 11:19:42 | 88,3  | BUS            |
| 120 m. after sign  | 11:19:43 | 85,6  | car, light van |
| 120 m. before sign | 11:20:19 | 77,8  | Truck          |
| On sign            | 11:20:25 | 76,6  | Truck          |
| 120 m. after sign  | 11:20:29 | 75,8  | Truck          |
| 120 m. before sign | 11:20:40 | 81,1  | car, light van |
| On sign            | 11:20:47 | 75,4  | car, light van |
| 120 m. after sign  | 11:20:51 | 74,5  | car, light van |
| 120 m. before sign | 11:21:05 | 76,6  | Truck          |
| On sign            | 11:21:11 | 77,2  | Truck          |
| 120 m. before sign | 11:21:11 | 79,9  | Truck          |
| 120 m. after sign  | 11:21:15 | 79,1  | Truck          |
| 120 m. before sign | 11:21:15 | 78,5  | car, light van |
| On sign            | 11:21:17 | 73,3  | car, light van |
| On sign            | 11:21:17 | 73,3  | car, light van |
| On sign            | 11:21:21 | 71,4  | car, light van |
| 120 m. after sign  | 11:21:22 | 74,2  | Truck          |
| 120 m. after sign  | 11:21:26 | 68,5  | car, light van |
| 120 m. before sign | 11:21:44 | 115,8 | car, light van |
| On sign            | 11:21:48 | 101,5 | car, light van |
| 120 m. after sign  | 11:21:51 | 93,9  | car, light van |
| 120 m. before sign | 11:22:45 | 83,8  | Truck          |
| On sign            | 11:22:51 | 73,1  | Truck          |
| 120 m. after sign  | 11:22:56 | 73    | Truck          |
| 120 m. before sign | 11:23:32 | 76,7  | car, light van |
| 120 m. before sign | 11:23:34 | 77,7  | car, light van |
| 120 m. before sign | 11:23:35 | 76,7  | car, light van |
| On sign            | 11:23:39 | 79,5  | car, light van |
| On sign            | 11:23:40 | 68,8  | car, light van |
| On sign            | 11:23:42 | 66,7  | car, light van |
| 120 m. before sign | 11:23:42 | 93    | car, light van |
| 120 m. after sign  | 11:23:44 | 73    | car, light van |
| 120 m. after sign  | 11:23:45 | 73,9  | car, light van |
| 120 m. after sign  | 11:23:47 | 56,2  | car, light van |
| On sign            | 11:23:49 | 60,8  | car, light van |
| 120 m. after sign  | 11:23:54 | 64    | car, light van |
| 120 m. before sign | 11:25:26 | 66,2  | car, light van |
| On sign            | 11:25:34 | 57,9  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 11:25:34 | 83,1  | car, light van |
| 120 m. after sign  | 11:25:40 | 57,1  | car, light van |
| On sign            | 11:25:41 | 75,1  | car, light van |
| 120 m. after sign  | 11:25:45 | 77,8  | car, light van |
| 120 m. before sign | 11:25:55 | 89,4  | car, light van |
| 120 m. before sign | 11:25:58 | 85,4  | car, light van |
| On sign            | 11:26:01 | 82    | car, light van |
| On sign            | 11:26:04 | 78,5  | car, light van |
| 120 m. after sign  | 11:26:05 | 75,6  | car, light van |
| 120 m. after sign  | 11:26:08 | 73,6  | car, light van |
| 120 m. before sign | 11:26:19 | 58,5  | car, light van |
| 120 m. before sign | 11:26:21 | 57,1  | car, light van |
| On sign            | 11:26:28 | 59,4  | car, light van |
| On sign            | 11:26:30 | 59,2  | car, light van |
| 120 m. before sign | 11:26:32 | 105,4 | Truck          |
| 120 m. after sign  | 11:26:33 | 60,2  | Truck          |
| 120 m. after sign  | 11:26:36 | 53,5  | car, light van |
| On sign            | 11:26:37 | 63,6  | car, light van |
| 120 m. after sign  | 11:26:40 | 88,7  | Truck          |
| 120 m. before sign | 11:26:51 | 113,6 | car, light van |
| On sign            | 11:26:56 | 89,2  | car, light van |
| 120 m. after sign  | 11:27:00 | 84,4  | car, light van |
| 120 m. before sign | 11:27:37 | 65,3  | car, light van |
| On sign            | 11:27:44 | 67,1  | car, light van |
| 120 m. before sign | 11:27:48 | 103,9 | car, light van |
| 120 m. after sign  | 11:27:49 | 68,8  | car, light van |
| On sign            | 11:27:53 | 98,3  | car, light van |
| 120 m. before sign | 11:27:54 | 82    | BUS            |
| 120 m. after sign  | 11:27:56 | 96,5  | car, light van |
| On sign            | 11:28:00 | 81,1  | BUS            |
| 120 m. after sign  | 11:28:04 | 65,8  | BUS            |
| 120 m. before sign | 11:28:11 | 90,5  | car, light van |
| 120 m. before sign | 11:28:15 | 84,9  | car, light van |
| On sign            | 11:28:16 | 87,9  | car, light van |
| 120 m. after sign  | 11:28:20 | 86,3  | car, light van |
| On sign            | 11:28:21 | 82,9  | Truck          |
| 120 m. after sign  | 11:28:24 | 85,8  | car, light van |
| 120 m. before sign | 11:28:56 | 71,9  | Truck          |
| 120 m. before sign | 11:28:58 | 73,5  | car, light van |
| On sign            | 11:29:04 | 60,3  | Truck          |
| On sign            | 11:29:06 | 57,3  | car, light van |
| 120 m. after sign  | 11:29:09 | 60,8  | Truck          |
| 120 m. after sign  | 11:29:12 | 61,8  | car, light van |
| 120 m. before sign | 11:29:44 | 92,7  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 11:29:49 | 86,2  | Truck          |
| 120 m. after sign  | 11:29:53 | 86,8  | Truck          |
| 120 m. before sign | 11:30:58 | 73,9  | car, light van |
| On sign            | 11:31:04 | 70,8  | car, light van |
| 120 m. after sign  | 11:31:09 | 68,3  | car, light van |
| 120 m. before sign | 11:31:47 | 75,1  | car, light van |
| On sign            | 11:31:54 | 67,1  | car, light van |
| 120 m. after sign  | 11:31:59 | 69,6  | car, light van |
| 120 m. before sign | 11:32:08 | 72,2  | Truck          |
| On sign            | 11:32:15 | 70,7  | Truck          |
| 120 m. before sign | 11:32:17 | 75,4  | Truck          |
| 120 m. after sign  | 11:32:20 | 73,8  | Truck          |
| On sign            | 11:32:24 | 74,9  | Truck          |
| 120 m. before sign | 11:32:25 | 67,1  | car, light van |
| 120 m. after sign  | 11:32:28 | 75,1  | Truck          |
| On sign            | 11:32:33 | 56,5  | car, light van |
| 120 m. after sign  | 11:32:40 | 38    | car, light van |
| 120 m. before sign | 11:33:02 | 71,9  | Truck          |
| 120 m. before sign | 11:33:04 | 71,6  | car, light van |
| On sign            | 11:33:09 | 68    | Truck          |
| On sign            | 11:33:11 | 69,1  | car, light van |
| 120 m. after sign  | 11:33:14 | 70,6  | Truck          |
| 120 m. after sign  | 11:33:15 | 66    | car, light van |
| 120 m. before sign | 11:33:41 | 86,1  | car, light van |
| 120 m. before sign | 11:33:43 | 100,9 | car, light van |
| On sign            | 11:33:47 | 73,1  | car, light van |
| On sign            | 11:33:48 | 81,8  | car, light van |
| 120 m. after sign  | 11:33:51 | 77,8  | car, light van |
| 120 m. after sign  | 11:33:52 | 76    | car, light van |
| 120 m. before sign | 11:33:58 | 96,9  | car, light van |
| 120 m. before sign | 11:33:59 | 90,8  | car, light van |
| 120 m. before sign | 11:34:00 | 90,4  | car, light van |
| On sign            | 11:34:03 | 97,4  | car, light van |
| On sign            | 11:34:05 | 78,1  | car, light van |
| 120 m. after sign  | 11:34:06 | 96,3  | car, light van |
| On sign            | 11:34:06 | 76    | car, light van |
| 120 m. after sign  | 11:34:09 | 72,6  | car, light van |
| 120 m. after sign  | 11:34:10 | 68,6  | car, light van |
| 120 m. before sign | 11:34:44 | 102,5 | car, light van |
| On sign            | 11:34:49 | 106,2 | car, light van |
| 120 m. after sign  | 11:34:52 | 86    | car, light van |
| 120 m. before sign | 11:35:13 | 95,5  | car, light van |
| On sign            | 11:35:18 | 81,3  | car, light van |
| 120 m. before sign | 11:35:18 | 85,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:35:22 | 86,9  | car, light van |
| On sign            | 11:35:24 | 66,8  | car, light van |
| 120 m. after sign  | 11:35:29 | 65,3  | car, light van |
| 120 m. before sign | 11:35:29 | 78,1  | car, light van |
| On sign            | 11:35:36 | 66,7  | car, light van |
| 120 m. after sign  | 11:35:40 | 70    | car, light van |
| 120 m. before sign | 11:35:41 | 108,8 | car, light van |
| On sign            | 11:35:45 | 105,9 | car, light van |
| 120 m. after sign  | 11:35:48 | 107,6 | car, light van |
| 120 m. before sign | 11:35:51 | 93,6  | car, light van |
| On sign            | 11:35:57 | 83,6  | car, light van |
| 120 m. after sign  | 11:36:01 | 80,7  | car, light van |
| 120 m. before sign | 11:36:05 | 109,5 | car, light van |
| On sign            | 11:36:10 | 84,9  | car, light van |
| 120 m. after sign  | 11:36:14 | 88,4  | car, light van |
| 120 m. before sign | 11:36:18 | 96,7  | car, light van |
| 120 m. before sign | 11:36:20 | 91,6  | car, light van |
| On sign            | 11:36:22 | 95,3  | car, light van |
| 120 m. after sign  | 11:36:25 | 99,5  | car, light van |
| On sign            | 11:36:25 | 94    | car, light van |
| 120 m. after sign  | 11:36:29 | 95,8  | car, light van |
| 120 m. before sign | 11:36:44 | 82,8  | car, light van |
| On sign            | 11:36:50 | 81,7  | car, light van |
| 120 m. after sign  | 11:36:54 | 94,5  | car, light van |
| 120 m. before sign | 11:37:33 | 65,2  | car, light van |
| 120 m. before sign | 11:37:33 | 63,3  | car, light van |
| On sign            | 11:37:41 | 52,8  | car, light van |
| 120 m. before sign | 11:37:41 | 91,9  | car, light van |
| On sign            | 11:37:42 | 51,5  | car, light van |
| On sign            | 11:37:47 | 60,9  | car, light van |
| 120 m. after sign  | 11:37:48 | 52,2  | car, light van |
| 120 m. after sign  | 11:37:49 | 50,1  | car, light van |
| 120 m. after sign  | 11:37:52 | 66    | car, light van |
| 120 m. before sign | 11:37:59 | 85,6  | car, light van |
| 120 m. before sign | 11:38:00 | 83,1  | car, light van |
| 120 m. before sign | 11:38:00 | 79,8  | car, light van |
| On sign            | 11:38:05 | 78,4  | car, light van |
| On sign            | 11:38:06 | 79,6  | car, light van |
| On sign            | 11:38:07 | 76,7  | car, light van |
| 120 m. after sign  | 11:38:09 | 78,2  | car, light van |
| 120 m. after sign  | 11:38:10 | 80,5  | car, light van |
| 120 m. after sign  | 11:38:11 | 79,1  | car, light van |
| 120 m. before sign | 11:38:37 | 98,2  | car, light van |
| On sign            | 11:38:42 | 89,9  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:38:46 | 62,9  | car, light van |
| 120 m. before sign | 11:39:03 | 84,2  | car, light van |
| On sign            | 11:39:09 | 72,4  | car, light van |
| 120 m. after sign  | 11:39:13 | 84,5  | car, light van |
| 120 m. before sign | 11:39:20 | 95,3  | Truck          |
| On sign            | 11:39:25 | 91,8  | Truck          |
| 120 m. after sign  | 11:39:28 | 90,6  | Truck          |
| 120 m. before sign | 11:39:56 | 77    | Truck          |
| On sign            | 11:40:02 | 75    | Truck          |
| 120 m. after sign  | 11:40:06 | 78,9  | Truck          |
| 120 m. before sign | 11:40:29 | 75,9  | BUS            |
| On sign            | 11:40:36 | 74,6  | BUS            |
| 120 m. after sign  | 11:40:40 | 75,6  | BUS            |
| 120 m. before sign | 11:40:46 | 74    | car, light van |
| On sign            | 11:40:52 | 71,1  | car, light van |
| 120 m. before sign | 11:40:56 | 82,1  | car, light van |
| 120 m. after sign  | 11:40:57 | 71,9  | car, light van |
| 120 m. before sign | 11:40:59 | 85,5  | car, light van |
| On sign            | 11:41:02 | 82,2  | car, light van |
| On sign            | 11:41:05 | 79,3  | car, light van |
| 120 m. after sign  | 11:41:06 | 79,8  | car, light van |
| 120 m. after sign  | 11:41:09 | 75,4  | car, light van |
| 120 m. before sign | 11:41:13 | 84,2  | car, light van |
| On sign            | 11:41:19 | 74,5  | car, light van |
| 120 m. after sign  | 11:41:24 | 71,5  | car, light van |
| 120 m. before sign | 11:42:26 | 93    | car, light van |
| 120 m. before sign | 11:42:28 | 87,3  | car, light van |
| On sign            | 11:42:32 | 86,3  | car, light van |
| On sign            | 11:42:33 | 89,7  | car, light van |
| 120 m. after sign  | 11:42:35 | 90,2  | car, light van |
| 120 m. after sign  | 11:42:37 | 90,8  | car, light van |
| 120 m. before sign | 11:43:11 | 77,3  | car, light van |
| On sign            | 11:43:18 | 68,5  | car, light van |
| 120 m. before sign | 11:43:21 | 65,7  | car, light van |
| 120 m. after sign  | 11:43:23 | 69,8  | car, light van |
| 120 m. before sign | 11:43:27 | 85    | car, light van |
| On sign            | 11:43:28 | 67,8  | car, light van |
| 120 m. before sign | 11:43:28 | 84,3  | car, light van |
| 120 m. before sign | 11:43:30 | 73,5  | car, light van |
| On sign            | 11:43:32 | 85,2  | car, light van |
| 120 m. after sign  | 11:43:33 | 68,2  | car, light van |
| On sign            | 11:43:34 | 84,4  | car, light van |
| 120 m. after sign  | 11:43:36 | 84,9  | car, light van |
| 120 m. after sign  | 11:43:37 | 82,9  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 11:43:37 | 60,4  | car, light van |
| 120 m. before sign | 11:43:41 | 77,8  | car, light van |
| 120 m. after sign  | 11:43:42 | 62,1  | car, light van |
| On sign            | 11:43:49 | 58,5  | car, light van |
| 120 m. before sign | 11:43:51 | 84,6  | car, light van |
| 120 m. after sign  | 11:43:55 | 51,5  | car, light van |
| On sign            | 11:43:57 | 69,2  | car, light van |
| 120 m. after sign  | 11:44:02 | 68,8  | car, light van |
| 120 m. before sign | 11:44:05 | 78    | Truck          |
| 120 m. before sign | 11:44:07 | 79,6  | car, light van |
| On sign            | 11:44:12 | 68,7  | Truck          |
| 120 m. before sign | 11:44:12 | 89,9  | Truck          |
| On sign            | 11:44:14 | 54,8  | car, light van |
| 120 m. after sign  | 11:44:17 | 71,9  | Truck          |
| On sign            | 11:44:18 | 75,2  | Truck          |
| 120 m. before sign | 11:44:18 | 79,9  | car, light van |
| 120 m. after sign  | 11:44:20 | 56    | car, light van |
| 120 m. after sign  | 11:44:22 | 70,6  | Truck          |
| On sign            | 11:44:24 | 74,2  | car, light van |
| 120 m. after sign  | 11:44:29 | 70,2  | car, light van |
| 120 m. before sign | 11:44:39 | 99,5  | car, light van |
| On sign            | 11:44:43 | 96,8  | car, light van |
| 120 m. after sign  | 11:44:46 | 99,6  | car, light van |
| 120 m. before sign | 11:45:36 | 73,9  | car, light van |
| On sign            | 11:45:43 | 68    | car, light van |
| 120 m. after sign  | 11:45:48 | 70    | car, light van |
| 120 m. before sign | 11:45:52 | 80,2  | Truck          |
| On sign            | 11:45:59 | 70,5  | car, light van |
| 120 m. before sign | 11:46:01 | 78,3  | Truck          |
| 120 m. after sign  | 11:46:03 | 69    | Truck          |
| 120 m. before sign | 11:46:07 | 89,1  | car, light van |
| On sign            | 11:46:08 | 72,2  | Truck          |
| 120 m. before sign | 11:46:11 | 86,5  | car, light van |
| 120 m. after sign  | 11:46:12 | 63,4  | Truck          |
| On sign            | 11:46:13 | 70,5  | car, light van |
| On sign            | 11:46:17 | 79    | car, light van |
| 120 m. after sign  | 11:46:18 | 67,2  | car, light van |
| 120 m. after sign  | 11:46:21 | 74,5  | car, light van |
| 120 m. before sign | 11:46:22 | 101   | Truck          |
| On sign            | 11:46:28 | 68,6  | Truck          |
| 120 m. before sign | 11:46:29 | 78,2  | Truck          |
| 120 m. before sign | 11:46:30 | 72,9  | car, light van |
| 120 m. after sign  | 11:46:32 | 76,2  | Truck          |
| On sign            | 11:46:35 | 71,1  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 11:46:37 | 64    | car, light van |
| 120 m. after sign  | 11:46:40 | 65,4  | Truck          |
| 120 m. after sign  | 11:46:42 | 65,7  | car, light van |
| 120 m. before sign | 11:47:10 | 68,9  | car, light van |
| On sign            | 11:47:17 | 67,4  | car, light van |
| 120 m. before sign | 11:47:19 | 72,7  | car, light van |
| 120 m. after sign  | 11:47:22 | 64,9  | car, light van |
| 120 m. before sign | 11:47:26 | 71,9  | car, light van |
| On sign            | 11:47:27 | 61,7  | car, light van |
| 120 m. before sign | 11:47:27 | 72,3  | car, light van |
| 120 m. before sign | 11:47:28 | 72,3  | car, light van |
| 120 m. after sign  | 11:47:32 | 65,2  | car, light van |
| On sign            | 11:47:34 | 59,4  | car, light van |
| 120 m. after sign  | 11:47:40 | 60    | car, light van |
| 120 m. after sign  | 11:47:41 | 62,3  | car, light van |
| 120 m. after sign  | 11:47:42 | 61,4  | car, light van |
| 120 m. before sign | 11:47:55 | 69,4  | car, light van |
| On sign            | 11:48:03 | 57,6  | car, light van |
| On sign            | 11:48:08 | 62,1  | Truck          |
| 120 m. after sign  | 11:48:09 | 43,5  | car, light van |
| 120 m. after sign  | 11:48:14 | 42,9  | Truck          |
| 120 m. before sign | 11:48:21 | 85,2  | car, light van |
| 120 m. before sign | 11:48:24 | 77,9  | car, light van |
| 120 m. before sign | 11:48:26 | 81,9  | car, light van |
| On sign            | 11:48:27 | 65,6  | car, light van |
| On sign            | 11:48:30 | 69,6  | car, light van |
| 120 m. after sign  | 11:48:32 | 52,3  | car, light van |
| On sign            | 11:48:32 | 72,5  | car, light van |
| 120 m. before sign | 11:48:34 | 85,7  | car, light van |
| 120 m. before sign | 11:48:34 | 82,3  | car, light van |
| 120 m. after sign  | 11:48:35 | 59,9  | car, light van |
| 120 m. after sign  | 11:48:37 | 60,9  | car, light van |
| 120 m. before sign | 11:48:37 | 85,9  | car, light van |
| On sign            | 11:48:39 | 85,8  | car, light van |
| On sign            | 11:48:40 | 75,9  | car, light van |
| On sign            | 11:48:42 | 83,4  | car, light van |
| 120 m. after sign  | 11:48:43 | 87    | car, light van |
| 120 m. after sign  | 11:48:44 | 83,5  | car, light van |
| 120 m. after sign  | 11:48:46 | 82    | car, light van |
| 120 m. before sign | 11:49:12 | 99    | car, light van |
| On sign            | 11:49:17 | 84,4  | car, light van |
| 120 m. after sign  | 11:49:21 | 80,9  | car, light van |
| 120 m. before sign | 11:49:33 | 90,3  | Truck          |
| On sign            | 11:49:38 | 69,9  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 11:49:43 | 69,3  | Truck          |
| 120 m. before sign | 11:50:06 | 78,7  | Truck          |
| 120 m. before sign | 11:50:08 | 87,9  | car, light van |
| On sign            | 11:50:13 | 58,1  | Truck          |
| 120 m. before sign | 11:50:13 | 79,3  | BUS            |
| On sign            | 11:50:15 | 60    | car, light van |
| 120 m. after sign  | 11:50:19 | 61,7  | Truck          |
| On sign            | 11:50:19 | 80,4  | BUS            |
| 120 m. after sign  | 11:50:20 | 58,4  | car, light van |
| 120 m. after sign  | 11:50:23 | 82    | BUS            |
| 120 m. before sign | 11:50:52 | 66,1  | car, light van |
| On sign            | 11:51:00 | 59,9  | car, light van |
| 120 m. after sign  | 11:51:06 | 63    | car, light van |
| 120 m. before sign | 11:51:27 | 67,4  | car, light van |
| On sign            | 11:51:34 | 64,1  | car, light van |
| 120 m. after sign  | 11:51:40 | 48,2  | car, light van |
| 120 m. before sign | 11:52:32 | 76,3  | car, light van |
| On sign            | 11:52:39 | 71,4  | car, light van |
| 120 m. before sign | 11:52:40 | 89,7  | car, light van |
| 120 m. after sign  | 11:52:43 | 76,8  | car, light van |
| On sign            | 11:52:45 | 84,6  | car, light van |
| 120 m. after sign  | 11:52:49 | 88,4  | car, light van |
| 120 m. before sign | 11:53:10 | 105,7 | car, light van |
| 120 m. before sign | 11:53:12 | 74,9  | car, light van |
| On sign            | 11:53:18 | 58    | car, light van |
| On sign            | 11:53:20 | 59,9  | car, light van |
| 120 m. after sign  | 11:53:24 | 57,2  | car, light van |
| 120 m. after sign  | 11:53:26 | 47,8  | car, light van |
| 120 m. before sign | 11:53:26 | 71    | car, light van |
| 120 m. before sign | 11:53:29 | 65,2  | car, light van |
| On sign            | 11:53:33 | 65,3  | car, light van |
| On sign            | 11:53:37 | 62,4  | car, light van |
| 120 m. after sign  | 11:53:38 | 66    | car, light van |
| 120 m. after sign  | 11:53:42 | 61    | car, light van |
| 120 m. before sign | 11:53:50 | 65,2  | car, light van |
| On sign            | 11:53:58 | 62,7  | car, light van |
| 120 m. after sign  | 11:54:03 | 61    | car, light van |
| 120 m. before sign | 11:54:03 | 70,3  | car, light van |
| 120 m. before sign | 11:54:05 | 70,7  | car, light van |
| On sign            | 11:54:10 | 71,7  | car, light van |
| On sign            | 11:54:12 | 66,7  | car, light van |
| 120 m. after sign  | 11:54:15 | 76,2  | car, light van |
| 120 m. after sign  | 11:54:16 | 73    | car, light van |
| 120 m. before sign | 11:54:53 | 78,2  | car, light van |



## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 11:55:00 | 78,6  | car, light van |
| 120 m. after sign  | 11:55:03 | 89,2  | car, light van |
| 120 m. before sign | 11:55:21 | 86,1  | Truck          |
| On sign            | 11:55:27 | 81,9  | Truck          |
| 120 m. after sign  | 11:55:31 | 81,8  | Truck          |
| 120 m. before sign | 11:56:18 | 68,3  | car, light van |
| On sign            | 11:56:25 | 66,9  | car, light van |
| 120 m. before sign | 11:56:27 | 79,7  | car, light van |
| 120 m. after sign  | 11:56:30 | 66,5  | car, light van |
| 120 m. before sign | 11:56:31 | 78,3  | Truck          |
| On sign            | 11:56:33 | 71,7  | car, light van |
| 120 m. before sign | 11:56:33 | 75,6  | car, light van |
| 120 m. before sign | 11:56:36 | 72,7  | car, light van |
| On sign            | 11:56:37 | 78,1  | Truck          |
| 120 m. after sign  | 11:56:38 | 76,5  | car, light van |
| On sign            | 11:56:40 | 72,3  | car, light van |
| 120 m. after sign  | 11:56:42 | 77,3  | Truck          |
| On sign            | 11:56:43 | 66,4  | car, light van |
| 120 m. after sign  | 11:56:44 | 69,3  | car, light van |
| 120 m. after sign  | 11:56:47 | 70    | car, light van |
| 120 m. before sign | 11:57:27 | 94,6  | car, light van |
| On sign            | 11:57:33 | 84,7  | car, light van |
| 120 m. after sign  | 11:57:36 | 85,3  | car, light van |
| 120 m. before sign | 11:57:52 | 80,9  | Truck          |
| On sign            | 11:57:58 | 75,1  | Truck          |
| 120 m. before sign | 11:58:01 | 87,2  | car, light van |
| 120 m. after sign  | 11:58:02 | 74,4  | Truck          |
| On sign            | 11:58:07 | 83,2  | car, light van |
| 120 m. before sign | 11:58:08 | 98,8  | car, light van |
| 120 m. after sign  | 11:58:10 | 89,9  | car, light van |
| On sign            | 11:58:13 | 93,8  | car, light van |
| 120 m. after sign  | 11:58:16 | 96,5  | car, light van |
| 120 m. before sign | 11:58:20 | 79,1  | car, light van |
| On sign            | 11:58:25 | 86,8  | car, light van |
| 120 m. after sign  | 11:58:30 | 79,4  | Truck          |
| On sign            | 11:58:55 | 75    | Truck          |
| 120 m. after sign  | 11:59:00 | 77,3  | Truck          |
| 120 m. before sign | 11:59:03 | 86,1  | car, light van |
| On sign            | 11:59:09 | 81,2  | car, light van |
| 120 m. after sign  | 11:59:13 | 80,4  | car, light van |
| 120 m. before sign | 11:59:29 | 79,1  | Truck          |
| On sign            | 11:59:35 | 75,7  | car, light van |
| On sign            | 11:59:35 | 75,7  | car, light van |
| On sign            | 11:59:35 | 75,7  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 11:59:38 | 84    | car, light van |
| 120 m. before sign | 11:59:38 | 84    | car, light van |
| 120 m. after sign  | 11:59:40 | 74,8  | Truck          |
| 120 m. before sign | 11:59:41 | 92    | Truck          |
| On sign            | 11:59:44 | 85,9  | Truck          |
| On sign            | 11:59:46 | 80,2  | Truck          |
| 120 m. after sign  | 11:59:48 | 86,7  | Truck          |
| 120 m. before sign | 11:59:48 | 102,1 | car, light van |
| 120 m. after sign  | 11:59:50 | 82,4  | Truck          |
| On sign            | 11:59:52 | 96,4  | car, light van |
| 120 m. after sign  | 11:59:56 | 96,1  | car, light van |
| 120 m. before sign | 12:00:32 | 77,6  | BUS            |
| On sign            | 12:00:39 | 71,5  | BUS            |
| 120 m. after sign  | 12:00:44 | 66,8  | BUS            |
| 120 m. before sign | 12:01:01 | 66,4  | car, light van |
| 120 m. before sign | 12:01:03 | 71,7  | car, light van |
| On sign            | 12:01:09 | 62,5  | car, light van |
| On sign            | 12:01:11 | 67,5  | car, light van |
| 120 m. after sign  | 12:01:14 | 62,3  | car, light van |
| 120 m. after sign  | 12:01:15 | 64,2  | car, light van |
| 120 m. before sign | 12:01:18 | 89    | car, light van |
| On sign            | 12:01:25 | 69,4  | car, light van |
| 120 m. after sign  | 12:01:30 | 59,8  | car, light van |
| 120 m. before sign | 12:01:34 | 65,5  | car, light van |
| On sign            | 12:01:42 | 69,4  | car, light van |
| 120 m. after sign  | 12:01:47 | 64,9  | car, light van |
| 120 m. before sign | 12:02:01 | 75    | car, light van |
| On sign            | 12:02:07 | 70,5  | car, light van |
| 120 m. after sign  | 12:02:12 | 77,6  | car, light van |
| 120 m. before sign | 12:02:13 | 117,7 | car, light van |
| On sign            | 12:02:17 | 107,4 | car, light van |
| 120 m. after sign  | 12:02:20 | 107,9 | car, light van |
| 120 m. before sign | 12:02:24 | 89    | car, light van |
| 120 m. before sign | 12:02:26 | 82,3  | car, light van |
| On sign            | 12:02:30 | 71,2  | car, light van |
| 120 m. before sign | 12:02:30 | 100   | car, light van |
| On sign            | 12:02:32 | 67,8  | car, light van |
| 120 m. after sign  | 12:02:34 | 70,6  | car, light van |
| On sign            | 12:02:35 | 83,5  | car, light van |
| 120 m. before sign | 12:02:36 | 82    | car, light van |
| 120 m. after sign  | 12:02:37 | 65,6  | car, light van |
| 120 m. before sign | 12:02:38 | 83,6  | car, light van |
| 120 m. after sign  | 12:02:39 | 73,4  | car, light van |
| On sign            | 12:02:43 | 66,4  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| On sign            | 12:02:44 | 74,3  | car, light van |
| 120 m. after sign  | 12:02:48 | 68,4  | car, light van |
| 120 m. after sign  | 12:02:49 | 57,9  | car, light van |
| 120 m. before sign | 12:03:11 | 69,4  | car, light van |
| 120 m. before sign | 12:03:14 | 86    | car, light van |
| 120 m. before sign | 12:03:18 | 75,7  | car, light van |
| On sign            | 12:03:19 | 67,4  | car, light van |
| On sign            | 12:03:20 | 78,2  | car, light van |
| 120 m. after sign  | 12:03:23 | 65,1  | car, light van |
| 120 m. after sign  | 12:03:25 | 59    | car, light van |
| On sign            | 12:03:25 | 66,5  | car, light van |
| 120 m. before sign | 12:03:25 | 46,6  | car, light van |
| 120 m. after sign  | 12:03:30 | 68,8  | car, light van |
| On sign            | 12:03:33 | 68,7  | Truck          |
| 120 m. after sign  | 12:03:38 | 61,5  | Truck          |
| 120 m. before sign | 12:04:21 | 67    | car, light van |
| On sign            | 12:04:28 | 64,1  | car, light van |
| 120 m. after sign  | 12:04:33 | 67,3  | car, light van |
| 120 m. before sign | 12:04:52 | 64,8  | Truck          |
| On sign            | 12:05:00 | 66,2  | Truck          |
| 120 m. after sign  | 12:05:04 | 67,2  | Truck          |
| 120 m. before sign | 12:05:15 | 93,1  | car, light van |
| On sign            | 12:05:20 | 88,9  | car, light van |
| 120 m. after sign  | 12:05:24 | 95    | car, light van |
| 120 m. before sign | 12:05:39 | 68,5  | Truck          |
| 120 m. before sign | 12:05:45 | 68    | car, light van |
| On sign            | 12:05:47 | 66,3  | Truck          |
| 120 m. after sign  | 12:05:51 | 66,7  | Truck          |
| On sign            | 12:05:52 | 63,2  | car, light van |
| 120 m. after sign  | 12:05:58 | 60,8  | car, light van |
| 120 m. before sign | 12:06:20 | 91,4  | car, light van |
| On sign            | 12:06:25 | 86,9  | car, light van |
| 120 m. after sign  | 12:06:29 | 86,5  | car, light van |
| 120 m. before sign | 12:07:01 | 87    | car, light van |
| On sign            | 12:07:06 | 85,1  | car, light van |
| 120 m. after sign  | 12:07:10 | 85,5  | car, light van |
| 120 m. before sign | 12:08:18 | 84,5  | Truck          |
| 120 m. before sign | 12:08:19 | 87,5  | Truck          |
| 120 m. before sign | 12:08:22 | 89,7  | car, light van |
| On sign            | 12:08:23 | 81,9  | Truck          |
| On sign            | 12:08:25 | 83,7  | Truck          |
| 120 m. after sign  | 12:08:27 | 85,4  | Truck          |
| On sign            | 12:08:27 | 81,1  | car, light van |
| 120 m. after sign  | 12:08:29 | 81,8  | Truck          |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. after sign  | 12:08:31 | 78,3  | car, light van |
| 120 m. before sign | 12:08:32 | 85,3  | car, light van |
| On sign            | 12:08:38 | 78,4  | car, light van |
| 120 m. after sign  | 12:08:42 | 77,8  | car, light van |
| 120 m. before sign | 12:09:32 | 91,4  | car, light van |
| 120 m. before sign | 12:09:35 | 87,2  | Truck          |
| On sign            | 12:09:38 | 83,7  | car, light van |
| On sign            | 12:09:40 | 82,7  | Truck          |
| 120 m. after sign  | 12:09:41 | 81,8  | car, light van |
| 120 m. before sign | 12:09:41 | 79,6  | car, light van |
| 120 m. after sign  | 12:09:44 | 81,6  | Truck          |
| On sign            | 12:09:47 | 76,7  | car, light van |
| 120 m. after sign  | 12:09:51 | 74,3  | car, light van |
| 120 m. before sign | 12:09:54 | 73,6  | car, light van |
| On sign            | 12:10:01 | 64,4  | car, light van |
| 120 m. after sign  | 12:10:07 | 54,1  | car, light van |
| 120 m. before sign | 12:10:31 | 85,7  | car, light van |
| On sign            | 12:10:37 | 73,9  | car, light van |
| 120 m. after sign  | 12:10:41 | 66,3  | car, light van |
| 120 m. before sign | 12:10:45 | 69,6  | car, light van |
| On sign            | 12:10:52 | 65,7  | car, light van |
| 120 m. before sign | 12:10:52 | 91,6  | car, light van |
| 120 m. after sign  | 12:10:57 | 67,5  | car, light van |
| On sign            | 12:10:58 | 68,6  | car, light van |
| 120 m. after sign  | 12:11:03 | 55,2  | car, light van |
| 120 m. before sign | 12:11:23 | 81,3  | car, light van |
| 120 m. before sign | 12:11:25 | 80,3  | Truck          |
| On sign            | 12:11:30 | 72    | car, light van |
| On sign            | 12:11:31 | 73,7  | Truck          |
| 120 m. after sign  | 12:11:34 | 69,6  | car, light van |
| 120 m. after sign  | 12:11:36 | 67,9  | Truck          |
| 120 m. before sign | 12:11:38 | 91,6  | car, light van |
| On sign            | 12:11:43 | 90,6  | car, light van |
| 120 m. after sign  | 12:11:46 | 91,5  | car, light van |
| 120 m. before sign | 12:12:20 | 110,7 | car, light van |
| On sign            | 12:12:24 | 104,4 | car, light van |
| 120 m. after sign  | 12:12:27 | 106,1 | car, light van |
| 120 m. before sign | 12:12:27 | 81,4  | Truck          |
| 120 m. before sign | 12:12:29 | 85,1  | car, light van |
| On sign            | 12:12:33 | 80,6  | Truck          |
| On sign            | 12:12:35 | 80,6  | car, light van |
| 120 m. after sign  | 12:12:37 | 83,8  | Truck          |
| 120 m. after sign  | 12:12:39 | 80    | car, light van |
| 120 m. before sign | 12:14:03 | 80,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 12:14:08 | 84,3  | car, light van |
| On sign            | 12:14:09 | 64,2  | car, light van |
| 120 m. after sign  | 12:14:14 | 61,9  | car, light van |
| On sign            | 12:14:14 | 82,7  | car, light van |
| 120 m. after sign  | 12:14:18 | 84,8  | car, light van |
| 120 m. before sign | 12:14:23 | 81    | Truck          |
| On sign            | 12:14:29 | 68,3  | Truck          |
| 120 m. after sign  | 12:14:35 | 42,9  | Truck          |
| 120 m. before sign | 12:14:39 | 83,4  | car, light van |
| 120 m. before sign | 12:14:42 | 98,1  | car, light van |
| On sign            | 12:14:45 | 77,7  | car, light van |
| On sign            | 12:14:47 | 85,8  | car, light van |
| 120 m. after sign  | 12:14:49 | 79    | car, light van |
| 120 m. after sign  | 12:14:51 | 79,8  | car, light van |
| 120 m. before sign | 12:14:56 | 86,8  | car, light van |
| On sign            | 12:15:02 | 66,8  | car, light van |
| 120 m. before sign | 12:15:02 | 92    | car, light van |
| 120 m. after sign  | 12:15:07 | 68,6  | car, light van |
| On sign            | 12:15:07 | 73,3  | car, light van |
| 120 m. after sign  | 12:15:12 | 66,8  | car, light van |
| 120 m. before sign | 12:15:42 | 78,2  | car, light van |
| On sign            | 12:15:49 | 71,2  | car, light van |
| 120 m. before sign | 12:15:52 | 77,8  | car, light van |
| 120 m. after sign  | 12:15:54 | 66    | car, light van |
| On sign            | 12:15:59 | 70,3  | car, light van |
| 120 m. after sign  | 12:16:03 | 74,1  | car, light van |
| 120 m. before sign | 12:16:15 | 64,5  | Truck          |
| 120 m. before sign | 12:16:19 | 89,7  | car, light van |
| On sign            | 12:16:23 | 58,5  | Truck          |
| On sign            | 12:16:25 | 64,2  | car, light van |
| 120 m. before sign | 12:16:27 | 87,1  | car, light van |
| 120 m. after sign  | 12:16:30 | 38,8  | Truck          |
| 120 m. after sign  | 12:16:31 | 34,4  | car, light van |
| On sign            | 12:16:33 | 71,8  | car, light van |
| 120 m. after sign  | 12:16:38 | 51,1  | car, light van |
| 120 m. after sign  | 12:16:47 | 47,8  | car, light van |
| 120 m. before sign | 12:17:03 | 77,8  | BUS            |
| On sign            | 12:17:10 | 69,8  | Truck          |
| 120 m. after sign  | 12:17:14 | 67,5  | BUS            |
| 120 m. before sign | 12:18:05 | 85,4  | car, light van |
| On sign            | 12:18:12 | 66,2  | car, light van |
| 120 m. after sign  | 12:18:17 | 68,2  | car, light van |
| 120 m. before sign | 12:18:32 | 83,7  | car, light van |
| On sign            | 12:18:38 | 72,5  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 12:18:40 | 78,5  | car, light van |
| 120 m. after sign  | 12:18:42 | 73,7  | car, light van |
| On sign            | 12:18:46 | 71,9  | car, light van |
| 120 m. after sign  | 12:18:51 | 71,3  | car, light van |
| 120 m. before sign | 12:18:51 | 63,1  | car, light van |
| On sign            | 12:18:59 | 61,6  | car, light van |
| 120 m. after sign  | 12:19:04 | 60,9  | car, light van |
| 120 m. before sign | 12:20:37 | 96,1  | car, light van |
| 120 m. before sign | 12:20:40 | 91,1  | car, light van |
| On sign            | 12:20:43 | 78,8  | car, light van |
| 120 m. before sign | 12:20:44 | 81,4  | car, light van |
| On sign            | 12:20:46 | 78,5  | car, light van |
| 120 m. after sign  | 12:20:47 | 71,6  | car, light van |
| 120 m. after sign  | 12:20:50 | 73,8  | car, light van |
| On sign            | 12:20:50 | 77,9  | car, light van |
| 120 m. after sign  | 12:20:54 | 77,1  | car, light van |
| 120 m. before sign | 12:21:19 | 72,7  | car, light van |
| On sign            | 12:21:26 | 67,2  | car, light van |
| 120 m. after sign  | 12:21:32 | 47,4  | car, light van |
| 120 m. before sign | 12:21:37 | 81,9  | BUS            |
| On sign            | 12:21:44 | 73,6  | BUS            |
| 120 m. after sign  | 12:21:48 | 73    | BUS            |
| 120 m. before sign | 12:22:40 | 79,3  | car, light van |
| 120 m. before sign | 12:22:41 | 78,2  | car, light van |
| On sign            | 12:22:47 | 66,9  | car, light van |
| On sign            | 12:22:48 | 71,3  | car, light van |
| 120 m. after sign  | 12:22:52 | 71,1  | car, light van |
| 120 m. after sign  | 12:22:53 | 66,3  | car, light van |
| 120 m. before sign | 12:23:13 | 84,4  | car, light van |
| 120 m. before sign | 12:23:16 | 74,9  | car, light van |
| On sign            | 12:23:19 | 75,1  | car, light van |
| On sign            | 12:23:22 | 67,6  | car, light van |
| 120 m. after sign  | 12:23:23 | 71,9  | car, light van |
| 120 m. after sign  | 12:23:27 | 70,4  | car, light van |
| 120 m. before sign | 12:24:09 | 87,9  | car, light van |
| On sign            | 12:24:14 | 95,8  | car, light van |
| 120 m. before sign | 12:24:15 | 77    | car, light van |
| 120 m. after sign  | 12:24:17 | 106,7 | car, light van |
| On sign            | 12:24:22 | 65,8  | car, light van |
| 120 m. after sign  | 12:24:28 | 31,5  | car, light van |
| 120 m. before sign | 12:24:42 | 70,6  | car, light van |
| 120 m. before sign | 12:24:43 | 68,6  | car, light van |
| 120 m. before sign | 12:24:48 | 58,8  | car, light van |
| On sign            | 12:24:49 | 65,3  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 12:24:49 | 54,2  | car, light van |
| On sign            | 12:24:50 | 65,7  | car, light van |
| 120 m. after sign  | 12:24:54 | 66,9  | car, light van |
| 120 m. after sign  | 12:24:55 | 63,4  | car, light van |
| On sign            | 12:24:57 | 57,3  | car, light van |
| On sign            | 12:24:58 | 60,2  | car, light van |
| 120 m. before sign | 12:25:00 | 88,3  | car, light van |
| 120 m. after sign  | 12:25:03 | 62    | car, light van |
| 120 m. after sign  | 12:25:03 | 60,7  | car, light van |
| On sign            | 12:25:05 | 83,7  | car, light van |
| 120 m. after sign  | 12:25:09 | 82,9  | car, light van |
| 120 m. before sign | 12:25:30 | 60,8  | car, light van |
| 120 m. before sign | 12:25:31 | 61,5  | car, light van |
| On sign            | 12:25:38 | 61,9  | car, light van |
| On sign            | 12:25:39 | 63,3  | car, light van |
| 120 m. after sign  | 12:25:43 | 64,7  | car, light van |
| 120 m. after sign  | 12:25:44 | 60,7  | car, light van |
| 120 m. before sign | 12:25:50 | 63,7  | Truck          |
| On sign            | 12:25:58 | 56,9  | Truck          |
| 120 m. after sign  | 12:26:04 | 60,7  | Truck          |
| 120 m. before sign | 12:26:18 | 72,9  | car, light van |
| On sign            | 12:26:25 | 67,8  | car, light van |
| 120 m. before sign | 12:26:28 | 61,1  | Truck          |
| 120 m. after sign  | 12:26:30 | 65,2  | car, light van |
| On sign            | 12:26:36 | 60    | Truck          |
| 120 m. after sign  | 12:26:42 | 50,6  | Truck          |
| 120 m. before sign | 12:26:50 | 69,7  | car, light van |
| On sign            | 12:26:57 | 71,7  | car, light van |
| 120 m. before sign | 12:26:57 | 98,9  | car, light van |
| 120 m. after sign  | 12:27:01 | 71,2  | car, light van |
| On sign            | 12:27:02 | 84,6  | Truck          |
| 120 m. after sign  | 12:27:07 | 74,3  | Truck          |
| 120 m. before sign | 12:27:10 | 96    | car, light van |
| On sign            | 12:27:17 | 53,9  | car, light van |
| 120 m. after sign  | 12:27:23 | 61,4  | car, light van |
| 120 m. before sign | 12:28:27 | 64,5  | BUS            |
| On sign            | 12:28:35 | 57,7  | BUS            |
| 120 m. after sign  | 12:28:41 | 51,7  | BUS            |
| 120 m. before sign | 12:29:52 | 70    | car, light van |
| 120 m. before sign | 12:29:55 | 68,4  | car, light van |
| On sign            | 12:29:59 | 70,7  | car, light van |
| On sign            | 12:30:02 | 66,7  | car, light van |
| 120 m. after sign  | 12:30:04 | 72,4  | car, light van |
| 120 m. after sign  | 12:30:07 | 72,4  | car, light van |

## Annex A

| Post No.           | Time     | Speed | Class          |
|--------------------|----------|-------|----------------|
| 120 m. before sign | 12:30:11 | 74,1  | car, light van |
| 120 m. before sign | 12:30:12 | 72,7  | Truck          |
| 120 m. before sign | 12:30:13 | 68,8  | car, light van |
| On sign            | 12:30:18 | 67,6  | car, light van |
| On sign            | 12:30:19 | 68,9  | Truck          |
| On sign            | 12:30:20 | 67,4  | car, light van |
| 120 m. after sign  | 12:30:22 | 67,5  | car, light van |
| 120 m. after sign  | 12:30:24 | 65    | Truck          |
| 120 m. after sign  | 12:30:25 | 62,5  | car, light van |
| 120 m. before sign | 12:31:18 | 68,4  | car, light van |
| On sign            | 12:31:25 | 69,3  | car, light van |
| 120 m. before sign | 12:31:27 | 60,9  | car, light van |
| On sign            | 12:31:35 | 59,4  | car, light van |
| 120 m. before sign | 12:31:35 | 68    | car, light van |
| 120 m. before sign | 12:31:36 | 67,1  | Truck          |
| 120 m. before sign | 12:31:40 | 70,6  | car, light van |
| 120 m. before sign | 12:31:41 | 72,6  | Truck          |
| On sign            | 12:31:42 | 69,5  | car, light van |
| On sign            | 12:31:44 | 66,1  | Truck          |
| On sign            | 12:31:47 | 70,3  | car, light van |
| On sign            | 12:31:48 | 63,4  | Truck          |
| 120 m. before sign | 12:32:06 | 78,2  | car, light van |
| 120 m. before sign | 12:32:12 | 82,3  | car, light van |
| On sign            | 12:32:13 | 70,7  | car, light van |
| On sign            | 12:32:18 | 75,3  | car, light van |
| 120 m. before sign | 12:32:35 | 28,8  | car, light van |
| 120 m. before sign | 12:32:39 | 78,7  | car, light van |
| On sign            | 12:32:42 | 67    | car, light van |
| On sign            | 12:32:45 | 72,8  | car, light van |
| 120 m. before sign | 12:32:54 | 79,6  | car, light van |
| 120 m. before sign | 12:32:56 | 81,5  | car, light van |
| On sign            | 12:33:00 | 74,3  | car, light van |
| On sign            | 12:33:03 | 67,8  | car, light van |
| 120 m. before sign | 12:33:47 | 80,2  | car, light van |
| 120 m. before sign | 12:34:11 | 72,9  | car, light van |
| 120 m. before sign | 12:34:13 | 64,3  | car, light van |
| 120 m. before sign | 12:34:25 | 57,2  | car, light van |

### Road A7 (36 km) speed measurement results

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 09:58:20 | 87    | car, light van |
| On sign           | 09:58:22 | 88,1  | car, light van |
| 100 m. after sign | 09:58:24 | 59,8  | car, light van |



## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 09:58:28 | 65,9  | car, light van |
| On sign           | 09:58:31 | 64,5  | car, light van |
| 80 m. before sign | 09:58:35 | 63    | car, light van |
| 100 m. after sign | 09:58:38 | 56,3  | car, light van |
| On sign           | 09:58:38 | 65,8  | car, light van |
| 80 m. before sign | 09:58:40 | 60,3  | car, light van |
| On sign           | 09:58:43 | 59,5  | car, light van |
| 80 m. before sign | 10:00:11 | 75,9  | car, light van |
| On sign           | 10:00:14 | 75,4  | car, light van |
| 80 m. before sign | 10:00:17 | 64,8  | car, light van |
| 100 m. after sign | 10:00:20 | 65,6  | car, light van |
| On sign           | 10:00:20 | 66,3  | car, light van |
| 80 m. before sign | 10:00:54 | 68,2  | car, light van |
| On sign           | 10:00:56 | 66,9  | car, light van |
| 80 m. before sign | 10:01:00 | 65,5  | car, light van |
| 100 m. after sign | 10:01:03 | 61,3  | car, light van |
| On sign           | 10:01:03 | 66,3  | car, light van |
| 100 m. after sign | 10:01:09 | 60,9  | car, light van |
| 80 m. before sign | 10:01:27 | 61,7  | car, light van |
| On sign           | 10:01:30 | 60,9  | car, light van |
| On sign           | 10:01:35 | 74,8  | Truck          |
| 100 m. after sign | 10:01:37 | 58    | car, light van |
| 80 m. before sign | 10:01:47 | 70,1  | car, light van |
| 80 m. before sign | 10:01:52 | 52,6  | Truck          |
| 80 m. before sign | 10:02:00 | 41,1  | car, light van |
| On sign           | 10:02:05 | 49,5  | car, light van |
| 80 m. before sign | 10:02:57 | 59,5  | BUS            |
| On sign           | 10:03:00 | 61,4  | BUS            |
| 100 m. after sign | 10:03:07 | 56    | Truck          |
| 80 m. before sign | 10:03:45 | 71,4  | Truck          |
| On sign           | 10:03:48 | 68,2  | Truck          |
| 100 m. after sign | 10:03:54 | 57,4  | Truck          |
| 80 m. before sign | 10:05:14 | 58,4  | car, light van |
| 80 m. before sign | 10:05:15 | 58,4  | car, light van |
| 80 m. before sign | 10:05:16 | 60,8  | car, light van |
| On sign           | 10:05:17 | 59    | car, light van |
| On sign           | 10:05:19 | 58,5  | car, light van |
| On sign           | 10:05:20 | 57,6  | car, light van |
| 100 m. after sign | 10:05:26 | 49,5  | car, light van |
| 100 m. after sign | 10:05:27 | 48,6  | car, light van |
| 80 m. before sign | 10:06:16 | 64,8  | car, light van |
| On sign           | 10:06:19 | 68,2  | car, light van |
| 100 m. after sign | 10:06:25 | 63,4  | car, light van |
| 80 m. before sign | 10:06:55 | 66,9  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 10:06:57 | 69,2  | car, light van |
| On sign           | 10:06:58 | 67,2  | car, light van |
| 80 m. before sign | 10:07:00 | 72,9  | car, light van |
| On sign           | 10:07:00 | 67,9  | car, light van |
| 80 m. before sign | 10:07:01 | 72,2  | car, light van |
| On sign           | 10:07:02 | 71,4  | car, light van |
| On sign           | 10:07:03 | 70,8  | car, light van |
| 100 m. after sign | 10:07:04 | 59    | car, light van |
| 100 m. after sign | 10:07:06 | 60,8  | car, light van |
| 100 m. after sign | 10:07:08 | 62,9  | car, light van |
| 100 m. after sign | 10:07:10 | 61,7  | car, light van |
| 80 m. before sign | 10:07:13 | 77,5  | car, light van |
| On sign           | 10:07:15 | 78,6  | car, light van |
| 80 m. before sign | 10:07:17 | 71,7  | car, light van |
| On sign           | 10:07:19 | 70,1  | car, light van |
| 100 m. after sign | 10:07:21 | 74,6  | car, light van |
| 100 m. after sign | 10:07:26 | 61,7  | car, light van |
| 80 m. before sign | 10:08:59 | 73,2  | car, light van |
| On sign           | 10:09:01 | 74    | car, light van |
| 80 m. before sign | 10:09:06 | 72,5  | car, light van |
| 100 m. after sign | 10:09:08 | 64,2  | car, light van |
| On sign           | 10:09:09 | 72,5  | car, light van |
| 80 m. before sign | 10:09:13 | 54    | car, light van |
| 100 m. after sign | 10:09:15 | 68,2  | car, light van |
| On sign           | 10:09:17 | 46,5  | car, light van |
| 100 m. after sign | 10:09:26 | 48,4  | car, light van |
| 80 m. before sign | 10:09:58 | 100,2 | car, light van |
| 100 m. after sign | 10:10:04 | 87,7  | Truck          |
| 80 m. before sign | 10:10:35 | 72,5  | car, light van |
| On sign           | 10:10:38 | 69,2  | car, light van |
| 100 m. after sign | 10:10:44 | 62,6  | car, light van |
| 80 m. before sign | 10:11:28 | 63,8  | car, light van |
| On sign           | 10:11:31 | 61,4  | car, light van |
| 100 m. after sign | 10:11:38 | 54,7  | car, light van |
| 80 m. before sign | 10:11:51 | 75,4  | car, light van |
| On sign           | 10:11:53 | 73,2  | car, light van |
| 100 m. after sign | 10:11:59 | 66,6  | car, light van |
| 80 m. before sign | 10:12:12 | 69,8  | car, light van |
| On sign           | 10:12:15 | 59    | car, light van |
| 100 m. after sign | 10:12:21 | 67,5  | car, light van |
| 80 m. before sign | 10:14:36 | 71,4  | Truck          |
| On sign           | 10:14:39 | 73,7  | Truck          |
| 100 m. after sign | 10:14:45 | 61,3  | Truck          |
| 80 m. before sign | 10:14:56 | 71,7  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 10:14:59 | 70,1  | car, light van |
| On sign           | 10:14:59 | 72,2  | car, light van |
| On sign           | 10:15:02 | 64,5  | car, light van |
| 100 m. after sign | 10:15:05 | 62,9  | car, light van |
| 100 m. after sign | 10:15:09 | 53,1  | car, light van |
| 80 m. before sign | 10:16:14 | 78,3  | car, light van |
| On sign           | 10:16:16 | 79,1  | car, light van |
| 100 m. after sign | 10:16:22 | 69,2  | car, light van |
| 80 m. before sign | 10:16:28 | 65,5  | car, light van |
| On sign           | 10:16:31 | 66,6  | car, light van |
| 100 m. after sign | 10:16:37 | 59,5  | car, light van |
| 80 m. before sign | 10:16:49 | 65,9  | car, light van |
| On sign           | 10:16:52 | 64,5  | car, light van |
| 100 m. after sign | 10:16:59 | 55    | car, light van |
| 80 m. before sign | 10:17:59 | 70,1  | car, light van |
| 80 m. before sign | 10:18:01 | 69,8  | car, light van |
| On sign           | 10:18:01 | 70,1  | car, light van |
| On sign           | 10:18:03 | 66,9  | car, light van |
| 100 m. after sign | 10:18:08 | 63,4  | car, light van |
| 100 m. after sign | 10:18:10 | 58,5  | car, light van |
| 80 m. before sign | 10:18:40 | 63,7  | car, light van |
| 80 m. before sign | 10:18:40 | 63,4  | car, light van |
| On sign           | 10:18:43 | 63,4  | car, light van |
| On sign           | 10:18:44 | 61,4  | car, light van |
| 100 m. after sign | 10:18:50 | 56    | car, light van |
| 100 m. after sign | 10:18:51 | 54,7  | car, light van |
| 80 m. before sign | 10:19:15 | 81,4  | car, light van |
| On sign           | 10:19:17 | 79,5  | car, light van |
| 100 m. after sign | 10:19:23 | 66,3  | car, light van |
| 80 m. before sign | 10:19:37 | 67,5  | car, light van |
| On sign           | 10:19:40 | 64,5  | car, light van |
| 100 m. after sign | 10:19:46 | 58    | car, light van |
| 80 m. before sign | 10:20:25 | 79,9  | car, light van |
| On sign           | 10:20:27 | 74    | car, light van |
| 80 m. before sign | 10:20:31 | 63,7  | car, light van |
| 80 m. before sign | 10:20:32 | 65,5  | car, light van |
| 100 m. after sign | 10:20:33 | 64,5  | car, light van |
| On sign           | 10:20:34 | 66,6  | car, light van |
| On sign           | 10:20:35 | 65,8  | car, light van |
| 100 m. after sign | 10:20:40 | 59,5  | car, light van |
| 100 m. after sign | 10:20:41 | 60,3  | car, light van |
| 80 m. before sign | 10:20:48 | 77    | car, light van |
| On sign           | 10:20:50 | 74,3  | car, light van |
| 100 m. after sign | 10:20:56 | 62,1  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 10:21:51 | 100,9 | car, light van |
| On sign           | 10:21:53 | 100,9 | car, light van |
| 80 m. before sign | 10:21:56 | 68,5  | car, light van |
| On sign           | 10:21:59 | 70,1  | car, light van |
| On sign           | 10:22:00 | 68,8  | car, light van |
| On sign           | 10:22:04 | 43,6  | BUS            |
| 100 m. after sign | 10:22:05 | 66,3  | car, light van |
| 100 m. after sign | 10:22:06 | 61,1  | car, light van |
| 80 m. before sign | 10:24:17 | 106,6 | car, light van |
| On sign           | 10:24:19 | 109,9 | car, light van |
| 80 m. before sign | 10:24:22 | 109,9 | car, light van |
| On sign           | 10:24:23 | 109,9 | car, light van |
| 80 m. before sign | 10:25:25 | 55,3  | car, light van |
| 80 m. before sign | 10:25:27 | 56,8  | car, light van |
| On sign           | 10:25:29 | 54,8  | car, light van |
| On sign           | 10:25:30 | 54    | car, light van |
| 100 m. after sign | 10:25:37 | 47,3  | car, light van |
| 100 m. after sign | 10:25:38 | 46    | car, light van |
| 80 m. before sign | 10:26:11 | 94,4  | car, light van |
| On sign           | 10:26:12 | 93,8  | car, light van |
| 100 m. after sign | 10:26:17 | 81,7  | car, light van |
| 80 m. before sign | 10:26:53 | 41    | Truck          |
| On sign           | 10:26:59 | 42    | Truck          |
| 100 m. after sign | 10:27:09 | 39,9  | Truck          |
| 80 m. before sign | 10:27:26 | 59,3  | car, light van |
| On sign           | 10:27:29 | 56,1  | car, light van |
| 100 m. after sign | 10:27:37 | 54,5  | car, light van |
| 80 m. before sign | 10:28:03 | 63,4  | car, light van |
| On sign           | 10:28:06 | 67,5  | car, light van |
| 100 m. after sign | 10:28:13 | 64    | car, light van |
| 80 m. before sign | 10:28:28 | 104,4 | car, light van |
| On sign           | 10:28:29 | 103,8 | car, light van |
| 80 m. before sign | 10:28:58 | 84,1  | car, light van |
| On sign           | 10:29:00 | 83,2  | car, light van |
| 100 m. after sign | 10:29:05 | 72,5  | car, light van |
| 80 m. before sign | 10:29:16 | 65,9  | car, light van |
| On sign           | 10:29:19 | 65,5  | car, light van |
| 100 m. after sign | 10:29:25 | 57,4  | car, light van |
| 80 m. before sign | 10:29:44 | 107,5 | car, light van |
| On sign           | 10:29:46 | 108,3 | car, light van |
| 80 m. before sign | 10:29:47 | 73,2  | Truck          |
| On sign           | 10:29:50 | 71,7  | Truck          |
| 80 m. before sign | 10:29:53 | 78,6  | car, light van |
| On sign           | 10:29:55 | 77,5  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 10:29:56 | 63    | Truck          |
| 80 m. before sign | 10:30:18 | 97,5  | car, light van |
| On sign           | 10:30:20 | 92    | car, light van |
| 80 m. before sign | 10:30:23 | 92    | car, light van |
| On sign           | 10:30:25 | 94,4  | car, light van |
| 80 m. before sign | 10:30:30 | 73,7  | Truck          |
| On sign           | 10:30:33 | 72,2  | Truck          |
| 100 m. after sign | 10:30:39 | 62,9  | BUS            |
| 80 m. before sign | 10:30:52 | 52,9  | Truck          |
| On sign           | 10:30:56 | 52,9  | Truck          |
| 100 m. after sign | 10:31:04 | 46,3  | Truck          |
| 80 m. before sign | 10:31:18 | 71,1  | car, light van |
| On sign           | 10:31:20 | 71,7  | car, light van |
| 100 m. after sign | 10:31:27 | 63,4  | car, light van |
| 80 m. before sign | 10:31:52 | 68,2  | car, light van |
| On sign           | 10:31:55 | 62,1  | car, light van |
| 80 m. before sign | 10:31:56 | 71,1  | car, light van |
| On sign           | 10:31:59 | 66,6  | car, light van |
| 100 m. after sign | 10:32:02 | 72,5  | car, light van |
| 100 m. after sign | 10:32:06 | 58,9  | car, light van |
| 80 m. before sign | 10:32:09 | 90,2  | car, light van |
| 80 m. before sign | 10:32:09 | 68,2  | Truck          |
| On sign           | 10:32:11 | 91,4  | car, light van |
| On sign           | 10:32:12 | 66,3  | Truck          |
| 100 m. after sign | 10:32:16 | 72    | car, light van |
| 100 m. after sign | 10:32:19 | 60,8  | Truck          |
| 80 m. before sign | 10:32:50 | 64    | Truck          |
| 80 m. before sign | 10:32:52 | 77    | Truck          |
| On sign           | 10:32:53 | 64,3  | Truck          |
| On sign           | 10:32:55 | 66,6  | Truck          |
| 100 m. after sign | 10:32:59 | 60,8  | Truck          |
| 100 m. after sign | 10:33:01 | 59,8  | car, light van |
| 80 m. before sign | 10:34:11 | 84,6  | car, light van |
| On sign           | 10:34:13 | 83,2  | car, light van |
| 80 m. before sign | 10:34:57 | 67,9  | car, light van |
| On sign           | 10:35:00 | 62,1  | car, light van |
| 100 m. after sign | 10:35:07 | 55,5  | car, light van |
| 80 m. before sign | 10:36:34 | 61,3  | Truck          |
| On sign           | 10:36:37 | 57,1  | Truck          |
| 100 m. after sign | 10:36:45 | 51,1  | Truck          |
| 80 m. before sign | 10:36:46 | 56,1  | car, light van |
| On sign           | 10:36:50 | 55    | car, light van |
| 80 m. before sign | 10:36:53 | 67,5  | Truck          |
| 80 m. before sign | 10:36:55 | 68,8  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 10:36:56 | 65,5  | Truck          |
| On sign           | 10:36:57 | 66,9  | car, light van |
| 100 m. after sign | 10:36:58 | 51,3  | car, light van |
| 100 m. after sign | 10:37:02 | 58,5  | Truck          |
| 100 m. after sign | 10:37:04 | 58,9  | car, light van |
| 80 m. before sign | 10:38:00 | 74,6  | car, light van |
| On sign           | 10:38:03 | 69,8  | car, light van |
| 100 m. after sign | 10:38:09 | 60,3  | car, light van |
| 80 m. before sign | 10:38:35 | 51,3  | Truck          |
| On sign           | 10:38:39 | 52,4  | Truck          |
| 100 m. after sign | 10:38:47 | 46,6  | Truck          |
| 80 m. before sign | 10:38:47 | 118,7 | car, light van |
| On sign           | 10:38:48 | 118,7 | car, light van |
| 100 m. after sign | 10:38:52 | 90,9  | car, light van |
| 80 m. before sign | 10:39:06 | 77,5  | car, light van |
| On sign           | 10:39:09 | 76,7  | car, light van |
| 100 m. after sign | 10:39:14 | 69,8  | car, light van |
| 80 m. before sign | 10:39:20 | 64,5  | Truck          |
| 80 m. before sign | 10:39:22 | 61,7  | Truck          |
| On sign           | 10:39:23 | 65,1  | car, light van |
| 80 m. before sign | 10:39:24 | 62,4  | car, light van |
| 80 m. before sign | 10:39:26 | 59,5  | car, light van |
| On sign           | 10:39:26 | 60,9  | Truck          |
| 80 m. before sign | 10:39:27 | 57,4  | car, light van |
| On sign           | 10:39:27 | 59,8  | car, light van |
| 80 m. before sign | 10:39:29 | 57,4  | Truck          |
| On sign           | 10:39:29 | 59,3  | car, light van |
| 100 m. after sign | 10:39:30 | 58,9  | Truck          |
| On sign           | 10:39:30 | 58    | car, light van |
| On sign           | 10:39:32 | 76,7  | BUS            |
| 100 m. after sign | 10:39:33 | 54,3  | Truck          |
| 100 m. after sign | 10:39:34 | 54    | Truck          |
| 100 m. after sign | 10:39:37 | 52,1  | car, light van |
| 100 m. after sign | 10:39:39 | 51,4  | Truck          |
| 80 m. before sign | 10:40:39 | 92,5  | car, light van |
| On sign           | 10:40:41 | 90,9  | car, light van |
| 100 m. after sign | 10:40:46 | 79,1  | car, light van |
| 80 m. before sign | 10:40:47 | 67,2  | car, light van |
| On sign           | 10:40:50 | 58,4  | car, light van |
| 100 m. after sign | 10:40:58 | 53,2  | car, light van |
| 80 m. before sign | 10:41:12 | 102,9 | car, light van |
| On sign           | 10:41:14 | 103,8 | car, light van |
| 80 m. before sign | 10:41:22 | 68,5  | car, light van |
| On sign           | 10:41:25 | 67,2  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 10:41:32 | 56    | car, light van |
| 80 m. before sign | 10:42:42 | 83,2  | car, light van |
| On sign           | 10:42:44 | 83,6  | car, light van |
| 100 m. after sign | 10:42:50 | 74,3  | car, light van |
| 80 m. before sign | 10:43:30 | 68,8  | Truck          |
| On sign           | 10:43:33 | 71,4  | Truck          |
| 80 m. before sign | 10:43:38 | 71,1  | car, light van |
| 100 m. after sign | 10:43:39 | 65,1  | Truck          |
| On sign           | 10:43:41 | 68,5  | car, light van |
| 100 m. after sign | 10:43:47 | 57,6  | car, light van |
| 80 m. before sign | 10:43:52 | 56,6  | car, light van |
| 80 m. before sign | 10:43:53 | 57,2  | car, light van |
| On sign           | 10:43:56 | 57,2  | car, light van |
| On sign           | 10:43:57 | 57,6  | car, light van |
| 100 m. after sign | 10:44:03 | 49,5  | car, light van |
| 100 m. after sign | 10:44:04 | 49    | car, light van |
| On sign           | 10:44:31 | 65,1  | car, light van |
| 80 m. before sign | 10:44:45 | 67,9  | car, light van |
| 100 m. after sign | 10:44:55 | 53,9  | car, light van |
| On sign           | 10:45:04 | 69,8  | car, light van |
| On sign           | 10:45:06 | 66,9  | car, light van |
| On sign           | 10:45:09 | 62,4  | Truck          |
| 80 m. before sign | 10:45:18 | 65,9  | car, light van |
| 80 m. before sign | 10:45:20 | 64,2  | car, light van |
| 80 m. before sign | 10:45:23 | 61,3  | Truck          |
| 100 m. after sign | 10:45:27 | 64,5  | car, light van |
| 100 m. after sign | 10:45:29 | 64,5  | car, light van |
| On sign           | 10:45:29 | 70,1  | car, light van |
| 100 m. after sign | 10:45:33 | 56,1  | Truck          |
| 80 m. before sign | 10:45:44 | 69,5  | car, light van |
| 100 m. after sign | 10:45:53 | 62,1  | car, light van |
| On sign           | 10:47:04 | 71,4  | car, light van |
| 80 m. before sign | 10:47:18 | 71,1  | car, light van |
| 100 m. after sign | 10:47:27 | 59,3  | car, light van |
| On sign           | 10:48:09 | 58,5  | car, light van |
| On sign           | 10:48:11 | 61,7  | car, light van |
| On sign           | 10:48:12 | 61,7  | car, light van |
| 80 m. before sign | 10:48:23 | 60,5  | car, light van |
| 80 m. before sign | 10:48:25 | 62,4  | car, light van |
| 80 m. before sign | 10:48:26 | 61,7  | car, light van |
| 100 m. after sign | 10:48:34 | 44    | car, light van |
| 100 m. after sign | 10:48:36 | 45,7  | car, light van |
| 100 m. after sign | 10:48:37 | 44    | car, light van |
| On sign           | 10:48:40 | 67,9  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 10:48:54 | 75,1  | car, light van |
| 100 m. after sign | 10:49:04 | 59,5  | car, light van |
| 100 m. after sign | 10:49:12 | 59,5  | Truck          |
| On sign           | 10:49:17 | 68,2  | car, light van |
| On sign           | 10:49:23 | 57,9  | Truck          |
| 80 m. before sign | 10:49:32 | 70,4  | car, light van |
| 80 m. before sign | 10:49:37 | 71,4  | Truck          |
| 100 m. after sign | 10:49:41 | 57,7  | car, light van |
| 100 m. after sign | 10:49:48 | 48,7  | Truck          |
| On sign           | 10:50:16 | 90,9  | car, light van |
| 80 m. before sign | 10:50:31 | 86    | car, light van |
| On sign           | 10:51:34 | 107,5 | car, light van |
| On sign           | 10:51:43 | 75,4  | car, light van |
| 80 m. before sign | 10:51:50 | 105,8 | car, light van |
| On sign           | 10:51:54 | 58,9  | car, light van |
| On sign           | 10:51:55 | 80,9  | car, light van |
| 100 m. after sign | 10:51:56 | 95,5  | car, light van |
| 80 m. before sign | 10:51:58 | 76,2  | car, light van |
| 100 m. after sign | 10:52:06 | 65,6  | car, light van |
| 80 m. before sign | 10:52:08 | 59,8  | car, light van |
| 80 m. before sign | 10:52:09 | 63    | car, light van |
| 100 m. after sign | 10:52:17 | 75,1  | car, light van |
| 100 m. after sign | 10:52:18 | 55,8  | car, light van |
| On sign           | 10:54:09 | 66,3  | car, light van |
| 80 m. before sign | 10:54:23 | 67,5  | car, light van |
| 100 m. after sign | 10:54:33 | 58    | car, light van |
| On sign           | 10:54:58 | 105,8 | car, light van |
| 80 m. before sign | 10:55:14 | 104,4 | car, light van |
| On sign           | 10:56:28 | 53,2  | car, light van |
| On sign           | 10:56:31 | 55    | car, light van |
| On sign           | 10:56:34 | 52,3  | car, light van |
| 80 m. before sign | 10:56:41 | 54,8  | car, light van |
| 80 m. before sign | 10:56:44 | 54    | car, light van |
| 80 m. before sign | 10:56:47 | 51,8  | car, light van |
| On sign           | 10:56:49 | 65,9  | Truck          |
| 100 m. after sign | 10:56:53 | 45,5  | car, light van |
| 100 m. after sign | 10:56:56 | 43,4  | car, light van |
| 100 m. after sign | 10:56:59 | 45,2  | car, light van |
| 80 m. before sign | 10:57:03 | 65,8  | Truck          |
| 100 m. after sign | 10:57:13 | 58    | Truck          |
| On sign           | 10:58:08 | 49,2  | car, light van |
| On sign           | 10:58:12 | 59,5  | car, light van |
| 80 m. before sign | 10:58:21 | 55,5  | car, light van |
| 80 m. before sign | 10:58:25 | 63,7  | car, light van |



## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 10:58:30 | 78,6  | car, light van |
| 100 m. after sign | 10:58:33 | 50,5  | car, light van |
| 100 m. after sign | 10:58:36 | 48,9  | car, light van |
| 80 m. before sign | 10:58:45 | 78,6  | car, light van |
| 100 m. after sign | 10:58:52 | 71,4  | car, light van |
| On sign           | 10:58:55 | 64    | car, light van |
| On sign           | 10:59:02 | 61,4  | car, light van |
| On sign           | 10:59:05 | 66,3  | car, light van |
| On sign           | 10:59:08 | 60,9  | car, light van |
| 80 m. before sign | 10:59:09 | 62,6  | car, light van |
| 80 m. before sign | 10:59:16 | 63,7  | car, light van |
| 100 m. after sign | 10:59:19 | 56,1  | car, light van |
| 80 m. before sign | 10:59:20 | 69,5  | car, light van |
| 80 m. before sign | 10:59:22 | 60,5  | car, light van |
| 100 m. after sign | 10:59:26 | 56,1  | car, light van |
| On sign           | 10:59:28 | 116,8 | car, light van |
| 100 m. after sign | 10:59:29 | 58,9  | car, light van |
| 100 m. after sign | 10:59:32 | 55,5  | car, light van |
| 80 m. before sign | 10:59:44 | 119,7 | car, light van |
| 100 m. after sign | 10:59:49 | 100,2 | car, light van |
| On sign           | 10:59:51 | 88,6  | car, light van |
| On sign           | 10:59:59 | 72,5  | car, light van |
| 80 m. before sign | 11:00:06 | 89,8  | car, light van |
| On sign           | 11:00:06 | 62,1  | car, light van |
| 100 m. after sign | 11:00:13 | 76,7  | car, light van |
| 80 m. before sign | 11:00:14 | 73,2  | car, light van |
| 80 m. before sign | 11:00:20 | 64,8  | car, light van |
| 100 m. after sign | 11:00:22 | 60,9  | car, light van |
| 100 m. after sign | 11:00:30 | 51,1  | car, light van |
| On sign           | 11:01:26 | 6,7   | car, light van |
| On sign           | 11:02:10 | 88,6  | car, light van |
| On sign           | 11:02:22 | 89,8  | car, light van |
| 80 m. before sign | 11:02:25 | 87,7  | car, light van |
| 100 m. after sign | 11:02:33 | 55,6  | car, light van |
| 80 m. before sign | 11:02:37 | 89,1  | car, light van |
| 100 m. after sign | 11:02:44 | 76,2  | car, light van |
| 100 m. after sign | 11:04:43 | 45,3  | BUS            |
| On sign           | 11:04:48 | 64,2  | car, light van |
| 80 m. before sign | 11:05:02 | 66,6  | car, light van |
| 100 m. after sign | 11:05:12 | 57,4  | car, light van |
| On sign           | 11:05:32 | 66,6  | car, light van |
| On sign           | 11:05:34 | 64,8  | car, light van |
| On sign           | 11:05:42 | 89,1  | car, light van |
| 80 m. before sign | 11:05:46 | 65,9  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 11:05:48 | 63,7  | car, light van |
| 100 m. after sign | 11:05:56 | 55,2  | car, light van |
| 80 m. before sign | 11:05:57 | 86,5  | car, light van |
| 100 m. after sign | 11:05:58 | 54,8  | car, light van |
| On sign           | 11:06:00 | 68,2  | car, light van |
| 80 m. before sign | 11:06:14 | 68,2  | car, light van |
| 100 m. after sign | 11:06:23 | 64    | car, light van |
| On sign           | 11:07:27 | 85,1  | car, light van |
| On sign           | 11:07:35 | 68,2  | car, light van |
| 80 m. before sign | 11:07:42 | 87    | car, light van |
| 100 m. after sign | 11:07:49 | 70,1  | car, light van |
| 80 m. before sign | 11:07:49 | 68,8  | car, light van |
| 100 m. after sign | 11:07:59 | 58    | car, light van |
| On sign           | 11:08:16 | 64    | car, light van |
| On sign           | 11:08:17 | 60,3  | car, light van |
| 80 m. before sign | 11:08:29 | 56,6  | BUS            |
| 80 m. before sign | 11:08:30 | 57,9  | car, light van |
| 80 m. before sign | 11:08:31 | 55,5  | car, light van |
| On sign           | 11:08:35 | 73,2  | car, light van |
| 100 m. after sign | 11:08:39 | 58,9  | car, light van |
| 100 m. after sign | 11:08:41 | 57,7  | car, light van |
| 80 m. before sign | 11:08:49 | 72,5  | car, light van |
| 100 m. after sign | 11:08:58 | 64,2  | car, light van |
| On sign           | 11:09:19 | 89,8  | car, light van |
| On sign           | 11:09:30 | 75,4  | car, light van |
| 80 m. before sign | 11:09:35 | 93,8  | car, light van |
| 100 m. after sign | 11:09:42 | 72,5  | car, light van |
| 80 m. before sign | 11:09:44 | 75,1  | car, light van |
| On sign           | 11:09:49 | 62,4  | car, light van |
| 100 m. after sign | 11:09:53 | 65,3  | car, light van |
| 80 m. before sign | 11:10:03 | 62,9  | car, light van |
| 100 m. after sign | 11:10:13 | 52,4  | car, light van |
| On sign           | 11:11:20 | 84,6  | car, light van |
| On sign           | 11:11:32 | 84,6  | car, light van |
| 80 m. before sign | 11:11:35 | 84,6  | car, light van |
| On sign           | 11:11:37 | 87,7  | car, light van |
| 100 m. after sign | 11:11:42 | 72,9  | car, light van |
| 80 m. before sign | 11:11:47 | 84,6  | car, light van |
| 80 m. before sign | 11:11:52 | 84,1  | car, light van |
| 100 m. after sign | 11:11:55 | 74,6  | car, light van |
| On sign           | 11:12:19 | 55,8  | Truck          |
| 80 m. before sign | 11:12:33 | 63,4  | Truck          |
| 100 m. after sign | 11:12:44 | 49,7  | Truck          |
| On sign           | 11:13:34 | 93,1  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 11:13:38 | 71,1  | car, light van |
| 80 m. before sign | 11:13:49 | 94,9  | car, light van |
| 80 m. before sign | 11:13:53 | 69,8  | car, light van |
| 100 m. after sign | 11:13:56 | 83,2  | car, light van |
| 100 m. after sign | 11:14:01 | 66,3  | car, light van |
| On sign           | 11:14:05 | 59,3  | Truck          |
| 80 m. before sign | 11:14:18 | 60    | Truck          |
| 100 m. after sign | 11:14:29 | 51,3  | car, light van |
| On sign           | 11:14:29 | 57,9  | car, light van |
| On sign           | 11:14:33 | 61,4  | car, light van |
| 80 m. before sign | 11:14:43 | 58,9  | car, light van |
| 80 m. before sign | 11:14:46 | 65,9  | car, light van |
| 100 m. after sign | 11:14:53 | 53,1  | car, light van |
| 100 m. after sign | 11:14:57 | 52,3  | car, light van |
| On sign           | 11:15:10 | 56,6  | car, light van |
| On sign           | 11:15:13 | 51,8  | car, light van |
| 80 m. before sign | 11:15:24 | 60    | car, light van |
| 80 m. before sign | 11:15:26 | 54,7  | car, light van |
| 100 m. after sign | 11:15:35 | 50,2  | car, light van |
| 100 m. after sign | 11:15:38 | 42,4  | car, light van |
| On sign           | 11:16:19 | 90,9  | car, light van |
| On sign           | 11:16:23 | 74    | car, light van |
| On sign           | 11:16:26 | 82,7  | car, light van |
| 80 m. before sign | 11:16:34 | 86    | car, light van |
| 80 m. before sign | 11:16:38 | 74,3  | car, light van |
| 100 m. after sign | 11:16:41 | 61,3  | car, light van |
| 80 m. before sign | 11:16:41 | 84,6  | car, light van |
| 100 m. after sign | 11:16:46 | 64,2  | car, light van |
| 100 m. after sign | 11:16:48 | 67,9  | car, light van |
| On sign           | 11:17:19 | 78,6  | car, light van |
| On sign           | 11:17:29 | 87,7  | car, light van |
| 80 m. before sign | 11:17:34 | 79,5  | car, light van |
| 80 m. before sign | 11:17:44 | 89,1  | car, light van |
| On sign           | 11:17:48 | 98,1  | car, light van |
| 100 m. after sign | 11:17:51 | 78,6  | car, light van |
| 80 m. before sign | 11:18:04 | 98,1  | car, light van |
| On sign           | 11:18:19 | 74,3  | car, light van |
| 80 m. before sign | 11:18:34 | 72,5  | car, light van |
| On sign           | 11:19:31 | 74,6  | car, light van |
| On sign           | 11:19:32 | 74,3  | car, light van |
| On sign           | 11:19:41 | 78,3  | car, light van |
| 100 m. after sign | 11:19:44 | 59,5  | car, light van |
| 80 m. before sign | 11:19:46 | 74,3  | car, light van |
| 100 m. after sign | 11:19:54 | 65,5  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 11:19:56 | 77,8  | car, light van |
| 100 m. after sign | 11:20:04 | 68,8  | car, light van |
| On sign           | 11:20:14 | 63,4  | car, light van |
| 80 m. before sign | 11:20:28 | 64,5  | car, light van |
| 100 m. after sign | 11:20:38 | 55,3  | car, light van |
| On sign           | 11:21:17 | 67,5  | car, light van |
| On sign           | 11:21:21 | 75,9  | car, light van |
| 100 m. after sign | 11:21:24 | 54,7  | car, light van |
| 100 m. after sign | 11:21:27 | 60,1  | car, light van |
| 80 m. before sign | 11:21:31 | 67,9  | car, light van |
| 80 m. before sign | 11:21:35 | 76,2  | car, light van |
| On sign           | 11:22:40 | 67,9  | car, light van |
| 100 m. after sign | 11:22:47 | 54,8  | car, light van |
| On sign           | 11:22:48 | 73,7  | car, light van |
| 100 m. after sign | 11:22:54 | 64    | car, light van |
| 80 m. before sign | 11:22:54 | 66,6  | car, light van |
| On sign           | 11:22:57 | 35,7  | car, light van |
| 80 m. before sign | 11:23:03 | 74    | car, light van |
| 80 m. before sign | 11:23:08 | 35    | car, light van |
| On sign           | 11:23:08 | 68,8  | Truck          |
| 100 m. after sign | 11:23:09 | 31,2  | car, light van |
| 100 m. after sign | 11:23:15 | 55,8  | Truck          |
| On sign           | 11:23:16 | 58,4  | Truck          |
| 100 m. after sign | 11:23:24 | 46    | Truck          |
| 80 m. before sign | 11:23:30 | 60,3  | Truck          |
| On sign           | 11:23:58 | 82,7  | car, light van |
| On sign           | 11:24:06 | 97,5  | car, light van |
| 80 m. before sign | 11:24:13 | 83,6  | car, light van |
| 80 m. before sign | 11:24:22 | 98,1  | car, light van |
| On sign           | 11:24:31 | 66,3  | car, light van |
| On sign           | 11:24:34 | 67,9  | car, light van |
| 100 m. after sign | 11:24:37 | 60,5  | car, light van |
| 100 m. after sign | 11:24:41 | 56,9  | car, light van |
| 80 m. before sign | 11:24:45 | 68,8  | car, light van |
| 80 m. before sign | 11:24:49 | 69,2  | car, light van |
| On sign           | 11:25:00 | 29,9  | BUS            |
| On sign           | 11:25:00 | 29,9  | Truck          |
| 80 m. before sign | 11:25:10 | 32,3  | Truck          |
| 100 m. after sign | 11:25:12 | 30,4  | Truck          |
| On sign           | 11:25:15 | 96,8  | car, light van |
| On sign           | 11:25:29 | 60,3  | Truck          |
| 80 m. before sign | 11:25:30 | 95,5  | car, light van |
| 100 m. after sign | 11:25:36 | 53,7  | car, light van |
| 80 m. before sign | 11:25:43 | 57,9  | Truck          |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 11:25:49 | 34,9  | Truck          |
| 80 m. before sign | 11:25:59 | 33,4  | Truck          |
| 100 m. after sign | 11:26:00 | 32,3  | car, light van |
| On sign           | 11:26:01 | 59,3  | car, light van |
| 100 m. after sign | 11:26:09 | 49,7  | car, light van |
| 80 m. before sign | 11:26:15 | 59    | car, light van |
| On sign           | 11:26:23 | 71,1  | car, light van |
| 100 m. after sign | 11:26:29 | 64,8  | car, light van |
| 80 m. before sign | 11:26:37 | 71,4  | car, light van |
| On sign           | 11:27:15 | 66,3  | Truck          |
| On sign           | 11:27:15 | 55    | car, light van |
| 100 m. after sign | 11:27:22 | 55,3  | Truck          |
| 80 m. before sign | 11:27:29 | 64,5  | Truck          |
| On sign           | 11:28:35 | 80,9  | car, light van |
| 100 m. after sign | 11:28:41 | 67,9  | car, light van |
| 80 m. before sign | 11:28:50 | 80,4  | car, light van |
| On sign           | 11:28:54 | 64,5  | car, light van |
| 100 m. after sign | 11:29:01 | 54,8  | car, light van |
| On sign           | 11:29:03 | 61,7  | car, light van |
| 80 m. before sign | 11:29:08 | 67,9  | car, light van |
| 100 m. after sign | 11:29:10 | 55,5  | car, light van |
| 80 m. before sign | 11:29:17 | 63    | car, light van |
| On sign           | 11:29:28 | 88,1  | car, light van |
| 100 m. after sign | 11:29:33 | 76,7  | car, light van |
| 80 m. before sign | 11:29:43 | 87    | car, light van |
| On sign           | 11:31:05 | 88,6  | car, light van |
| 100 m. after sign | 11:31:10 | 79,5  | car, light van |
| On sign           | 11:31:15 | 78,6  | car, light van |
| 100 m. after sign | 11:31:20 | 71,4  | car, light van |
| 80 m. before sign | 11:31:20 | 87,7  | car, light van |
| 80 m. before sign | 11:31:29 | 76,7  | car, light van |
| On sign           | 11:31:35 | 60,8  | car, light van |
| On sign           | 11:31:39 | 54    | car, light van |
| 100 m. after sign | 11:31:42 | 54,8  | car, light van |
| 100 m. after sign | 11:31:46 | 54    | car, light van |
| 80 m. before sign | 11:31:49 | 60,5  | car, light van |
| 80 m. before sign | 11:31:52 | 57,9  | car, light van |
| On sign           | 11:32:38 | 99,6  | car, light van |
| 80 m. before sign | 11:32:53 | 95,5  | car, light van |
| On sign           | 11:33:26 | 109,1 | car, light van |
| 80 m. before sign | 11:33:42 | 108,3 | car, light van |
| On sign           | 11:34:08 | 66,6  | car, light van |
| On sign           | 11:34:13 | 50,3  | car, light van |
| On sign           | 11:34:15 | 52,1  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 11:34:18 | 52,6  | car, light van |
| 100 m. after sign | 11:34:22 | 46,6  | car, light van |
| 80 m. before sign | 11:34:22 | 65,9  | car, light van |
| On sign           | 11:34:22 | 63,4  | car, light van |
| 100 m. after sign | 11:34:24 | 44,5  | car, light van |
| 100 m. after sign | 11:34:26 | 48,2  | car, light van |
| 80 m. before sign | 11:34:26 | 53,1  | car, light van |
| 80 m. before sign | 11:34:29 | 53,7  | car, light van |
| 80 m. before sign | 11:34:31 | 52,9  | car, light van |
| 80 m. before sign | 11:34:36 | 62,4  | car, light van |
| On sign           | 11:35:31 | 64    | car, light van |
| 100 m. after sign | 11:35:37 | 57,9  | car, light van |
| 80 m. before sign | 11:35:45 | 63,4  | car, light van |
| On sign           | 11:36:08 | 109,9 | car, light van |
| On sign           | 11:36:21 | 72,5  | car, light van |
| 80 m. before sign | 11:36:24 | 105,8 | car, light van |
| 100 m. after sign | 11:36:27 | 68,5  | car, light van |
| 80 m. before sign | 11:36:35 | 58    | car, light van |
| On sign           | 11:36:54 | 53,4  | car, light van |
| On sign           | 11:36:55 | 56    | car, light van |
| 100 m. after sign | 11:37:02 | 43,1  | car, light van |
| 100 m. after sign | 11:37:03 | 43,2  | car, light van |
| 80 m. before sign | 11:37:07 | 55    | car, light van |
| 80 m. before sign | 11:37:08 | 52,1  | car, light van |
| On sign           | 11:37:50 | 52,7  | car, light van |
| 100 m. after sign | 11:37:58 | 45,3  | car, light van |
| On sign           | 11:38:01 | 77,5  | car, light van |
| 80 m. before sign | 11:38:03 | 59,5  | car, light van |
| 100 m. after sign | 11:38:07 | 66,6  | car, light van |
| 80 m. before sign | 11:38:16 | 76,7  | car, light van |
| On sign           | 11:38:17 | 70,1  | Truck          |
| 100 m. after sign | 11:38:23 | 62,9  | Truck          |
| 80 m. before sign | 11:38:31 | 70,8  | Truck          |
| On sign           | 11:38:40 | 76,2  | car, light van |
| 100 m. after sign | 11:38:46 | 68,5  | car, light van |
| On sign           | 11:38:46 | 68,2  | car, light van |
| 100 m. after sign | 11:38:53 | 60    | car, light van |
| 80 m. before sign | 11:38:55 | 77    | car, light van |
| 80 m. before sign | 11:39:00 | 69,2  | car, light van |
| On sign           | 11:39:13 | 73,7  | Truck          |
| On sign           | 11:39:17 | 79,1  | car, light van |
| 100 m. after sign | 11:39:19 | 58,4  | Truck          |
| On sign           | 11:39:21 | 83,2  | car, light van |
| 100 m. after sign | 11:39:23 | 53,2  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 11:39:26 | 67,5  | car, light van |
| 80 m. before sign | 11:39:27 | 72,9  | Truck          |
| On sign           | 11:39:30 | 72,2  | car, light van |
| 80 m. before sign | 11:39:32 | 81,4  | car, light van |
| 80 m. before sign | 11:39:35 | 83,6  | car, light van |
| 100 m. after sign | 11:39:36 | 61,4  | car, light van |
| 80 m. before sign | 11:39:45 | 71,1  | car, light van |
| On sign           | 11:39:51 | 65,1  | Truck          |
| 100 m. after sign | 11:39:58 | 58,9  | Truck          |
| 80 m. before sign | 11:40:05 | 67,5  | Truck          |
| On sign           | 11:40:18 | 72,2  | Truck          |
| 100 m. after sign | 11:40:24 | 65,8  | Truck          |
| On sign           | 11:40:28 | 66,9  | car, light van |
| 80 m. before sign | 11:40:32 | 70,1  | Truck          |
| 100 m. after sign | 11:40:34 | 55,3  | car, light van |
| 80 m. before sign | 11:40:42 | 72,5  | car, light van |
| On sign           | 11:41:21 | 60,9  | car, light van |
| On sign           | 11:41:25 | 62,6  | car, light van |
| 100 m. after sign | 11:41:28 | 56,6  | car, light van |
| 100 m. after sign | 11:41:32 | 57,6  | car, light van |
| 80 m. before sign | 11:41:35 | 58,4  | car, light van |
| 80 m. before sign | 11:41:39 | 71,7  | car, light van |
| On sign           | 11:42:25 | 57,4  | car, light van |
| 100 m. after sign | 11:42:32 | 53,9  | car, light van |
| 100 m. after sign | 11:42:37 | 55,2  | car, light van |
| 80 m. before sign | 11:42:38 | 52,7  | car, light van |
| 100 m. after sign | 11:42:40 | 62,2  | car, light van |
| On sign           | 11:42:42 | 64,5  | Truck          |
| 100 m. after sign | 11:42:45 | 50,6  | car, light van |
| 100 m. after sign | 11:42:47 | 47,3  | car, light van |
| On sign           | 11:42:47 | 61,7  | car, light van |
| 100 m. after sign | 11:42:48 | 48,7  | car, light van |
| On sign           | 11:42:50 | 61,3  | car, light van |
| On sign           | 11:42:55 | 58,4  | car, light van |
| 80 m. before sign | 11:42:56 | 66,3  | Truck          |
| On sign           | 11:42:56 | 58,5  | car, light van |
| On sign           | 11:42:57 | 55,8  | car, light van |
| 80 m. before sign | 11:43:00 | 60,9  | car, light van |
| 80 m. before sign | 11:43:04 | 59,8  | car, light van |
| 80 m. before sign | 11:43:08 | 58,9  | car, light van |
| 80 m. before sign | 11:43:10 | 57,9  | Truck          |
| 100 m. after sign | 11:43:40 | 61,7  | car, light van |
| On sign           | 11:43:51 | 72,5  | car, light van |
| 80 m. before sign | 11:44:06 | 70,4  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 11:44:27 | 63,4  | car, light van |
| On sign           | 11:44:38 | 71,4  | car, light van |
| 80 m. before sign | 11:44:52 | 73,2  | car, light van |
| 100 m. after sign | 11:45:24 | 82,2  | car, light van |
| On sign           | 11:45:36 | 94,4  | car, light van |
| 100 m. after sign | 11:45:50 | 62,1  | car, light van |
| 80 m. before sign | 11:45:52 | 92,5  | car, light van |
| On sign           | 11:46:01 | 66,9  | car, light van |
| 80 m. before sign | 11:46:15 | 65,8  | car, light van |
| 100 m. after sign | 11:46:26 | 88,1  | car, light van |
| 100 m. after sign | 11:46:31 | 60    | car, light van |
| 100 m. after sign | 11:46:33 | 56,1  | car, light van |
| On sign           | 11:46:39 | 110,7 | car, light van |
| On sign           | 11:46:41 | 62,9  | car, light van |
| On sign           | 11:46:43 | 63    | car, light van |
| 80 m. before sign | 11:46:54 | 106,8 | car, light van |
| 80 m. before sign | 11:46:55 | 61,4  | car, light van |
| 80 m. before sign | 11:46:57 | 66,6  | car, light van |
| 100 m. after sign | 11:47:02 | 60,5  | car, light van |
| 100 m. after sign | 11:47:11 | 82,7  | car, light van |
| 100 m. after sign | 11:47:12 | 55,3  | car, light van |
| On sign           | 11:47:12 | 58,9  | car, light van |
| 100 m. after sign | 11:47:21 | 32,9  | car, light van |
| On sign           | 11:47:22 | 62,9  | Truck          |
| On sign           | 11:47:23 | 72,2  | car, light van |
| 80 m. before sign | 11:47:26 | 58,4  | car, light van |
| On sign           | 11:47:27 | 34,7  | car, light van |
| 100 m. after sign | 11:47:30 | 54    | car, light van |
| 80 m. before sign | 11:47:35 | 56,1  | Truck          |
| 80 m. before sign | 11:47:37 | 32,1  | car, light van |
| 80 m. before sign | 11:47:37 | 77    | car, light van |
| 100 m. after sign | 11:47:39 | 61,3  | car, light van |
| On sign           | 11:47:49 | 74    | car, light van |
| 80 m. before sign | 11:48:04 | 75,4  | car, light van |
| 100 m. after sign | 11:48:40 | 70,8  | car, light van |
| On sign           | 11:48:51 | 84,6  | car, light van |
| 80 m. before sign | 11:49:06 | 85,6  | car, light van |
| 100 m. after sign | 11:51:57 | 67,9  | car, light van |
| 100 m. after sign | 11:52:01 | 58,5  | car, light van |
| On sign           | 11:52:08 | 77,5  | car, light van |
| On sign           | 11:52:12 | 69,5  | car, light van |
| 100 m. after sign | 11:52:19 | 62,1  | car, light van |
| 100 m. after sign | 11:52:20 | 57,1  | Truck          |
| 80 m. before sign | 11:52:23 | 77    | car, light van |



## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 11:52:26 | 71,1  | car, light van |
| On sign           | 11:52:29 | 66,3  | car, light van |
| On sign           | 11:52:31 | 62,9  | Truck          |
| 80 m. before sign | 11:52:43 | 65,6  | car, light van |
| 80 m. before sign | 11:52:45 | 62,9  | Truck          |
| 100 m. after sign | 11:52:46 | 77,5  | car, light van |
| On sign           | 11:52:58 | 90,9  | car, light van |
| 80 m. before sign | 11:53:13 | 93,1  | car, light van |
| 100 m. after sign | 11:53:14 | 44,7  | car, light van |
| On sign           | 11:53:23 | 62,9  | car, light van |
| 80 m. before sign | 11:53:37 | 75,1  | car, light van |
| 100 m. after sign | 11:54:05 | 62,4  | car, light van |
| 100 m. after sign | 11:54:11 | 57,6  | car, light van |
| On sign           | 11:54:15 | 66,9  | car, light van |
| On sign           | 11:54:22 | 72,2  | car, light van |
| 80 m. before sign | 11:54:29 | 66,6  | car, light van |
| 80 m. before sign | 11:54:36 | 69,5  | car, light van |
| 100 m. after sign | 11:54:37 | 72,5  | car, light van |
| On sign           | 11:54:48 | 85,1  | car, light van |
| 80 m. before sign | 11:55:03 | 84,6  | car, light van |
| 100 m. after sign | 11:55:46 | 65,9  | car, light van |
| On sign           | 11:55:57 | 77    | car, light van |
| 80 m. before sign | 11:56:12 | 75,1  | car, light van |
| 100 m. after sign | 11:56:59 | 59    | car, light van |
| On sign           | 11:57:09 | 66,9  | car, light van |
| 80 m. before sign | 11:57:23 | 65,1  | car, light van |
| 100 m. after sign | 11:58:19 | 40,2  | Truck          |
| On sign           | 11:58:26 | 43,2  | Truck          |
| 100 m. after sign | 11:58:34 | 54,7  | car, light van |
| 80 m. before sign | 11:58:38 | 42,8  | Truck          |
| On sign           | 11:58:44 | 62,4  | car, light van |
| 100 m. after sign | 11:58:47 | 57,4  | car, light van |
| 100 m. after sign | 11:58:53 | 54,3  | car, light van |
| 100 m. after sign | 11:58:57 | 56,9  | car, light van |
| 80 m. before sign | 11:58:58 | 62,1  | car, light van |
| On sign           | 11:58:58 | 68,8  | car, light van |
| 100 m. after sign | 11:59:00 | 53,2  | car, light van |
| On sign           | 11:59:04 | 66,3  | car, light van |
| 100 m. after sign | 11:59:06 | 52,4  | car, light van |
| On sign           | 11:59:07 | 65,9  | Truck          |
| On sign           | 11:59:10 | 65,9  | car, light van |
| 80 m. before sign | 11:59:12 | 68,2  | car, light van |
| On sign           | 11:59:17 | 77,8  | car, light van |
| 80 m. before sign | 11:59:18 | 69,2  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 11:59:21 | 66,3  | car, light van |
| 80 m. before sign | 11:59:24 | 66,6  | car, light van |
| 80 m. before sign | 11:59:32 | 78,6  | car, light van |
| 100 m. after sign | 12:00:15 | 48,2  | car, light van |
| On sign           | 12:00:24 | 59,3  | car, light van |
| 80 m. before sign | 12:00:38 | 57,1  | car, light van |
| 100 m. after sign | 12:00:44 | 57,6  | car, light van |
| 100 m. after sign | 12:00:46 | 56,6  | car, light van |
| 100 m. after sign | 12:00:49 | 60    | car, light van |
| On sign           | 12:00:54 | 64,8  | car, light van |
| On sign           | 12:00:56 | 64,2  | car, light van |
| On sign           | 12:01:00 | 66,6  | car, light van |
| 80 m. before sign | 12:01:08 | 65,1  | car, light van |
| 80 m. before sign | 12:01:10 | 66,3  | car, light van |
| 80 m. before sign | 12:01:14 | 65,6  | car, light van |
| 100 m. after sign | 12:02:23 | 53,2  | car, light van |
| On sign           | 12:02:33 | 60,3  | Truck          |
| 80 m. before sign | 12:02:47 | 60,9  | Truck          |
| 100 m. after sign | 12:03:03 | 57,2  | car, light van |
| On sign           | 12:03:13 | 62,4  | car, light van |
| 80 m. before sign | 12:03:27 | 60,3  | car, light van |
| 100 m. after sign | 12:05:10 | 56,9  | car, light van |
| 100 m. after sign | 12:05:17 | 54,2  | car, light van |
| On sign           | 12:05:21 | 61,4  | car, light van |
| On sign           | 12:05:26 | 62,2  | car, light van |
| 80 m. before sign | 12:05:34 | 54    | car, light van |
| 80 m. before sign | 12:05:40 | 62,4  | car, light van |
| 100 m. after sign | 12:06:10 | 56,1  | Truck          |
| 100 m. after sign | 12:06:17 | 51,9  | car, light van |
| 100 m. after sign | 12:06:20 | 47,3  | car, light van |
| 100 m. after sign | 12:06:24 | 45,5  | BUS            |
| On sign           | 12:06:27 | 57,9  | Truck          |
| On sign           | 12:06:29 | 56,3  | car, light van |
| On sign           | 12:06:32 | 50,2  | Truck          |
| 100 m. after sign | 12:06:36 | 62,9  | car, light van |
| 80 m. before sign | 12:06:40 | 59    | Truck          |
| 80 m. before sign | 12:06:43 | 55,3  | car, light van |
| 80 m. before sign | 12:06:45 | 49,2  | Truck          |
| On sign           | 12:06:46 | 71,4  | car, light van |
| 80 m. before sign | 12:07:01 | 71,7  | car, light van |
| 100 m. after sign | 12:07:37 | 57,2  | car, light van |
| 100 m. after sign | 12:07:42 | 71,7  | car, light van |
| On sign           | 12:07:47 | 70,1  | car, light van |
| On sign           | 12:07:54 | 82,2  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 12:08:02 | 70,1  | car, light van |
| 100 m. after sign | 12:08:06 | 57,9  | Truck          |
| 80 m. before sign | 12:08:08 | 81,4  | car, light van |
| 100 m. after sign | 12:08:13 | 47,9  | car, light van |
| On sign           | 12:08:16 | 64    | Truck          |
| On sign           | 12:08:22 | 56,3  | car, light van |
| 100 m. after sign | 12:08:25 | 56,6  | car, light van |
| 80 m. before sign | 12:08:30 | 68,8  | Truck          |
| 80 m. before sign | 12:08:35 | 58,5  | car, light van |
| On sign           | 12:08:35 | 64,5  | car, light van |
| 100 m. after sign | 12:08:47 | 65,3  | car, light van |
| 80 m. before sign | 12:08:49 | 65,8  | car, light van |
| On sign           | 12:08:58 | 83,2  | car, light van |
| 80 m. before sign | 12:09:13 | 88,1  | car, light van |
| 100 m. after sign | 12:10:06 | 77    | car, light van |
| 100 m. after sign | 12:10:18 | 56    | car, light van |
| On sign           | 12:10:18 | 87    | car, light van |
| On sign           | 12:10:28 | 66,9  | car, light van |
| 80 m. before sign | 12:10:33 | 86,5  | car, light van |
| 100 m. after sign | 12:10:40 | 60,9  | car, light van |
| 80 m. before sign | 12:10:42 | 69,5  | car, light van |
| On sign           | 12:10:52 | 84,1  | car, light van |
| 80 m. before sign | 12:11:07 | 85,1  | car, light van |
| 100 m. after sign | 12:11:19 | 32,6  | Truck          |
| On sign           | 12:11:21 | 24,3  | Truck          |
| 100 m. after sign | 12:11:24 | 51,6  | car, light van |
| 80 m. before sign | 12:11:32 | 47,4  | Truck          |
| On sign           | 12:11:34 | 63,7  | car, light van |
| 80 m. before sign | 12:11:48 | 65,5  | car, light van |
| 100 m. after sign | 12:12:35 | 66,6  | car, light van |
| On sign           | 12:12:47 | 75,9  | car, light van |
| 100 m. after sign | 12:12:49 | 57,4  | Truck          |
| On sign           | 12:13:00 | 65,8  | Truck          |
| 80 m. before sign | 12:13:01 | 76,2  | car, light van |
| 80 m. before sign | 12:13:14 | 70,8  | Truck          |
| 100 m. after sign | 12:14:35 | 57,4  | Truck          |
| 100 m. after sign | 12:15:07 | 52,1  | car, light van |
| On sign           | 12:15:17 | 59,8  | car, light van |
| 100 m. after sign | 12:15:20 | 61,6  | car, light van |
| 100 m. after sign | 12:15:25 | 59,5  | car, light van |
| 100 m. after sign | 12:15:27 | 60,8  | car, light van |
| 100 m. after sign | 12:15:29 | 60,8  | car, light van |
| 100 m. after sign | 12:15:31 | 55,6  | car, light van |
| 80 m. before sign | 12:15:31 | 64,2  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 12:15:31 | 68,5  | car, light van |
| On sign           | 12:15:35 | 64,8  | car, light van |
| On sign           | 12:15:37 | 66,6  | car, light van |
| On sign           | 12:15:39 | 58,9  | car, light van |
| On sign           | 12:15:41 | 63,8  | car, light van |
| 80 m. before sign | 12:15:45 | 66,9  | car, light van |
| 80 m. before sign | 12:15:49 | 66,6  | car, light van |
| 80 m. before sign | 12:15:52 | 67,5  | car, light van |
| 100 m. after sign | 12:15:53 | 71,1  | car, light van |
| 80 m. before sign | 12:15:53 | 64,5  | car, light van |
| 80 m. before sign | 12:15:55 | 64,5  | car, light van |
| On sign           | 12:16:05 | 82,7  | car, light van |
| 100 m. after sign | 12:16:19 | 71,1  | car, light van |
| 80 m. before sign | 12:16:20 | 82,2  | car, light van |
| 100 m. after sign | 12:16:27 | 64    | car, light van |
| 100 m. after sign | 12:16:33 | 38,7  | Truck          |
| On sign           | 12:16:37 | 70,1  | car, light van |
| On sign           | 12:16:41 | 55,3  | car, light van |
| 80 m. before sign | 12:16:52 | 69,5  | car, light van |
| 80 m. before sign | 12:16:55 | 58    | car, light van |
| 80 m. before sign | 12:16:56 | 55,8  | car, light van |
| 100 m. after sign | 12:18:20 | 89,1  | car, light van |
| 100 m. after sign | 12:18:25 | 71,7  | car, light van |
| On sign           | 12:18:33 | 101,5 | car, light van |
| On sign           | 12:18:37 | 81,4  | car, light van |
| 100 m. after sign | 12:18:38 | 50,5  | car, light van |
| On sign           | 12:18:47 | 58    | Truck          |
| 80 m. before sign | 12:18:48 | 100,2 | car, light van |
| 80 m. before sign | 12:18:51 | 79,9  | car, light van |
| 100 m. after sign | 12:18:55 | 58,9  | Truck          |
| 80 m. before sign | 12:19:01 | 59,3  | Truck          |
| On sign           | 12:19:06 | 71,4  | Truck          |
| 80 m. before sign | 12:19:20 | 68,8  | Truck          |
| 100 m. after sign | 12:19:45 | 71,7  | car, light van |
| 100 m. after sign | 12:19:55 | 63,4  | car, light van |
| On sign           | 12:19:56 | 82,7  | car, light van |
| 100 m. after sign | 12:19:57 | 58,4  | car, light van |
| On sign           | 12:19:58 | 77    | car, light van |
| 100 m. after sign | 12:20:06 | 61,7  | car, light van |
| On sign           | 12:20:06 | 73,7  | car, light van |
| On sign           | 12:20:08 | 73,2  | car, light van |
| 100 m. after sign | 12:20:11 | 51,6  | car, light van |
| 80 m. before sign | 12:20:11 | 83,6  | car, light van |
| On sign           | 12:20:17 | 67,5  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 12:20:20 | 75,4  | car, light van |
| On sign           | 12:20:20 | 54,7  | car, light van |
| 80 m. before sign | 12:20:22 | 71,7  | car, light van |
| 80 m. before sign | 12:20:31 | 65,5  | car, light van |
| 80 m. before sign | 12:20:34 | 56    | car, light van |
| 100 m. after sign | 12:20:43 | 56,8  | car, light van |
| On sign           | 12:20:53 | 61,4  | car, light van |
| 80 m. before sign | 12:21:07 | 59,8  | car, light van |
| 100 m. after sign | 12:21:59 | 60,8  | car, light van |
| On sign           | 12:22:09 | 68,5  | car, light van |
| 80 m. before sign | 12:22:24 | 71,7  | car, light van |
| 100 m. after sign | 12:22:27 | 57,4  | car, light van |
| On sign           | 12:22:38 | 65,9  | car, light van |
| 100 m. after sign | 12:22:41 | 68,2  | car, light van |
| 80 m. before sign | 12:22:52 | 66,9  | car, light van |
| On sign           | 12:22:52 | 98,1  | car, light van |
| 80 m. before sign | 12:23:08 | 105,2 | car, light van |
| 100 m. after sign | 12:23:42 | 65,9  | car, light van |
| 100 m. after sign | 12:23:49 | 58,4  | car, light van |
| On sign           | 12:23:53 | 74,6  | car, light van |
| 100 m. after sign | 12:23:55 | 84,6  | car, light van |
| On sign           | 12:23:59 | 63    | car, light van |
| 80 m. before sign | 12:24:07 | 74,6  | car, light van |
| On sign           | 12:24:07 | 99,6  | car, light van |
| 80 m. before sign | 12:24:13 | 64,2  | car, light van |
| 80 m. before sign | 12:24:23 | 100,9 | car, light van |
| 100 m. after sign | 12:24:42 | 93,1  | Truck          |
| 100 m. after sign | 12:24:47 | 58,4  | Truck          |
| On sign           | 12:24:57 | 66,9  | Truck          |
| 80 m. before sign | 12:25:11 | 67,5  | Truck          |
| 100 m. after sign | 12:25:35 | 61,7  | Truck          |
| On sign           | 12:25:46 | 70,1  | Truck          |
| 80 m. before sign | 12:26:00 | 73,7  | Truck          |
| 100 m. after sign | 12:26:02 | 74,3  | car, light van |
| On sign           | 12:26:13 | 80,9  | car, light van |
| 80 m. before sign | 12:26:28 | 82,2  | car, light van |
| 100 m. after sign | 12:27:48 | 71,4  | car, light van |
| 100 m. after sign | 12:27:52 | 87,7  | car, light van |
| On sign           | 12:27:59 | 80,4  | car, light van |
| On sign           | 12:28:05 | 94,9  | car, light van |
| 80 m. before sign | 12:28:14 | 82,2  | car, light van |
| 80 m. before sign | 12:28:20 | 98,1  | car, light van |
| 100 m. after sign | 12:28:32 | 22,6  | Truck          |
| 100 m. after sign | 12:28:38 | 66,3  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 12:28:44 | 65,3  | car, light van |
| On sign           | 12:28:49 | 68,8  | car, light van |
| On sign           | 12:28:55 | 79,6  | car, light van |
| 80 m. before sign | 12:29:03 | 74,3  | car, light van |
| 80 m. before sign | 12:29:10 | 80,9  | car, light van |
| 100 m. after sign | 12:29:20 | 78,6  | car, light van |
| On sign           | 12:29:32 | 88,6  | car, light van |
| 100 m. after sign | 12:29:34 | 68,5  | car, light van |
| On sign           | 12:29:44 | 67,5  | car, light van |
| 80 m. before sign | 12:29:47 | 88,6  | car, light van |
| 100 m. after sign | 12:29:56 | 59,5  | car, light van |
| 80 m. before sign | 12:29:58 | 65,9  | car, light van |
| On sign           | 12:30:06 | 62,9  | car, light van |
| 80 m. before sign | 12:30:20 | 56,6  | car, light van |
| 100 m. after sign | 12:31:31 | 57,2  | car, light van |
| On sign           | 12:31:40 | 57,2  | car, light van |
| 100 m. after sign | 12:31:49 | 34,9  | Truck          |
| 80 m. before sign | 12:31:54 | 60,8  | car, light van |
| On sign           | 12:31:54 | 35,7  | Truck          |
| 80 m. before sign | 12:32:05 | 34,7  | Truck          |
| 100 m. after sign | 12:32:11 | 50,8  | car, light van |
| On sign           | 12:32:20 | 53,1  | car, light van |
| 80 m. before sign | 12:32:34 | 63,4  | car, light van |
| 100 m. after sign | 12:32:35 | 58,4  | car, light van |
| On sign           | 12:32:47 | 83,2  | car, light van |
| 80 m. before sign | 12:33:02 | 82,7  | car, light van |
| 100 m. after sign | 12:33:38 | 77    | car, light van |
| On sign           | 12:33:50 | 95,5  | car, light van |
| 100 m. after sign | 12:33:59 | 65,9  | car, light van |
| 80 m. before sign | 12:34:06 | 94,9  | car, light van |
| On sign           | 12:34:10 | 76,2  | car, light van |
| 80 m. before sign | 12:34:25 | 79,9  | car, light van |
| 100 m. after sign | 12:34:46 | 77,5  | car, light van |
| On sign           | 12:34:58 | 85,6  | car, light van |
| 80 m. before sign | 12:35:13 | 87    | car, light van |
| 100 m. after sign | 12:35:31 | 48,2  | car, light van |
| On sign           | 12:35:40 | 59,5  | car, light van |
| 80 m. before sign | 12:35:54 | 60,3  | car, light van |
| 100 m. after sign | 12:36:23 | 65,5  | car, light van |
| On sign           | 12:36:33 | 67,2  | car, light van |
| 100 m. after sign | 12:36:44 | 57,4  | Truck          |
| 100 m. after sign | 12:36:46 | 65,5  | car, light van |
| 80 m. before sign | 12:36:47 | 67,9  | car, light van |
| 100 m. after sign | 12:36:52 | 54,8  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| On sign           | 12:36:54 | 60,3  | Truck          |
| On sign           | 12:36:56 | 55,5  | car, light van |
| On sign           | 12:37:02 | 69,5  | car, light van |
| 80 m. before sign | 12:37:08 | 57,9  | Truck          |
| 80 m. before sign | 12:37:09 | 55    | car, light van |
| 80 m. before sign | 12:37:17 | 88,1  | car, light van |
| 100 m. after sign | 12:38:33 | 56,6  | car, light van |
| On sign           | 12:38:44 | 65,1  | car, light van |
| 80 m. before sign | 12:38:58 | 64    | car, light van |
| 100 m. after sign | 12:40:04 | 52,9  | Truck          |
| 100 m. after sign | 12:40:06 | 57,2  | car, light van |
| 100 m. after sign | 12:40:12 | 49,4  | car, light van |
| On sign           | 12:40:13 | 59,8  | car, light van |
| On sign           | 12:40:17 | 72,9  | car, light van |
| On sign           | 12:40:22 | 64,8  | car, light van |
| 100 m. after sign | 12:40:26 | 76,7  | car, light van |
| 100 m. after sign | 12:40:27 | 75,1  | car, light van |
| 80 m. before sign | 12:40:27 | 61,7  | car, light van |
| 80 m. before sign | 12:40:31 | 75,1  | car, light van |
| 80 m. before sign | 12:40:37 | 77,5  | car, light van |
| On sign           | 12:40:37 | 80,4  | car, light van |
| On sign           | 12:40:38 | 83,6  | car, light van |
| 80 m. before sign | 12:40:52 | 81,4  | car, light van |
| 80 m. before sign | 12:40:53 | 82,7  | car, light van |
| 100 m. after sign | 12:42:24 | 64,2  | car, light van |
| 100 m. after sign | 12:42:26 | 58,5  | car, light van |
| On sign           | 12:42:34 | 65,9  | car, light van |
| On sign           | 12:42:36 | 65,5  | car, light van |
| 100 m. after sign | 12:42:39 | 55,5  | car, light van |
| 80 m. before sign | 12:42:48 | 62,6  | car, light van |
| On sign           | 12:42:49 | 61,7  | car, light van |
| 80 m. before sign | 12:42:50 | 65,6  | car, light van |
| 100 m. after sign | 12:42:56 | 70,1  | Truck          |
| 80 m. before sign | 12:43:02 | 59,8  | car, light van |
| On sign           | 12:43:08 | 85,6  | Truck          |
| 80 m. before sign | 12:43:23 | 85,6  | Truck          |
| 100 m. after sign | 12:43:50 | 58,2  | car, light van |
| 100 m. after sign | 12:43:55 | 63,2  | car, light van |
| On sign           | 12:44:00 | 66,6  | car, light van |
| On sign           | 12:44:05 | 68,8  | car, light van |
| 80 m. before sign | 12:44:14 | 65,9  | car, light van |
| 80 m. before sign | 12:44:20 | 68,8  | car, light van |
| 100 m. after sign | 12:44:27 | 64,2  | car, light van |
| 100 m. after sign | 12:44:30 | 58    | Truck          |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 100 m. after sign | 12:44:31 | 57,9  | car, light van |
| On sign           | 12:44:38 | 67,2  | car, light van |
| On sign           | 12:44:40 | 67,2  | Truck          |
| On sign           | 12:44:41 | 67,2  | car, light van |
| 80 m. before sign | 12:44:52 | 65,9  | car, light van |
| 80 m. before sign | 12:44:54 | 67,5  | Truck          |
| 80 m. before sign | 12:44:55 | 66,6  | car, light van |
| 100 m. after sign | 12:45:19 | 77    | car, light van |
| 100 m. after sign | 12:45:26 | 84,6  | car, light van |
| On sign           | 12:45:31 | 86,5  | car, light van |
| On sign           | 12:45:39 | 94,4  | car, light van |
| 100 m. after sign | 12:45:45 | 59,5  | car, light van |
| 80 m. before sign | 12:45:46 | 84,1  | car, light van |
| 80 m. before sign | 12:45:54 | 90,9  | car, light van |
| On sign           | 12:45:56 | 63,4  | car, light van |
| 80 m. before sign | 12:46:10 | 61,4  | car, light van |
| 100 m. after sign | 12:47:04 | 58,5  | car, light van |
| On sign           | 12:47:15 | 65,9  | car, light van |
| 80 m. before sign | 12:47:29 | 65,9  | car, light van |
| 100 m. after sign | 12:47:41 | 58,4  | car, light van |
| On sign           | 12:47:52 | 60,5  | car, light van |
| 80 m. before sign | 12:48:05 | 57,4  | car, light van |
| 100 m. after sign | 12:48:34 | 58,9  | car, light van |
| On sign           | 12:48:45 | 65,1  | car, light van |
| 80 m. before sign | 12:48:59 | 62,1  | car, light van |
| 100 m. after sign | 12:49:49 | 65,1  | Truck          |
| 100 m. after sign | 12:49:54 | 64    | car, light van |
| 100 m. after sign | 12:49:57 | 58,4  | car, light van |
| On sign           | 12:50:00 | 73,2  | Truck          |
| On sign           | 12:50:05 | 70,1  | car, light van |
| On sign           | 12:50:08 | 68,5  | car, light van |
| 80 m. before sign | 12:50:15 | 72,9  | Truck          |
| 80 m. before sign | 12:50:19 | 68,2  | car, light van |
| 80 m. before sign | 12:50:22 | 66,3  | car, light van |
| 100 m. after sign | 12:50:47 | 53,2  | car, light van |
| 100 m. after sign | 12:50:50 | 59,3  | car, light van |
| On sign           | 12:50:57 | 60,8  | car, light van |
| On sign           | 12:51:00 | 71,4  | car, light van |
| 80 m. before sign | 12:51:10 | 60,5  | car, light van |
| 80 m. before sign | 12:51:15 | 74,3  | car, light van |
| 100 m. after sign | 12:51:30 | 76,2  | car, light van |
| 100 m. after sign | 12:51:33 | 77    | car, light van |
| On sign           | 12:51:42 | 86    | car, light van |
| On sign           | 12:51:44 | 84,6  | car, light van |



## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 12:51:57 | 85,1  | car, light van |
| 80 m. before sign | 12:51:59 | 85,1  | car, light van |
| 100 m. after sign | 12:52:19 | 76,2  | car, light van |
| On sign           | 12:52:31 | 85,1  | car, light van |
| 80 m. before sign | 12:52:46 | 85,6  | car, light van |
| 100 m. after sign | 12:53:24 | 48,4  | car, light van |
| 100 m. after sign | 12:53:26 | 46,6  | car, light van |
| On sign           | 12:53:33 | 48,7  | car, light van |
| On sign           | 12:53:33 | 100,9 | car, light van |
| On sign           | 12:53:35 | 49    | car, light van |
| 80 m. before sign | 12:53:45 | 48,7  | Truck          |
| 80 m. before sign | 12:53:47 | 49,7  | car, light van |
| 100 m. after sign | 12:53:51 | 53,2  | car, light van |
| 100 m. after sign | 12:53:53 | 60,9  | car, light van |
| On sign           | 12:54:01 | 60,5  | car, light van |
| 100 m. after sign | 12:54:03 | 59,5  | car, light van |
| On sign           | 12:54:04 | 68,5  | car, light van |
| On sign           | 12:54:14 | 60,3  | car, light van |
| 80 m. before sign | 12:54:15 | 60,8  | car, light van |
| 80 m. before sign | 12:54:18 | 68,5  | car, light van |
| 80 m. before sign | 12:54:27 | 55    | car, light van |
| 100 m. after sign | 12:55:00 | 56    | car, light van |
| On sign           | 12:55:09 | 53,2  | car, light van |
| 80 m. before sign | 12:55:22 | 53,1  | car, light van |
| 100 m. after sign | 12:55:34 | 56,8  | car, light van |
| 100 m. after sign | 12:55:37 | 53,4  | car, light van |
| On sign           | 12:55:44 | 63,7  | car, light van |
| On sign           | 12:55:47 | 57,1  | car, light van |
| 80 m. before sign | 12:55:58 | 57,9  | car, light van |
| 80 m. before sign | 12:56:00 | 56,8  | car, light van |
| 100 m. after sign | 12:56:26 | 56,4  | car, light van |
| 100 m. after sign | 12:56:29 | 47,3  | car, light van |
| On sign           | 12:56:36 | 55    | car, light van |
| 100 m. after sign | 12:56:38 | 58,9  | car, light van |
| On sign           | 12:56:38 | 52,3  | car, light van |
| 80 m. before sign | 12:56:48 | 41,8  | car, light van |
| On sign           | 12:56:49 | 67,2  | car, light van |
| 80 m. before sign | 12:56:51 | 50,8  | car, light van |
| 80 m. before sign | 12:57:03 | 68,2  | car, light van |
| 100 m. after sign | 12:57:15 | 51,4  | car, light van |
| On sign           | 12:57:24 | 50,3  | car, light van |
| 80 m. before sign | 12:57:37 | 47,3  | car, light van |
| 100 m. after sign | 12:57:46 | 49,4  | car, light van |
| On sign           | 12:57:55 | 49,4  | car, light van |

## Annex A

| Post No.          | Time     | Speed | Class          |
|-------------------|----------|-------|----------------|
| 80 m. before sign | 12:58:08 | 50,8  | car, light van |
| 100 m. after sign | 12:59:02 | 56,3  | car, light van |
| On sign           | 12:59:12 | 64,2  | car, light van |
| 80 m. before sign | 12:59:26 | 65,5  | car, light van |
| 100 m. after sign | 13:00:34 | 57,6  | car, light van |
| 100 m. after sign | 13:00:36 | 53,1  | car, light van |
| On sign           | 13:00:44 | 60,3  | car, light van |
| On sign           | 13:00:46 | 60,5  | car, light van |
| 100 m. after sign | 13:00:50 | 72,5  | car, light van |
| On sign           | 13:01:02 | 81,4  | car, light van |
| 100 m. after sign | 13:01:08 | 69,2  | car, light van |
| On sign           | 13:01:19 | 66,3  | car, light van |
| 100 m. after sign | 13:01:41 | 51,3  | car, light van |
| 100 m. after sign | 13:02:25 | 73,7  | car, light van |
| 100 m. after sign | 13:02:33 | 68,2  | car, light van |
| 100 m. after sign | 13:02:47 | 11,1  | car, light van |
| 100 m. after sign | 13:03:02 | 48,9  | car, light van |