

**ESTENSIONE RETE DELLA PUBBLICA
ILLUMINAZIONE TRATTO DI VIA BEL
RIPOSO, IN LOCALITA' VALENZATICO E
REALIZZAZIONE NUOVO IMPIANTO,
TRATTO DI VIA DELLA RUGA, IN LOCALITA'
BARBA**



**CALCOLO ILLUMINOTECNICO
TRATTO DI VIA BEL RIPOSO**

Quarrata, 07 Maggio 2018

Il progettista
Ing. Iuri Gelli

A handwritten signature in black ink, appearing to be 'Iuri Gelli', is written below the printed name.

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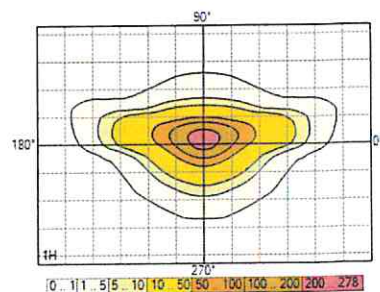
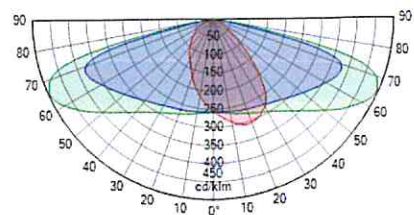
1. Apparecchi

1.1. TECEO 1 24 LEDs 700mA NW Piano, Vetro extra chiaro, Liscio 5137 372652



| | |
|--------------|-----------------------------------|
| Tipologia | TECEO 1 |
| Riflettore | 5137 |
| Sorgente | 24 LEDs 700mA NW |
| Protettore | Piano, Vetro extra chiaro, Liscio |
| Impostazioni | |
| Flusso di | 7,2 klm |
| Classe - G | 4 |

| | |
|--------------------|-----------|
| Potenza | 55,0 W |
| Potenza | 55,0 W |
| Efficienza | 110 lm/W |
| Flusso apparecchio | 6,058 klm |
| FM | 0,90 |
| Matrice | 372652 |

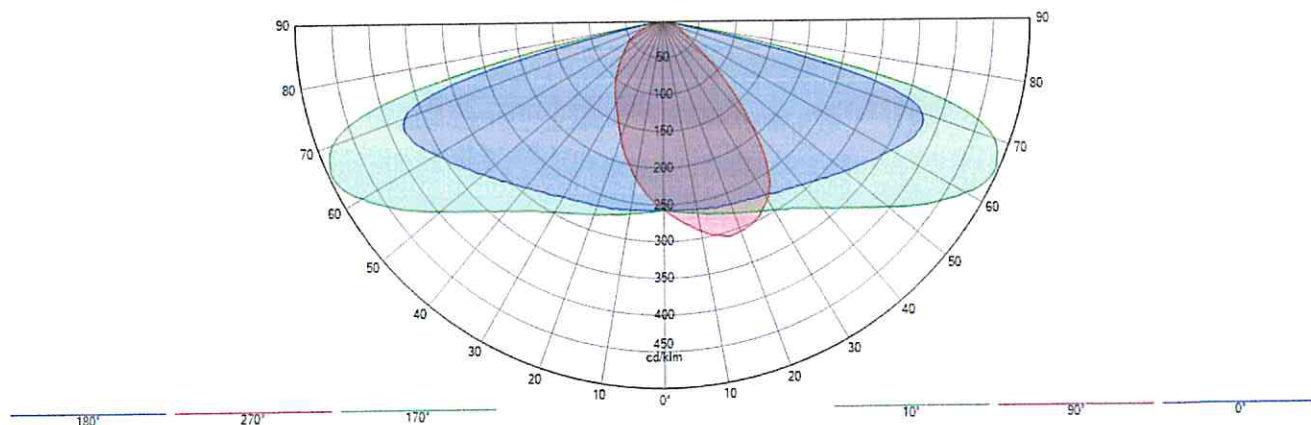


2. Documentazione Fotometrica

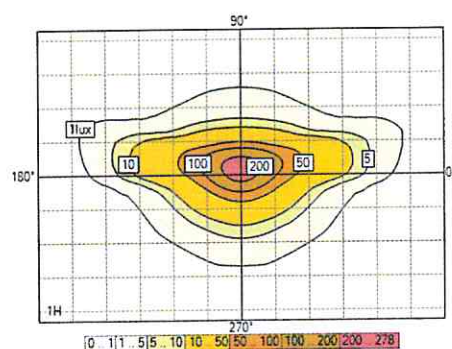
2.1. TECEO 1 24 LEDs 700mA NW Piano, Vetro extra chiaro, Liscio 5137 372652

372652

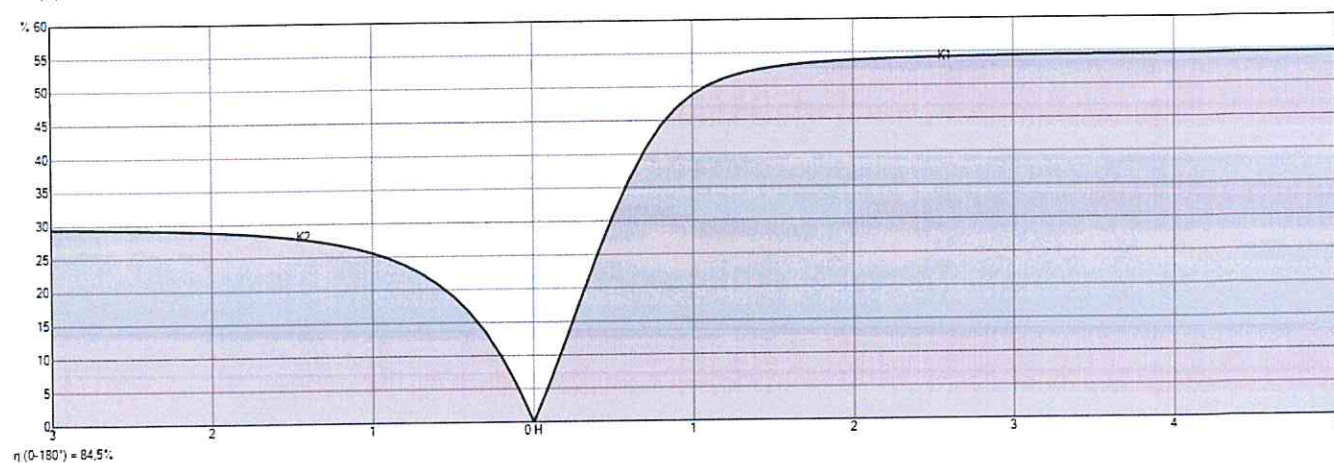
Diagramma Polare/Cartesiano



Isolux



Rappresentazione del coef. di utilizzazione



3. Standard

3.1. Riepilogo Standard

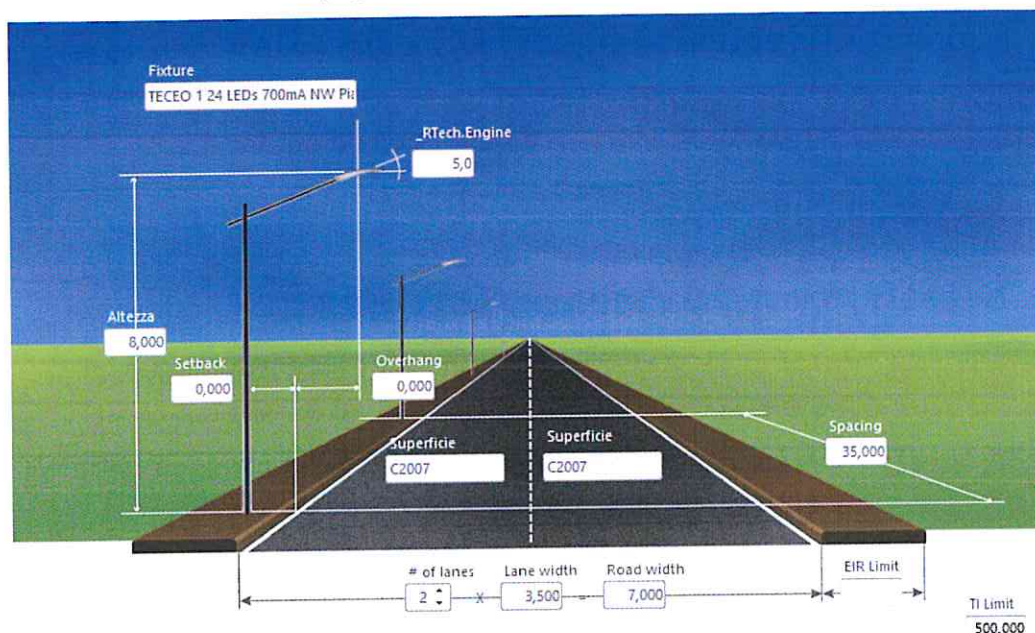
Calculations according to : CEN 13201 : 2015

Selected lighting class : M4

Constraints : LU : Ave = $0,75 \text{ cd/m}^2$ Uo = 40 % UI = 60 % UoW = 15 % TI : 15 EIR : 0,30

Selected lighting class (HS) : -

Constraints (HS) : -



3.2. Risultati

Potenza per Kilometro : 1,571 kW

• Road (LU) - M4

Luminanza

| | | | |
|-----|----------------------|---|----------------------|
| Med | 0,84 cd/m^2 | ✓ | 0,75 cd/m^2 |
| Min | 0,38 cd/m^2 | ✓ | |
| Uo | 45 % | ✓ | 40,00 % |
| UoW | 45 % | ✓ | 15,00 % |

Luminance

| | | | |
|------|------|---|---------|
| UI 1 | 75 % | ✓ | 60,00 % |
| UI 2 | 74 % | ✓ | 60,00 % |

• Valori - M4

| | | | |
|-----|------|---|------|
| EIR | 0,41 | ✓ | 0,30 |
| TI | 12 | ✓ | 15 |

4. Default

4.1. Descrizione matrice

| Ph. color | Matrice | Descrizione | Flusso di lampada [klm] | Flusso apparecchio [klm] | Efficienza [lm/W] | FM | Altezza | Apparecchiatura |
|---|---------|---|-------------------------|--------------------------|-------------------|-------|----------|---|
|  | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra chiaro, Liscio 5137 | 7,171 | 6,058 | 110 | 0,900 | 5 x 8,00 |  |

4.2. Posizione apparecchi

| | N° | Posizione | | | Apparecchio | | | | | | | Bersaglio | | |
|-------------------------------------|----|-----------|-------|-------|-------------|---|--------|--------|---------|--------------|-------|-----------|-------|-------|
| | | X [m] | Y [m] | Z [m] | Matrice | Descrizione | Az [°] | Tl [°] | Rot [°] | Flusso [klm] | FM | X [m] | Y [m] | Z [m] |
| <input checked="" type="checkbox"/> | 1 | -35,00 | 7,00 | 8,00 | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra ... | 180,0 | 5,0 | 0,0 | 7,171 | 0,900 | -35,00 | 6,30 | 0,00 |
| <input checked="" type="checkbox"/> | 2 | 0,00 | 7,00 | 8,00 | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra ... | 180,0 | 5,0 | 0,0 | 7,171 | 0,900 | 0,00 | 6,30 | 0,00 |
| <input checked="" type="checkbox"/> | 3 | 35,00 | 7,00 | 8,00 | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra ... | 180,0 | 5,0 | 0,0 | 7,171 | 0,900 | 35,00 | 6,30 | 0,00 |
| <input checked="" type="checkbox"/> | 4 | 70,00 | 7,00 | 8,00 | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra ... | 180,0 | 5,0 | 0,0 | 7,171 | 0,900 | 70,00 | 6,30 | 0,00 |
| <input checked="" type="checkbox"/> | 5 | 105,00 | 7,00 | 8,00 | 372652 | TECEO 1 24 LEDs 700mA NW Piano, Vetro extra ... | 180,0 | 5,0 | 0,0 | 7,171 | 0,900 | 105,00 | 6,30 | 0,00 |

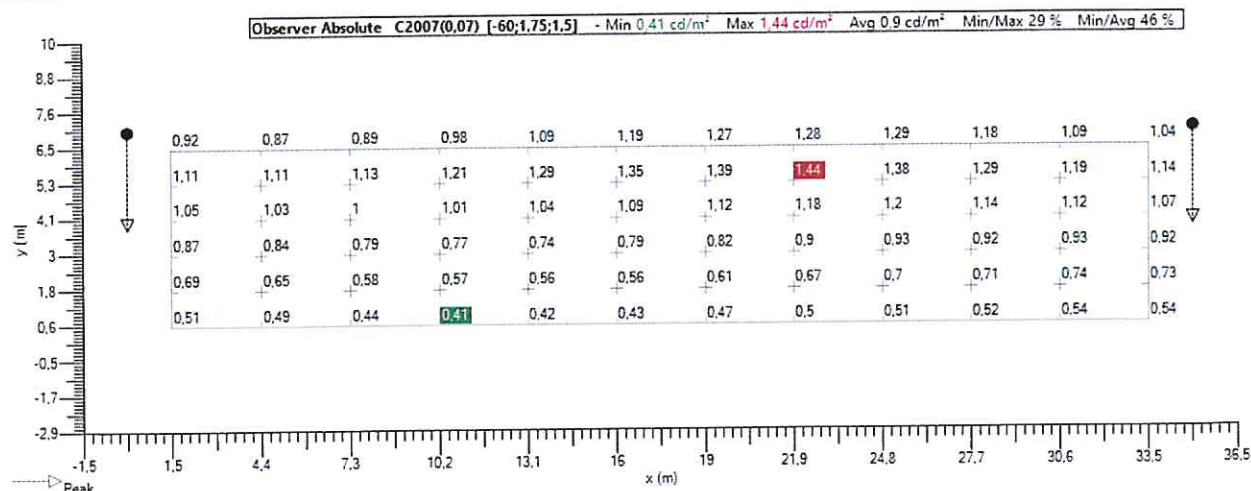
4.3. Gruppi apparecchi

| Lineare | | | | | | | | | | | | | | | |
|-------------------------------------|----|-----------|----------|----------|-------------|-----------|-----------|------------|------------|---------------|-----------------|---------------|----------|----------|----------|
| | N° | Posizione | | | Apparecchio | | | | Dimensioni | | | Rotazione | | | |
| | | X [m] | Y [m] | Z [m] | Matrice | Az [°] | Tl [°] | Rot [°] | Dim [%] | Conteggi o | Distanza [m] | Taglia [m] | X [°] | Y [°] | Z [°] |
| <input checked="" type="checkbox"/> | 1 | -35,00 | 7,00 | 8,00 | 372652 | 180,0 | 5,0 | 0,0 | 100 | 5 | 35,00 | 140,00 | 0,0 | 0,0 | 0,0 |

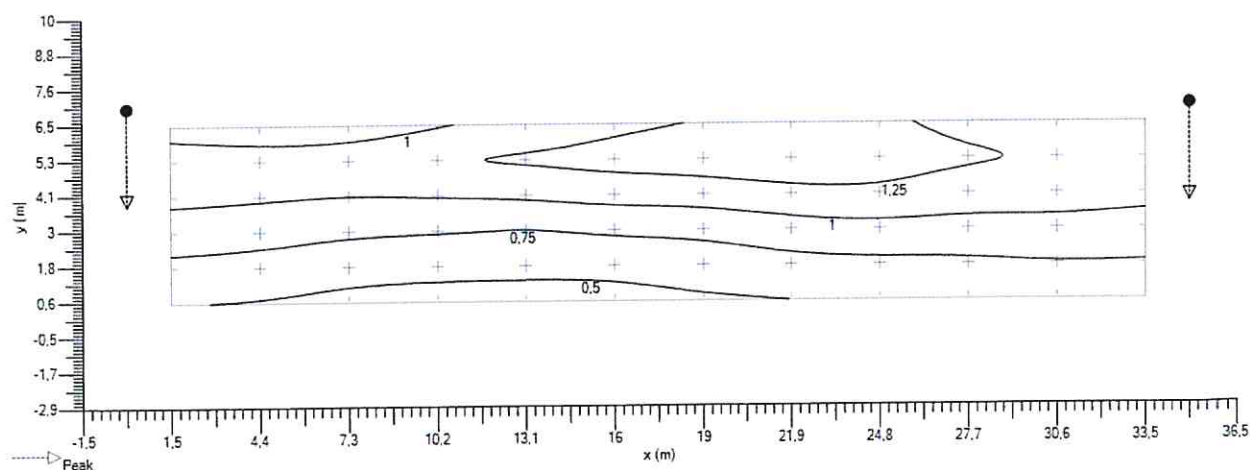
4.4. Road (LU) - C2007 - Luminanza

4.4.1. Road (LU) - Luminanza - Osservatore assoluta

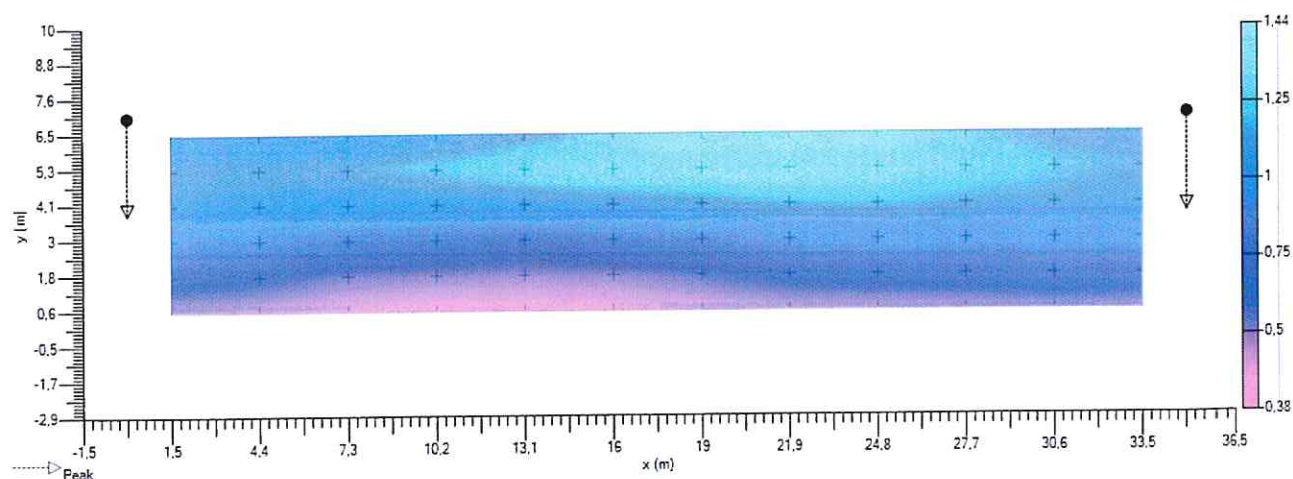
Valori



Isolinee

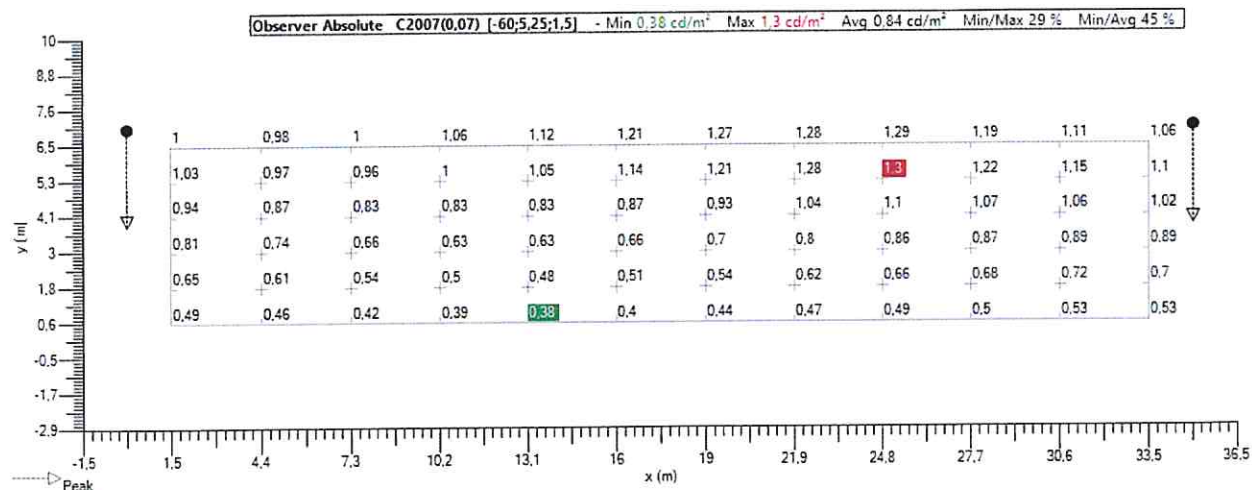


Ombre

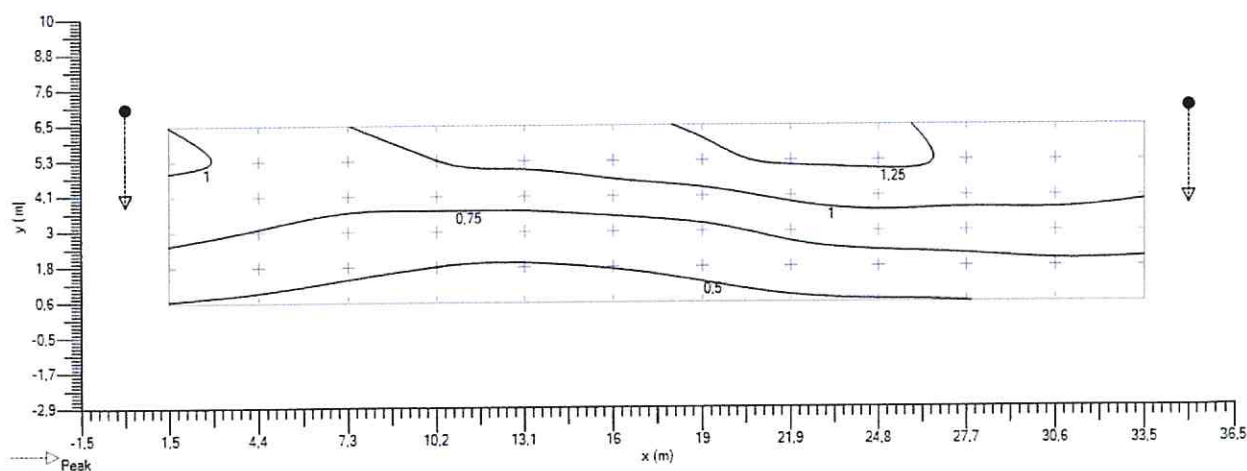


4.4.2. Road (LU) - Luminanza - Osservatore assoluta

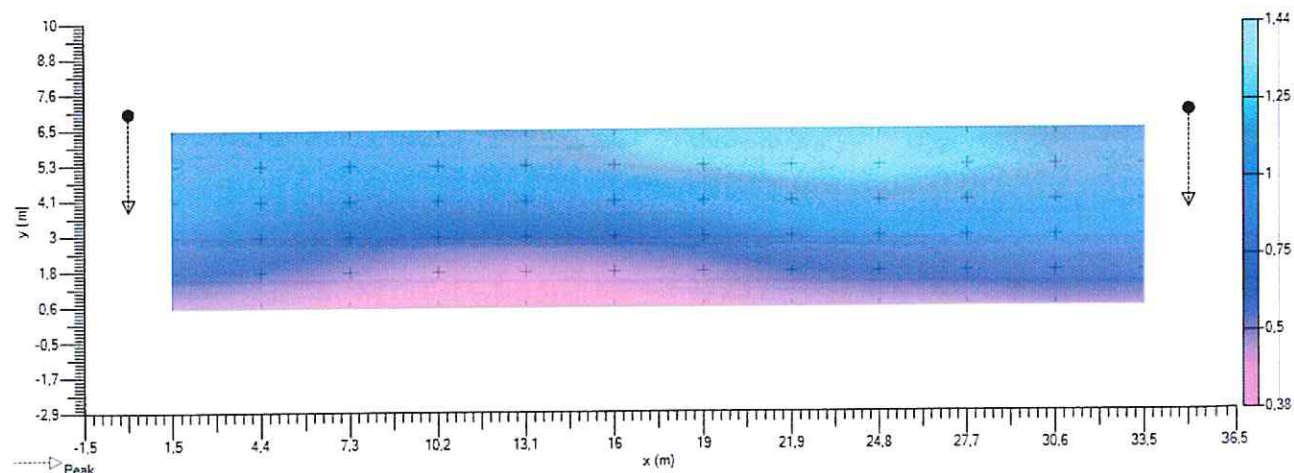
Valori



Isolinee



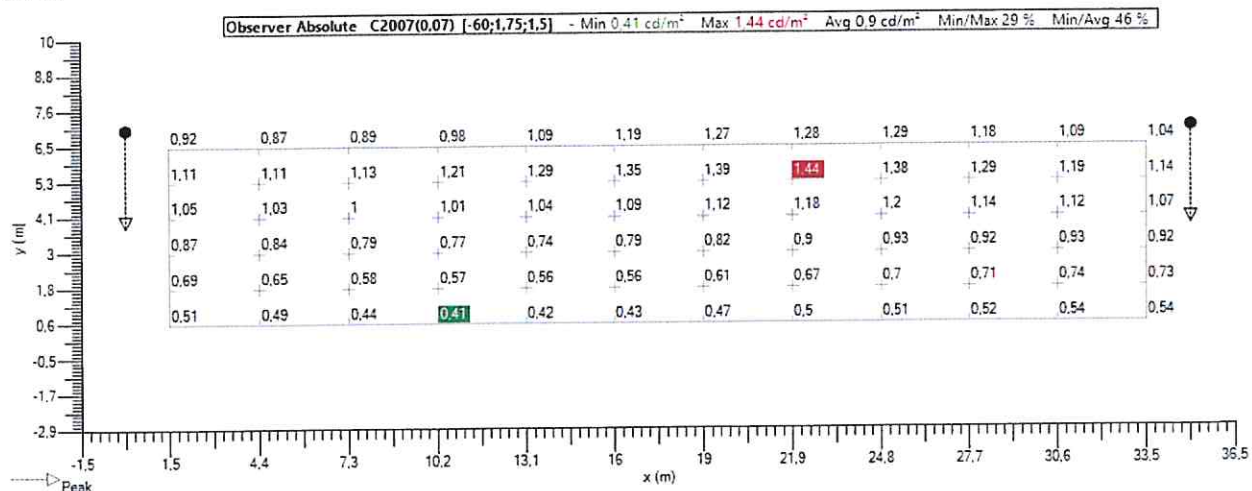
Ombre



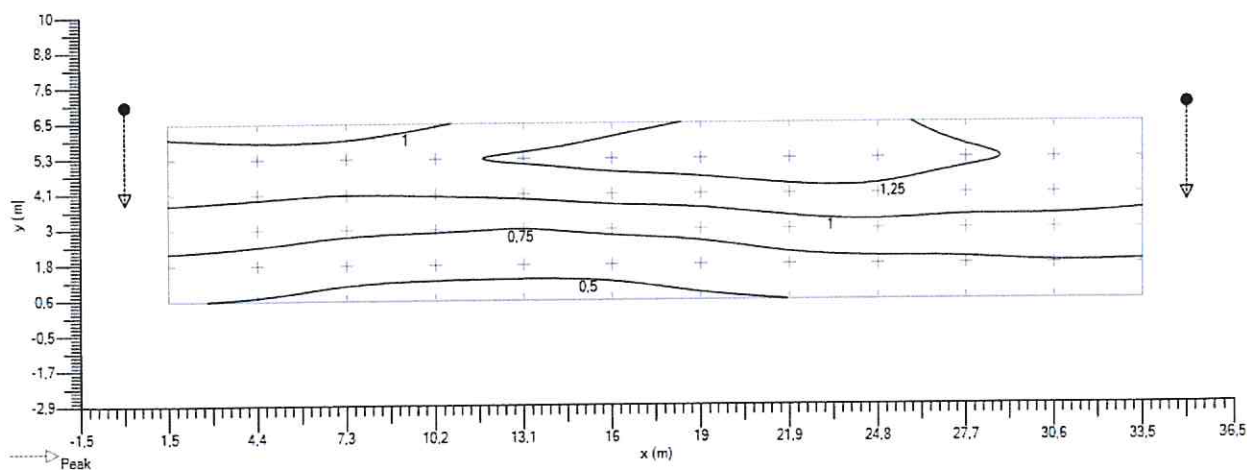
4.5. Road (LU) - C2007 - Luminanza

4.5.1. Road (LU) - Luminanza - Osservatore - Opzionale

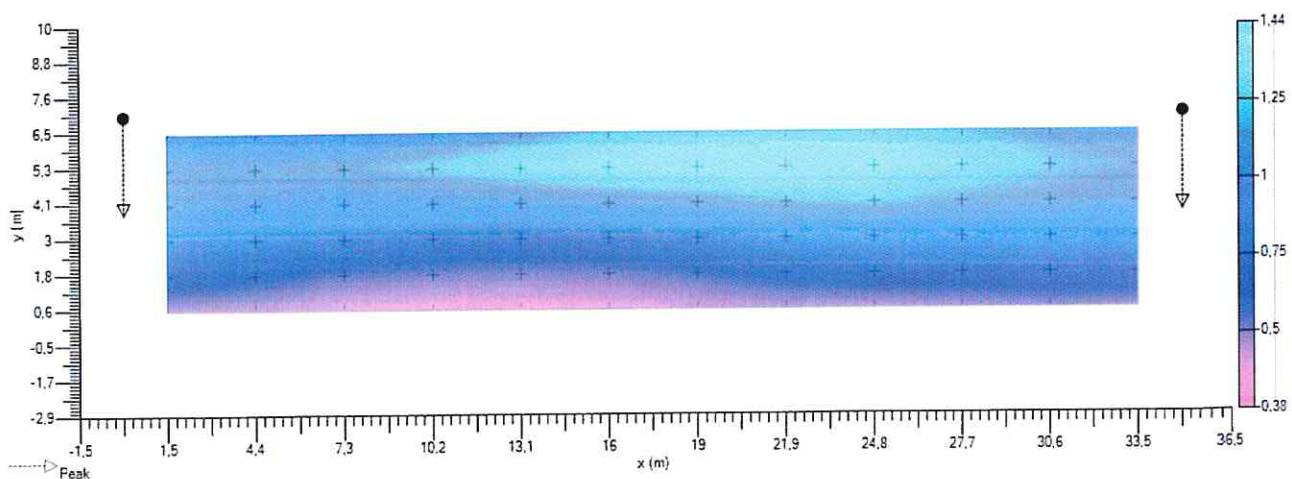
Valori



Isolinee

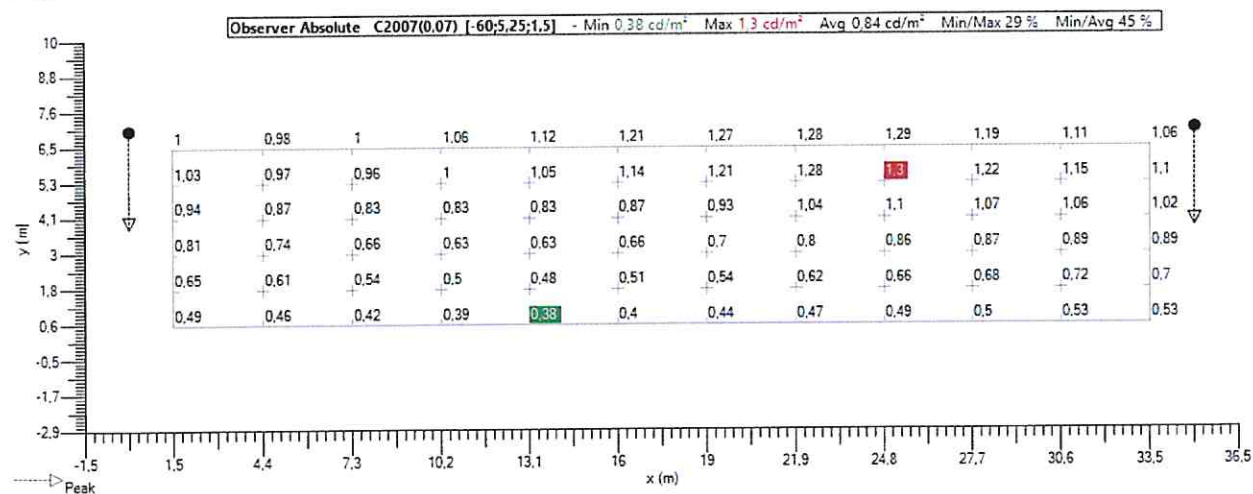


Ombre

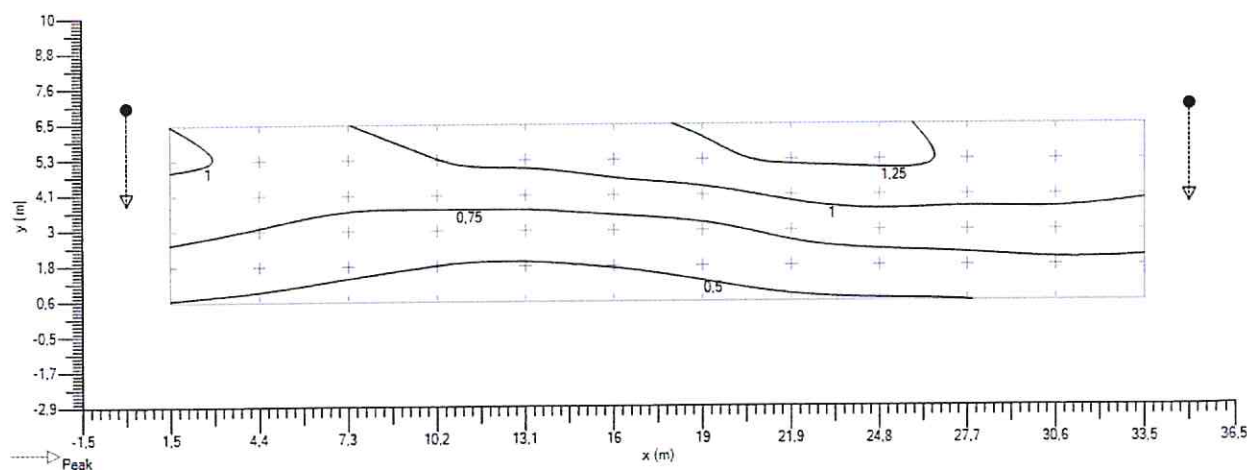


4.5.2. Road (LU) - Luminanza - Osservatore - Opzionale

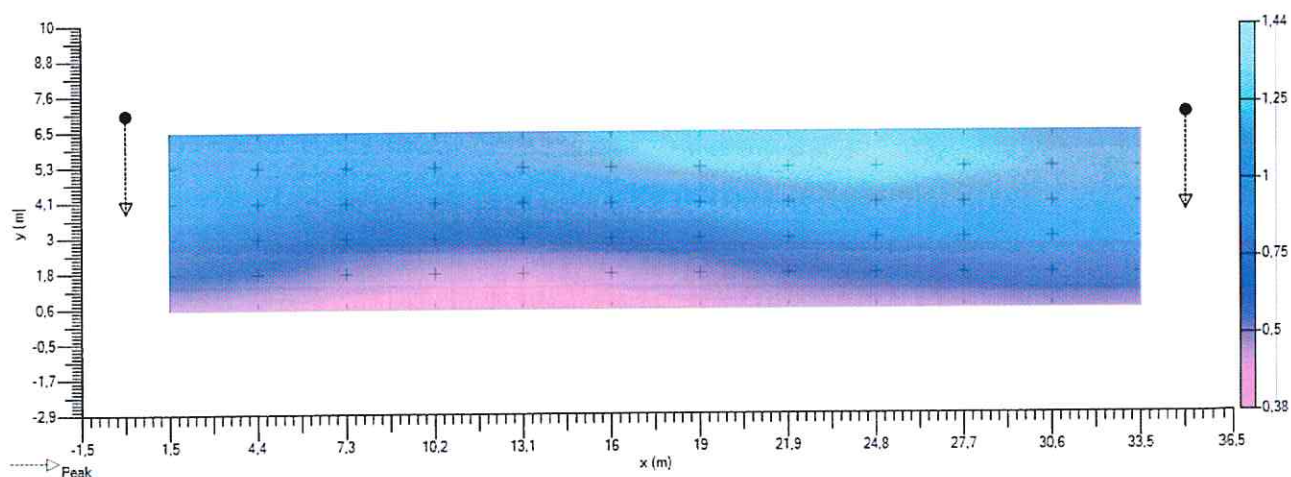
Valori



Isolinee

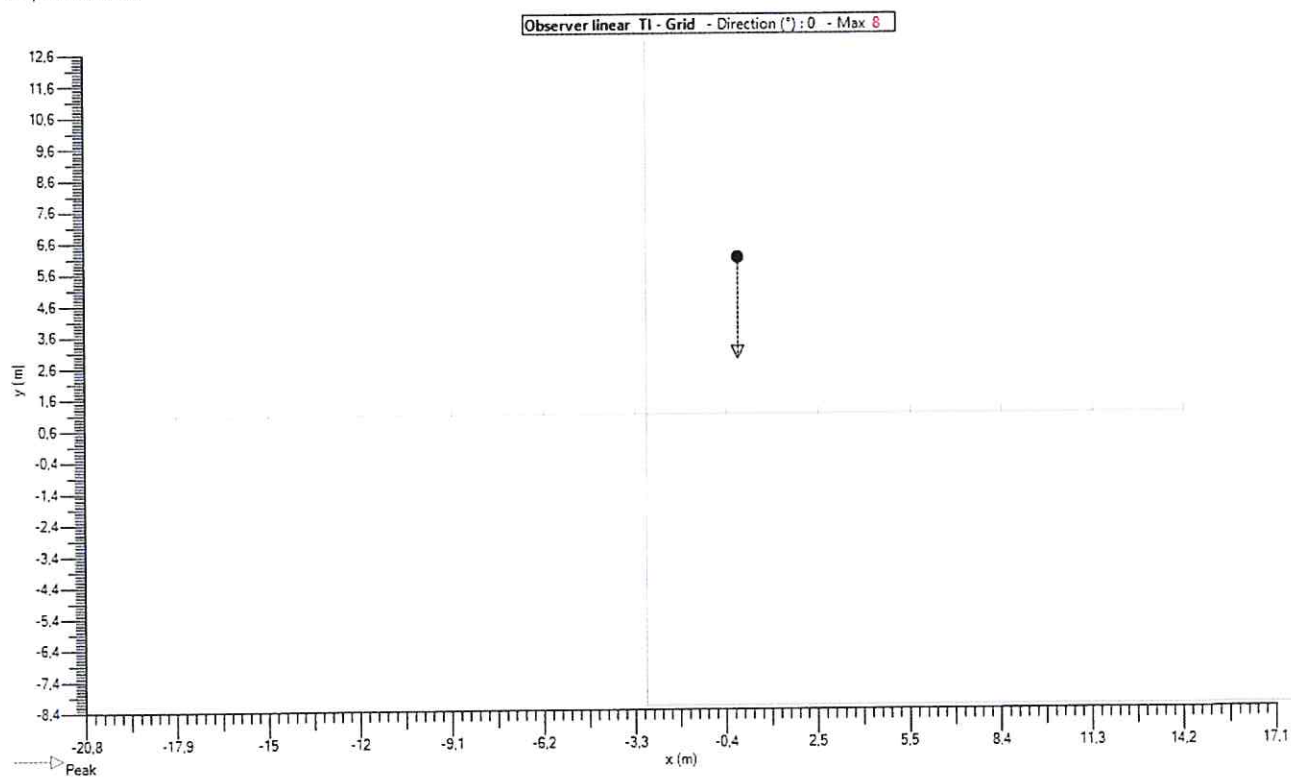


Ombre

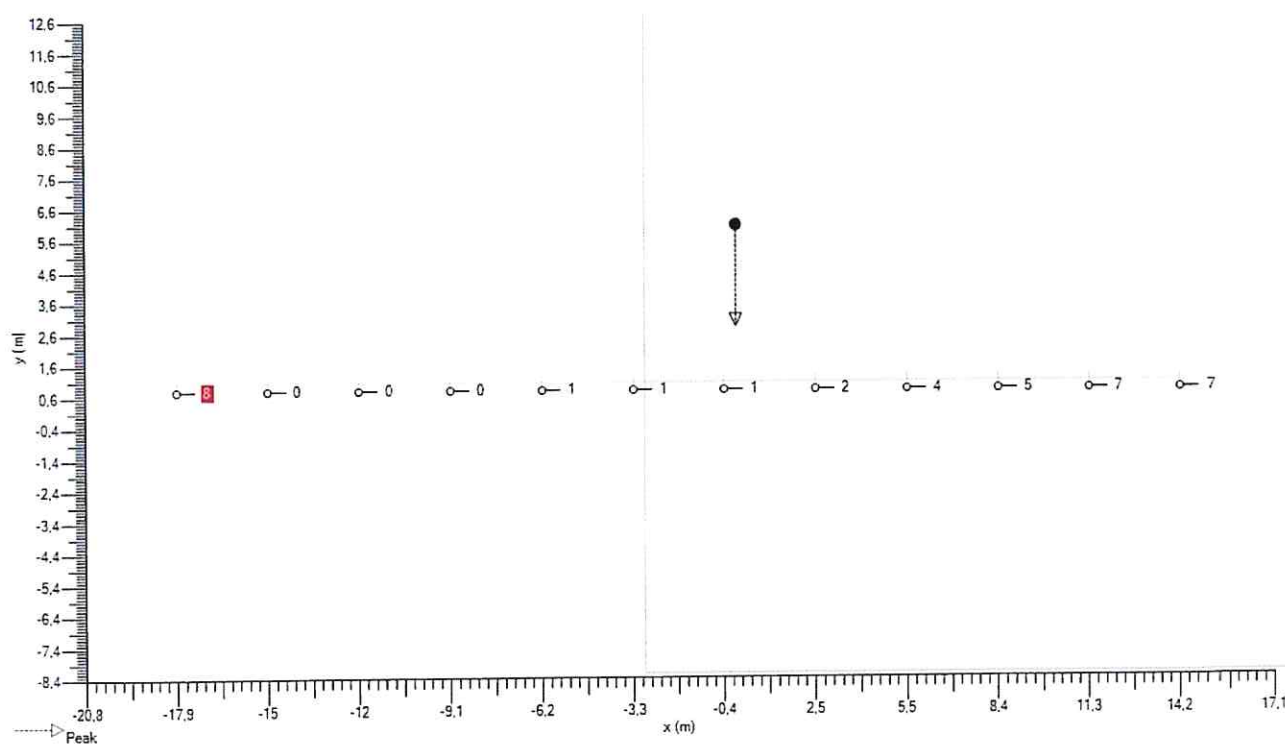


4.6. Road (TI 1) - Observer linear - TI - Griglia

Implantation

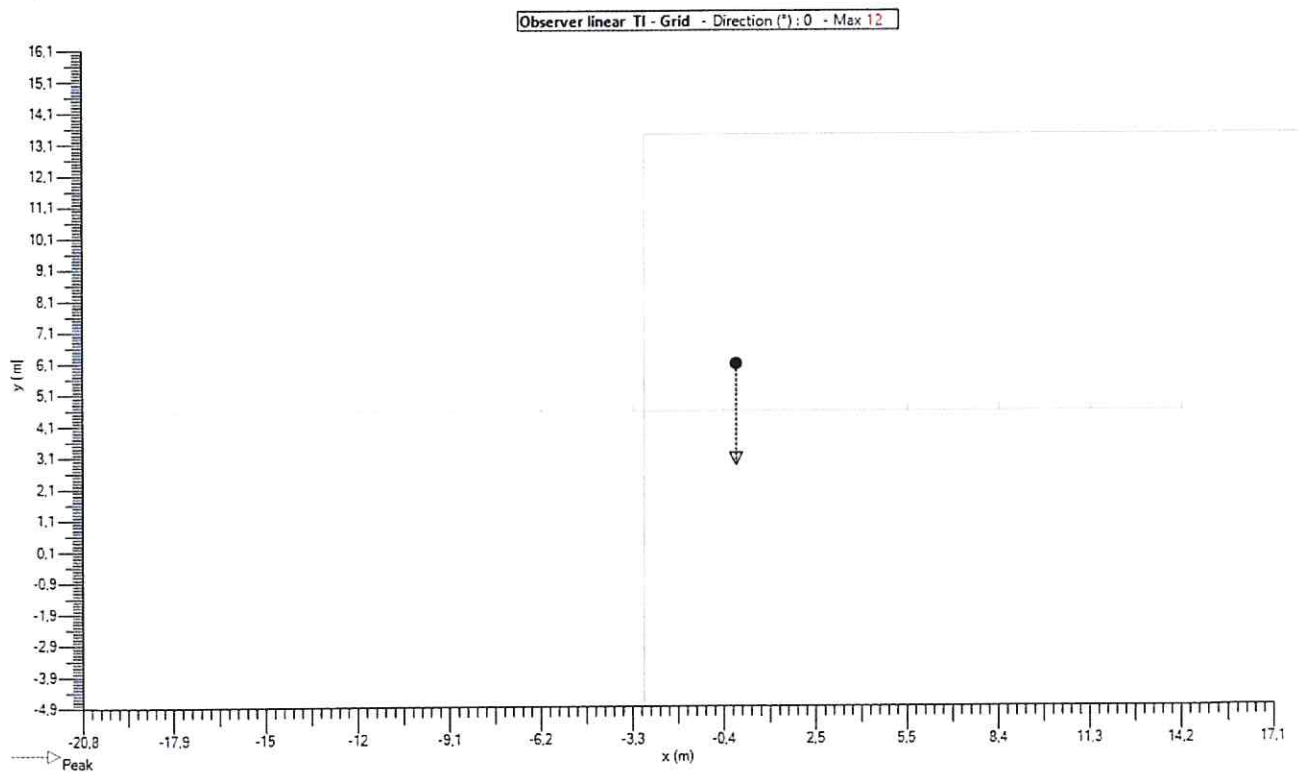


Valori

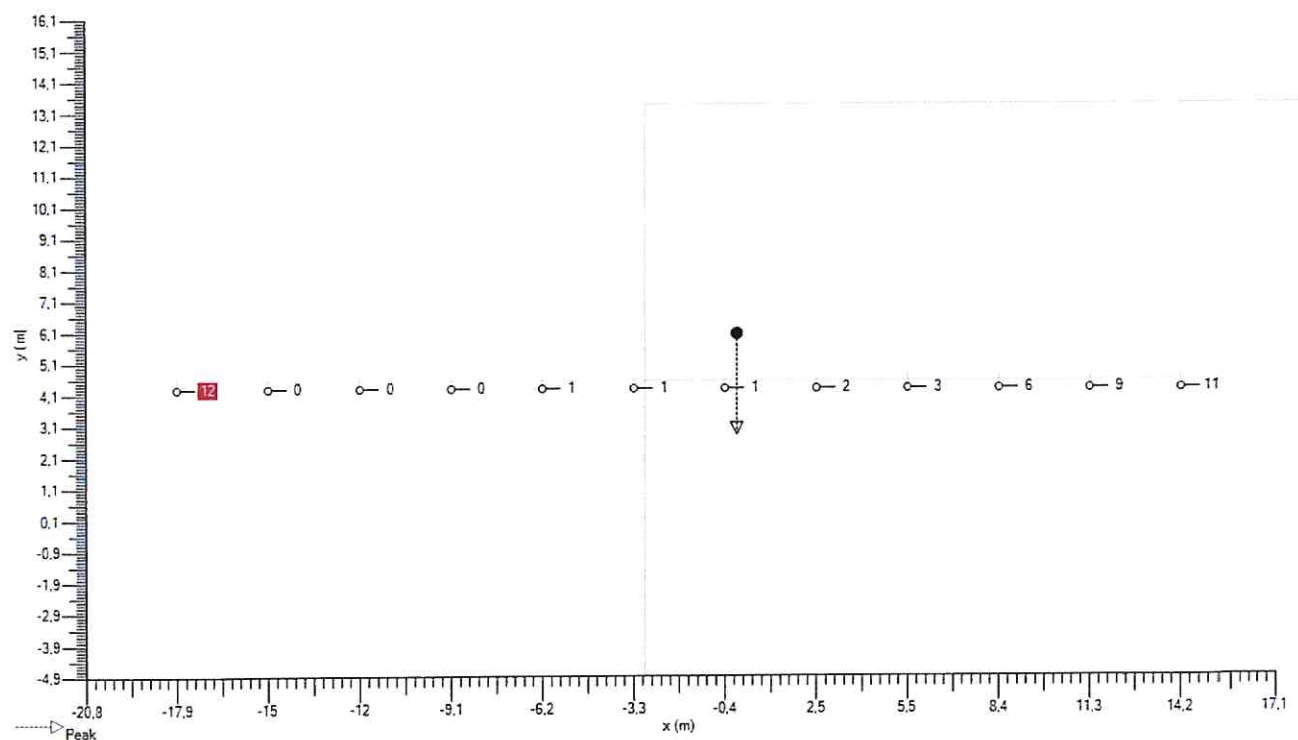


4.7. Road (TI 2) - Observer linear - TI - Griglia

Implantation



Valori



5. Griglie

5.1. Road (LU)

Generale

Tipologia : Griglia rettangolare XY

Uso Esclusivo : -

It : ☒

Colore : 

Geometria

Origine

X :

Y :

Z : m

Rotazione

X :

Y :

Z : °

Dimensione

Conteggio X :

Conteggio Y :

Distanza X :

Distanza Y : m

Taglia X :

Taglia Y : m

6. Osservatore

6.1. Road (TI 1)

General

Tipologia : Observer linear

It : ☒

_Color : 

Calculation

_Calculation : TI - Griglia

Direzioni : 0,0

Griglia : Road (LU)

Geometry

Origine

X : -17,88

Y : 1,75

Z : 1,50 m

Rotazione

X : 0,0

Y : 0,0

Z : 0,0 °

Dimension

Conteggio : 12

Distanza : 2,92 m

Size : 32,08 m

6.2. Road (TI 2)

General

Tipologia : Observer linear

It : ☒

_Color : 

Calculation

_Calculation : TI - Griglia

Direzioni : 0,0

Griglia : Road (LU)

Geometry

Origine

X : -17,88

Y : 5,25

Z : 1,50 m

Rotazione

X : 0,0

Y : 0,0

Z : 0,0 °

Dimension

Conteggio : 12

Distanza : 2,92 m

Size : 32,08 m