

**DATE:** 18 September 2026  
**DESIGNER:** F O' Sullivan  
**PROJECT No:** 24083HD  
**PROJECT NAME:** Longview Neighbourhood 7

**LIGHTING  
REALITY**

**LIGHTING CLASSIFICATION**

GRID 1: SPINE ROAD MIDDLE - C4  
GRID 2: SPINE ROAD CONFLICT ZONE 1 - C3  
GRID3 : SPINE ROAD CONFLICT ZONE 2 - C3  
GRID 4: SPINE ROAD CONFLICT ZONE 3 - C3  
GRID 5: SPINE ROAD CONFLICT ZONE 4 - C3  
GRID 6: SPINE ROAD BOTTOM - C4  
GRID 7: N7 ESTATE ROADS P4  
GRID 8: APARTMENT BLOCKS - P4

## **Outdoor Lighting Report**

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  | Grid 1    | 569446.24 | 574983.14 | 41.63     | 69.13     | 1.49       | 1.47       |
| 2  | Grid 2    | 569428.79 | 575150.24 | 45.95     | 42.02     | 1.48       | 1.45       |
| 3  | Grid 3    | 569438.60 | 575051.07 | 28.91     | 90.69     | 1.45       | 1.49       |
| 4  | Grid 4    | 569476.04 | 574939.69 | 33.06     | 49.38     | 1.44       | 1.50       |
| 5  | Grid 5    | 569526.87 | 574864.48 | 30.97     | 47.11     | 0.74       | 1.27       |
| 6  | Grid 6    | 569496.40 | 574901.83 | 32.54     | 43.21     | 1.48       | 1.17       |
| 7  | Grid 7    | 569328.49 | 574781.81 | 237.46    | 476.86    | 1.49       | 1.91       |
| 8  | Grid 8    | 569229.76 | 575184.43 | 134.48    | 65.08     | 1.49       | 1.59       |

Luminaires

Luminaire A Data

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Supplier             | Philips                                                         |
| Type                 | BGP703 DW50                                                     |
| Lamp(s)              | LED-HB 5.2S 730                                                 |
| Lamp Flux (klm)      | 11.50                                                           |
| File Name            | Luma Gen2 Mini_BGP703_DW50_11500_40<br>LED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.92                                                            |
| Imax70,80,90(cd/klm) | 595.5, 51.0, 0.0                                                |
| No. in Project       | 14                                                              |

Luminaire B Data

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Supplier             | Philips                                                         |
| Type                 | BGP703 DM30                                                     |
| Lamp(s)              | LED-HB 5.2S 730                                                 |
| Lamp Flux (klm)      | 11.50                                                           |
| File Name            | Luma Gen2 Mini_BGP703_DM30_11500_40L<br>ED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.84                                                            |
| Imax70,80,90(cd/klm) | 455.2, 34.3, 0.0                                                |
| No. in Project       | 1                                                               |

Luminaire C Data

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Supplier             | Philips                                                        |
| Type                 | BGP703 DW50                                                    |
| Lamp(s)              | LED-HB 5.2S 730                                                |
| Lamp Flux (klm)      | 9.50                                                           |
| File Name            | Luma Gen2 Mini_BGP703_DW50_9500_40L<br>ED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.92                                                           |
| Imax70,80,90(cd/klm) | 595.5, 51.0, 0.0                                               |
| No. in Project       | 2                                                              |

Luminaire D Data

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Supplier             | Philips                                                         |
| Type                 | BGP702 DW50                                                     |
| Lamp(s)              | LED-HB 5.2S 730                                                 |
| Lamp Flux (klm)      | 4.00                                                            |
| File Name            | Luma Gen2 Micro_BGP702_DW50_4000_20<br>LED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.84                                                            |
| Imax70,80,90(cd/klm) | 595.5, 51.0, 0.0                                                |
| No. in Project       | 52                                                              |

**Luminaires**

**Luminaire E Data**

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Supplier             | Philips                                                         |
| Type                 | BGP702 DX10                                                     |
| Lamp(s)              | LED-HB 5.2S 730                                                 |
| Lamp Flux (klm)      | 3.40                                                            |
| File Name            | Luma Gen2 Micro_BGP702_DX10_3400_20L<br>ED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.84                                                            |
| Imax70,80,90(cd/klm) | 522.9, 97.5, 0.0                                                |
| No. in Project       | 6                                                               |

**Luminaire F Data**

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Supplier             | Philips                                                      |
| Type                 | BGP701 DRN1                                                  |
| Lamp(s)              | LED-HB 5.2S 730                                              |
| Lamp Flux (klm)      | 0.80                                                         |
| File Name            | Luma Gen2 Nano_BGP701_DRN1_800_6LE<br>D_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.84                                                         |
| Imax70,80,90(cd/klm) | 495.5, 24.7, 0.0                                             |
| No. in Project       | 3                                                            |

**Luminaire G Data**

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Supplier             | Philips                                                        |
| Type                 | BGP702 DRXN0                                                   |
| Lamp(s)              | LED-HB 5.2S 730                                                |
| Lamp Flux (klm)      | 0.80                                                           |
| File Name            | Luma Gen2 Micro_BGP702_DRXN0_800_6L<br>ED_5.2S_CLO_L90_730.ies |
| Maintenance Factor   | 0.84                                                           |
| Imax70,80,90(cd/klm) | 1419.1, 20.0, 0.0                                              |
| No. in Project       | 19                                                             |

DATE: 18 September 2026  
PROJECT No: 24083HD

DESIGNER: F O' Sullivan  
PROJECT NAME: Longview Neighbourhood 7

**Layout**

| ID | Type | X         | Y         | Height | Angle  | Tilt | Cant | Out-reach | Target X | Target Y | Target Z |
|----|------|-----------|-----------|--------|--------|------|------|-----------|----------|----------|----------|
| 6  | A    | 569421.98 | 575197.13 | 8.00   | 50.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 2  | B    | 569425.90 | 575171.61 | 8.00   | 50.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 3  | A    | 569463.53 | 575165.62 | 8.00   | 200.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 4  | A    | 569449.59 | 575142.89 | 8.00   | 0.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 5  | A    | 569451.44 | 575189.96 | 8.00   | 212.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 6  | A    | 569463.26 | 575119.46 | 8.00   | 173.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 7  | A    | 569446.13 | 575097.12 | 8.00   | 354.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 8  | A    | 569462.05 | 575073.66 | 8.00   | 184.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 9  | A    | 569448.93 | 575049.32 | 8.00   | 19.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 10 | C    | 569469.23 | 575026.28 | 8.00   | 190.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 11 | A    | 569462.38 | 574995.00 | 8.00   | 23.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 12 | A    | 569471.18 | 574972.47 | 8.00   | 26.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 13 | A    | 569483.56 | 574949.92 | 8.00   | 32.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 14 | C    | 569498.15 | 574927.36 | 8.00   | 38.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 15 | A    | 569510.15 | 574909.49 | 8.00   | 33.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 16 | A    | 569524.80 | 574887.03 | 8.00   | 33.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 17 | D    | 569496.82 | 574974.44 | 6.00   | 138.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 18 | D    | 569554.30 | 574892.67 | 6.00   | 117.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 19 | A    | 569535.81 | 574870.90 | 8.00   | 35.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 20 | G    | 569361.05 | 575222.39 | 6.00   | 178.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 21 | G    | 569361.28 | 575202.51 | 6.00   | 180.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 47 | D    | 569485.75 | 575176.51 | 6.00   | 91.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 68 | D    | 569470.69 | 575099.59 | 6.00   | 248.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 78 | D    | 569452.81 | 574974.07 | 6.00   | 106.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 79 | D    | 569418.25 | 574972.80 | 6.00   | 91.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 81 | D    | 569382.19 | 574972.80 | 6.00   | 91.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 82 | D    | 569400.12 | 575042.49 | 6.00   | 353.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 84 | D    | 569349.13 | 574972.80 | 6.00   | 90.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 86 | D    | 569290.76 | 574993.88 | 6.00   | 19.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 88 | D    | 569281.79 | 575029.57 | 6.00   | 14.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 89 | D    | 569273.23 | 575064.29 | 6.00   | 10.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 86 | D    | 569310.04 | 575064.03 | 6.00   | 88.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 87 | D    | 569316.41 | 575100.06 | 6.00   | 270.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 88 | D    | 569350.53 | 575073.34 | 6.00   | 271.00 | 0.00 | 0.00 | 0.50      |          |          |          |

|    |   |           |           |      |            |      |      |      |  |  |  |
|----|---|-----------|-----------|------|------------|------|------|------|--|--|--|
| 89 | D | 569383.41 | 575064.12 | 6.00 | 90.00      | 5.00 | 0.00 | 0.50 |  |  |  |
| 90 | D | 569425.20 | 575063.93 | 6.00 | 94.00<br>4 | 0.00 | 0.00 | 0.50 |  |  |  |

**Layout Continued**

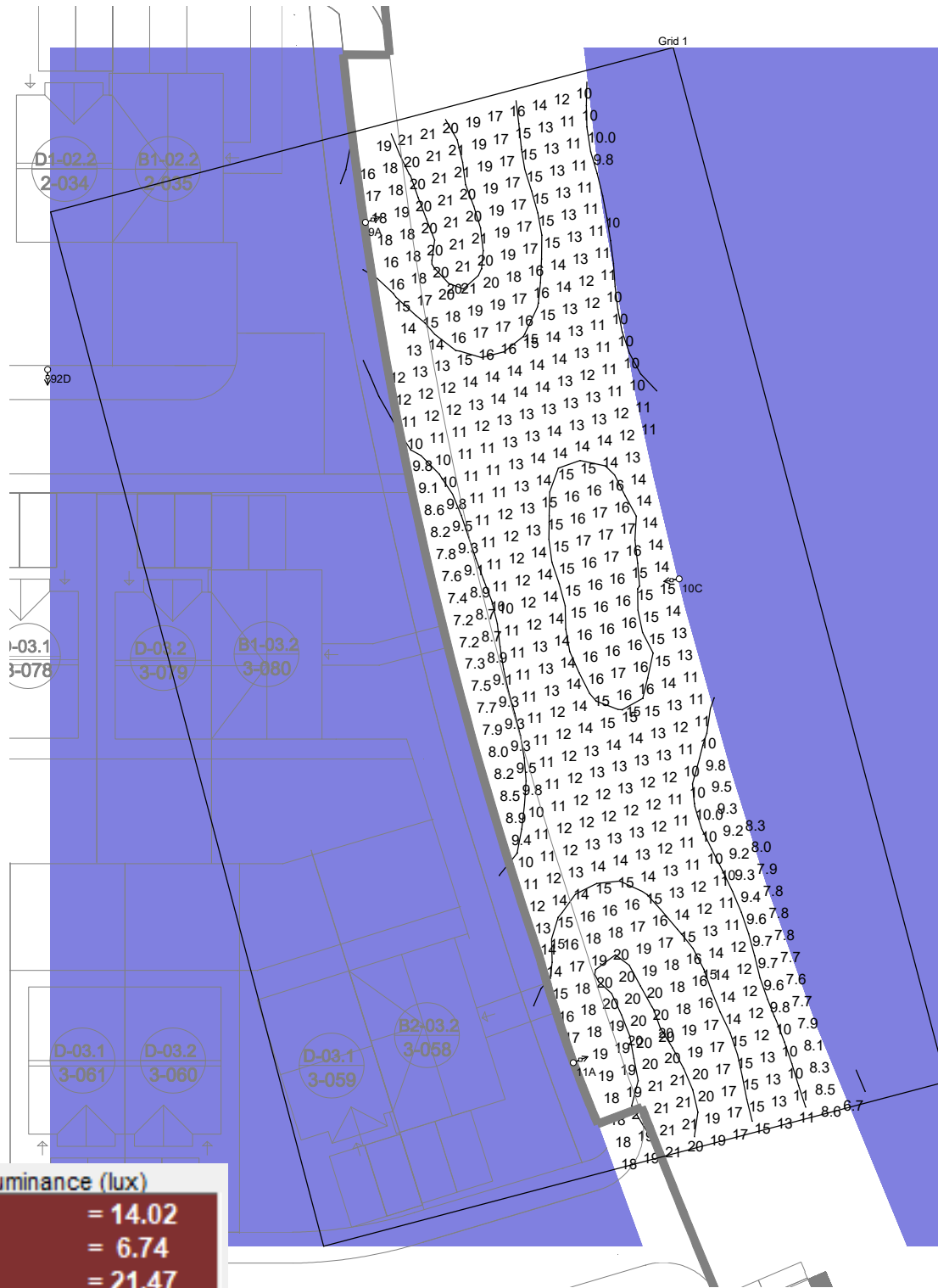
| ID  | Type | X         | Y         | Height | Angle  | Tilt | Cant | Out-reach | Target X | Target Y | Target Z |
|-----|------|-----------|-----------|--------|--------|------|------|-----------|----------|----------|----------|
| 91  | D    | 569372.11 | 575045.11 | 6.00   | 181.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 92  | D    | 569428.38 | 575039.80 | 6.00   | 270.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 93  | D    | 569342.74 | 575007.81 | 6.00   | 0.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 94  | D    | 569351.76 | 575044.04 | 6.00   | 183.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 95  | D    | 569382.45 | 575093.41 | 6.00   | 0.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 96  | D    | 569430.74 | 575121.34 | 6.00   | 90.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 97  | D    | 569389.92 | 575130.41 | 6.00   | 270.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 98  | D    | 569419.45 | 575147.47 | 6.00   | 180.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 99  | D    | 569414.54 | 575180.61 | 6.00   | 182.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 100 | D    | 569386.02 | 575178.73 | 6.00   | 92.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 47  | D    | 569346.98 | 575188.99 | 6.00   | 271.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 102 | D    | 569275.42 | 575171.33 | 6.00   | 1.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 104 | D    | 569305.12 | 575178.72 | 6.00   | 92.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 105 | E    | 569288.42 | 575205.02 | 6.00   | 178.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 106 | D    | 569335.16 | 575121.12 | 6.00   | 90.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 107 | D    | 569302.46 | 575120.91 | 6.00   | 94.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 108 | D    | 569275.49 | 575134.90 | 6.00   | 3.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 109 | D    | 569507.79 | 574877.98 | 6.00   | 124.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 110 | D    | 569473.64 | 574864.56 | 6.00   | 114.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 111 | D    | 569439.70 | 574852.53 | 6.00   | 112.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 112 | D    | 569405.39 | 574840.05 | 6.00   | 110.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 113 | D    | 569370.85 | 574827.61 | 6.00   | 111.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 114 | D    | 569339.45 | 574840.81 | 6.00   | 19.00  | 2.00 | 0.00 | 0.50      |          |          |          |
| 115 | D    | 569327.22 | 574873.93 | 6.00   | 18.00  | 2.00 | 0.00 | 0.50      |          |          |          |
| 116 | D    | 569316.37 | 574905.65 | 6.00   | 351.00 | 2.00 | 0.00 | 0.50      |          |          |          |
| 117 | D    | 569344.96 | 574923.34 | 6.00   | 291.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 63  | G    | 569495.34 | 574905.37 | 6.00   | 213.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 119 | D    | 569403.56 | 574930.03 | 6.00   | 290.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 120 | D    | 569379.41 | 574925.06 | 6.00   | 225.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 121 | E    | 569389.06 | 574897.27 | 6.00   | 206.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 122 | D    | 569392.49 | 574868.19 | 6.00   | 21.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 123 | D    | 569435.21 | 574941.38 | 6.00   | 290.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 124 | D    | 569465.70 | 574952.16 | 6.00   | 289.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 125 | D    | 569435.83 | 574910.30 | 6.00   | 16.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 126 | D    | 569451.49 | 574886.91 | 6.00   | 202.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 127 | D    | 569365.80 | 575121.14 | 6.00   | 89.00  | 0.00 | 0.00 | 0.50      |          |          |          |

**Layout Continued**

| ID  | Type | X         | Y         | Height | Angle  | Tilt | Cant | Out-reach | Target X | Target Y | Target Z |
|-----|------|-----------|-----------|--------|--------|------|------|-----------|----------|----------|----------|
| 128 | D    | 569409.31 | 575007.71 | 6.00   | 182.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 129 | D    | 569318.86 | 574973.00 | 6.00   | 92.00  | 0.00 | 0.00 | 0.50      |          |          |          |
| 130 | G    | 569248.53 | 575186.09 | 6.00   | 89.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 131 | E    | 569302.75 | 575211.19 | 6.00   | 95.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 132 | E    | 569313.90 | 575205.07 | 6.00   | 0.00   | 5.00 | 0.00 | 0.50      |          |          |          |
| 78  | G    | 569479.76 | 574929.41 | 6.00   | 213.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 79  | F    | 569363.34 | 575093.65 | 6.00   | 306.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 135 | G    | 569266.46 | 575217.69 | 6.00   | 2.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 136 | E    | 569277.85 | 575227.21 | 6.00   | 272.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 137 | G    | 569266.37 | 575198.59 | 6.00   | 0.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 138 | F    | 569267.83 | 575186.09 | 6.00   | 93.00  | 5.00 | 0.00 | 0.50      |          |          |          |
| 139 | G    | 569300.03 | 575234.29 | 6.00   | 0.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 141 | G    | 569335.31 | 575209.39 | 6.00   | 181.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 142 | G    | 569335.08 | 575238.83 | 6.00   | 182.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 143 | E    | 569325.63 | 575227.30 | 6.00   | 270.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 144 | G    | 569277.57 | 575099.30 | 6.00   | 2.00   | 0.00 | 0.00 | 0.50      |          |          |          |
| 145 | G    | 569267.70 | 575091.53 | 6.00   | 198.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 146 | G    | 569257.87 | 575122.00 | 6.00   | 196.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 147 | G    | 569248.59 | 575150.79 | 6.00   | 198.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 148 | G    | 569241.47 | 575177.77 | 6.00   | 194.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 149 | G    | 569234.52 | 575203.00 | 6.00   | 190.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 150 | G    | 569230.13 | 575222.46 | 6.00   | 185.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 152 | G    | 569301.52 | 574965.84 | 6.00   | 206.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 157 | G    | 569314.27 | 574937.74 | 6.00   | 203.00 | 5.00 | 0.00 | 0.50      |          |          |          |
| 101 | F    | 569357.82 | 575110.47 | 6.00   | 7.00   | 0.00 | 0.00 | 0.50      |          |          |          |

## Horizontal Illuminance (lux)

Grid 1



### Illuminance (lux)

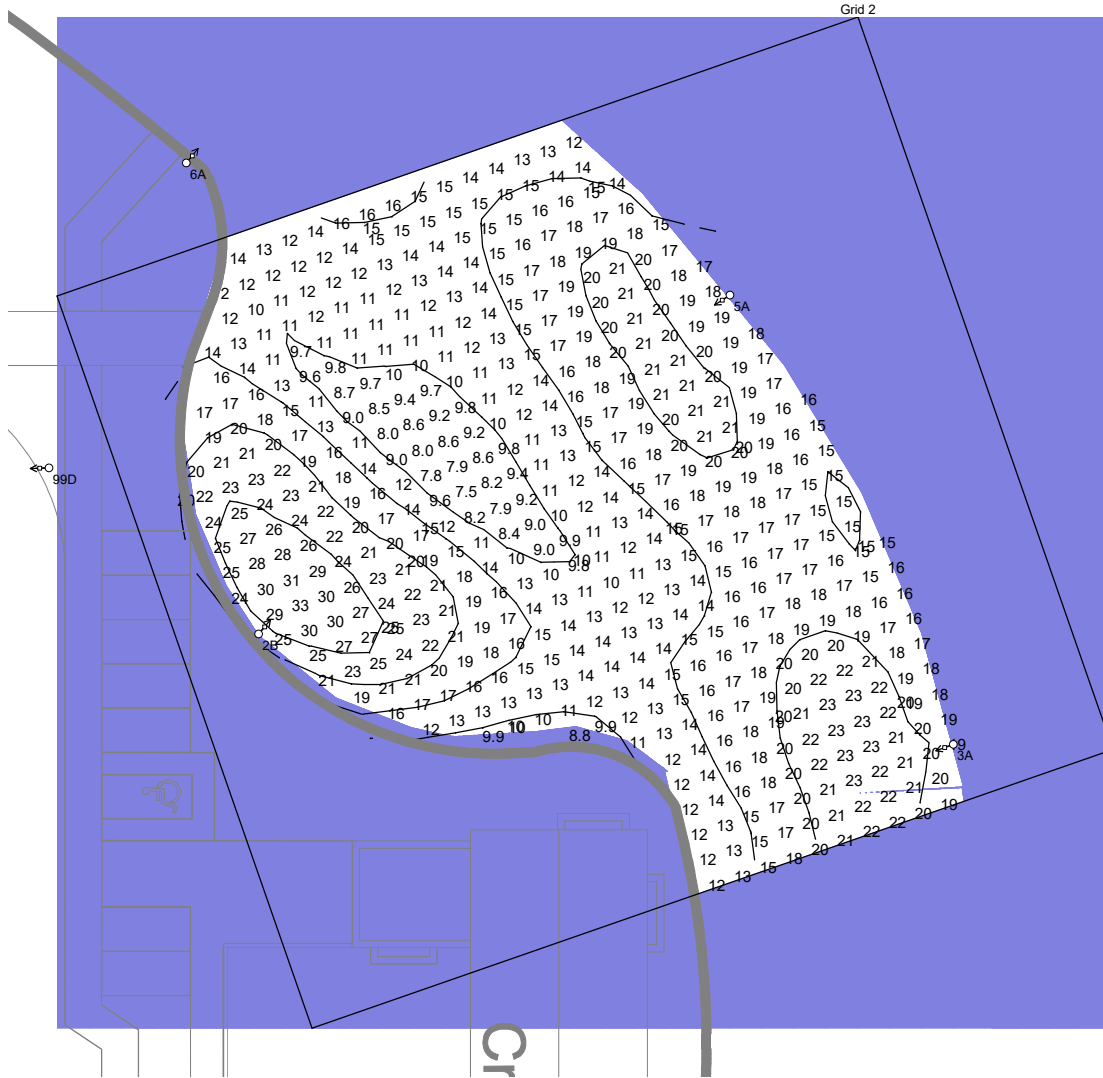
Eav = 14.02  
Emin = 6.74  
Emax = 21.47  
Emin/Emax = 0.31  
Emin/Eav = 0.48

### Results

|      |       |
|------|-------|
| Eav  | 14.02 |
| Emin | 6.74  |
| Emax | 21.47 |

## Horizontal Illuminance (lux)

Grid 2

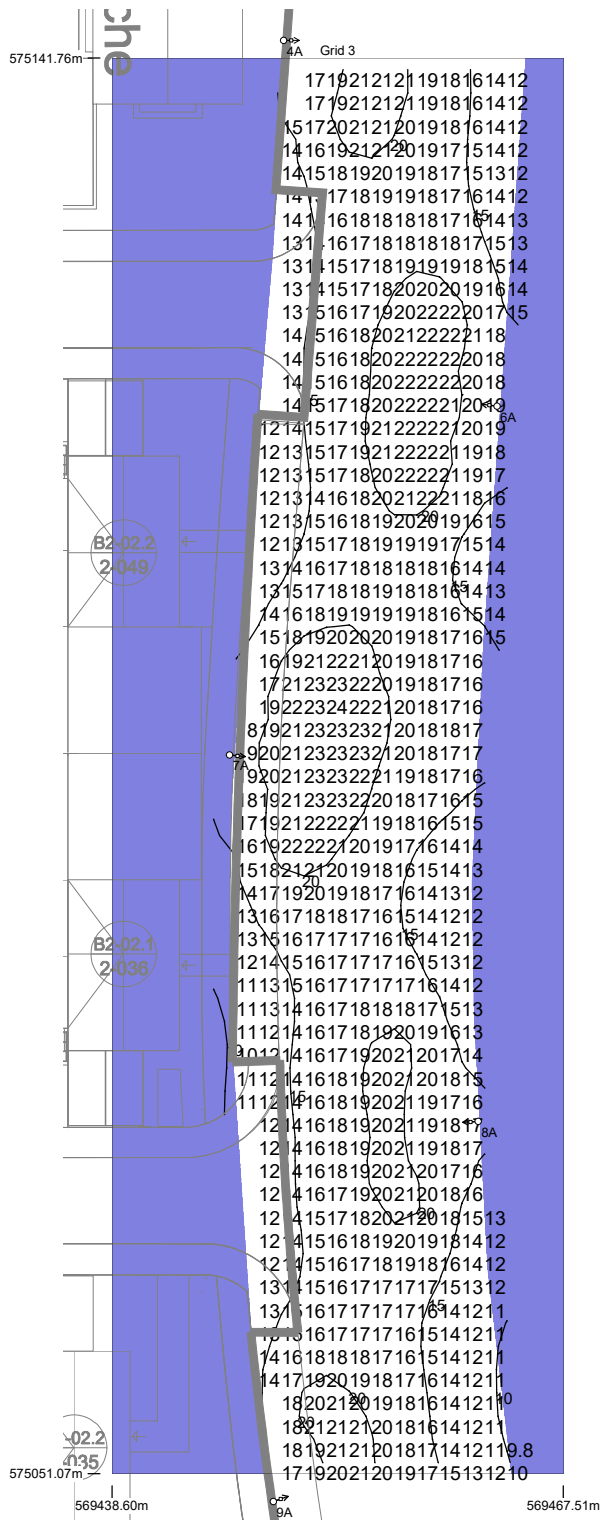


### Results

|           |       |
|-----------|-------|
| Eav       | 16.37 |
| Emin      | 7.50  |
| Emax      | 32.85 |
| Emin/Emax | 0.23  |
| Emin/Eav  | 0.46  |
|           |       |

Horizontal Illuminance (lux)

Grid 3



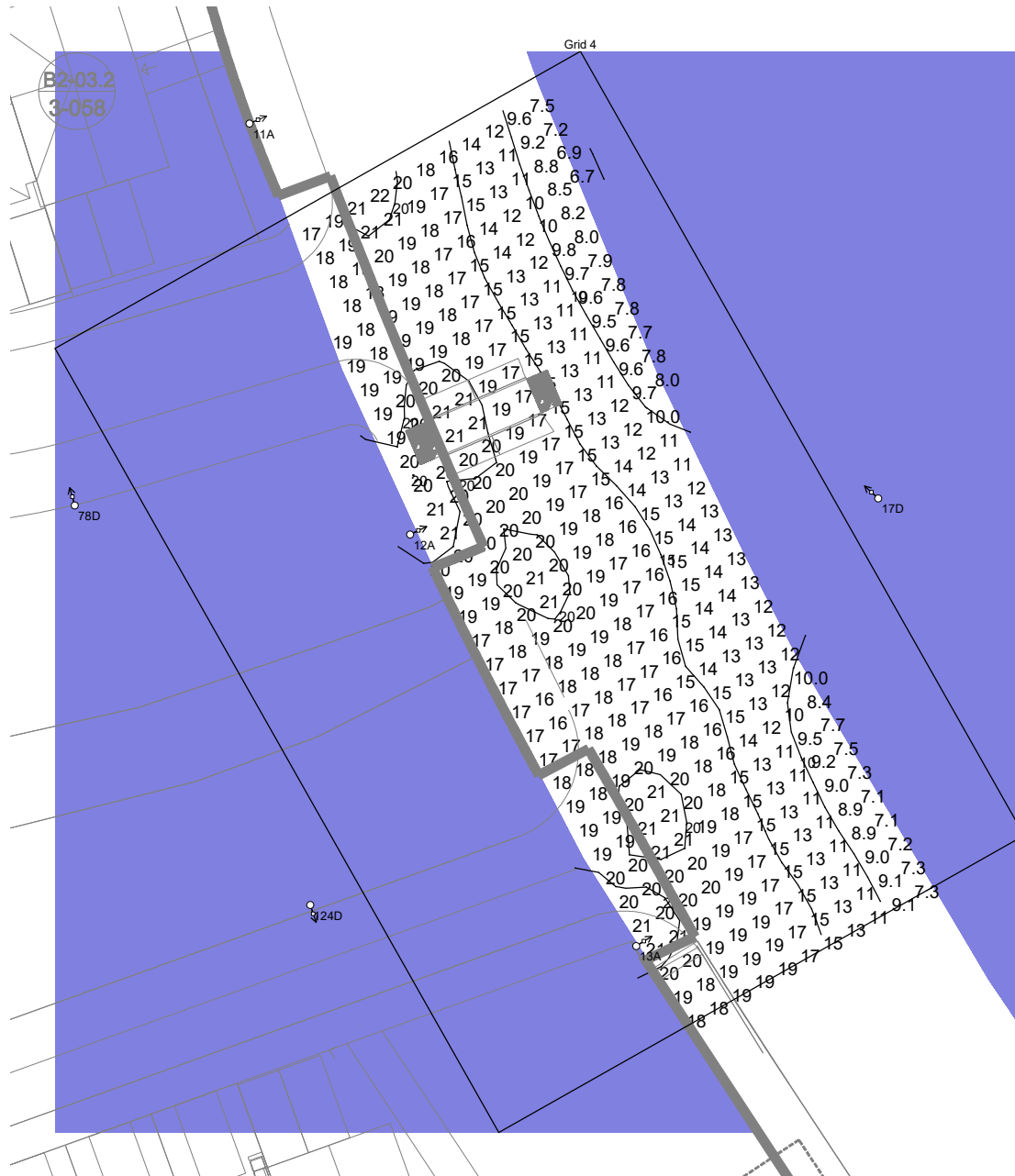
| Horizontal Illuminance (lux) |         |
|------------------------------|---------|
| Eav                          | = 17.08 |
| Emin                         | = 9.78  |
| Emax                         | = 23.57 |
| Emin/Emax                    | = 0.42  |
| Emin/Eav                     | = 0.57  |

Results

|           |       |
|-----------|-------|
| Eav       | 17.08 |
| Emin      | 9.78  |
| Emax      | 23.57 |
| Emin/Emax | 0.42  |

## Horizontal Illuminance (lux)

Grid 4

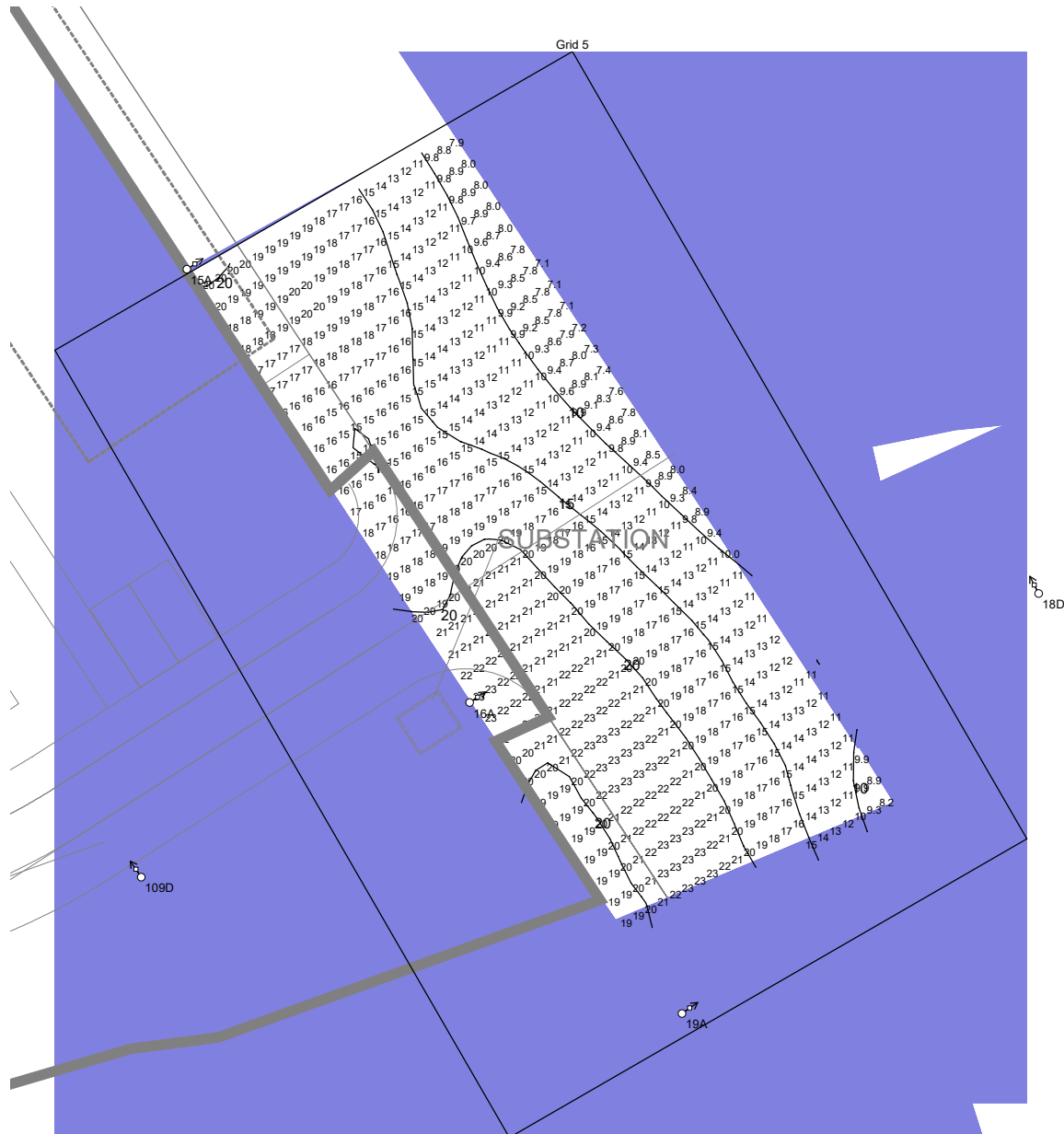


### Results

|                                    |       |
|------------------------------------|-------|
| Eav                                | 15.88 |
| Emin                               | 6.67  |
| E <sub>max</sub>                   | 21.55 |
| E <sub>min</sub> /E <sub>max</sub> | 0.31  |
| E <sub>min</sub> /E <sub>av</sub>  | 0.42  |
|                                    |       |

## Horizontal Illuminance (lux)

Grid 5

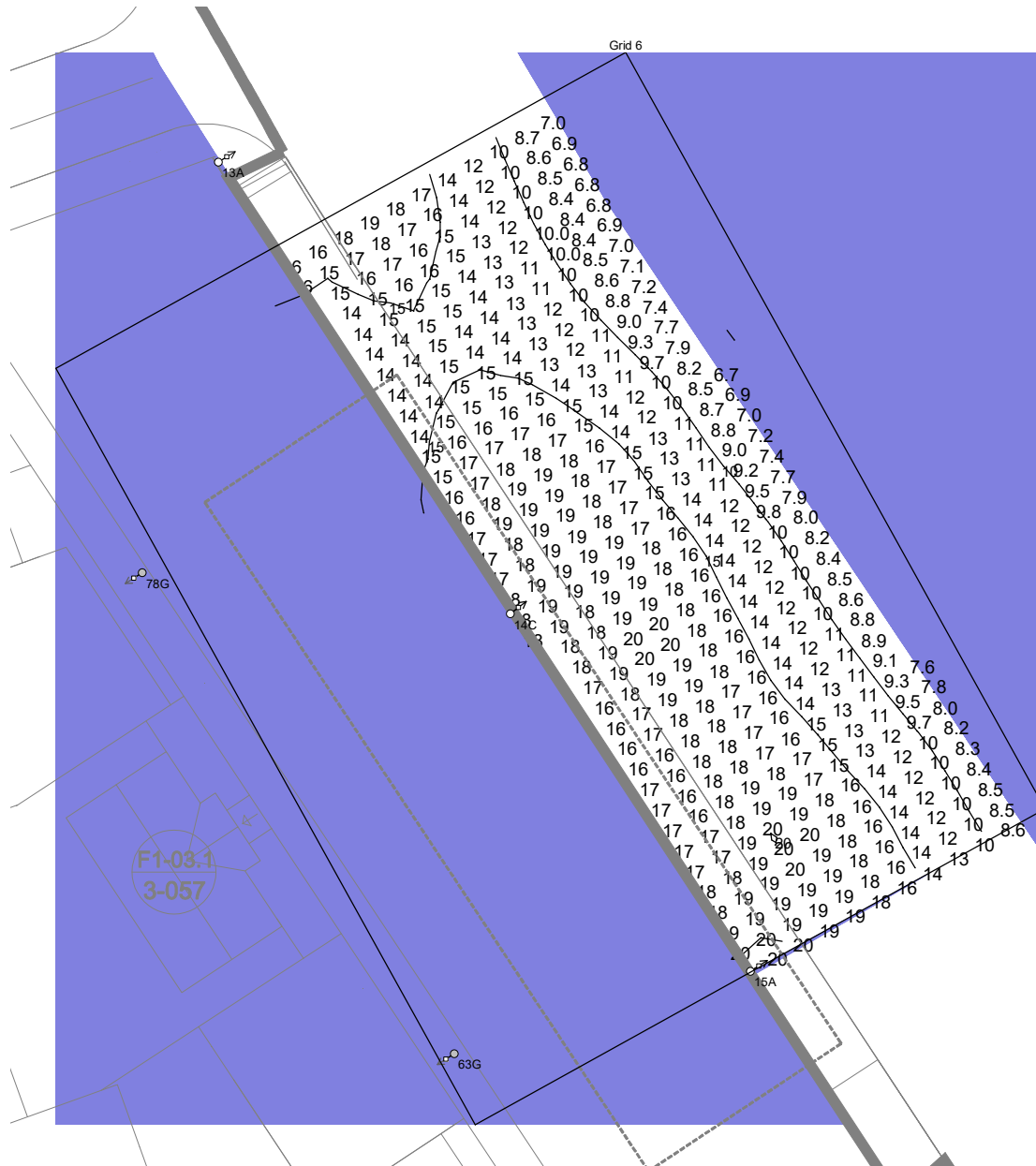


### Results

|                                    |       |
|------------------------------------|-------|
| Eav                                | 16.19 |
| Emin                               | 7.07  |
| E <sub>max</sub>                   | 23.49 |
| E <sub>min</sub> /E <sub>max</sub> | 0.30  |
| E <sub>min</sub> /E <sub>av</sub>  | 0.44  |
|                                    |       |

## Horizontal Illuminance (lux)

Grid 6

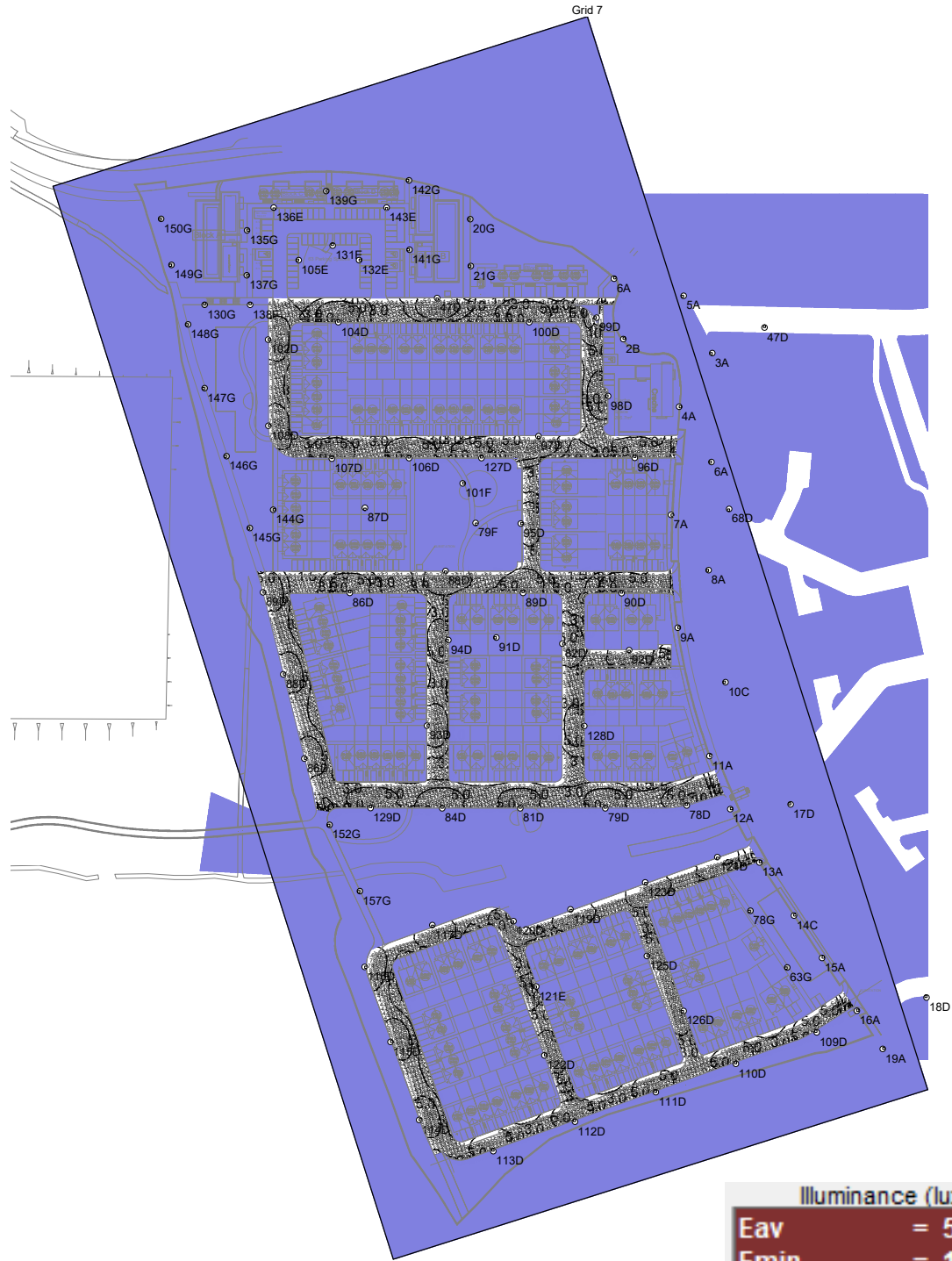


### Results

|           |       |
|-----------|-------|
| Eav       | 14.45 |
| Emin      | 6.68  |
| Emax      | 20.33 |
| Emin/Emax | 0.33  |
| Emin/Eav  | 0.46  |
|           |       |

Horizontal Illuminance (lux)

Grid 7

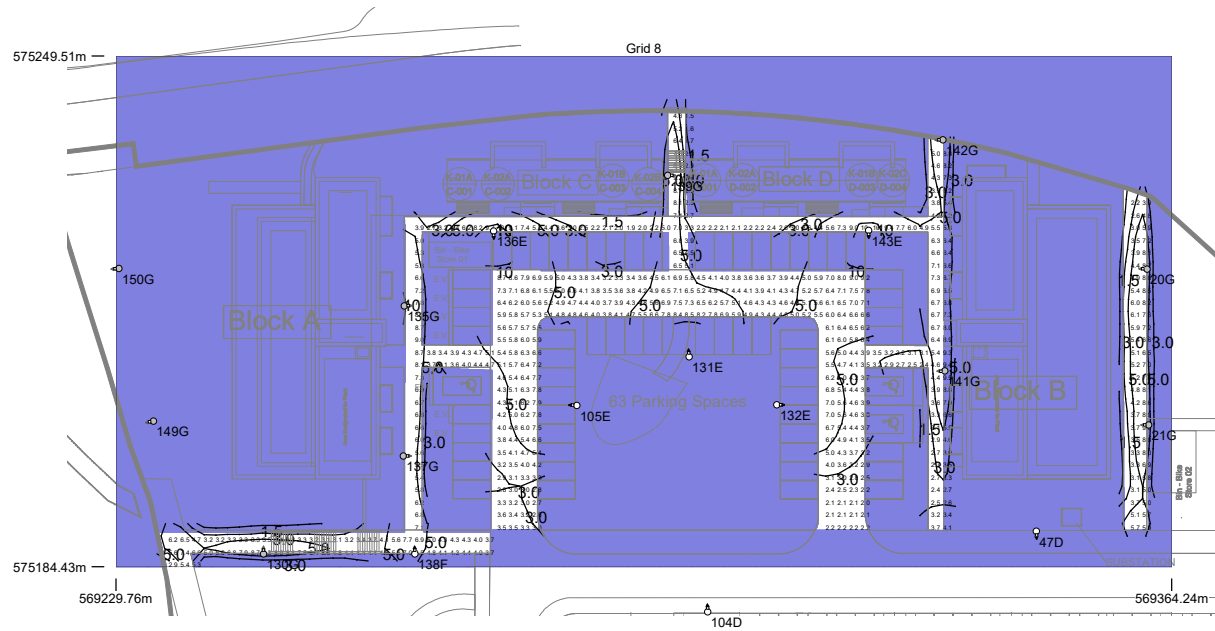


Results

|      |       |
|------|-------|
| Eav  | 5.40  |
| Emin | 1.44  |
| Emax | 22.03 |

## Horizontal Illuminance (lux)

Grid 8



### Results

|           |       |
|-----------|-------|
| Eav       | 5.11  |
| Emin      | 1.55  |
| Emax      | 10.43 |
| Emin/Emax | 0.15  |
| Emin/Eav  | 0.30  |
|           |       |