

**DATE:** 21 March 2025  
**DESIGNER:** Nick Smith  
**PROJECT No:** 3125  
**PROJECT NAME:** Leicester Road, Earl Shilton



Nick Smith Associates  
*Lighting to the end of the road*

Design prepared with S9 AS64\_LED\_142W\_GR5\_3000K\_FG  
(lantern A) also checked with A64\_GEN2\_LED\_129W\_CLO\_GR5  
\_Blue)\_G0\_3000K\_FG.ies (lantern G) which works slightly better at  
the same spacing and improved uniformity

## **Outdoor Lighting Report**

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## Layout Report

### General Data

Dimensions in Metres Angles in Degrees

### Calculation Grids

| ID | Grid Name             | X         | Y         | X' Length | Y' Length | X' Spacing | Y' Spacing |
|----|-----------------------|-----------|-----------|-----------|-----------|------------|------------|
| 1  | Section 278           | 446745.38 | 298233.00 | 172.72    | 375.00    | 1.49       | 1.50       |
| 2  | Site Junction         | 446813.54 | 298399.00 | 41.40     | 79.00     | 1.48       | 1.49       |
| 3  | Shilton Road Junction | 446818.55 | 298515.99 | 41.40     | 79.00     | 1.48       | 1.49       |
| 4  | Cyclepath             | 446820.65 | 298477.78 | 16.40     | 100.99    | 1.49       | 1.49       |

### Luminaires

#### Luminaire C Data

|                      |                                    |
|----------------------|------------------------------------|
| Supplier             | _My data                           |
| Type                 | S1 HWD2-#3K12 500-N2-CLO Gen 5     |
| Lamp(s)              | LED 3000K                          |
| LampFlux(klm)/Colour | 2.48 3000/72                       |
| File Name            | S1 HWD2-#3K12 500-N2-CLO (19W).ldt |
| Maintenance Factor   | 0.83                               |
| Lum. Int. Class      | G3                                 |
| No. in Project       | 2                                  |

#### Luminaire G Data



|                      |                                                 |
|----------------------|-------------------------------------------------|
| Supplier             | TRT Lighting                                    |
| Type                 | A64_GEN2_LED_129W_CLO_GR5_Blue)_G0_3000K_FG     |
| Lamp(s)              | 42 0129 0000 100                                |
| Lamp Flux (klm)      | 17.98                                           |
| File Name            | A64_GEN2_LED_129W_CLO_GR5_Blue)_G0_3000K_FG.ies |
| Maintenance Factor   | 0.83                                            |
| Imax70,80,90(cd/klm) | 662.1, 393.9, 0.0                               |
| No. in Project       | 12                                              |

#### Luminaire H Data



|                    |                                                   |
|--------------------|---------------------------------------------------|
| Supplier           | TRT Lighting                                      |
| Type               | A32_GEN2_LED_40W_CLO_GA2_(Yellow)_G1_3000K_FG     |
| Lamp(s)            | 42 0040 0000 100                                  |
| Lamp Flux (klm)    | 6.21                                              |
| File Name          | A32_GEN2_LED_40W_CLO_GA2_(Yellow)_G1_3000K_FG.ies |
| Maintenance Factor | 0.83                                              |
| Lum. Int. Class    | G1                                                |
| No. in Project     | 1                                                 |

#### Luminaire X Data

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Supplier             | _My data                                                                  |
| Type                 | T5 AMPERA MIDI 5119 - 64 OSOLON SQUA RE GIANT 700mA NW 230V 00            |
| Lamp(s)              | 64 OSOLON SQUARE GIANT 700mA _NW                                          |
| LampFlux(klm)/Colour | 17.05 NW 4000K/70                                                         |
| File Name            | T5_AMPERA MIDI 5119 64 OSOLON SQUA RE GIANT 700mA NW 136W 403192 Flat ... |
| Maintenance Factor   | 0.83                                                                      |
| Lum. Int. Class      | G3                                                                        |
| No. in Project       | 1                                                                         |

### Layout

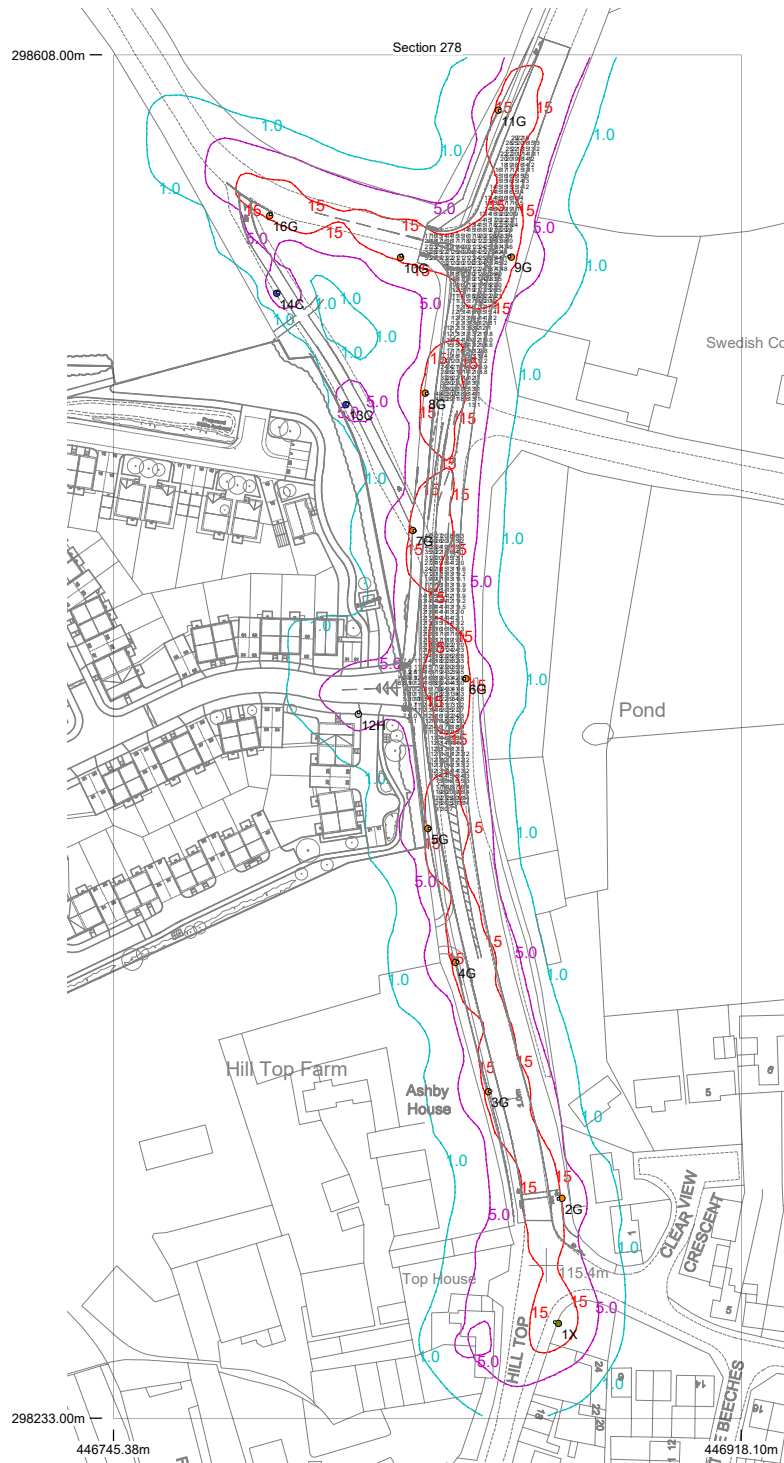
| ID | Type | X         | Y         | Height | Angle  | Tilt | Cant | Out-reach | Dimmed to | Target X | Target Y | Target Z |
|----|------|-----------|-----------|--------|--------|------|------|-----------|-----------|----------|----------|----------|
| 1  | X    | 446867.71 | 298259.18 | 10.00  | 162.00 | 5.00 | 0.00 | 1.00      | 100%      |          |          |          |
| 2  | G    | 446868.69 | 298293.56 | 10.00  | 188.00 | 5.00 | 0.00 | 1.00      | 100%      |          |          |          |
| 3  | G    | 446848.43 | 298322.86 | 10.00  | 12.00  | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 4  | G    | 446839.41 | 298358.46 | 10.00  | 12.00  | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 5  | G    | 446831.81 | 298395.25 | 10.00  | 0.00   | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 6  | G    | 446842.33 | 298436.44 | 10.00  | 181.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 7  | G    | 446827.66 | 298477.15 | 10.00  | 352.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |

### Layout Continued

| ID | Type | X         | Y         | Height | Angle  | Tilt | Cant | Out-reach | Dimmed to | Target X | Target Y | Target Z |
|----|------|-----------|-----------|--------|--------|------|------|-----------|-----------|----------|----------|----------|
| 8  | G    | 446831.08 | 298514.94 | 10.00  | 353.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 9  | G    | 446854.77 | 298552.39 | 10.00  | 164.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 10 | G    | 446824.38 | 298552.29 | 10.00  | 71.00  | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 11 | G    | 446851.19 | 298592.73 | 10.00  | 343.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 12 | H    | 446812.72 | 298426.67 | 8.00   | 85.00  | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 13 | C    | 446809.26 | 298511.81 | 6.00   | 26.00  | 0.00 | 0.00 | 0.40      | 60%       |          |          |          |
| 14 | C    | 446790.25 | 298542.40 | 6.00   | 29.00  | 0.00 | 0.00 | 0.40      | 60%       |          |          |          |
| 15 | G    | 446867.37 | 298629.23 | 10.00  | 343.00 | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |
| 16 | G    | 446788.37 | 298563.75 | 10.00  | 62.00  | 0.00 | 0.00 | 0.50      | 100%      |          |          |          |

## Horizontal Illuminance (lux)

### Section 278

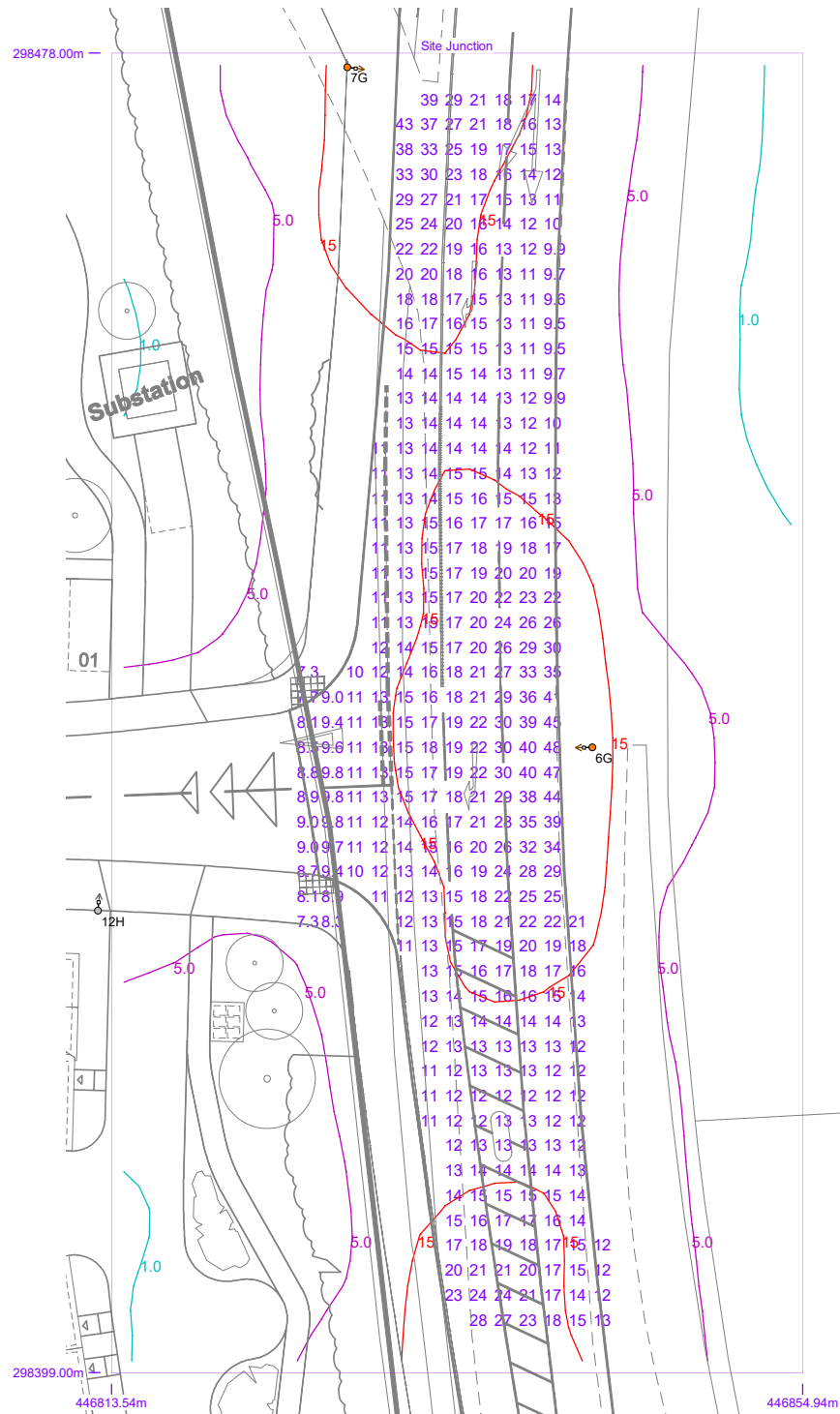


### Results

|           |       |
|-----------|-------|
| Eav       | 18.25 |
| Emin      | 6.77  |
| Emax      | 51.77 |
| Emin/Emax | 0.13  |
| Emin/Eav  | 0.37  |

## Horizontal Illuminance (lux)

Site Junction

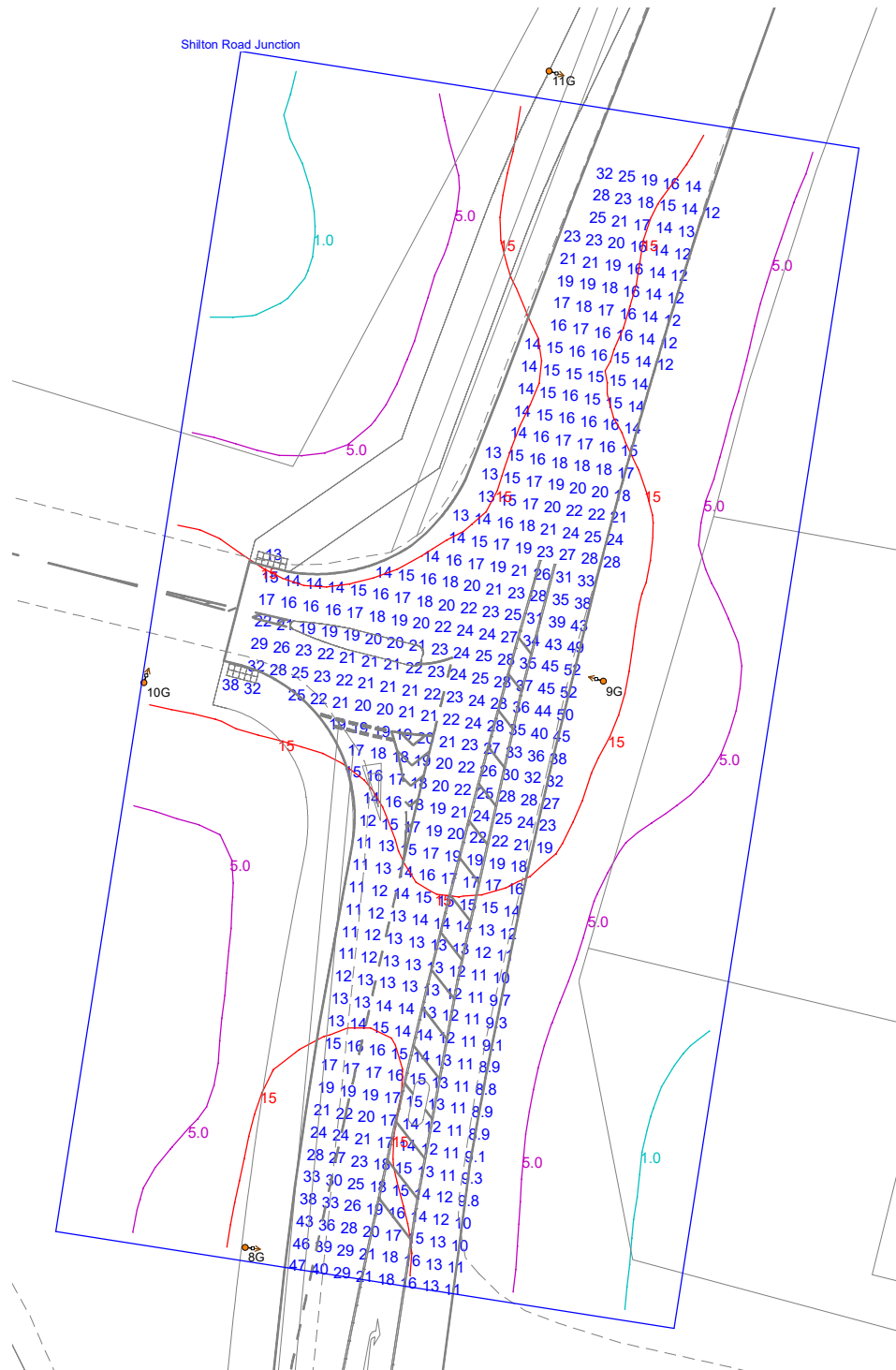


### Results

|           |       |
|-----------|-------|
| Eav       | 16.93 |
| Emin      | 7.28  |
| Emax      | 47.62 |
| Emin/Emax | 0.15  |
| Emin/Eav  | 0.43  |
|           |       |

## Horizontal Illuminance (lux)

Shilton Road Junction

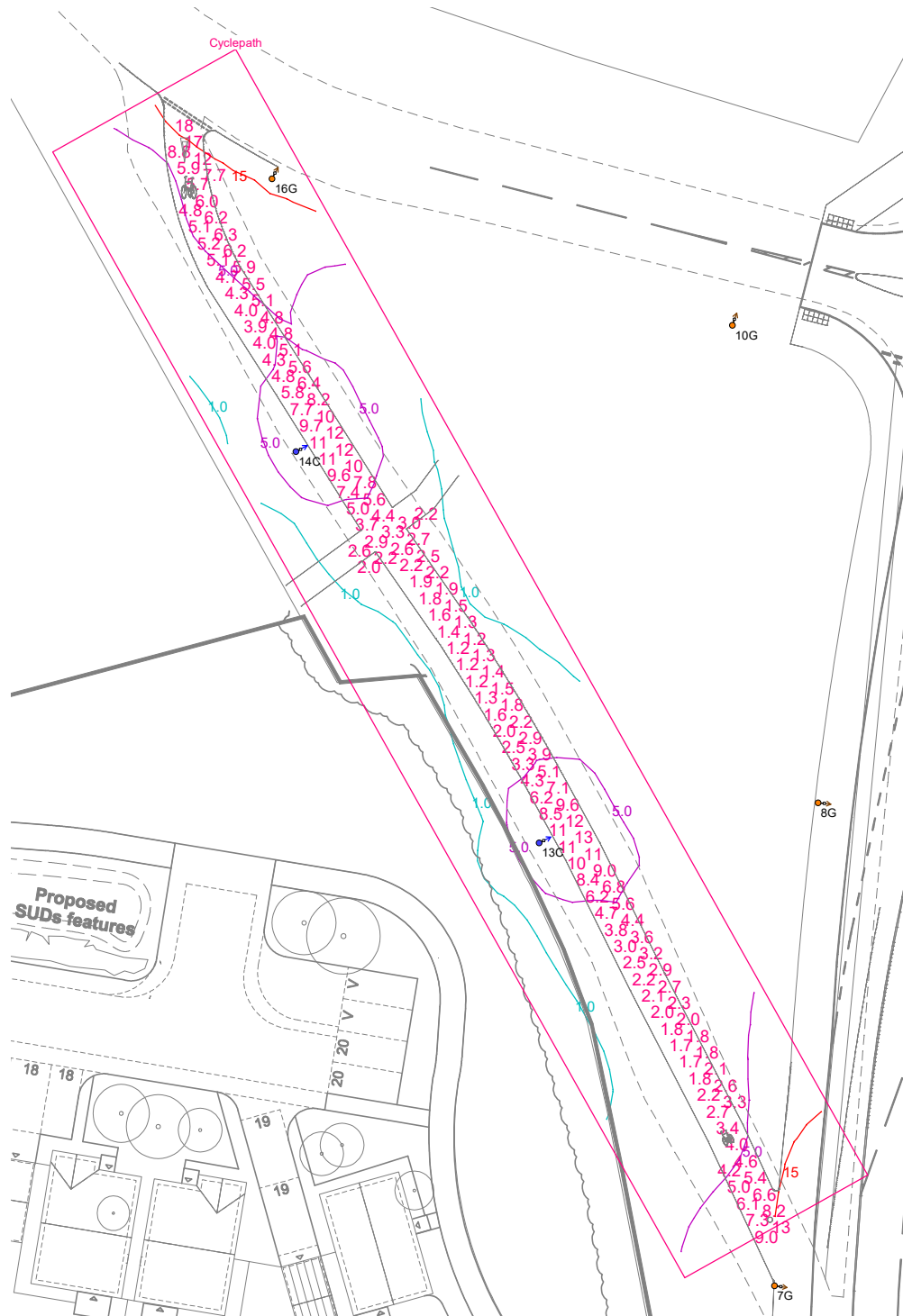


### Results

|           |       |
|-----------|-------|
| Eav       | 19.43 |
| Emin      | 8.84  |
| Emax      | 52.39 |
| Emin/Emax | 0.17  |
| Emin/Eav  | 0.46  |
|           |       |

## Horizontal Illuminance (lux)

Cyclepath



### Results

|           |       |
|-----------|-------|
| Eav       | 5.11  |
| Emin      | 1.17  |
| Emax      | 18.33 |
| Emin/Emax | 0.06  |
| Emin/Eav  | 0.23  |
|           |       |