

Lichthinderonderzoek Wormer

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Datum: 02-03-2023
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Ontwerper: A.J. Veldhuizen

Omdat in de praktijk de bedrijfsomstandigheden vrijwel altijd zullen verschillen van de voor de berekeningen gekozen uitgangspunten zijn afwijkingen in de opgegeven luminanties of verlichtingssterkten niet uitgesloten. Een rol hierbij spelen onder meer andere ruimtelijke omstandigheden en armatuurposities, toleranties in lampen, armaturen en hulpapparatuur, evenals afwijkende temperatuur en spanning.

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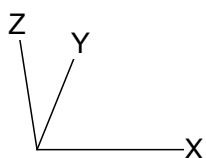
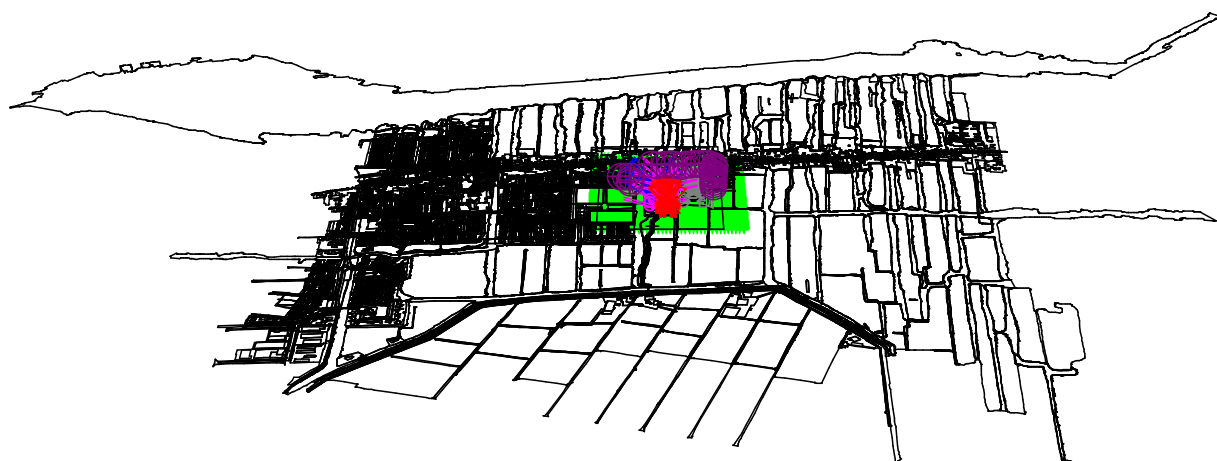
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1. Projectbeschrijving





1.1 Overzicht in 3D



- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

1.2 Overzicht van boven



- | | | | | | |
|---|---|--------------------------|---|--|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

Schaal
1:25000

2. Samenvatting

2.1 Waarnemers

Code	Waarnemer	Positie [m]		
		X	Y	Z
Aa	Mariastraat A	-344.14	204.41	1.80
Bb	Mariastraat B	-345.17	216.83	1.80
Cc	Mariastraat C	-344.14	234.43	1.80
Dd	Mariastraat D	-344.14	249.43	1.80
Ee	Mariastraat E	-343.10	261.85	1.80
Ff	Mariastraat F	-343.10	275.31	1.80
Gg	Mariastraat G	-343.10	288.25	1.80
Hh	Mariastraag H	-341.55	301.70	1.80
Ii	Mariastraat I	-338.96	315.16	1.80
Jj	Mariastraat J	-338.96	328.61	1.80
Kk	Mariastraat K	-339.48	340.51	1.80
Ll	Mariastraat L	-338.44	349.31	1.80
Mm	Dorpsstraat A	-513.36	358.11	1.80
Nn	Dorpsstraat B	-498.35	356.04	1.80
Oo	Dorpsstraat C	-475.58	359.66	1.80
Pp	Dorpsstraat D	-461.09	362.76	1.80
Qq	Dorpsstraat E	-449.19	361.21	1.80
Rr	Dorpsstraat F	-429.00	349.31	1.80
Ss	Dorpsstraat G	-417.62	358.11	1.80
Tt	Dorpsstraat H	-404.68	360.69	1.80
Uu	Dorpsstraat I	-391.23	364.32	1.80
Vv	Dorpsstraat J	-379.32	365.35	1.80
Ww	Dorpsstraat K	-366.90	366.39	1.80
Xx	Dorpsstraat L	-354.48	367.42	1.80
Yy	De Voorhoede A.1	-569.25	228.73	1.80
Zz	De Voorhoede A.2	-572.35	246.85	1.80

2.2 Armatuurtypen

Code	Aantal	Armatuurtype	Aantal x lamptype	Vermogen Lichtstroom	
				[W]	[lm]
A	32	BVP130 A	1 * LED260-4S/740	217.0	1 * 26000
B	8	BVP518 OUT T35 A35-MB LO	1 * LED1720-4S/757	1006.0	1 * 172000
C	16	BVP528 OUT T35 A35-MB LO	1 * LED2590-4S/757	1505.9	1 * 259000
D	14	BVP518 OUT T35 A55-WB LO	1 * LED1720-4S/757	1006.0	1 * 172000

Totaal geïnstalleerd vermogen: 53.17 kW

2.3 Berekeningsresultaten

Verlichtingssterkte / luminantie:

Berekening	Type berekening	Eenheid	Gem	Min	Max	Min/gem	Max/min
Tennisbaan 1	(Vlak-) verlichtingssterkte	lux	491	350	552	0.71	0.63
Tennisbaan 2	(Vlak-) verlichtingssterkte	lux	458	344	516	0.75	0.67
Tennisbanen 1 en 2	(Vlak-) verlichtingssterkte	lux	409	165	551	0.40	0.30
Tennisbaan 3	(Vlak-) verlichtingssterkte	lux	460	349	516	0.76	0.68
Tennisbaan 4	(Vlak-) verlichtingssterkte	lux	459	349	516	0.76	0.68

Berekening	Type berekening	Eenheid	Gem	Min	Max	Min/gem	Max
Tennisbanen 3 en 4	(Vlak-) verlichtingssterkte	lux	400	198	516	0.49	0.38
Tennisbaan 5	(Vlak-) verlichtingssterkte	lux	456	342	515	0.75	0.66
Tennisbaan 6	(Vlak-) verlichtingssterkte	lux	456	342	515	0.75	0.66
Tennisbanen 5 en 6	(Vlak-) verlichtingssterkte	lux	386	164	514	0.42	0.32
Tennisbaan 7	(Vlak-) verlichtingssterkte	lux	489	413	578	0.84	0.71
Tennisbaan 7 TA	(Vlak-) verlichtingssterkte	lux	429	261	575	0.61	0.45
Tennisbaan 8	(Vlak-) verlichtingssterkte	lux	495	414	580	0.84	0.71
Tennisbaan 8 TA	(Vlak-) verlichtingssterkte	lux	454	265	576	0.58	0.46
Tennisbaan 9	(Vlak-) verlichtingssterkte	lux	454	343	514	0.76	0.67
Tennisbaan 10	(Vlak-) verlichtingssterkte	lux	461	345	520	0.75	0.66
Tennisbanen 9 en 10	(Vlak-) verlichtingssterkte	lux	381	164	519	0.43	0.32
Jeu de Boules	(Vlak-) verlichtingssterkte	lux	319	287	343	0.90	0.84
Padelbaan 1	(Vlak-) verlichtingssterkte	lux	587	428	854	0.73	0.50
Padelbaan 2	(Vlak-) verlichtingssterkte	lux	617	481	877	0.78	0.55
Padelbaan 3	(Vlak-) verlichtingssterkte	lux	616	481	877	0.78	0.55
Padelbaan 4	(Vlak-) verlichtingssterkte	lux	585	428	853	0.73	0.50
Ijsbaan	(Vlak-) verlichtingssterkte	lux	80.0	15.5	211.9	0.19	0.07
Omgeving	(Vlak-) verlichtingssterkte	lux	28.0	0.0	670.7	0.00	0.00
Omgeving 1.8	(Vlak-) verlichtingssterkte	lux	28.9	0.0	882.8	0.00	0.00
Mariastraat	(Vlak-) verlichtingssterkte	lux	0.76	0.05	2.17	0.07	0.02
Dorpsstraat	(Vlak-) verlichtingssterkte	lux	0.14	0.09	0.20	0.61	0.45
De Voorhoede A	(Vlak-) verlichtingssterkte	lux	0.45	0.27	0.70	0.60	0.39
De Voorhoede B	(Vlak-) verlichtingssterkte	lux	0.16	0.10	0.25	0.61	0.39

Berekeningen lichthinder:

Waarnemercode	Code armatuurtype	Positie			Instelrichting in hoeken			Maximale lichtintensiteit (cd)
		X	Y	Z	Draai	Kantel90	Kantel0	
Aa	D	-398.75	209.89	15.00	0.00	58.00	0.00	2214
Bb	D	-398.75	209.89	15.00	0.00	58.00	0.00	2301
Cc	D	-427.44	72.03	15.00	60.48	66.72	0.00	1985
Dd	D	-427.44	72.03	15.00	60.48	66.72	0.00	1961
Ee	D	-398.75	246.09	15.00	25.41	59.00	0.00	2267
Ff	D	-398.75	246.09	15.00	25.41	59.00	0.00	1986
Gg	D	-427.44	72.03	15.00	60.48	66.72	0.00	1853
Hh	D	-427.44	72.03	15.00	60.48	66.72	0.00	1788

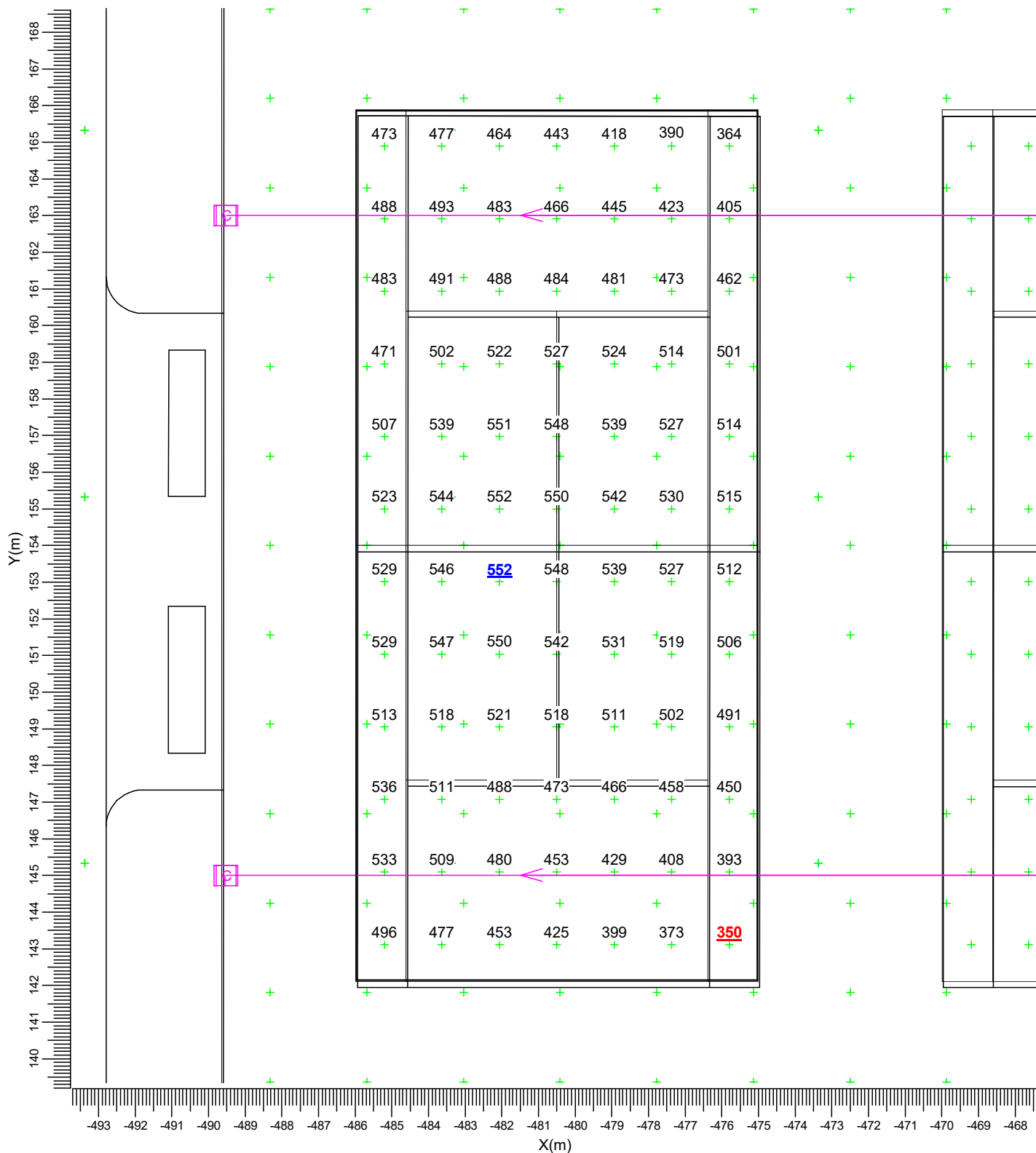
Waarnemercode	Code armatuurtype	Positie			Instelrichting in hoeken			Maximale lichtintensiteit (cd)
		X	Y	Z	DraaiKantel90	Kantel0		
li	D	-427.44	72.03	15.00	60.48	66.72	0.00	1737
Jj	D	-427.44	72.03	15.00	60.48	66.72	0.00	1667
Kk	D	-427.44	72.03	15.00	60.48	66.72	0.00	1605
Ll	D	-427.44	72.03	15.00	60.48	66.72	0.00	1575
Mm	D	-372.56	71.17	15.00	119.28	66.73	0.00	1627
Nn	D	-372.56	71.17	15.00	119.28	66.73	0.00	1690
Oo	D	-372.56	71.17	15.00	119.28	66.73	0.00	1643
Pp	D	-372.56	71.17	15.00	119.28	66.73	0.00	1524
Qq	D	-372.56	71.17	15.00	119.28	66.73	0.00	1437
Rr	D	-372.56	71.17	15.00	119.28	66.73	0.00	1269
Ss	D	-372.56	71.17	15.00	119.28	66.73	0.00	1120
Tt	D	-372.56	71.17	15.00	119.28	66.73	0.00	1030
Uu	D	-427.44	72.03	15.00	60.48	66.72	0.00	1035
Vv	D	-427.44	72.03	15.00	60.48	66.72	0.00	1114
Ww	D	-427.44	72.03	15.00	60.48	66.72	0.00	1231
Xx	D	-427.44	72.03	15.00	60.48	66.72	0.00	1359
Yy	C	-455.50	204.25	15.00	180.00	60.00	0.00	1276
Zz	C	-455.50	227.75	15.00	-180.00	60.00	-0.00	1228

ULR (lichtrendement naar boven) is 0.000.

3. Berekeningsresultaten

3.1 Tennisbaan 1: Grafische tabel

Rekenraster : Tennisbaan 1 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

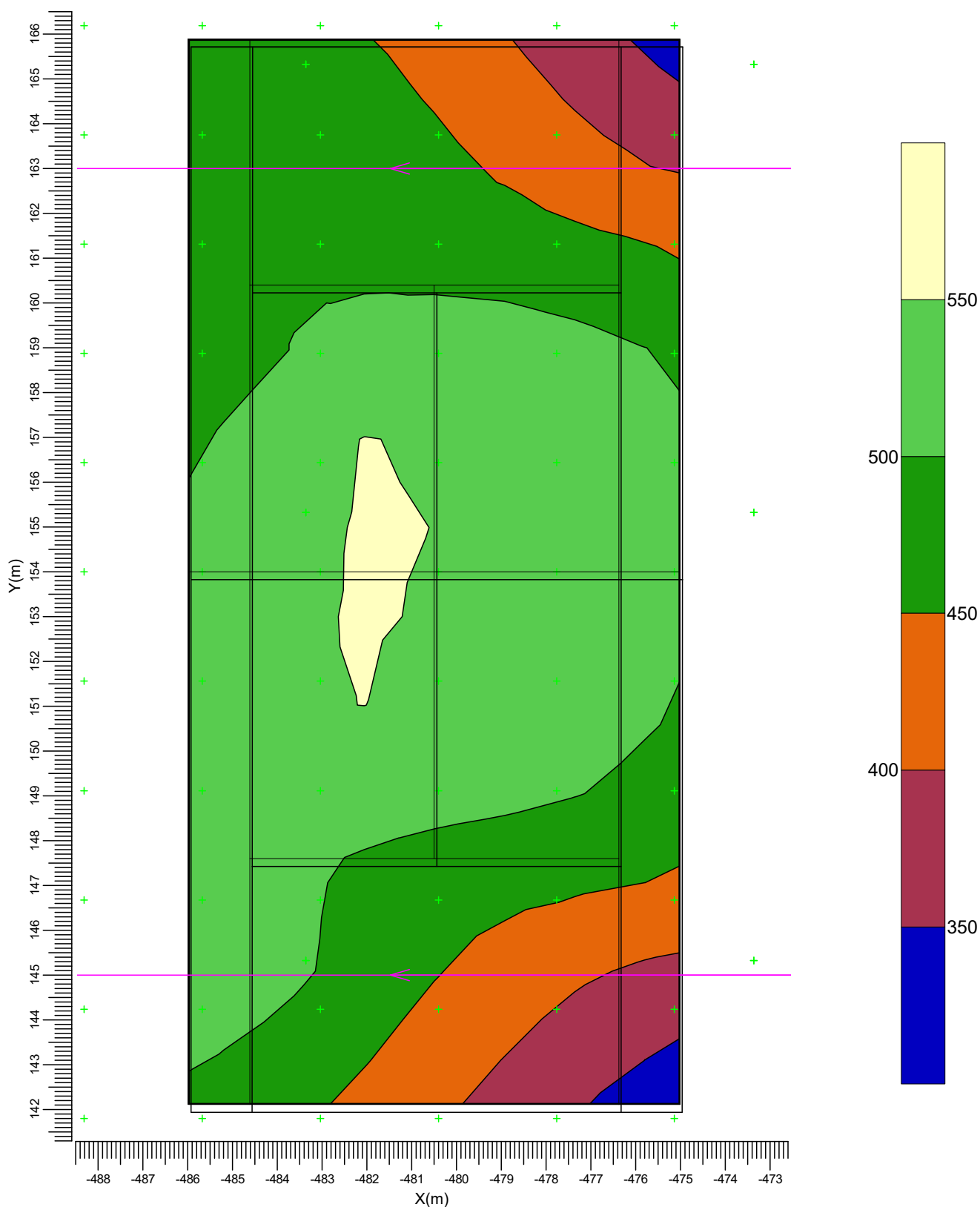


A BVP130 A B BVP518 OUT T35 A35-MB LO
C BVP528 OUT T35 A35-MB LO D BVP518 OUT T35 A55-WB LO

Gemiddeld 491 Minimum 350 Maximum 552 Min/gem 0.71 Min/max 0.63 Algemene behoudfactor 1.00 Schaal 1:150

3.2 Tennisbaan 1: Gevuld isolijndiagram

Rekenraster : Tennisbaan 1 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

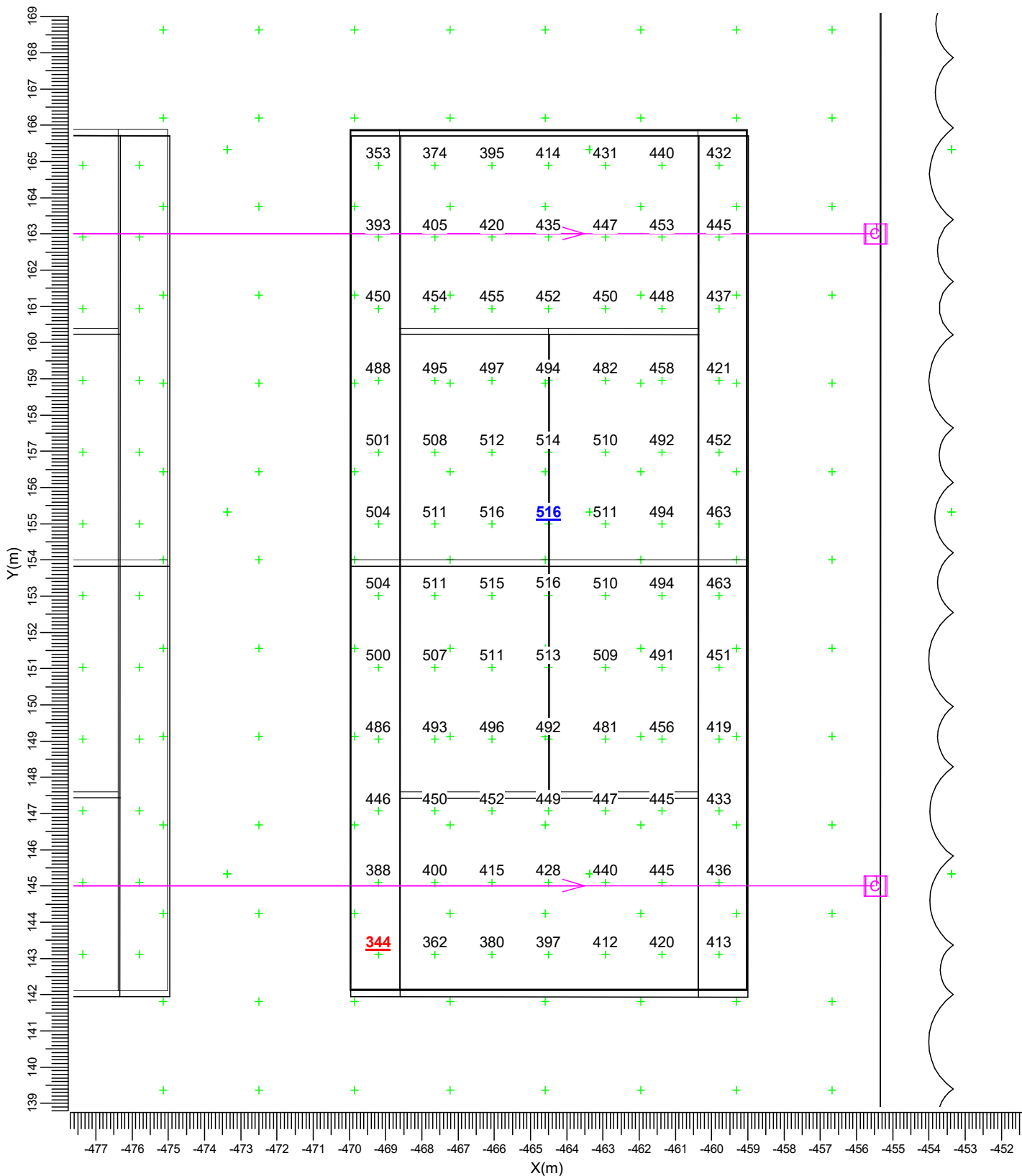


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
491	350	552	0.71	0.63	1.00	1:125

3.3 Tennisbaan 2: Grafische tabel

Rekenraster : Tennisbaan 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

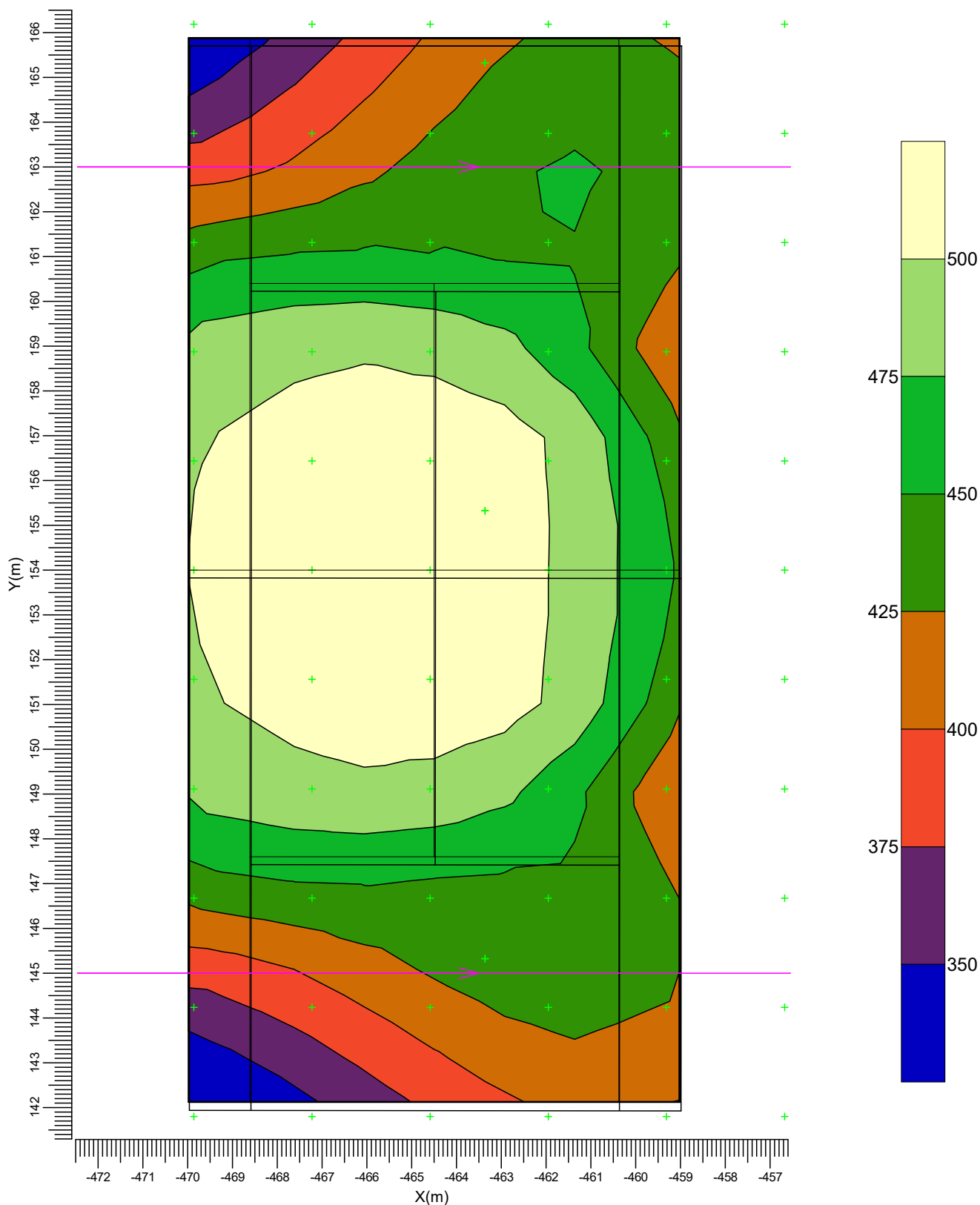


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
458	344	516	0.75	0.67	1.00	1:150

3.4 Tennisbaan 2: Gevuld isolijndiagram

Rekenraster : Tennisbaan 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

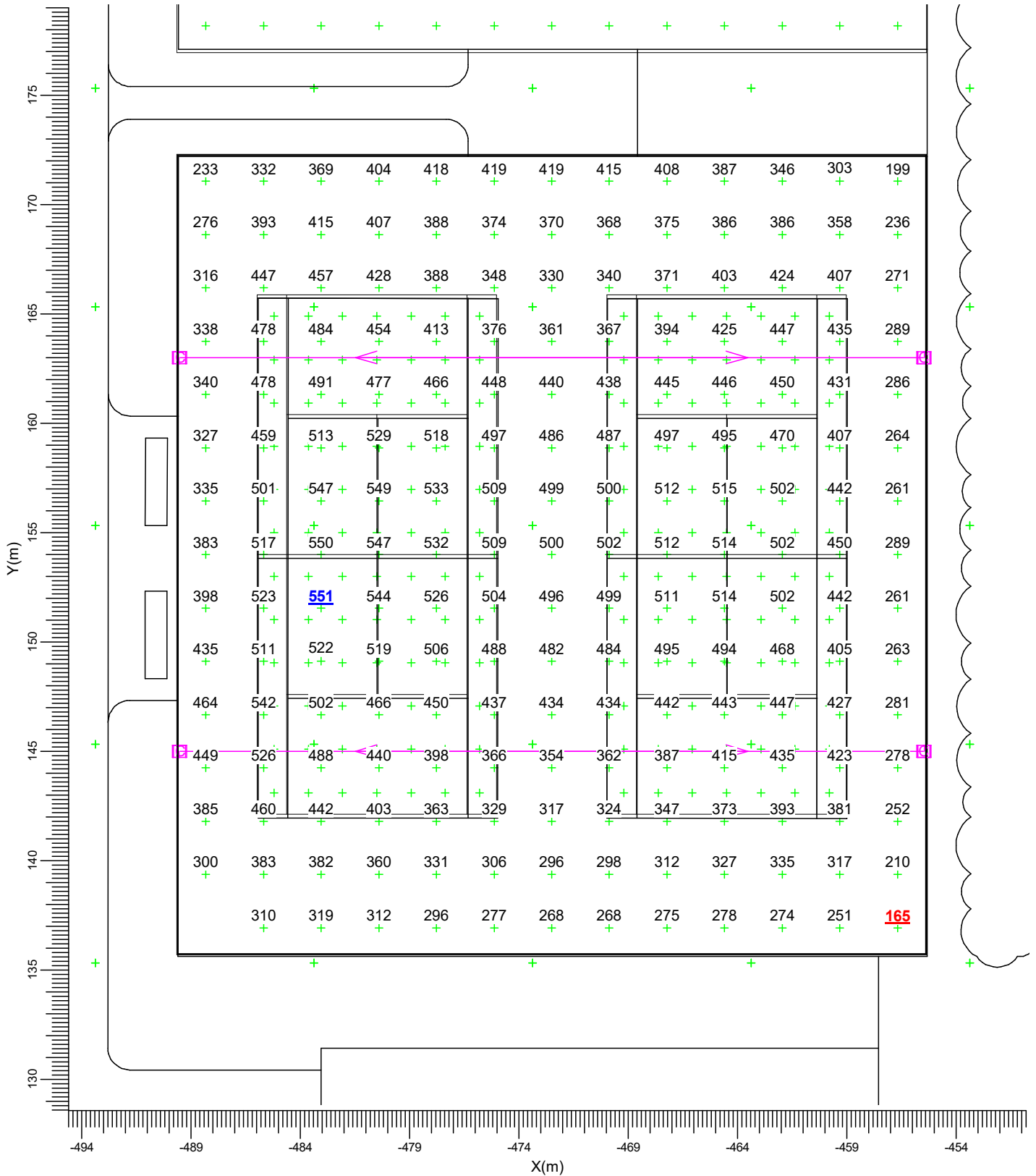


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
458	344	516	0.75	0.67	1.00	1:125

3.5 Tennisbanen 1 en 2: Grafische tabel

Rekenraster : Tennisbanen 1 en 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

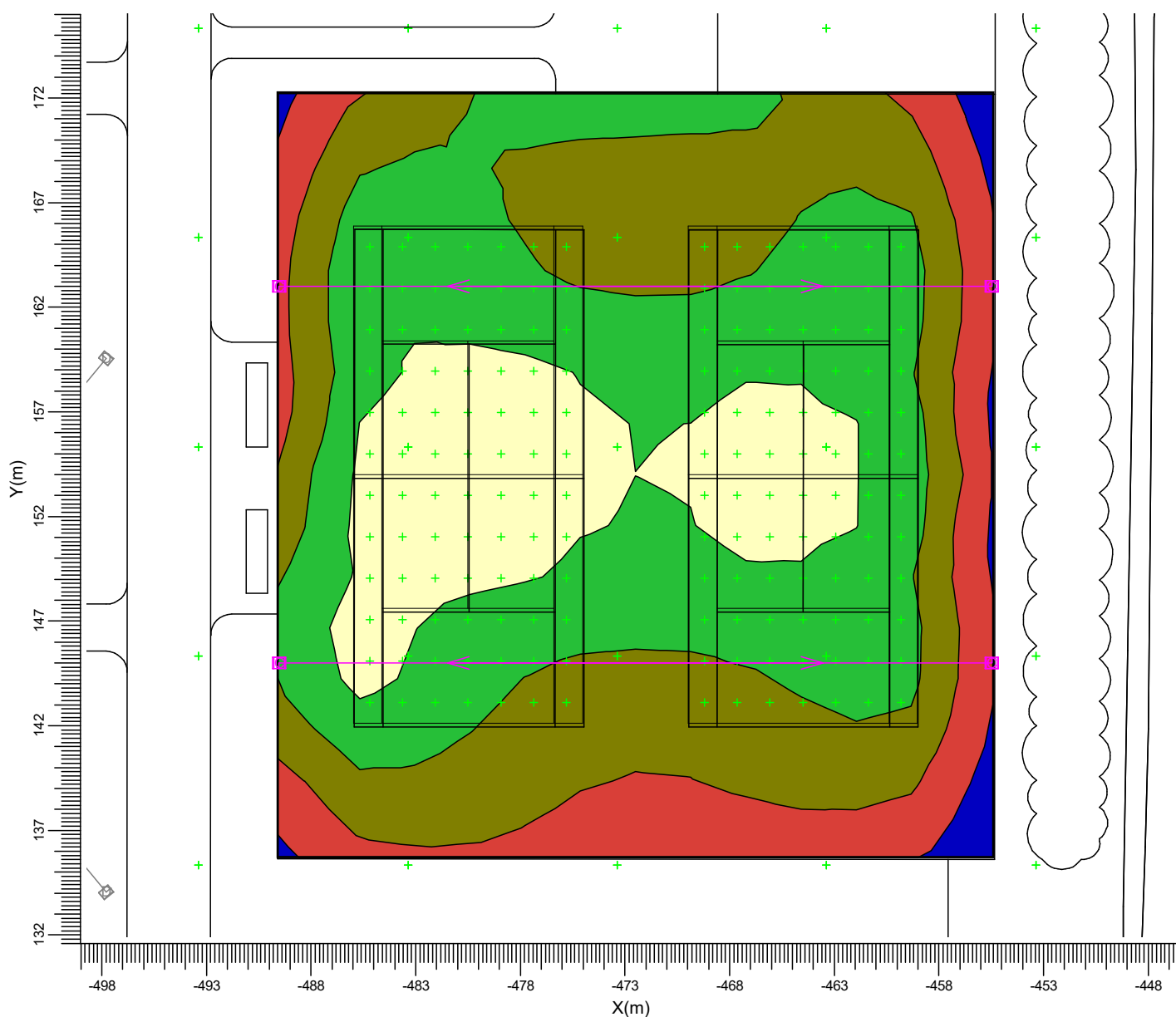


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
409	165	551	0.40	0.30	1.00	1:250

3.6 Tennisbanen 1 en 2: Gevuld isolijndiagram

Rekenraster : Tennisbanen 1 en 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

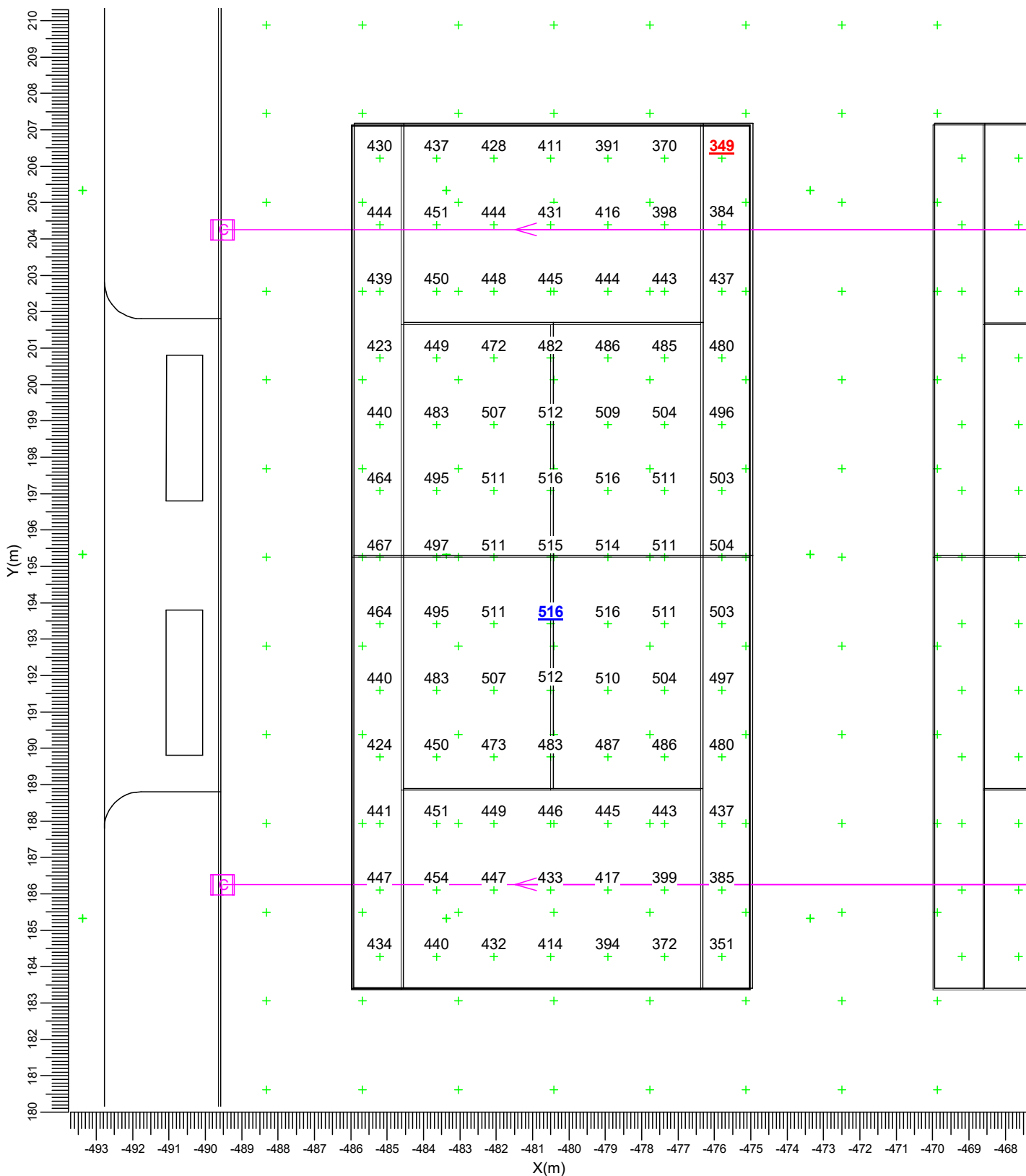


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
409	165	551	0.40	0.30	1.00	1:300

3.7 Tennisbaan 3: Grafische tabel

Rekenraster : Tennisbaan 3 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

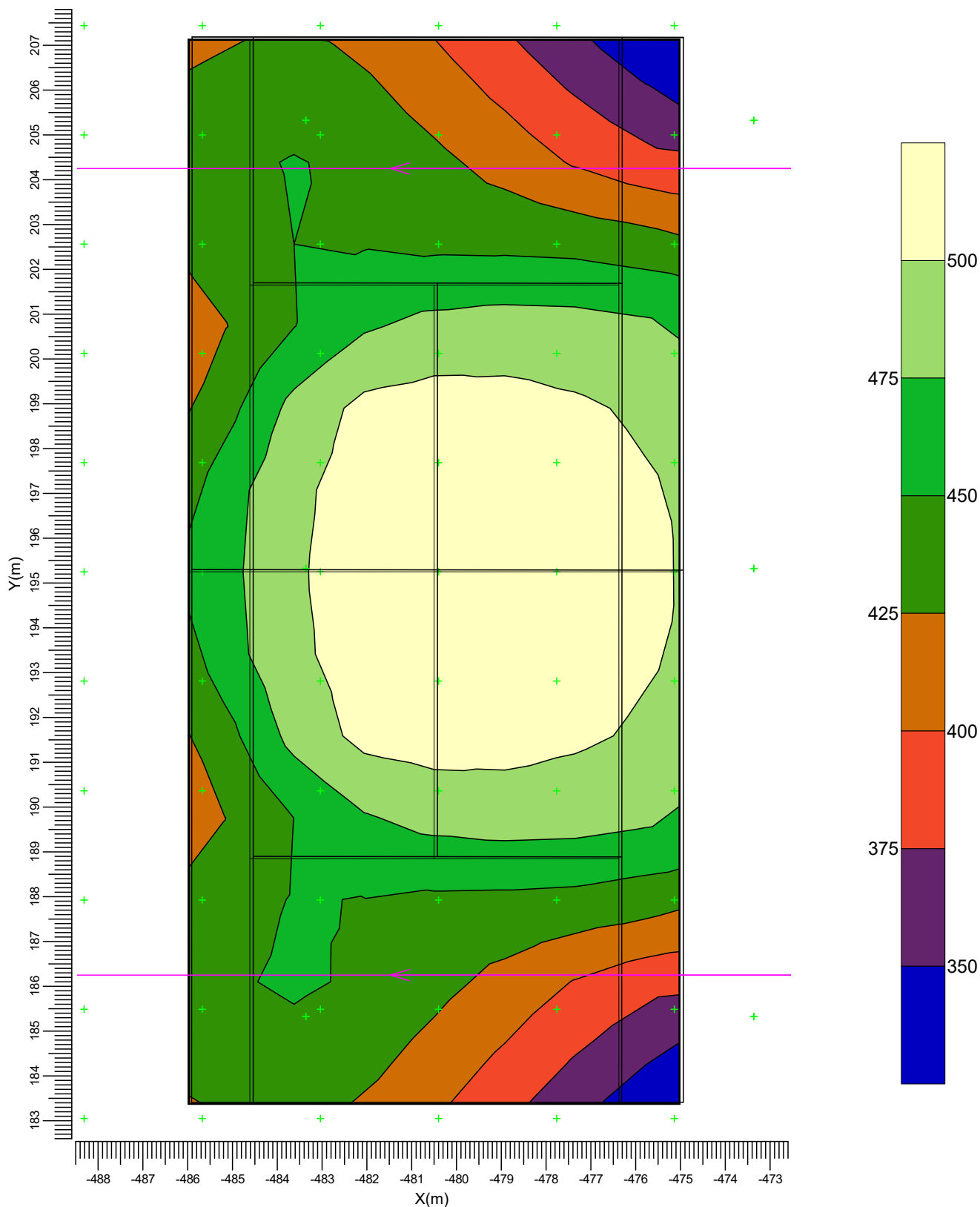


- A BVP130 A
- B BVP518 OUT T35 A35-MB LO
- C BVP528 OUT T35 A35-MB LO
- D BVP518 OUT T35 A55-WB LO

Gemiddeld 460 Minimum 349 Maximum 516 Min/gem 0.76 Min/max 0.68 Algemene behoudfactor 1.00 Schaal 1:150

3.8 Tennisbaan 3: Gevuld isolijndiagram

Rekenraster : Tennisbaan 3 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

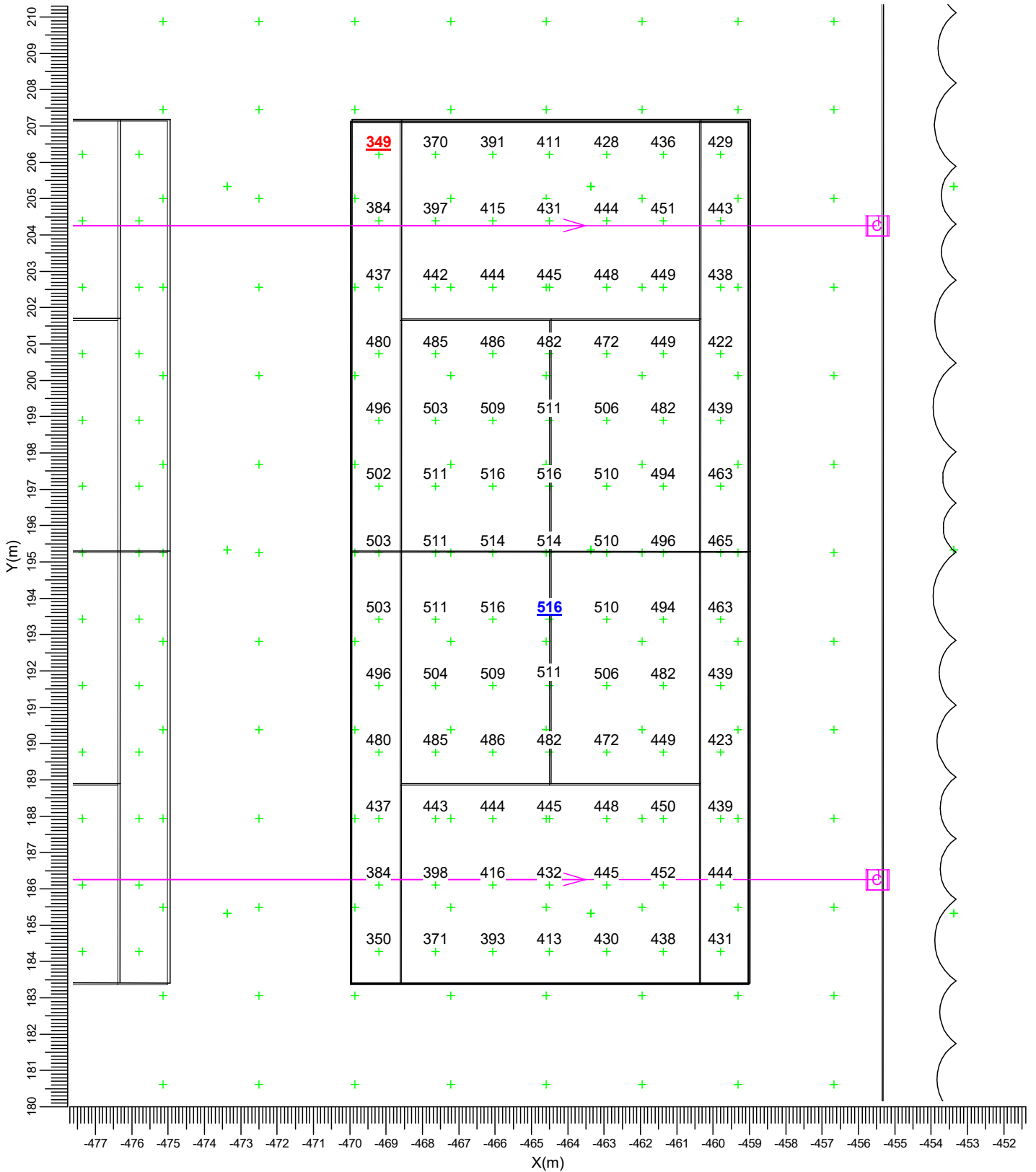


- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A | → | BVP130 A | B | → | BVP518 OUT T35 A35-MB LO |
| C | → | BVP528 OUT T35 A35-MB LO | D | → | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
460	349	516	0.76	0.68	1.00	1:125

3.9 Tennisbaan 4: Grafische tabel

Rekenraster : Tennisbaan 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

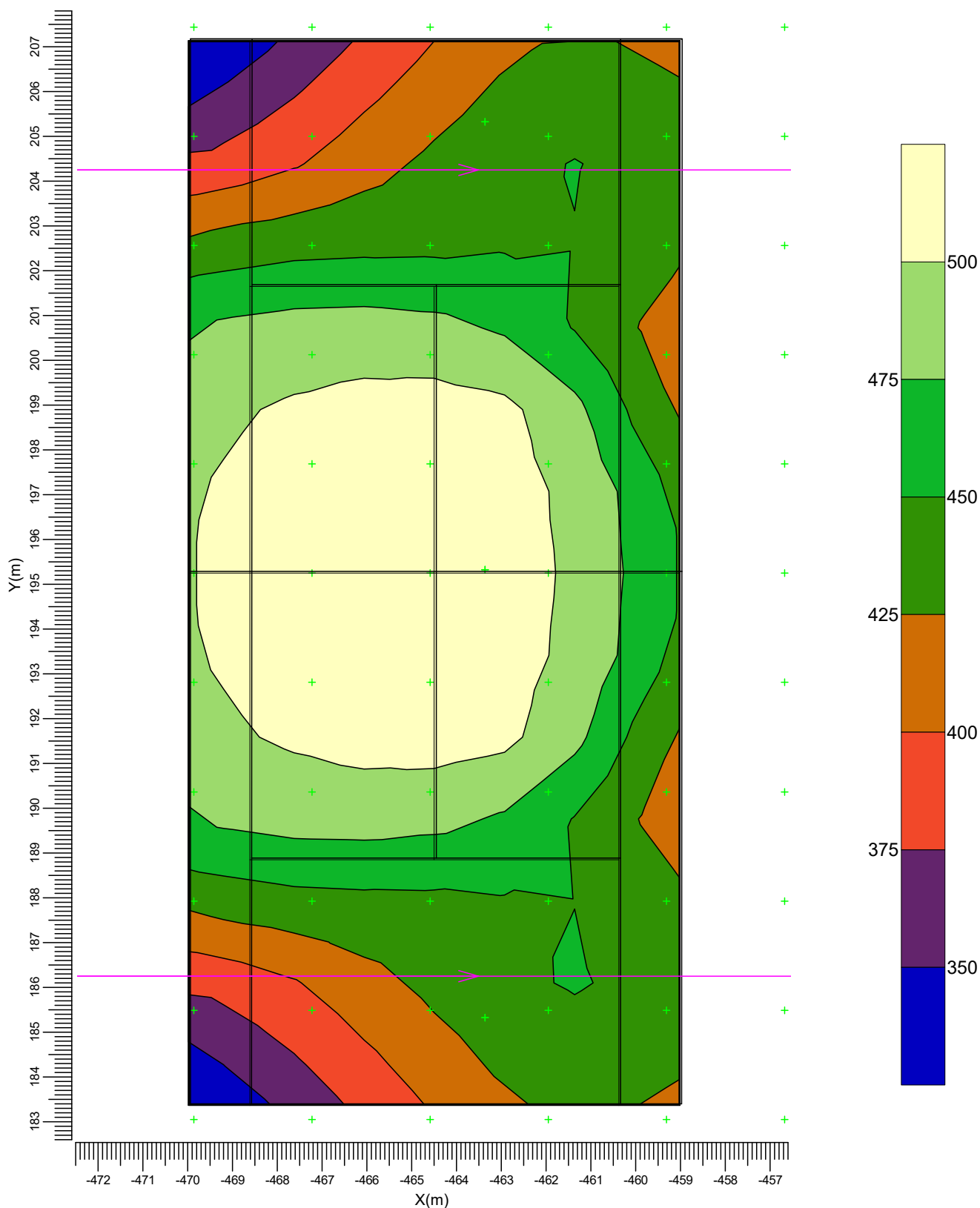


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
459	349	516	0.76	0.68	1.00	1:150

3.10 Tennisbaan 4: Gevuld isolijndiagram

Rekenraster : Tennisbaan 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

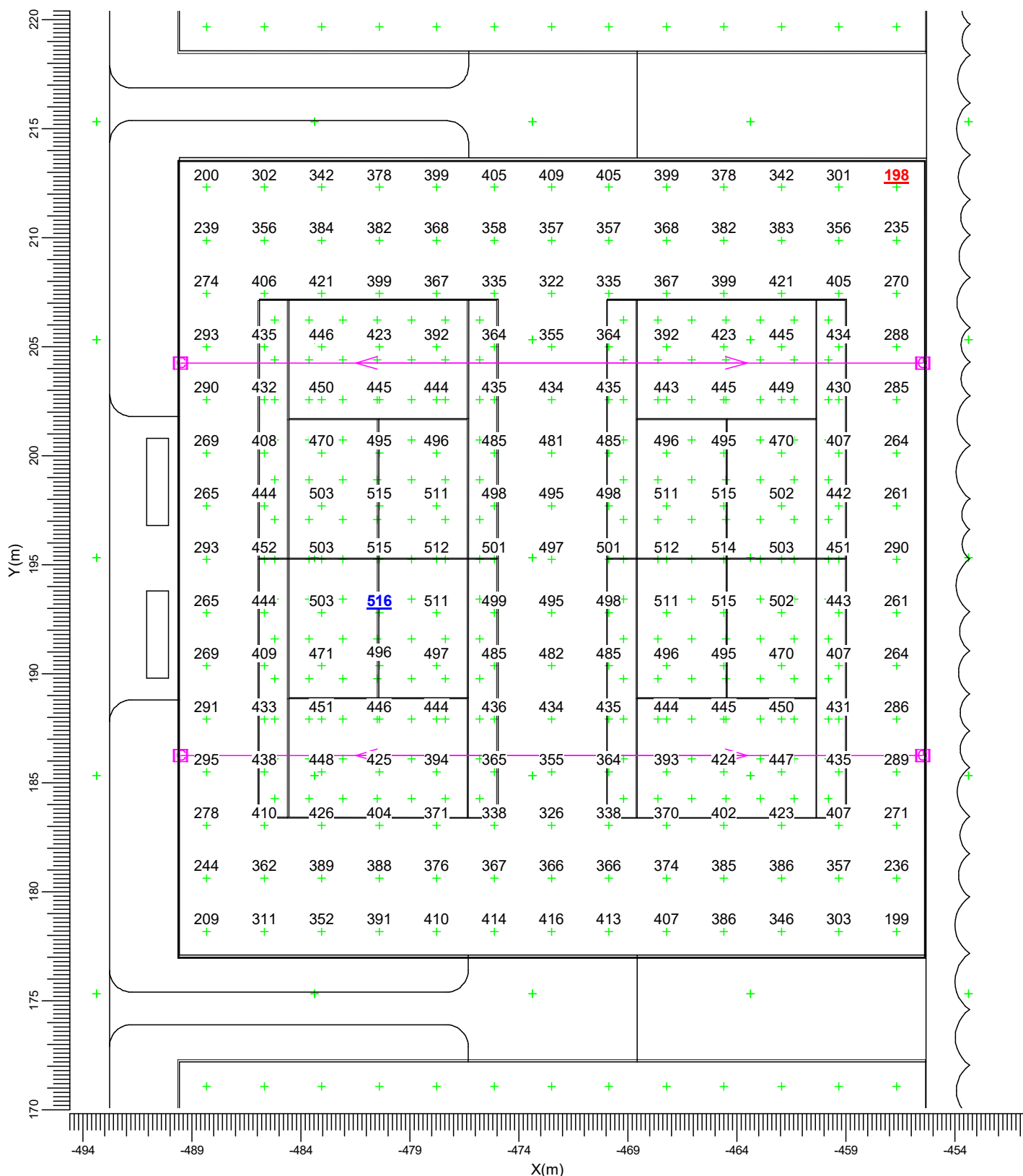


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
459	349	516	0.76	0.68	1.00	1:125

3.11 Tennisbanen 3 en 4: Grafische tabel

Rekenraster : Tennisbanen 3 en 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

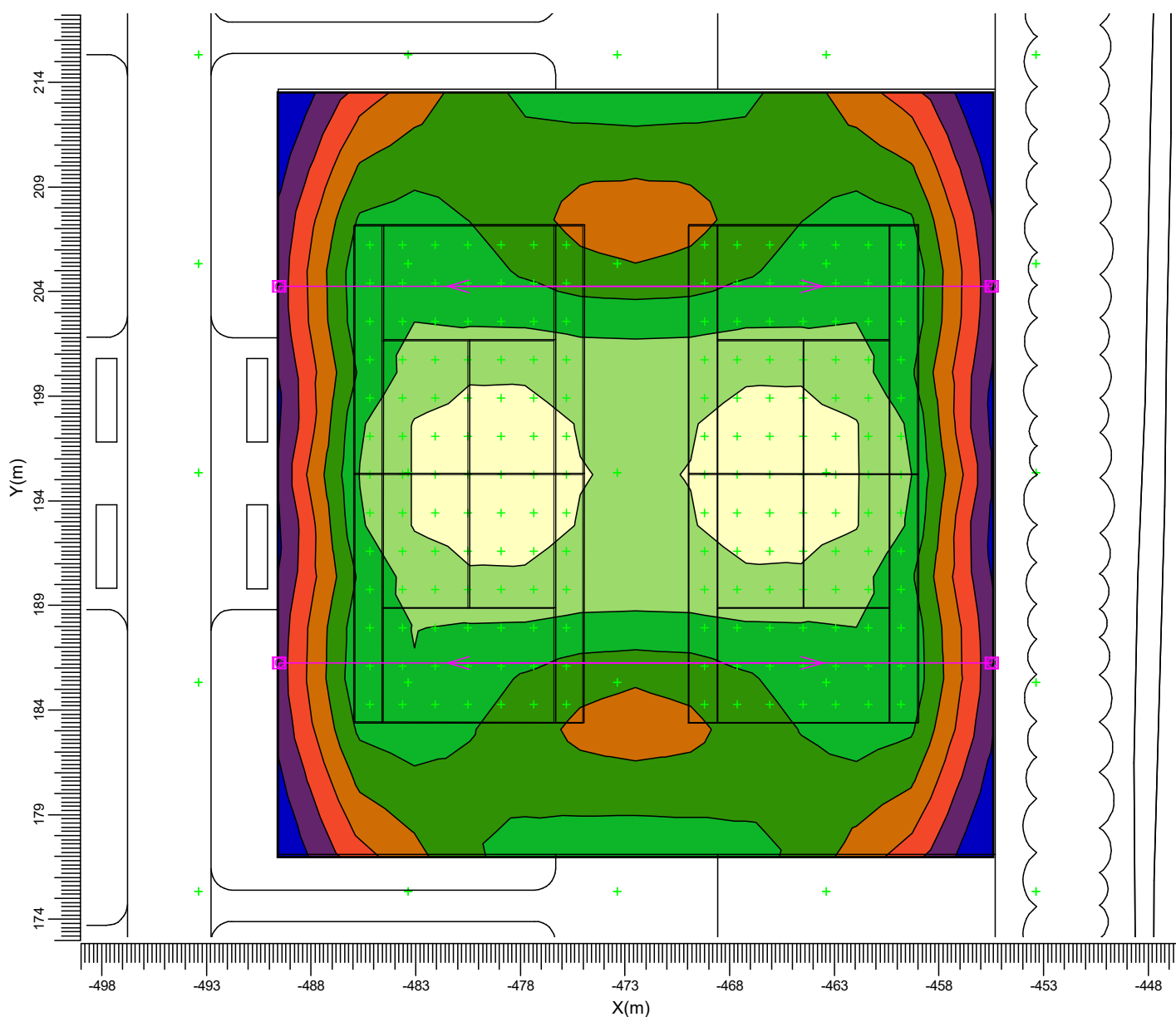
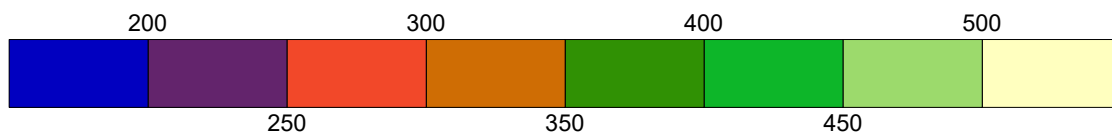


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
400	198	516	0.49	0.38	1.00	1:250

3.12 Tennisbanen 3 en 4: Gevuld isolijndiagram

Rekenraster : Tennisbanen 3 en 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

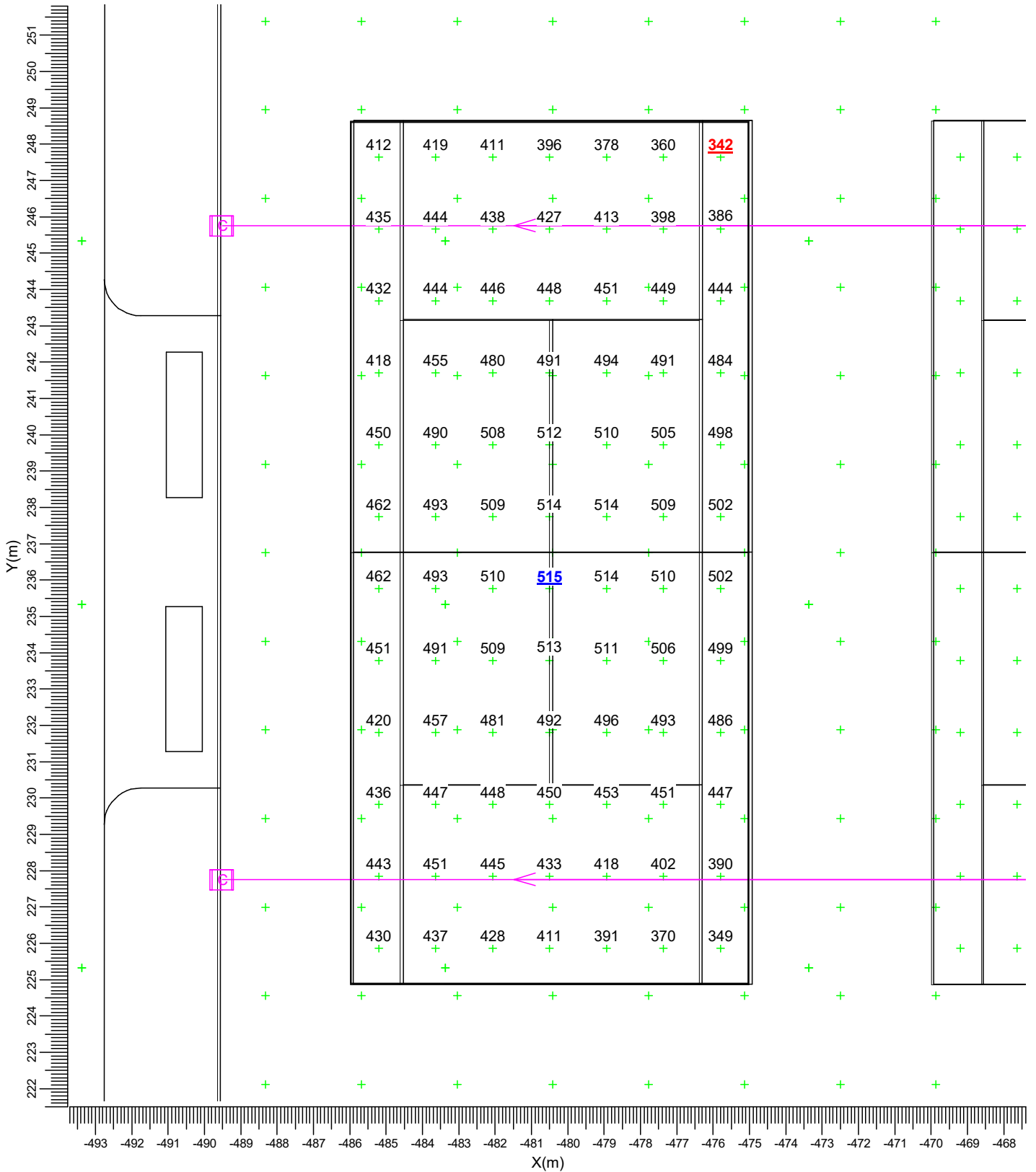


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
400	198	516	0.49	0.38	1.00	1:300

3.13 Tennisbaan 5: Grafische tabel

Rekenraster : Tennisbaan 5 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

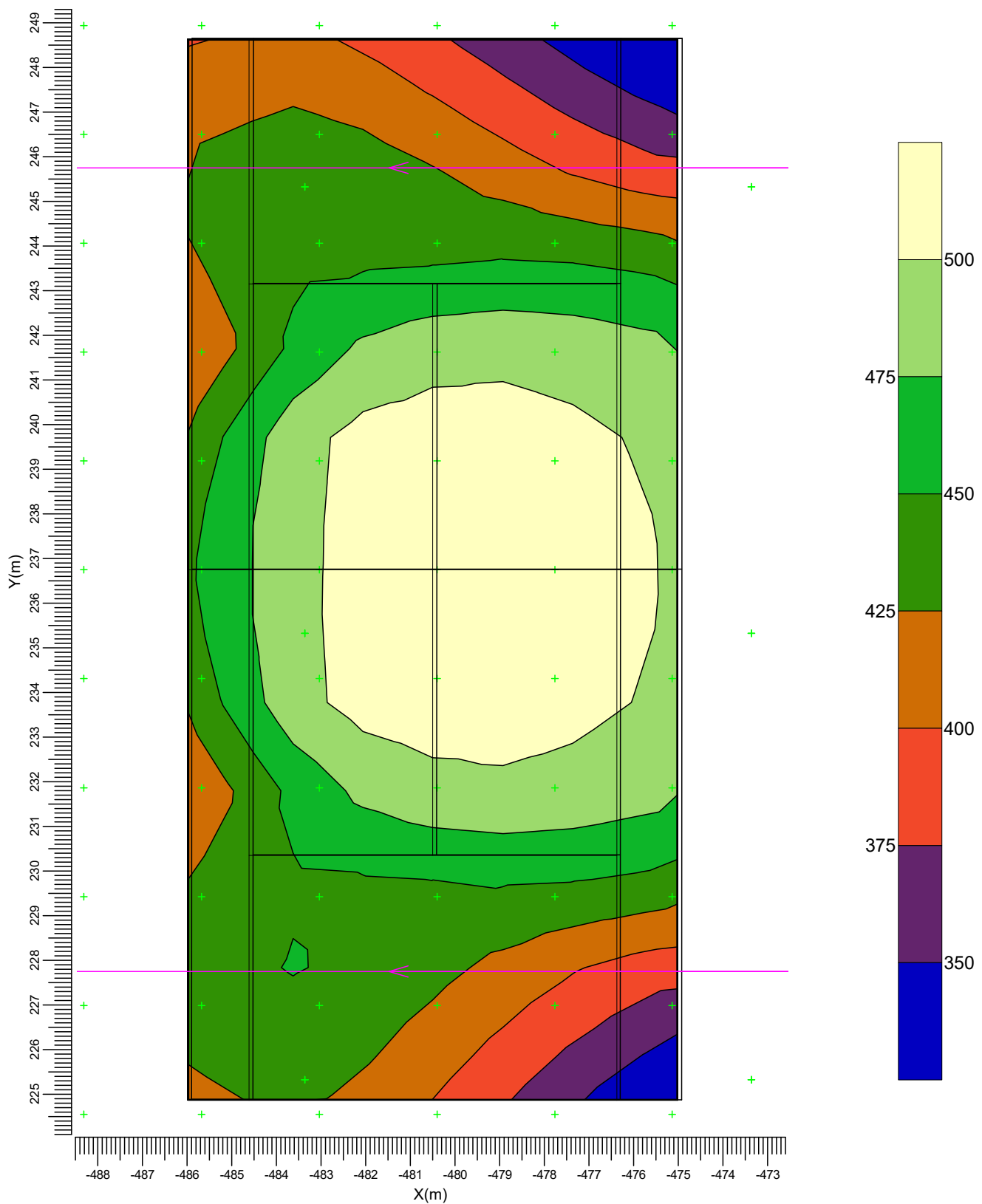


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
456	342	515	0.75	0.66	1.00	1:150

3.14 Tennisbaan 5: Gevuld isolijndiagram

Rekenraster : Tennisbaan 5 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

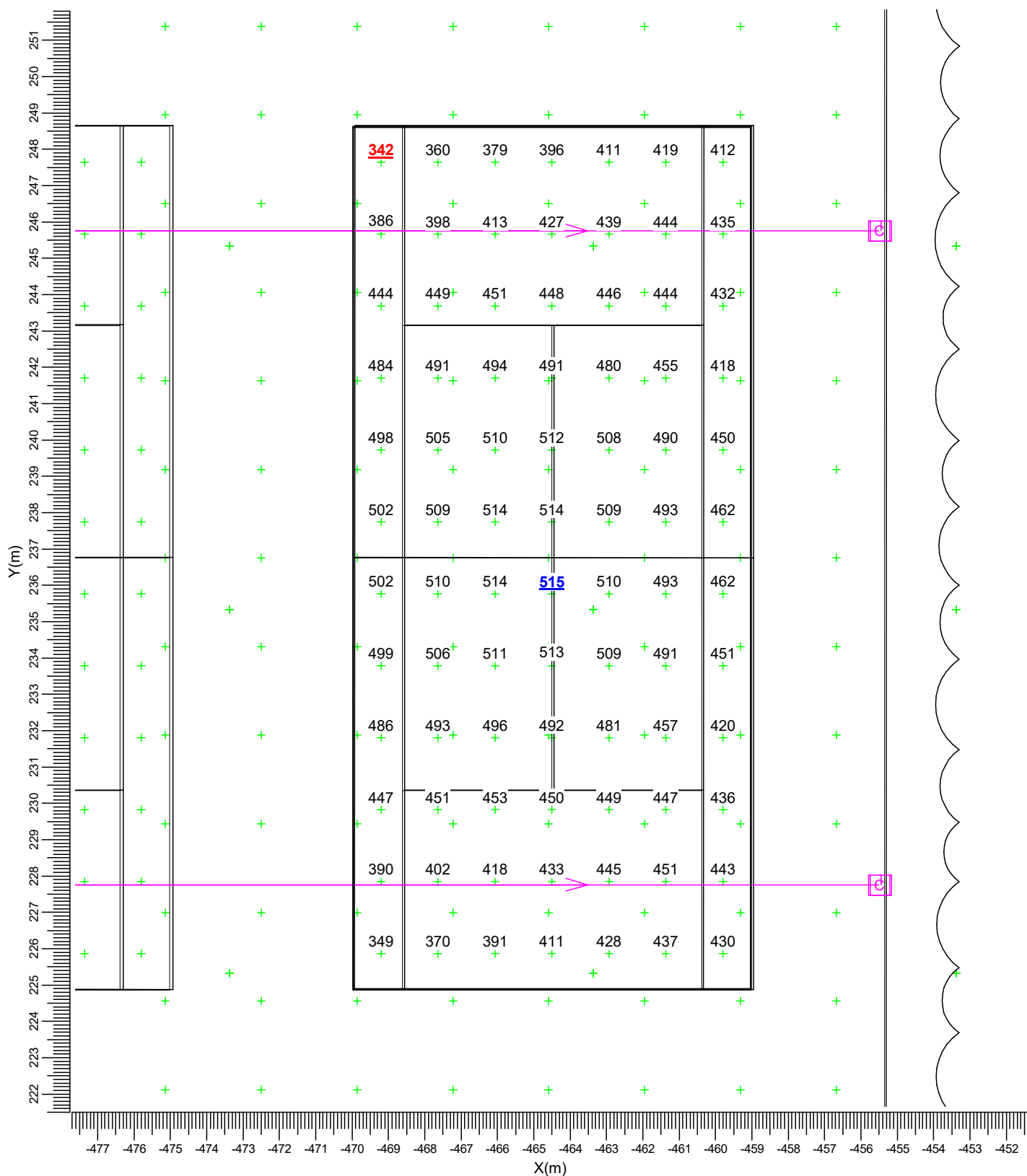


- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A | → | BVP130 A | B | → | BVP518 OUT T35 A35-MB LO |
| C | → | BVP528 OUT T35 A35-MB LO | D | → | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
456	342	515	0.75	0.66	1.00	1:125

3.15 Tennisbaan 6: Grafische tabel

Rekenraster : Tennisbaan 6 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

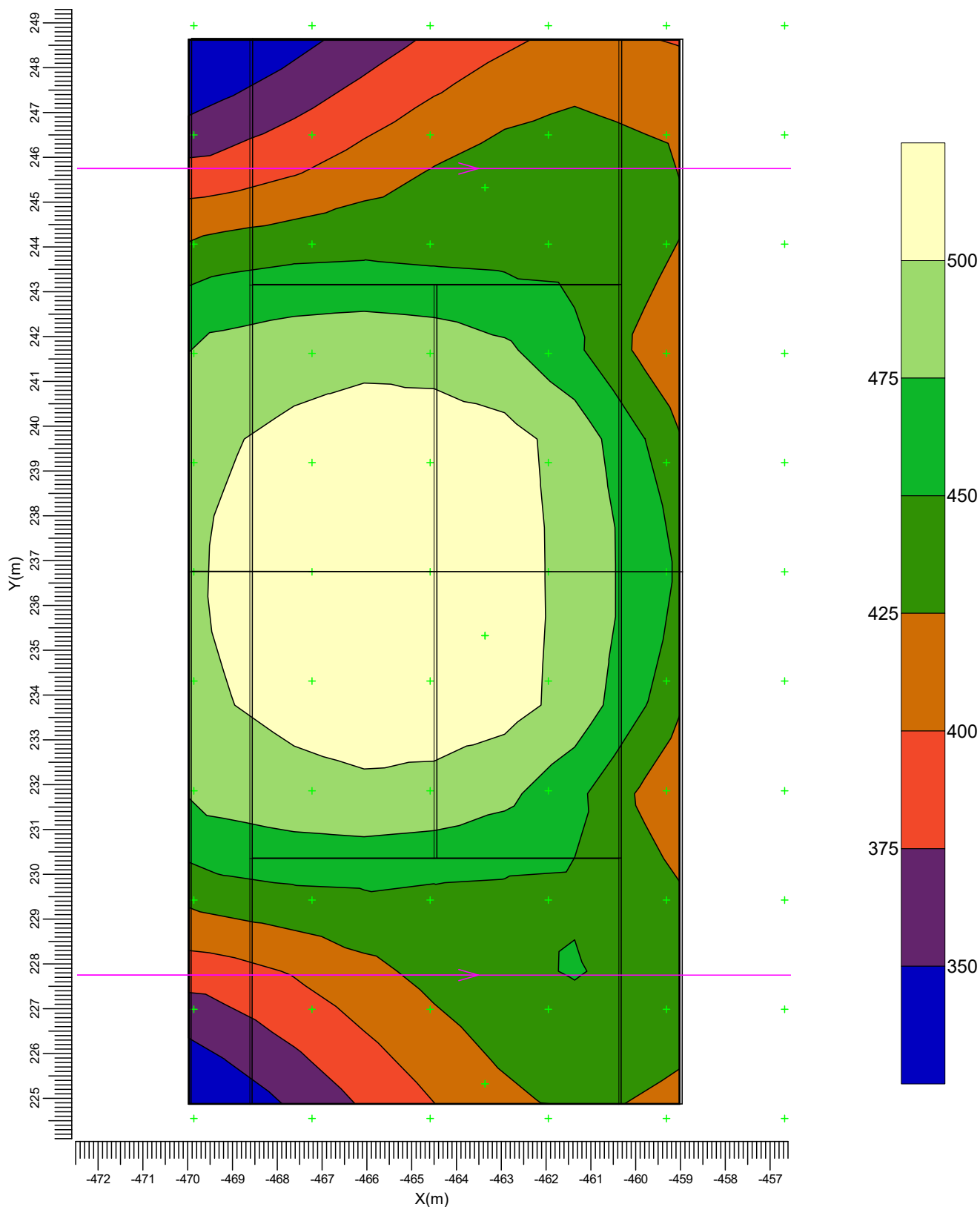


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
456	342	515	0.75	0.66	1.00	1:150

3.16 Tennisbaan 6: Gevuld isolijndiagram

Rekenraster : Tennisbaan 6 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

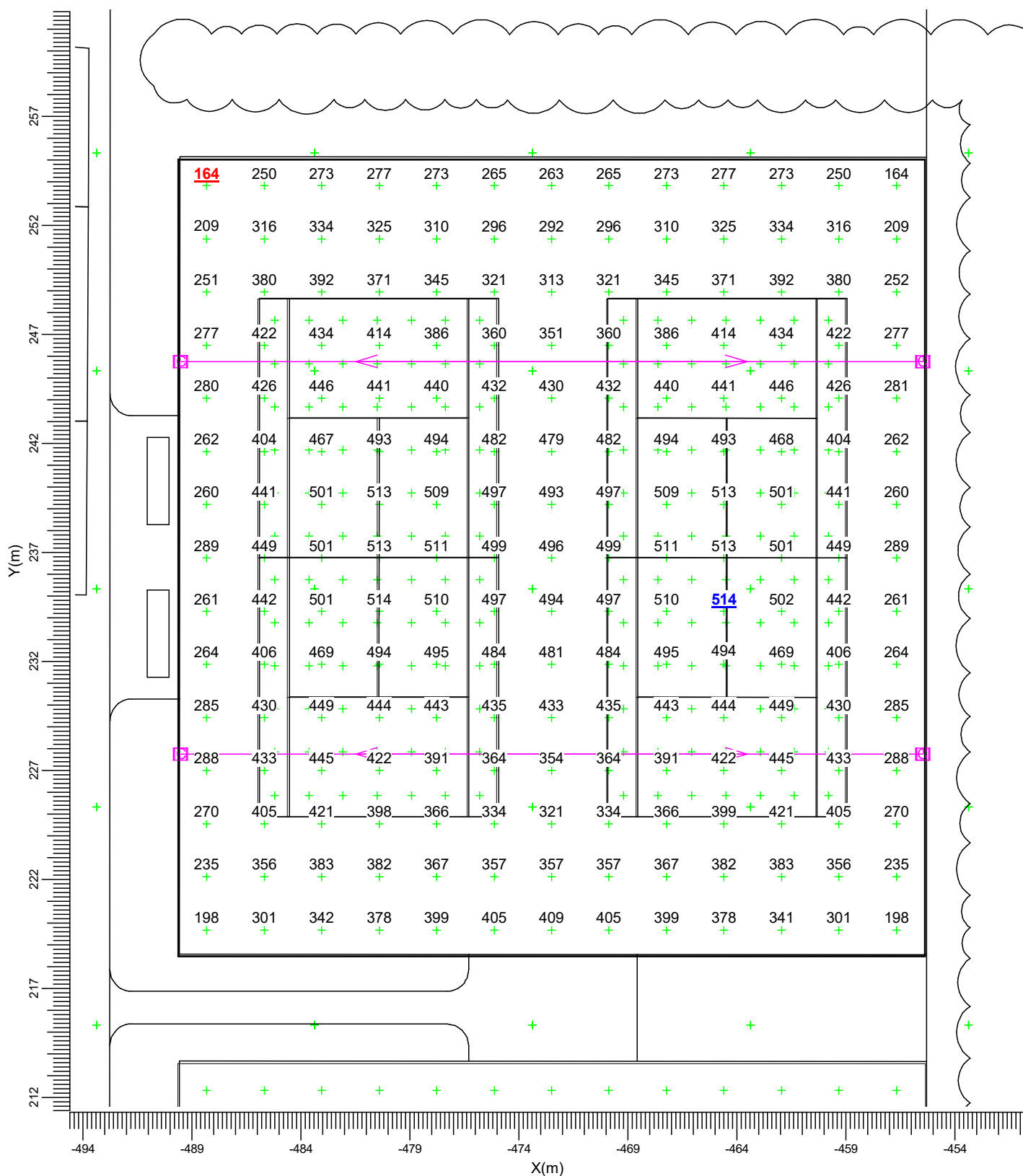


- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A | → | BVP130 A | B | → | BVP518 OUT T35 A35-MB LO |
| C | → | BVP528 OUT T35 A35-MB LO | D | → | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
456	342	515	0.75	0.66	1.00	1:125

3.17 Tennisbanen 5 en 6: Grafische tabel

Rekenraster : Tennisbanen 5 en 6 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

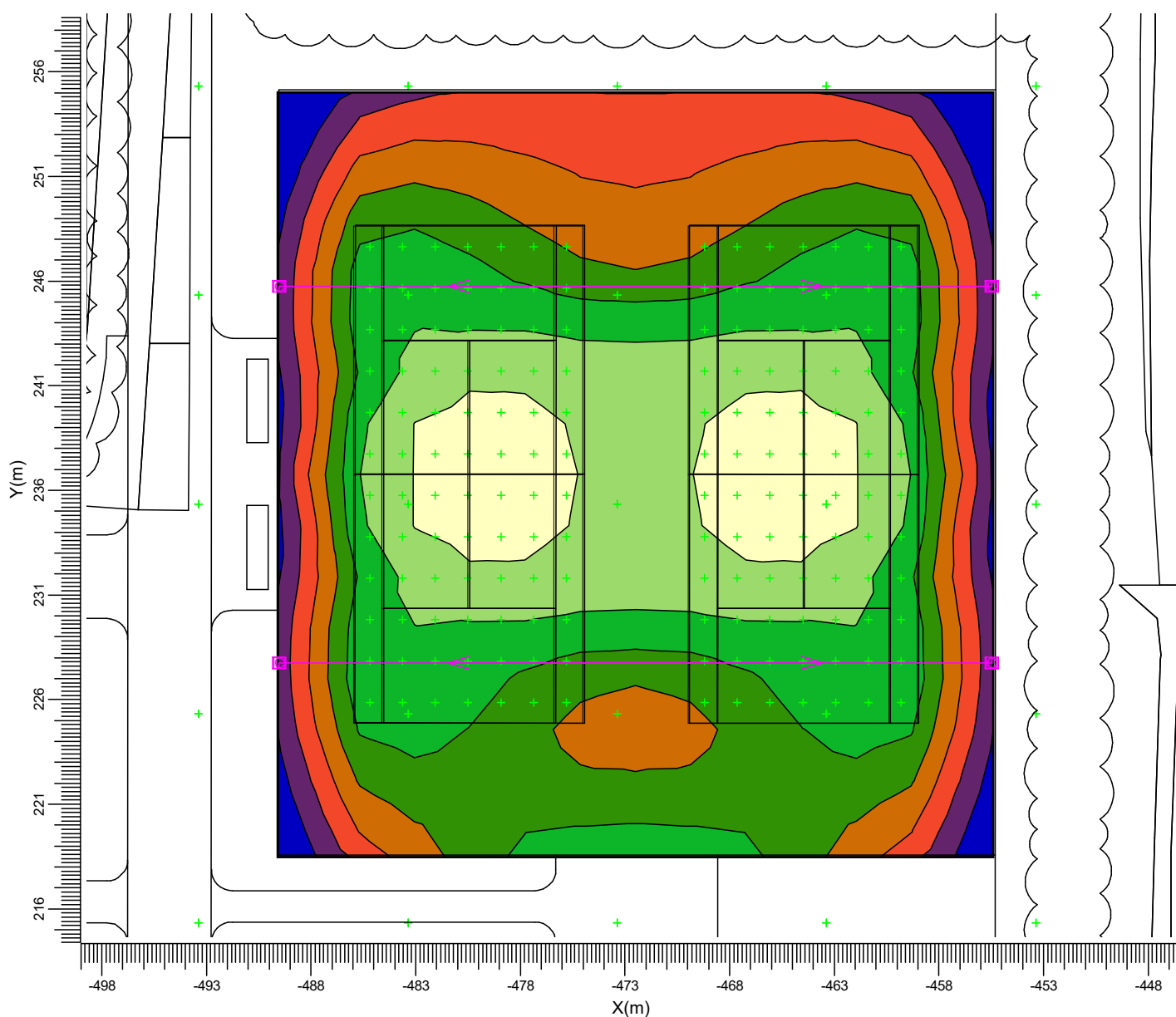
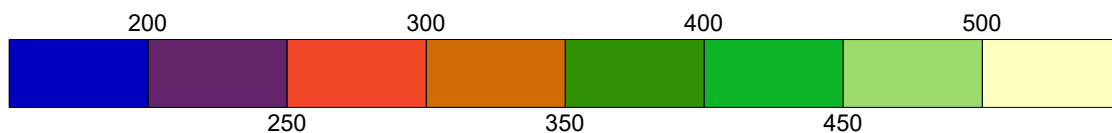


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
386	164	514	0.42	0.32	1.00	1:250

3.18 Tennisbanen 5 en 6: Gevuld isolijndiagram

Rekenraster : Tennisbanen 5 en 6 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

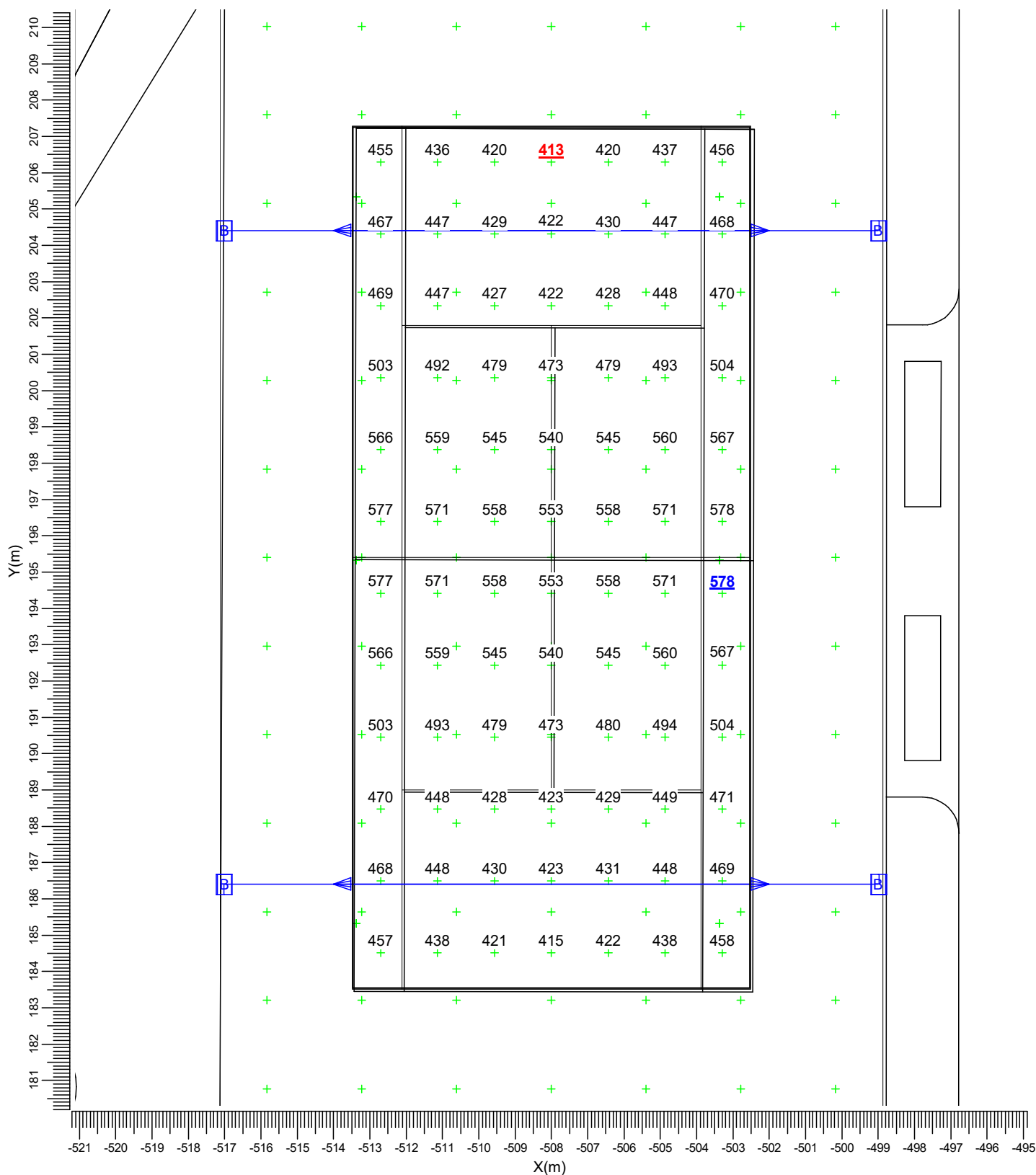


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
386	164	514	0.42	0.32	1.00	1:300

3.19 Tennisbaan 7: Grafische tabel

Rekenraster : Tennisbaan 7 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

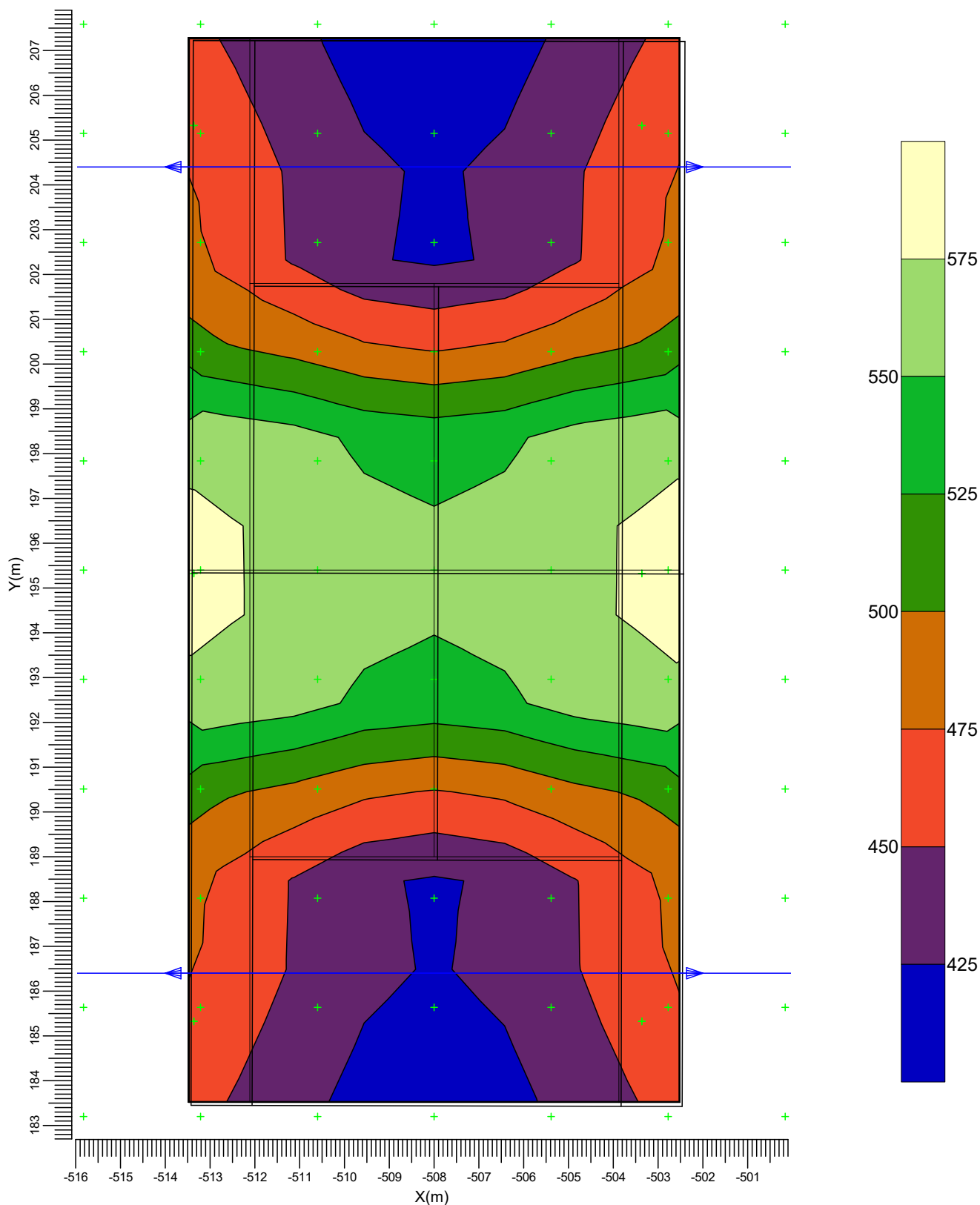


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
489	413	578	0.84	0.71	1.00	1:150

3.20 Tennisbaan 7: Gevuld isolijndiagram

Rekenraster : Tennisbaan 7 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

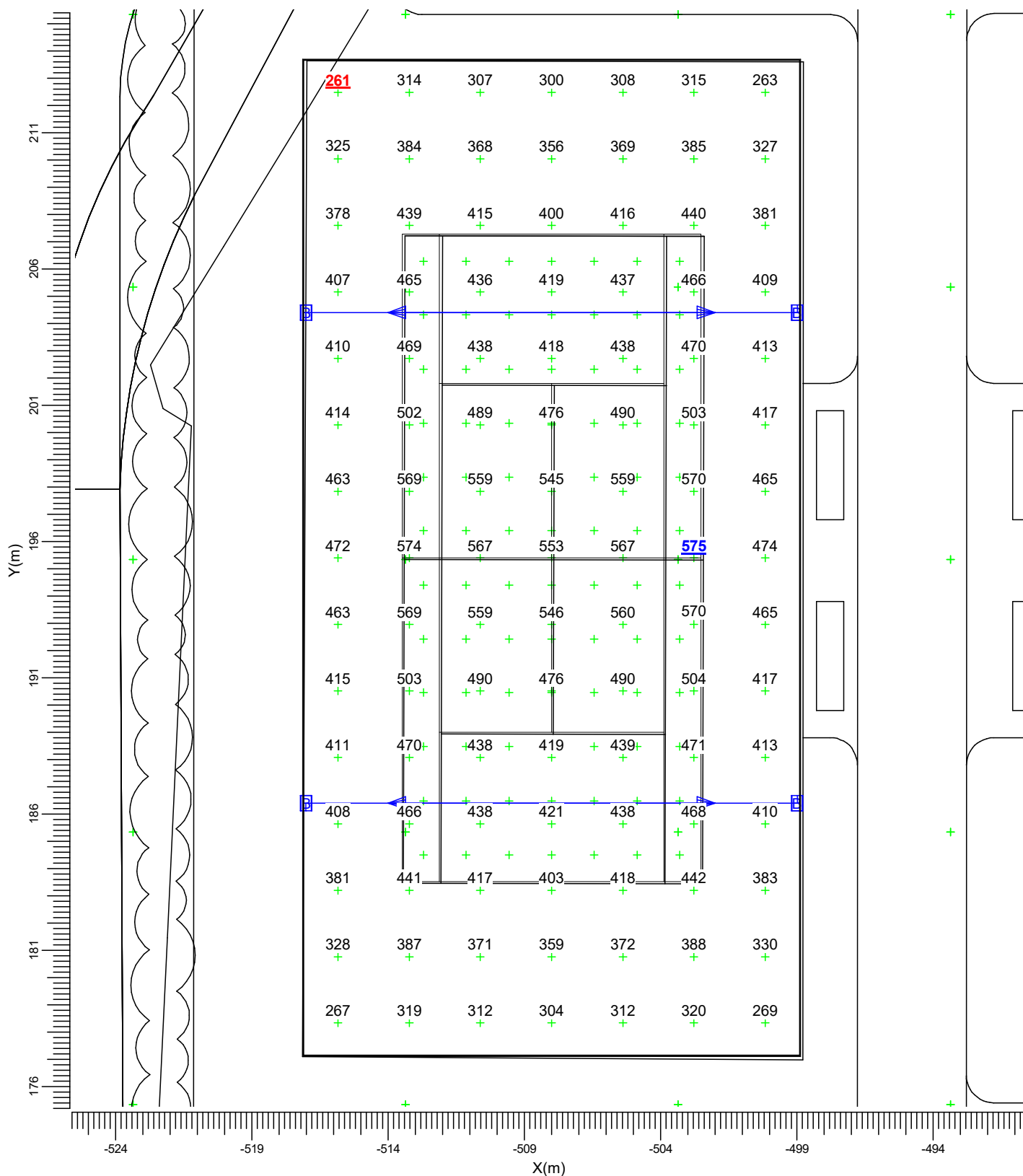


A	→	BVP130 A	B	→	BVP518 OUT T35 A35-MB LO
C	→	BVP528 OUT T35 A35-MB LO	D	→	BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
489	413	578	0.84	0.71	1.00	1:125

3.21 Tennisbaan 7 TA: Grafische tabel

Rekenraster : Tennisbaan 7 TA op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

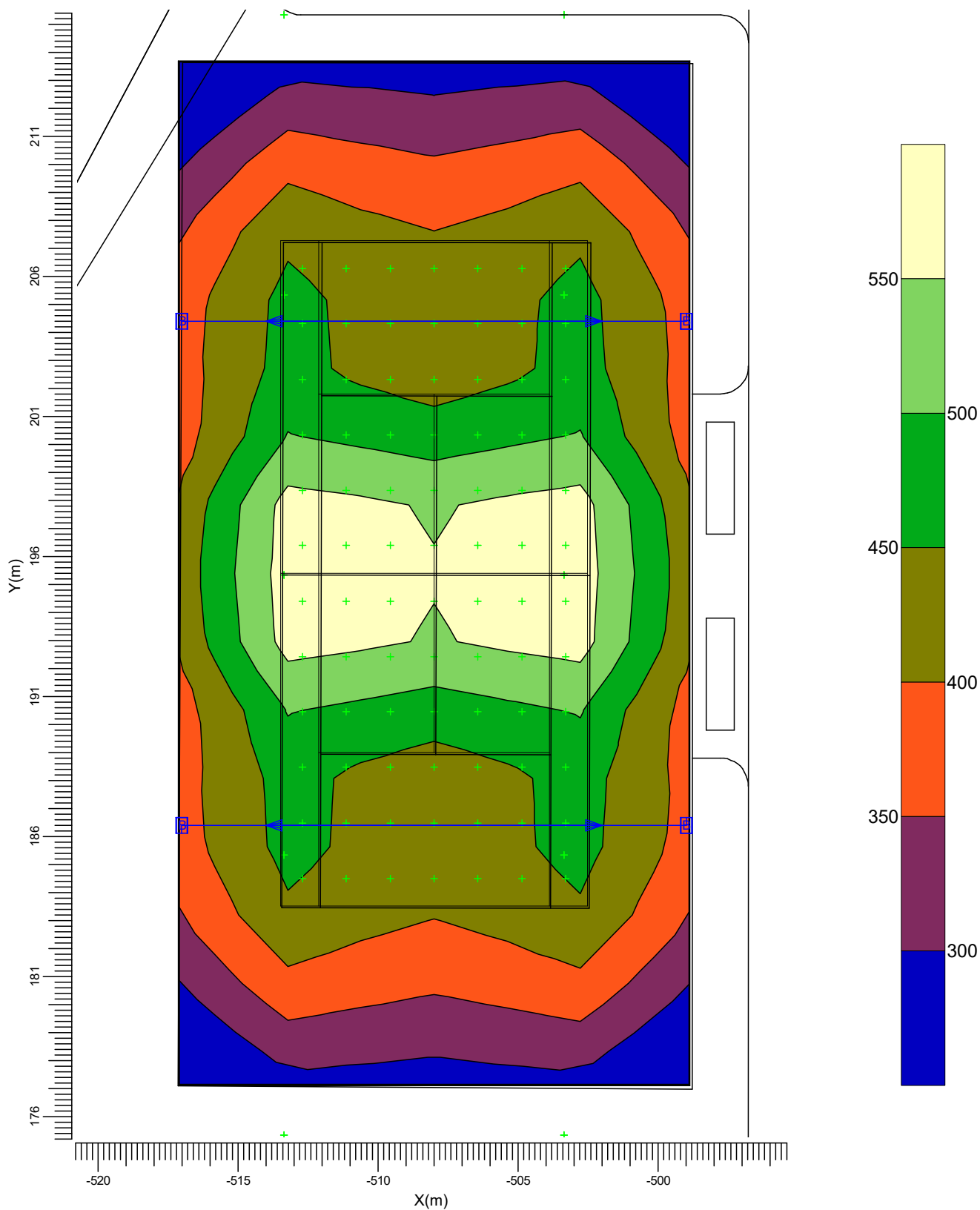


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
429	261	575	0.61	0.45	1.00	1:200

3.22 Tennisbaan 7 TA: Gevuld isolijndiagram

Rekenraster : Tennisbaan 7 TA op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

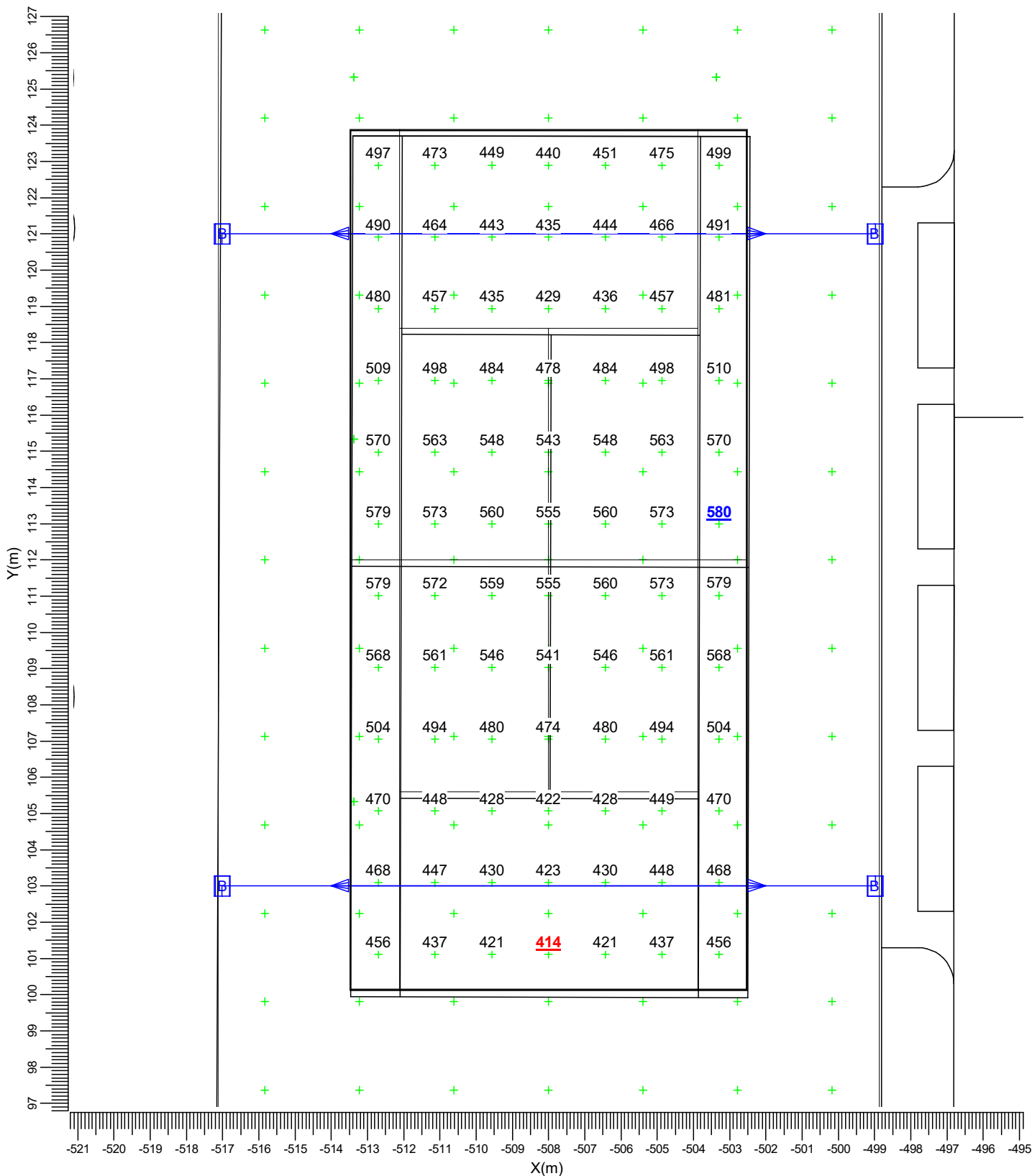


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
429	261	575	0.61	0.45	1.00	1:200

3.23 Tennisbaan 8: Grafische tabel

Rekenraster : Tennisbaan 8 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

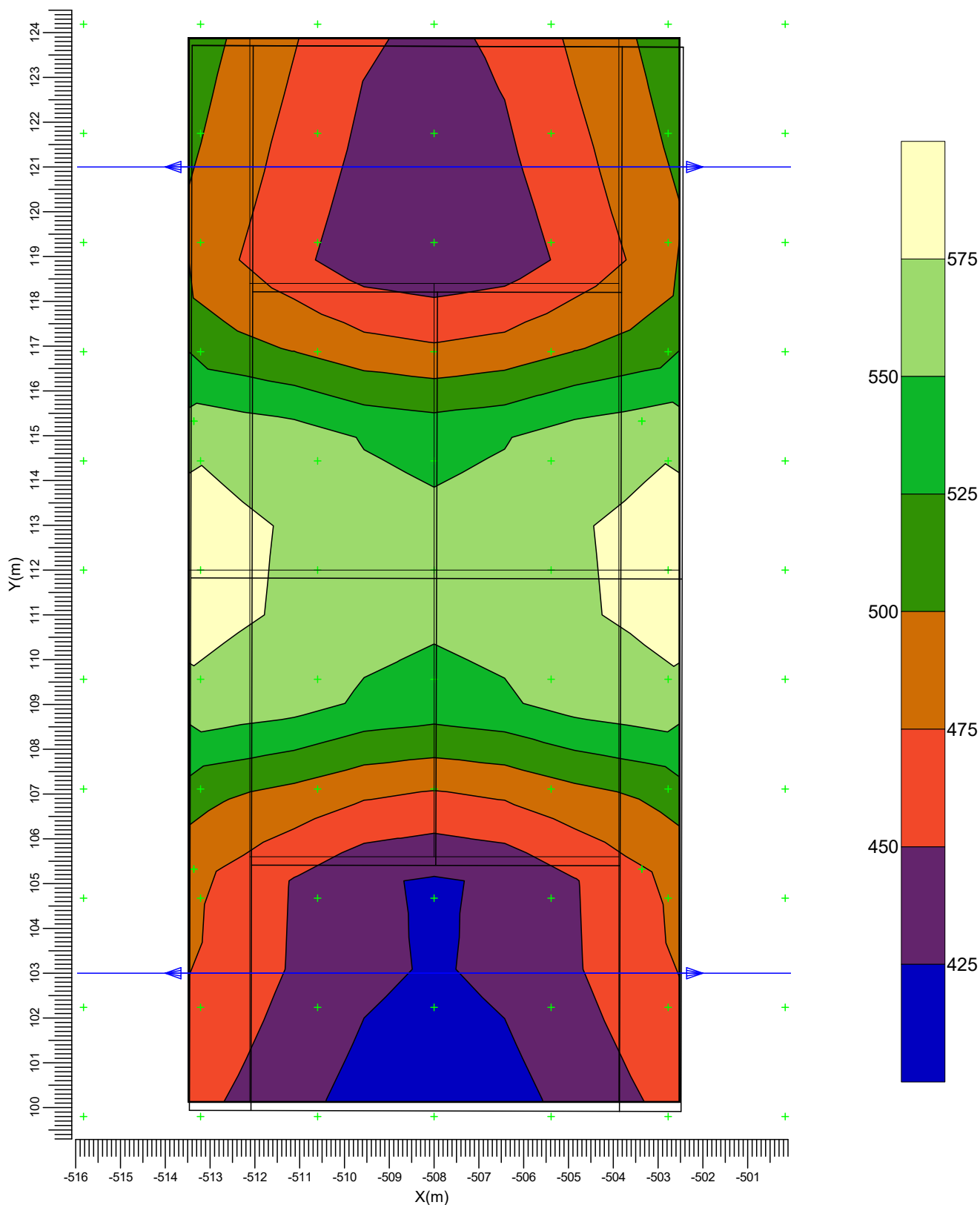






A BVP130 A B BVP518 OUT T35 A35-MB LO
C BVP528 OUT T35 A35-MB LO D BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
495	414	580	0.84	0.71	1.00	1:150

3.24 Tennisbaan 8: Gevuld isolijndiagram

Rekenraster : Tennisbaan 8 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

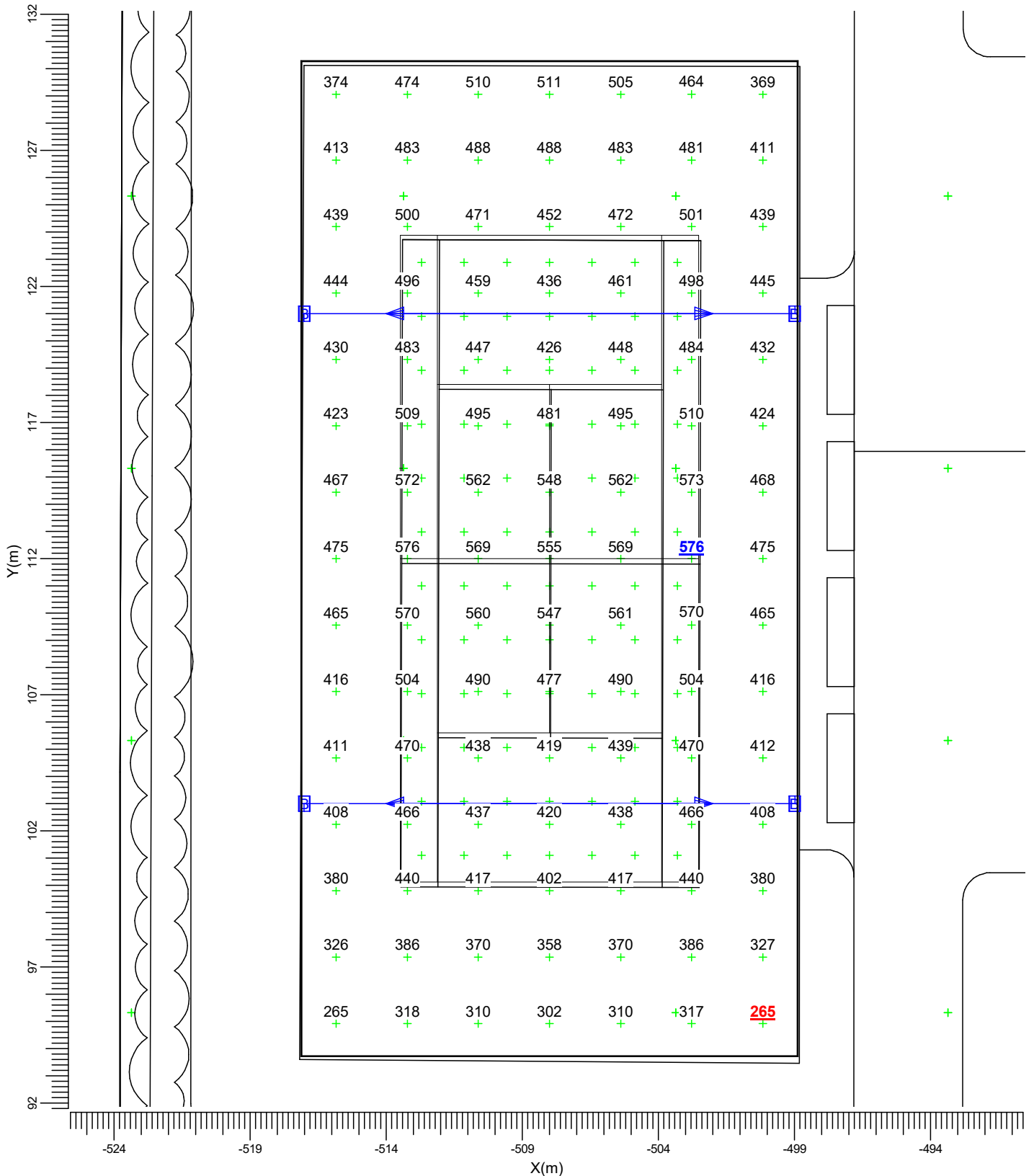


- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
495	414	580	0.84	0.71	1.00	1:125

3.25 Tennisbaan 8 TA: Grafische tabel

Rekenraster : Tennisbaan8 TA op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

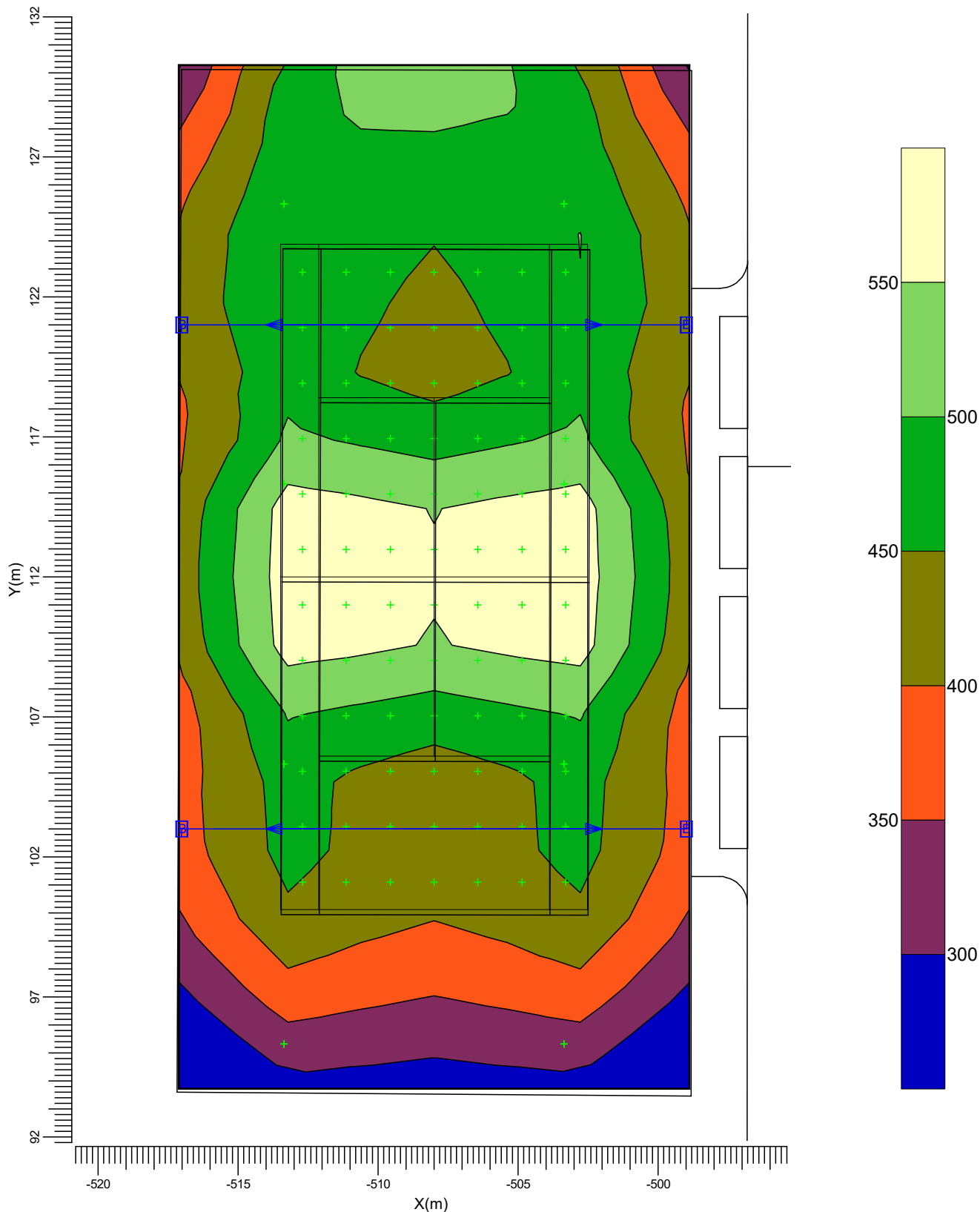






- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
454	265	576	0.58	0.46	1.00	1:200

3.26 Tennisbaan 8 TA: Gevuld isolijndiagram

Rekenraster : Tennisbaan8 TA op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

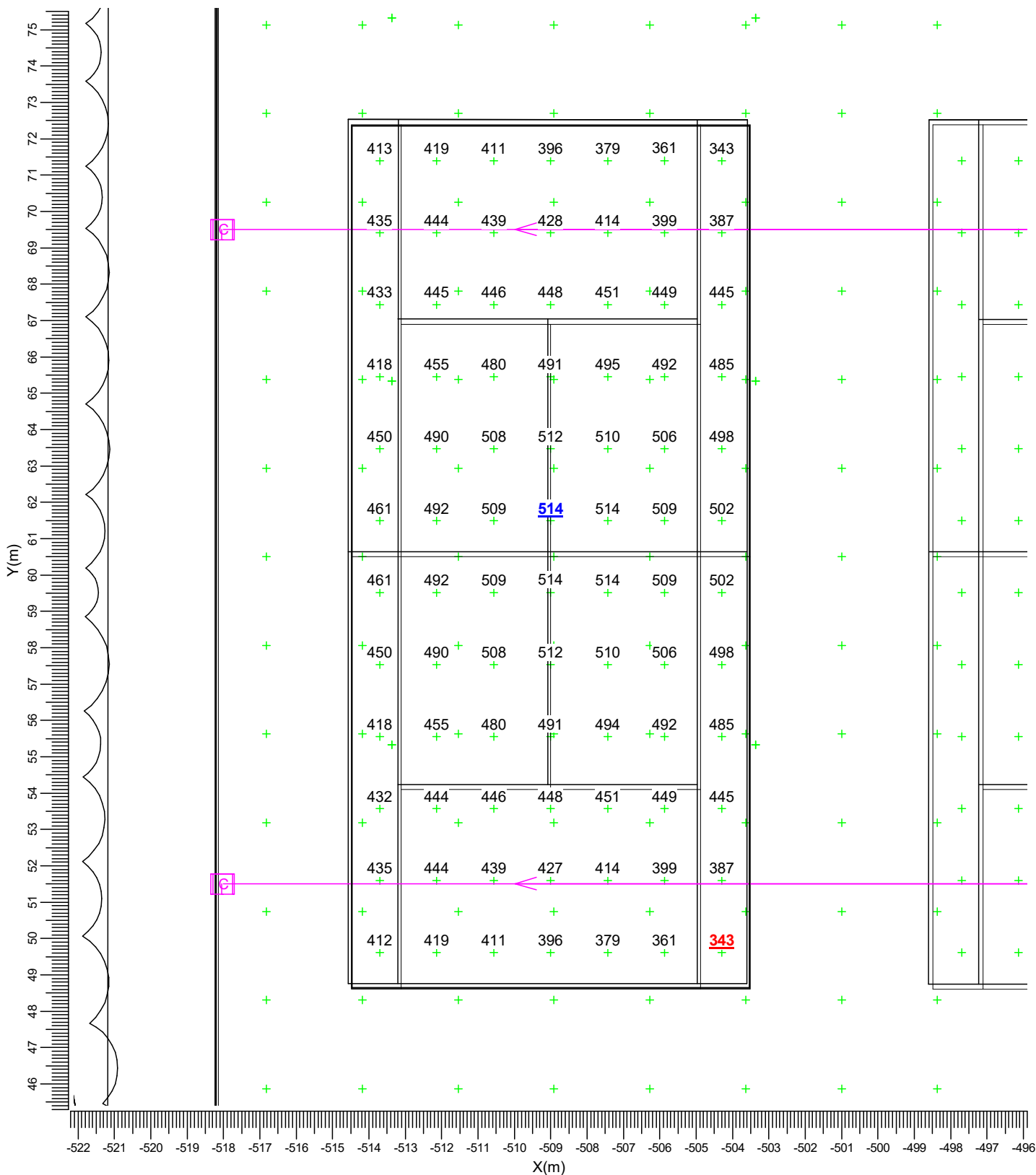


- | | | | | | |
|---|---|--------------------------|---|--|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
454	265	576	0.58	0.46	1.00	1:200

3.27 Tennisbaan 9: Grafische tabel

Rekenraster : Tennisbaan 9 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

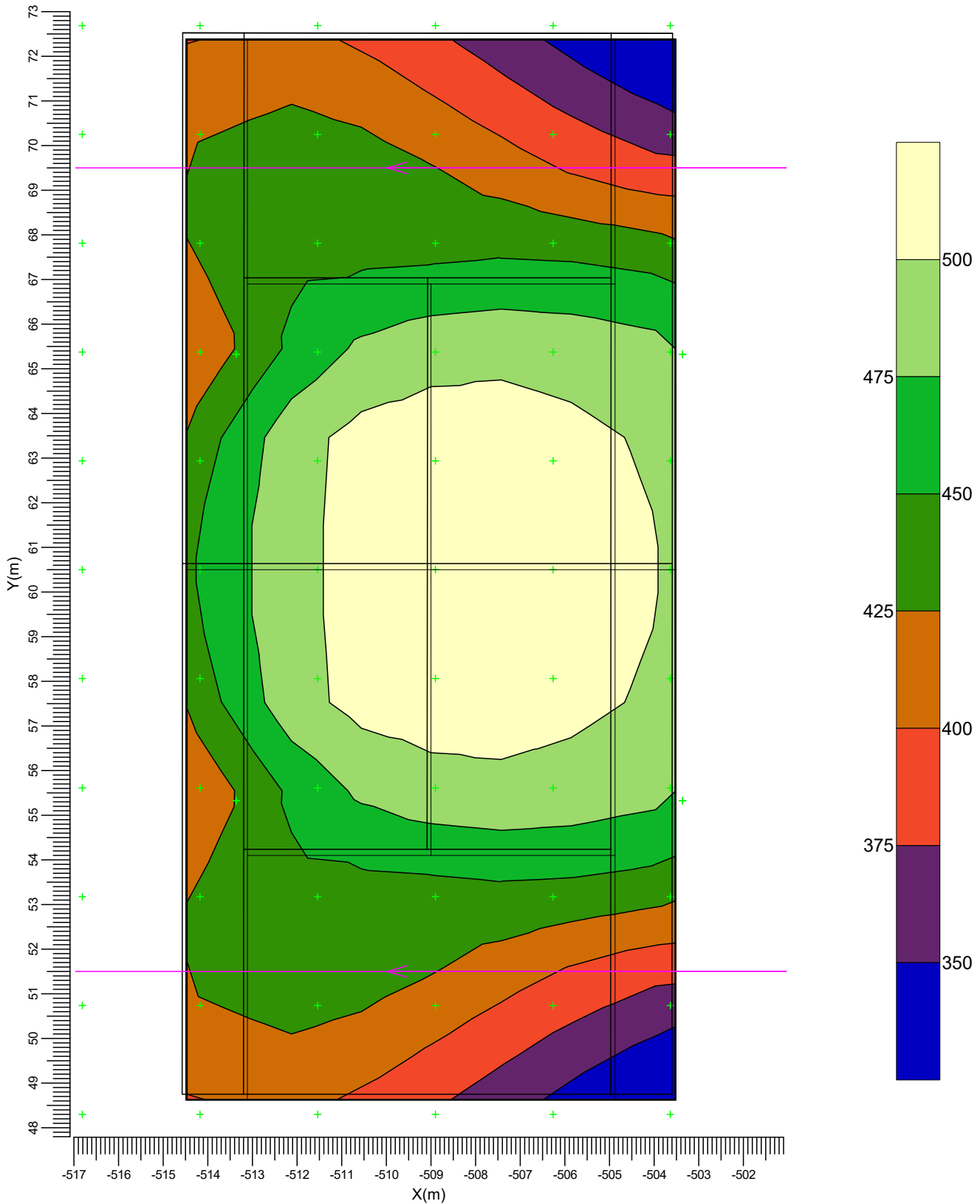


- A → BVP130 A
- B ▶ BVP518 OUT T35 A35-MB LO
- C ➤ BVP528 OUT T35 A35-MB LO
- D ▶ BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
454	343	514	0.76	0.67	1.00	1:150

3.28 Tennisbaan 9: Gevuld isolijndiagram

Rekenraster : Tennisbaan 9 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

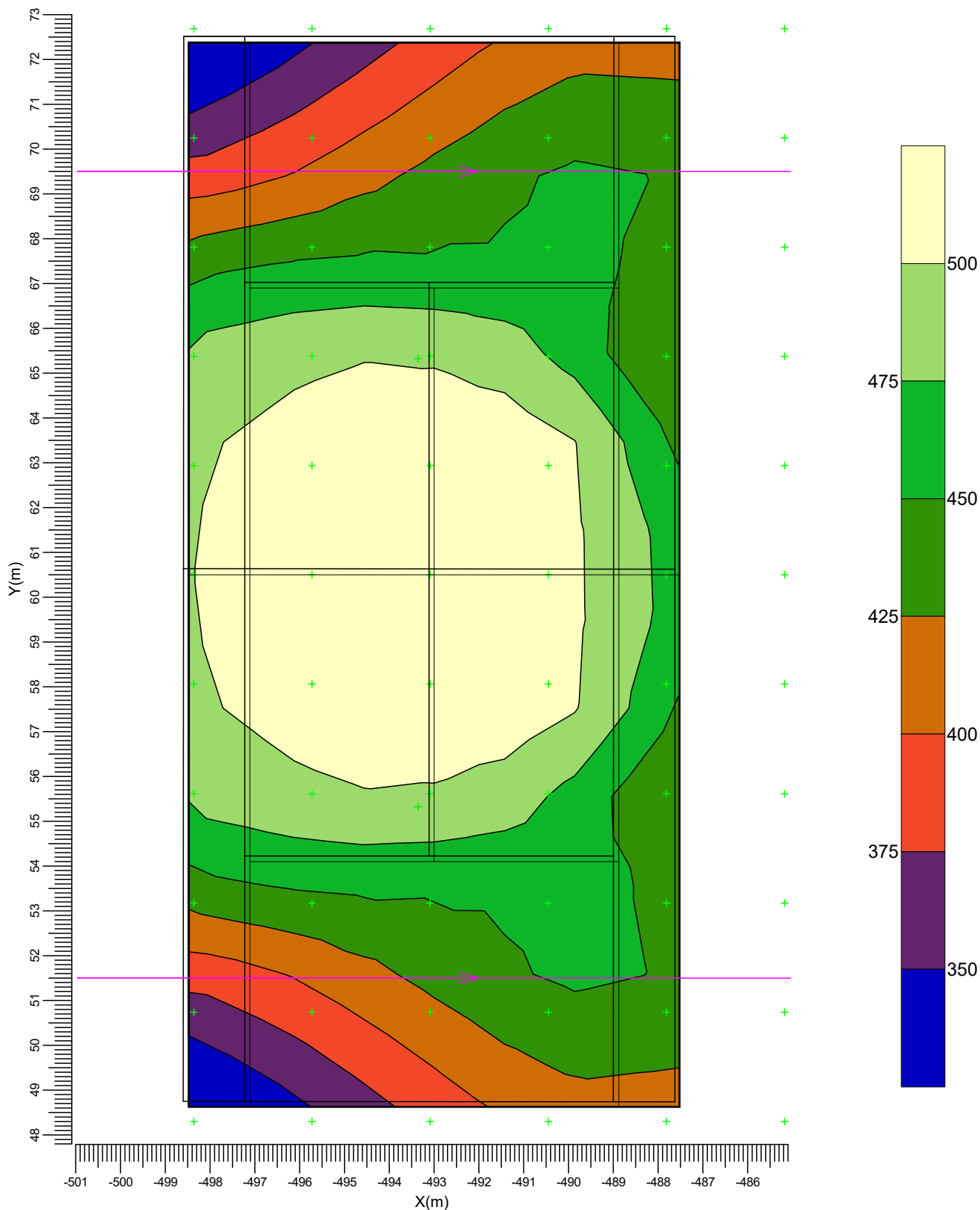


- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A | → | BVP130 A | B | → | BVP518 OUT T35 A35-MB LO |
| C | → | BVP528 OUT T35 A35-MB LO | D | → | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
454	343	514	0.76	0.67	1.00	1:125

3.30 Tennisbaan 10: Gevuld isolijndiagram

Rekenraster : Tennisbaan 10 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

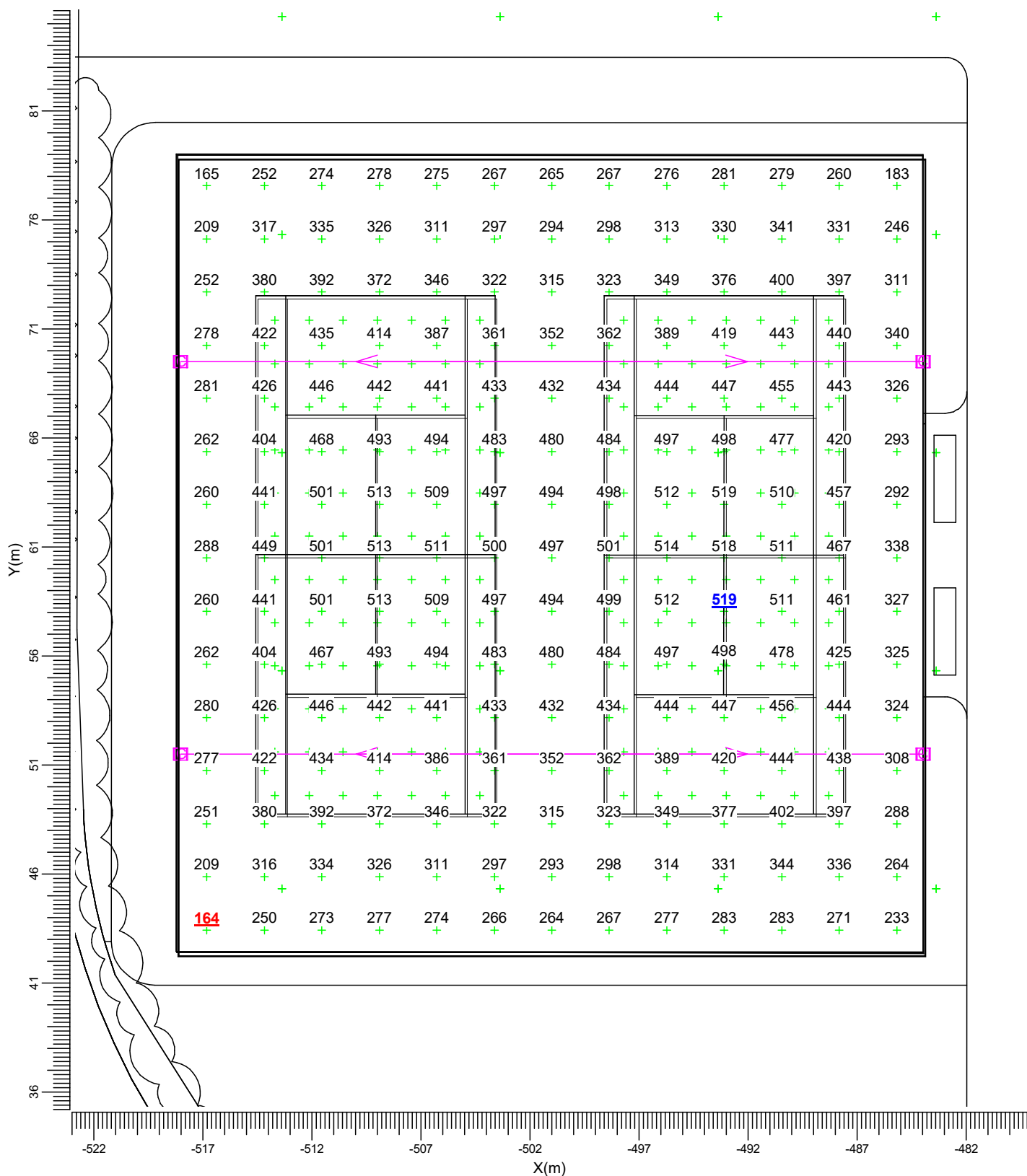


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
461	345	520	0.75	0.66	1.00	1:125

3.31 Tennisbanen 9 en 10: Grafische tabel

Rekenraster : Tennisbanen 9 en 10 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

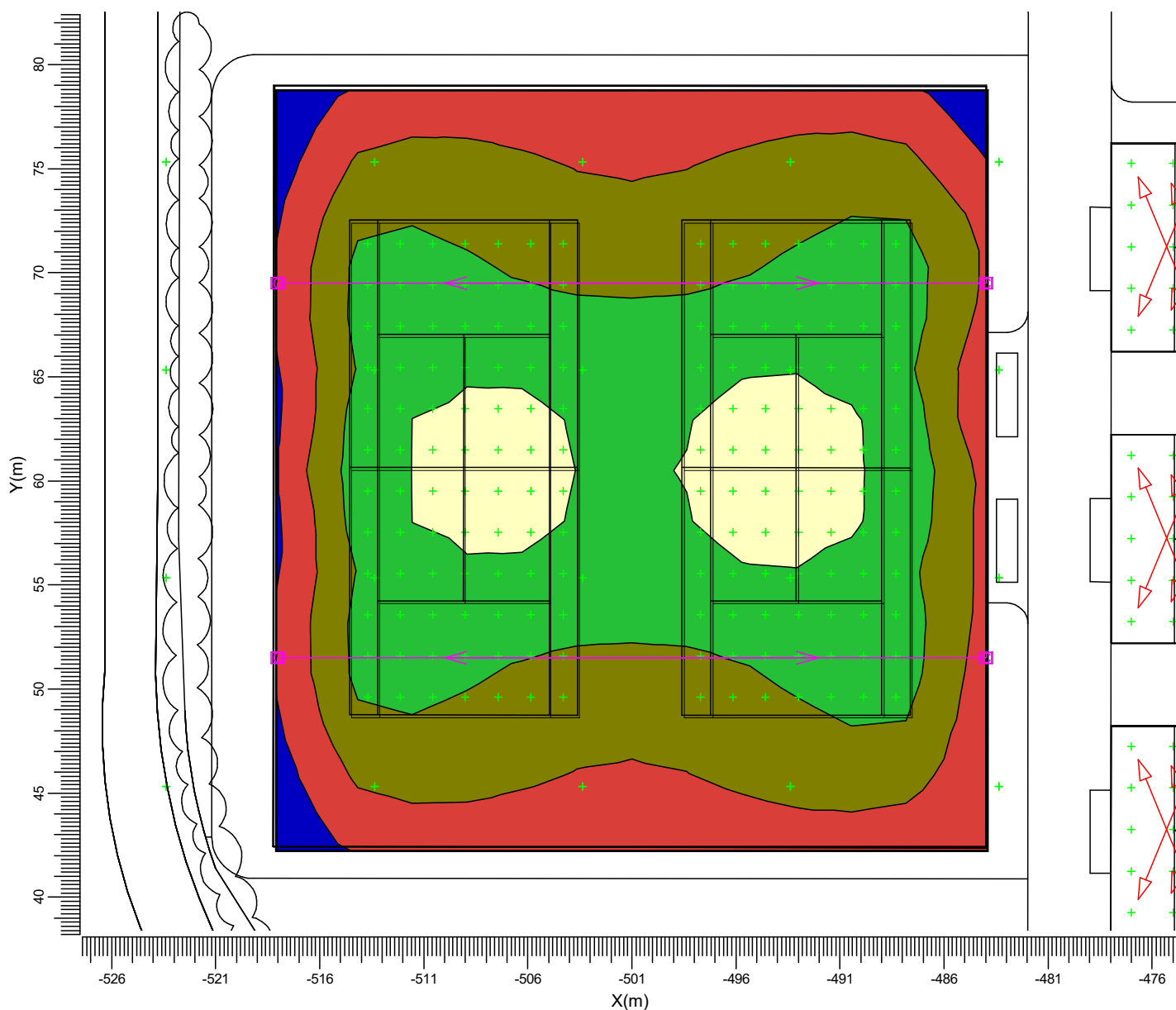


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
381	164	519	0.43	0.32	1.00	1:250

3.32 Tennisbanen 9 en 10: Gevuld isolijndiagram

Rekenraster : Tennisbanen 9 en 10 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

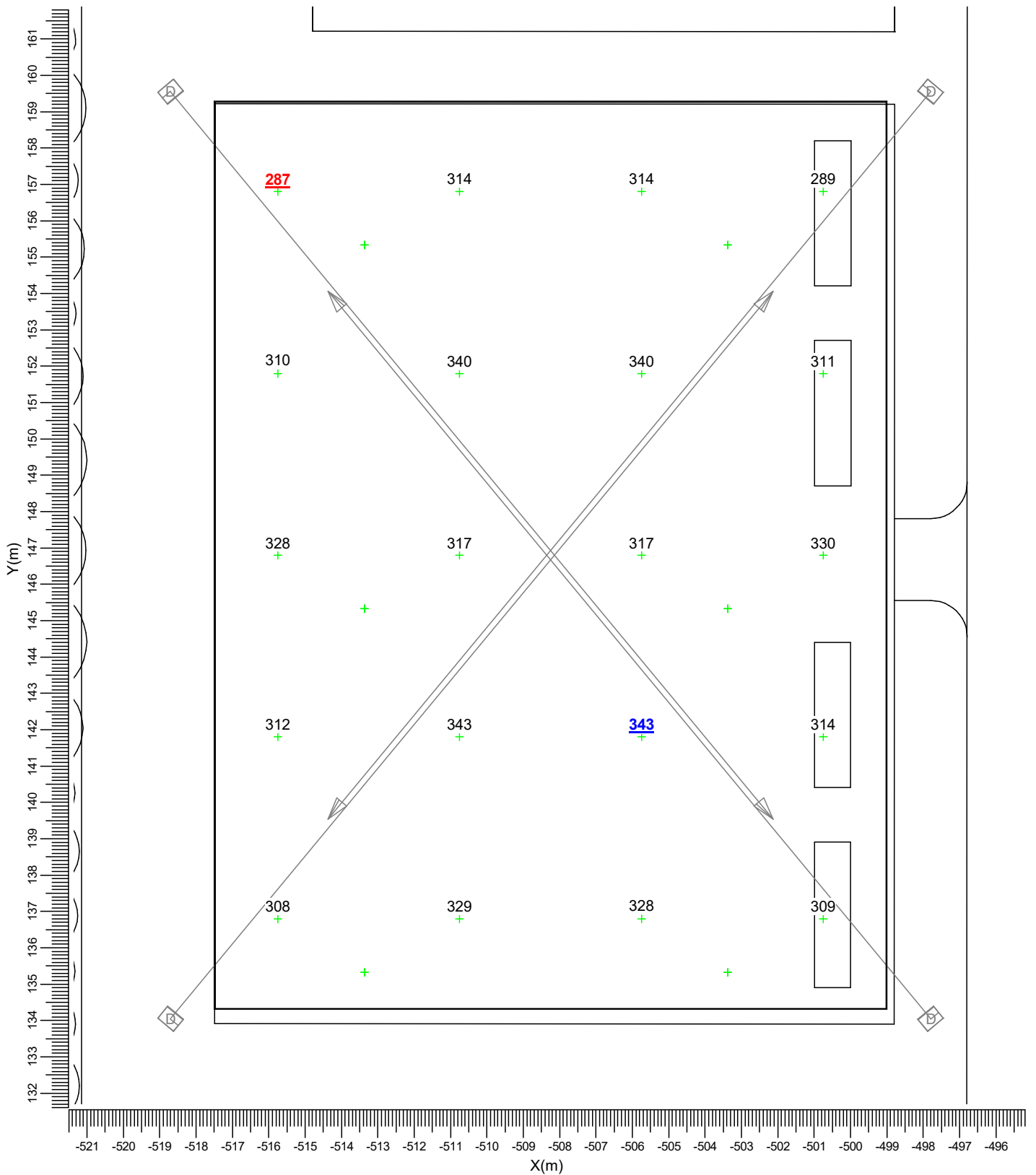


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
381	164	519	0.43	0.32	1.00	1:300

3.33 Jeu de Boules: Grafische tabel

Rekenraster : Jeu de Boules op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

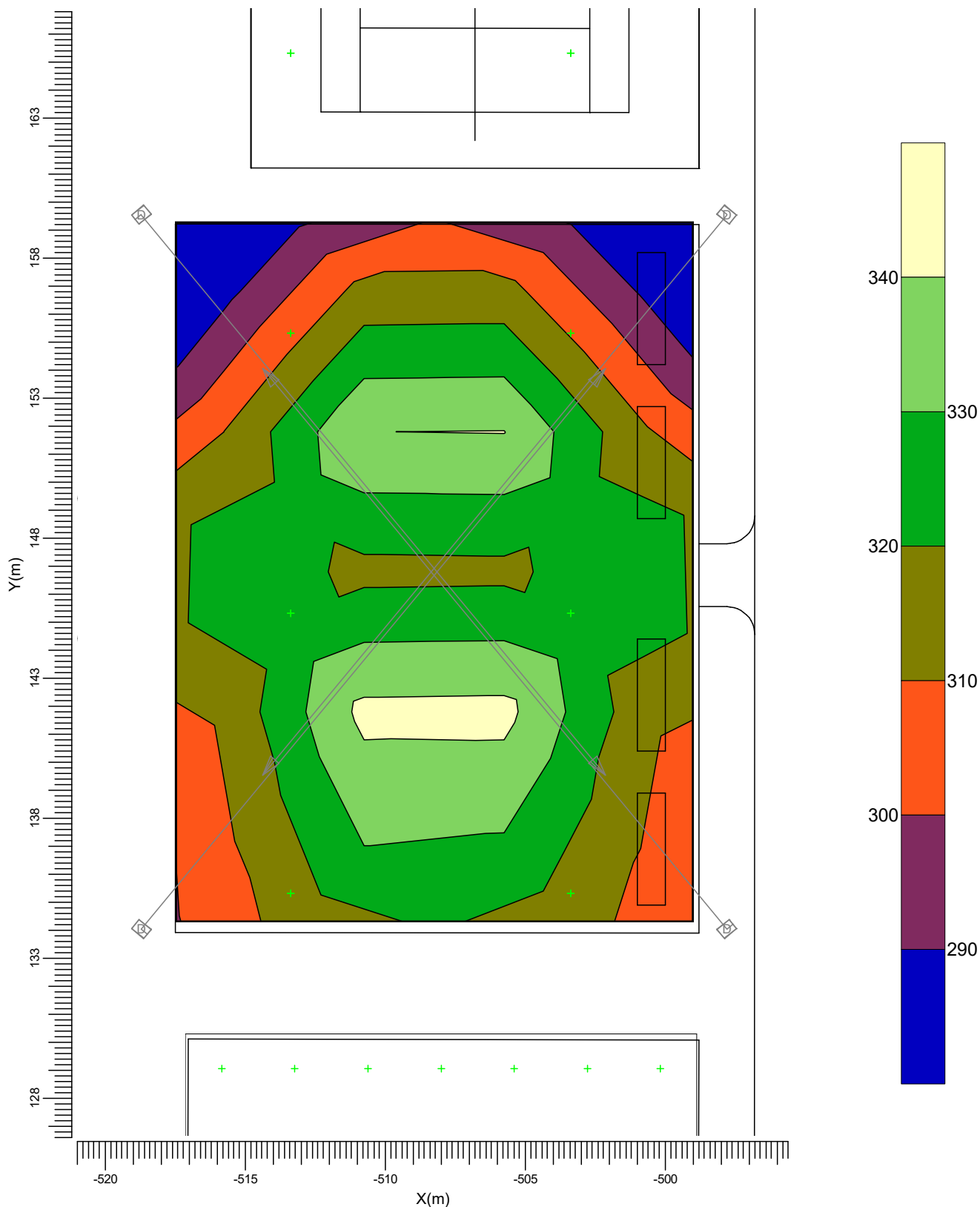






- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
319	287	343	0.90	0.84	1.00	1:150

3.34 Jeu de Boules: Gevuld isolijndiagram

Rekenraster : Jeu de Boules op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

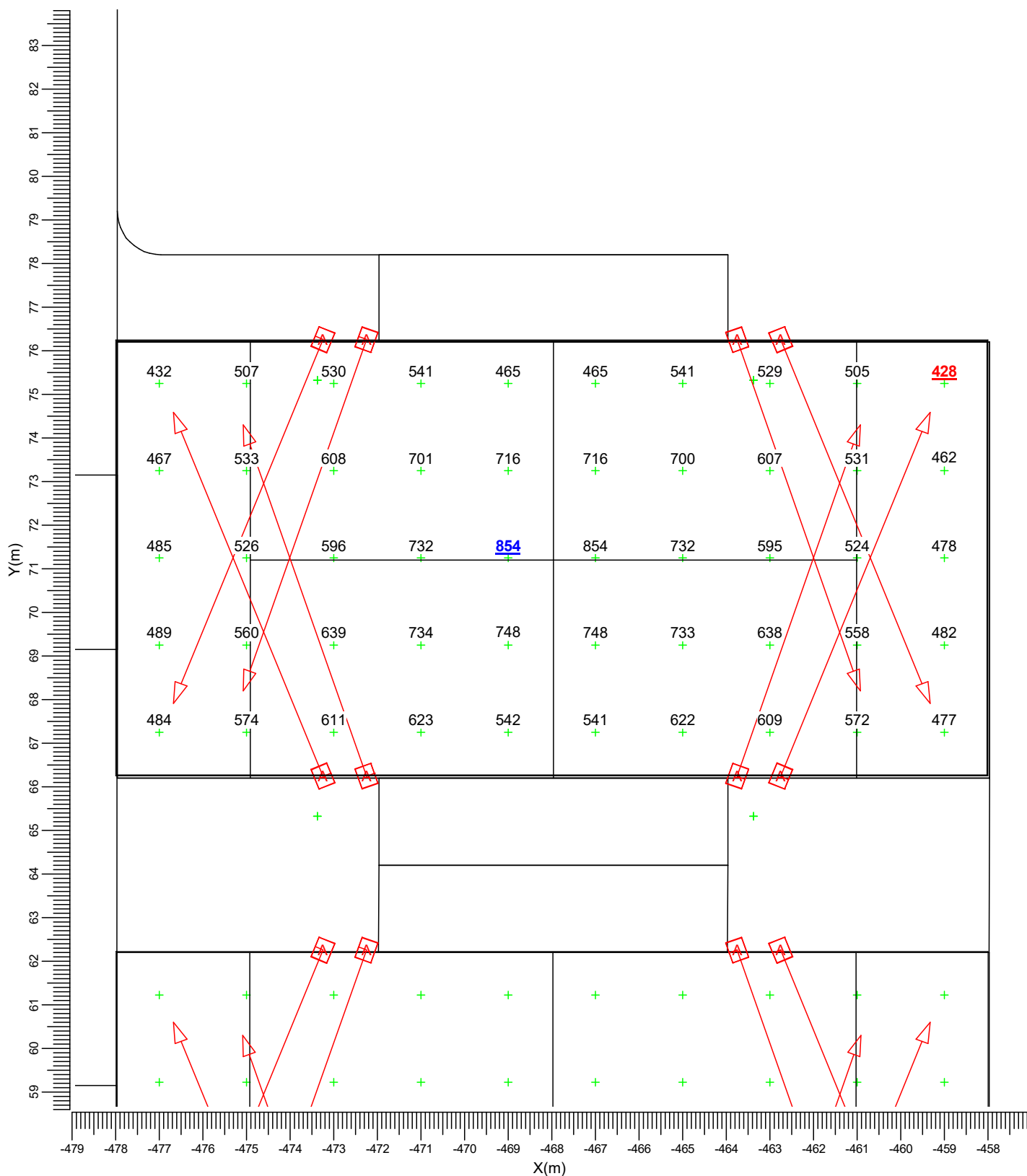


- | | | | | | |
|---|---|--------------------------|---|--|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
319	287	343	0.90	0.84	1.00	1:200

3.35 Padelbaan 1: Grafische tabel

Rekenraster : Padelbaan 1 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

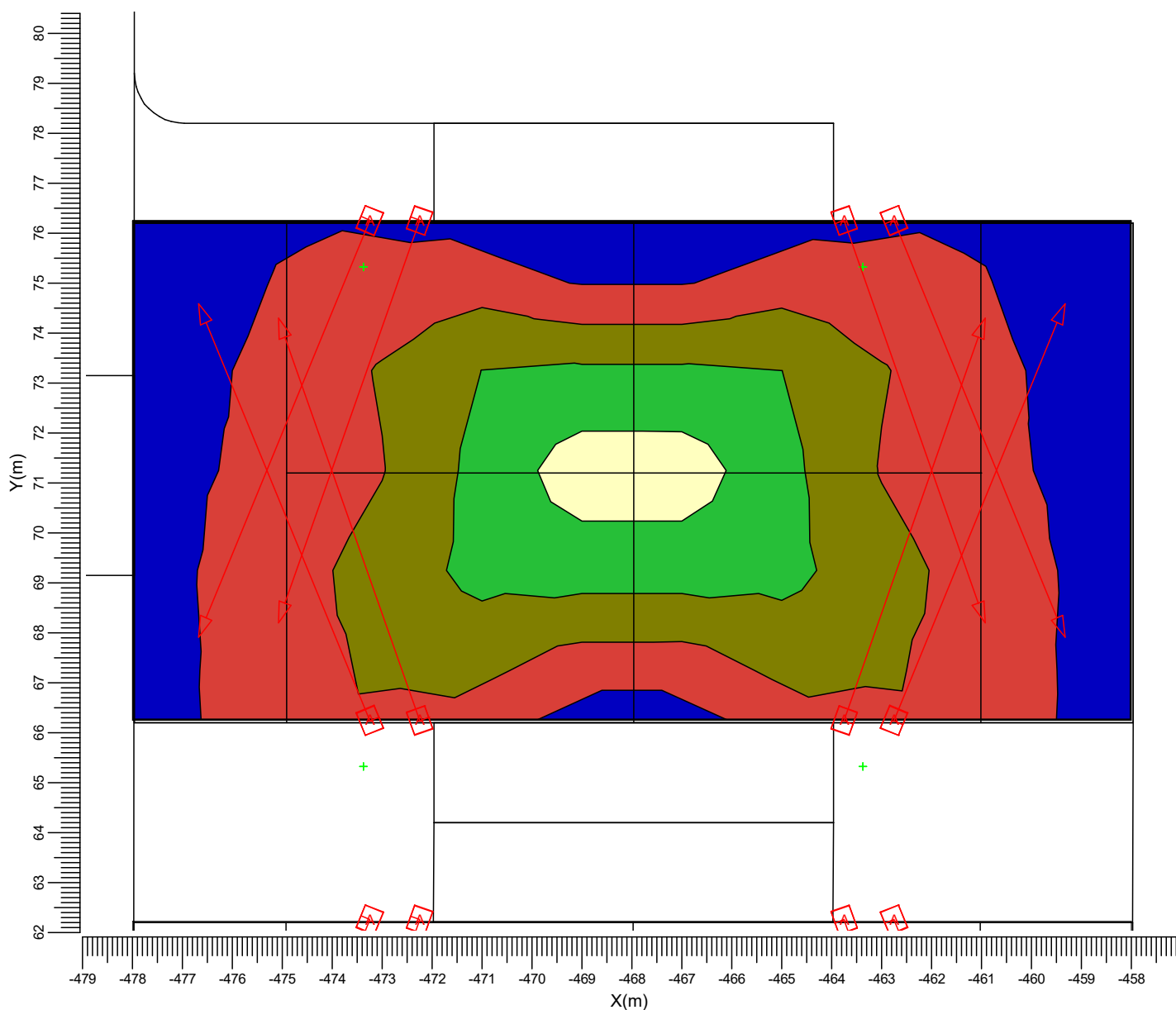


- A BVP130 A
- B BVP518 OUT T35 A35-MB LO
- C BVP528 OUT T35 A35-MB LO
- D BVP518 OUT T35 A55-WB LO

Gemiddeld 587 Minimum 428 Maximum 854 Min/gem 0.73 Min/max 0.50 Algemene behoudfactor 1.00 Schaal 1:125

3.36 Padelbaan 1: Gevuld isolijndiagram

Rekenraster : Padelbaan 1 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

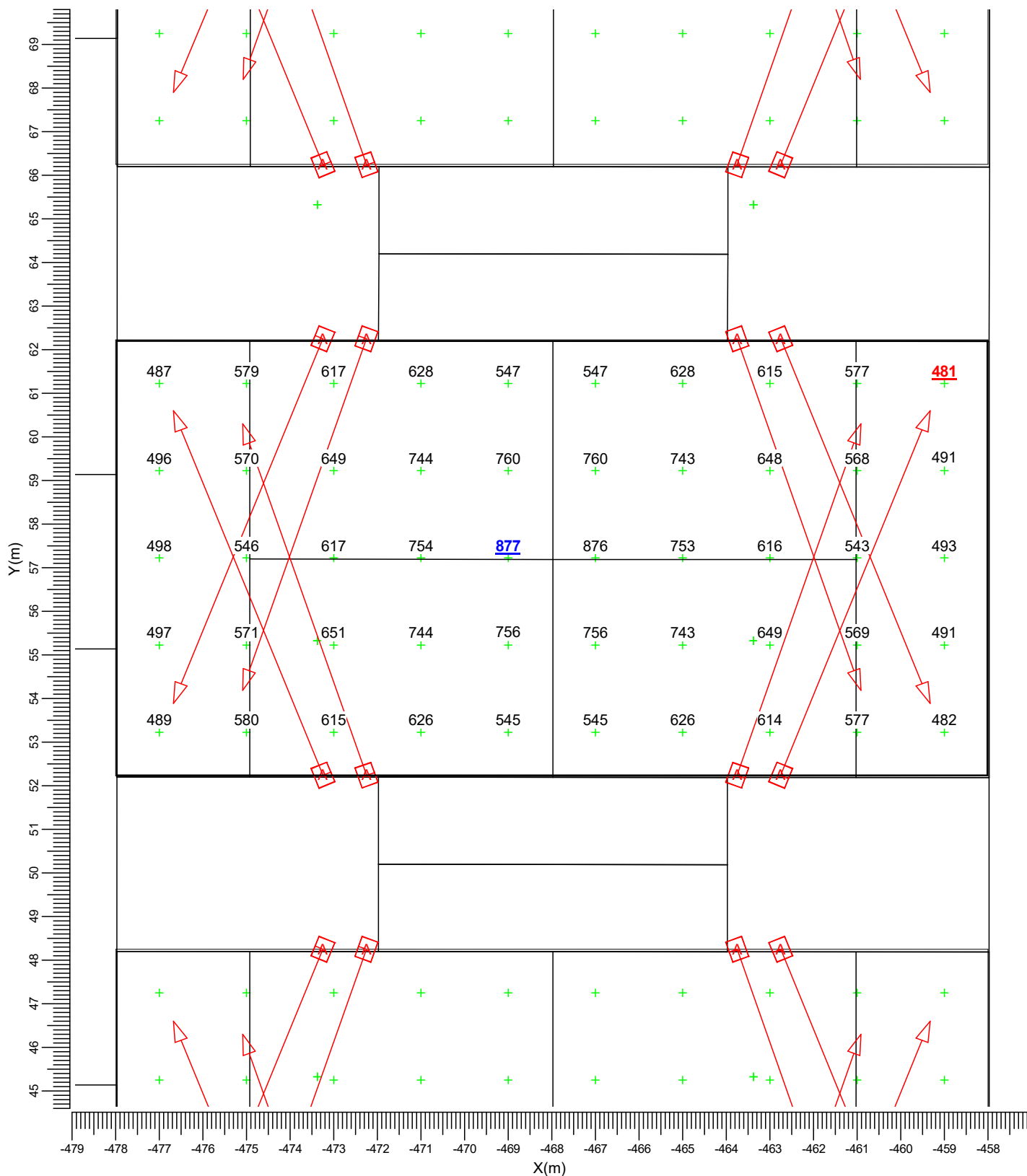


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
587	428	854	0.73	0.50	1.00	1:125

3.37 Padelbaan 2: Grafische tabel

Rekenraster : Padelbaan 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

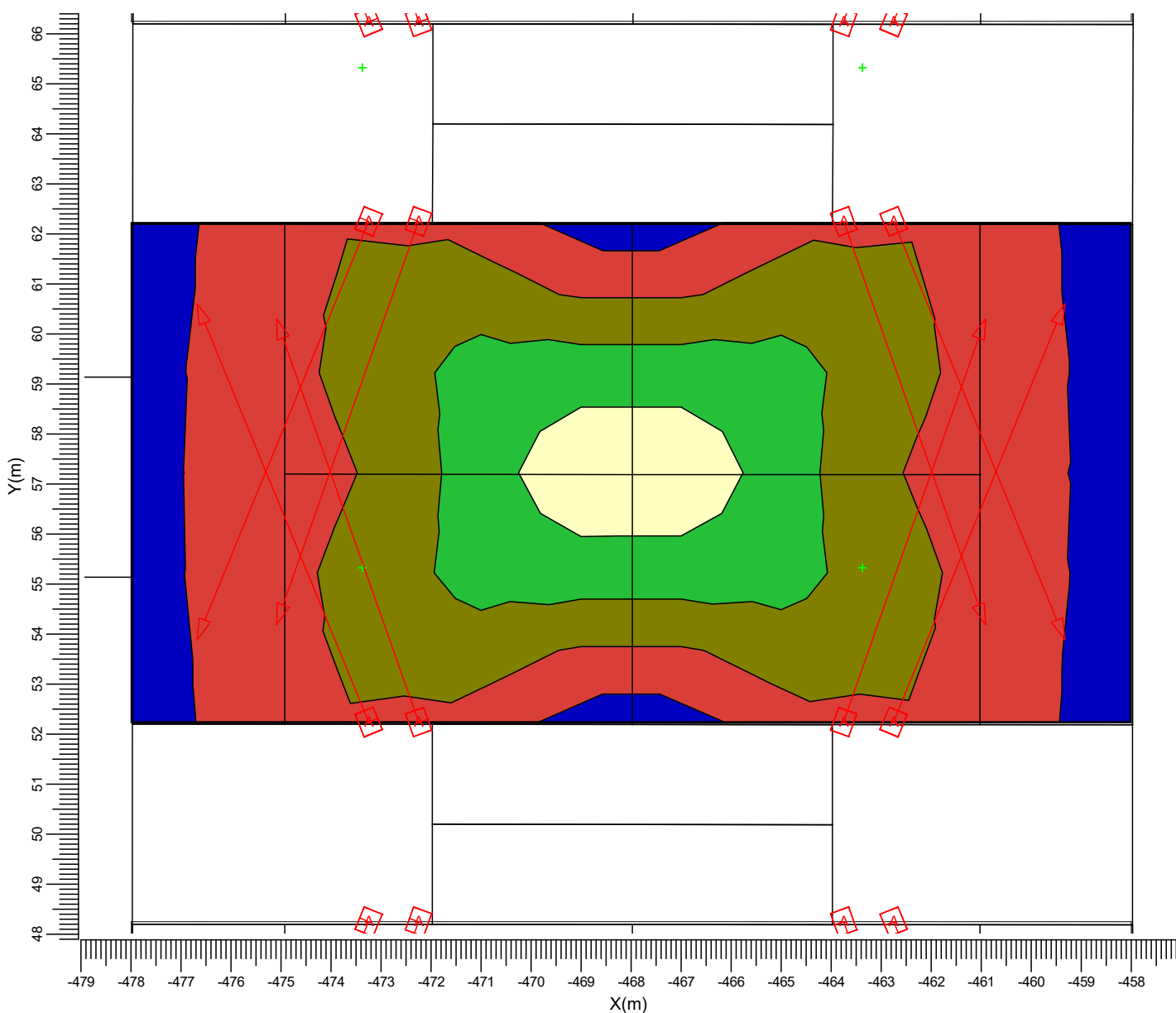


- A BVP130 A
- B BVP518 OUT T35 A35-MB LO
- C BVP528 OUT T35 A35-MB LO
- D BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
617	481	877	0.78	0.55	1.00	1:125

3.38 Padelbaan 2: Gevuld isolijndiagram

Rekenraster : Padelbaan 2 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

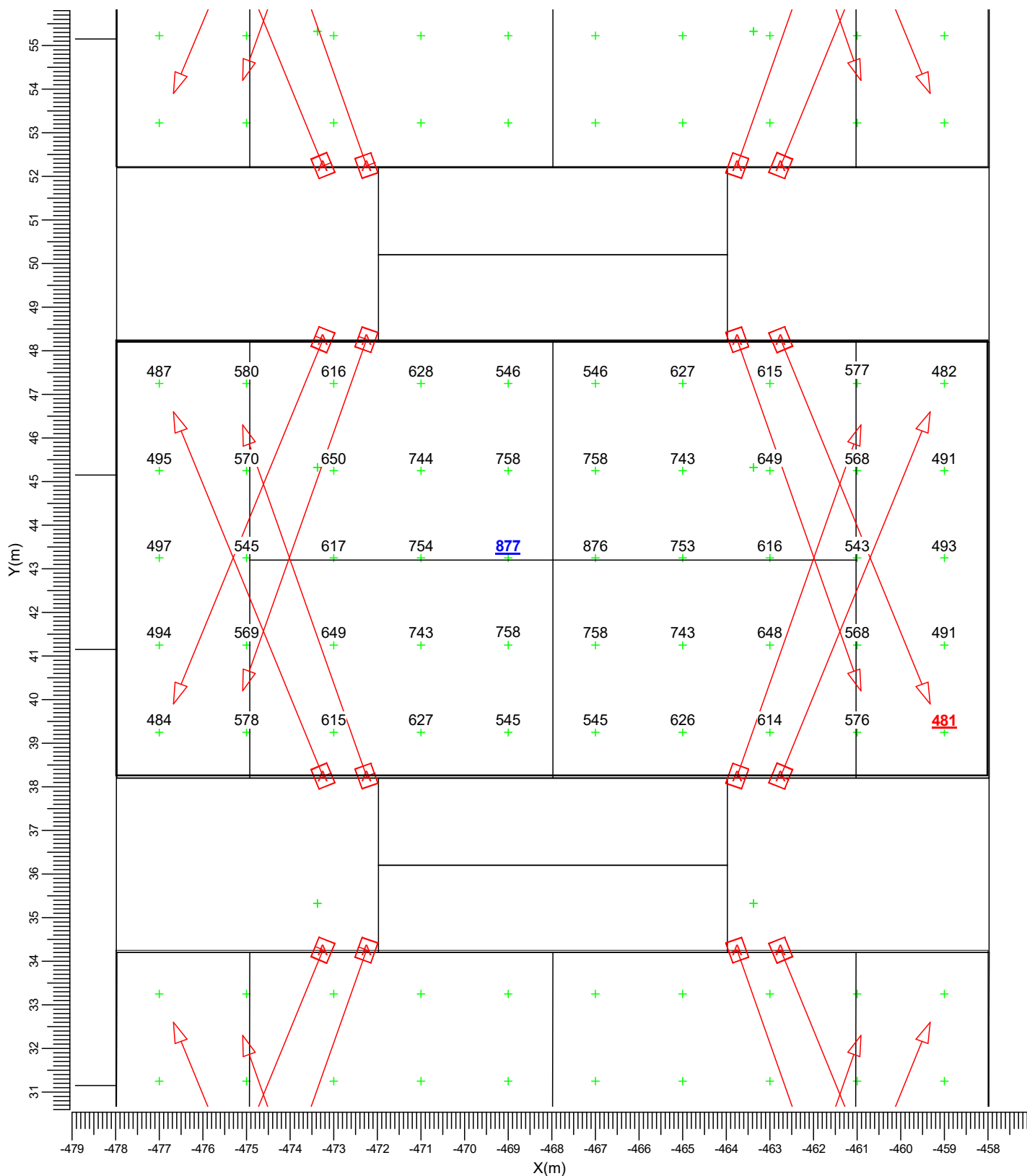


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
617	481	877	0.78	0.55	1.00	1:125

3.39 Padelbaan 3: Grafische tabel

Rekenraster : Padelbaan 3 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

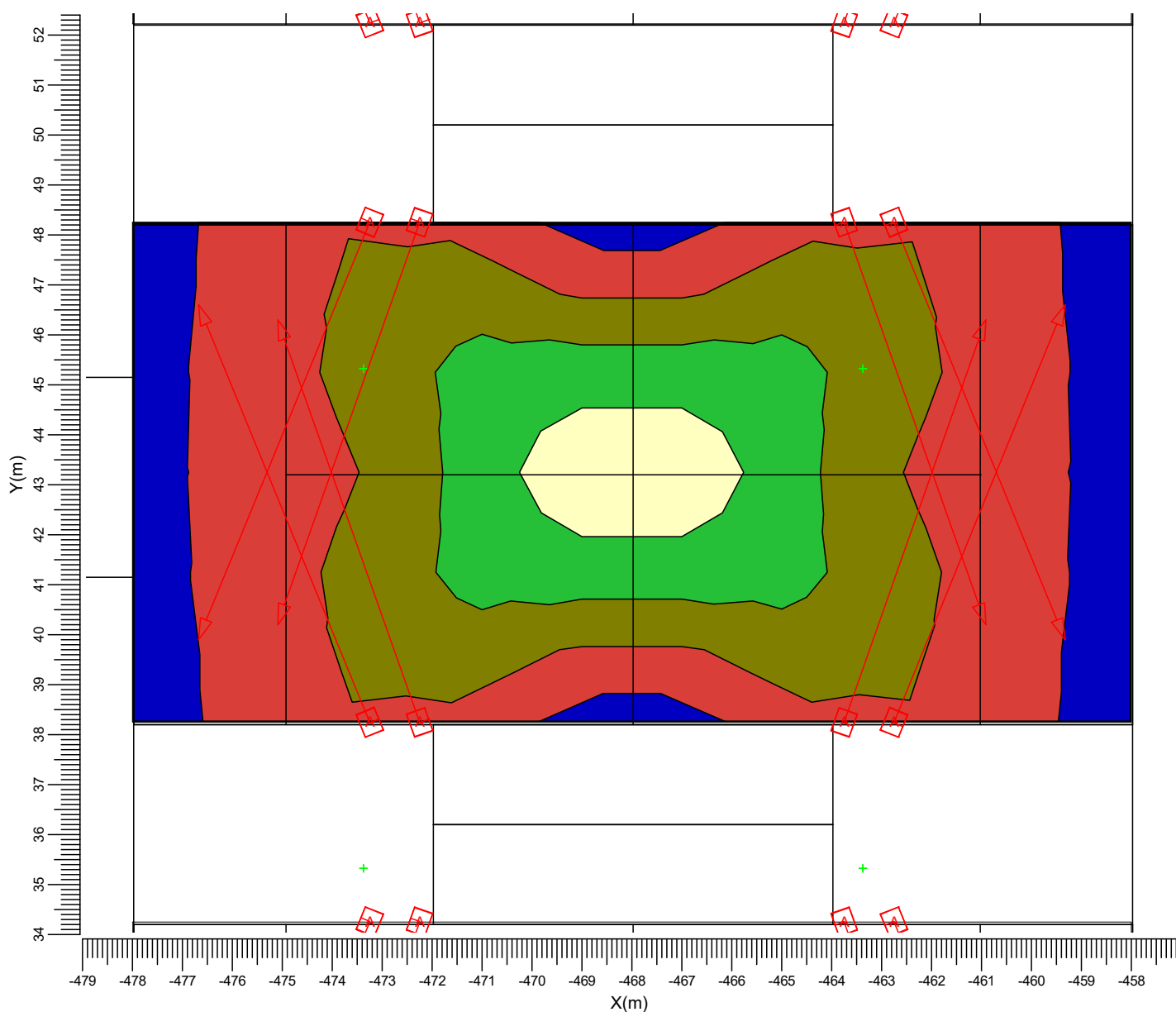


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld 616	Minimum 481	Maximum 877	Min/gem 0.78	Min/max 0.55	Algemene behoudfactor 1.00	Schaal 1:125
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3.40 Padelbaan 3: Gevuld isolijndiagram

Rekenraster : Padelbaan 3 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

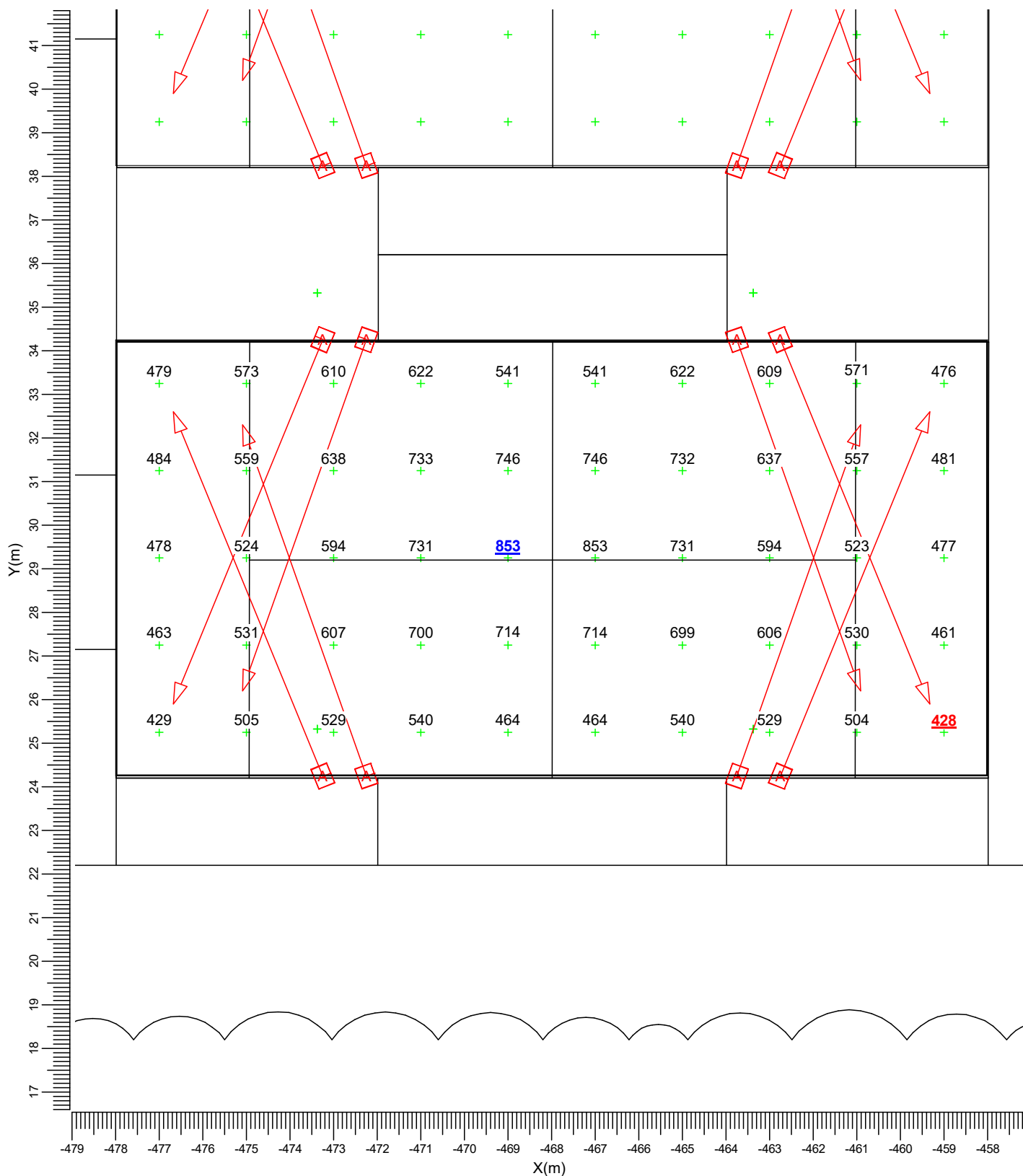


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
616	481	877	0.78	0.55	1.00	1:125

3.41 Padelbaan 4: Grafische tabel

Rekenraster : Padelbaan 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

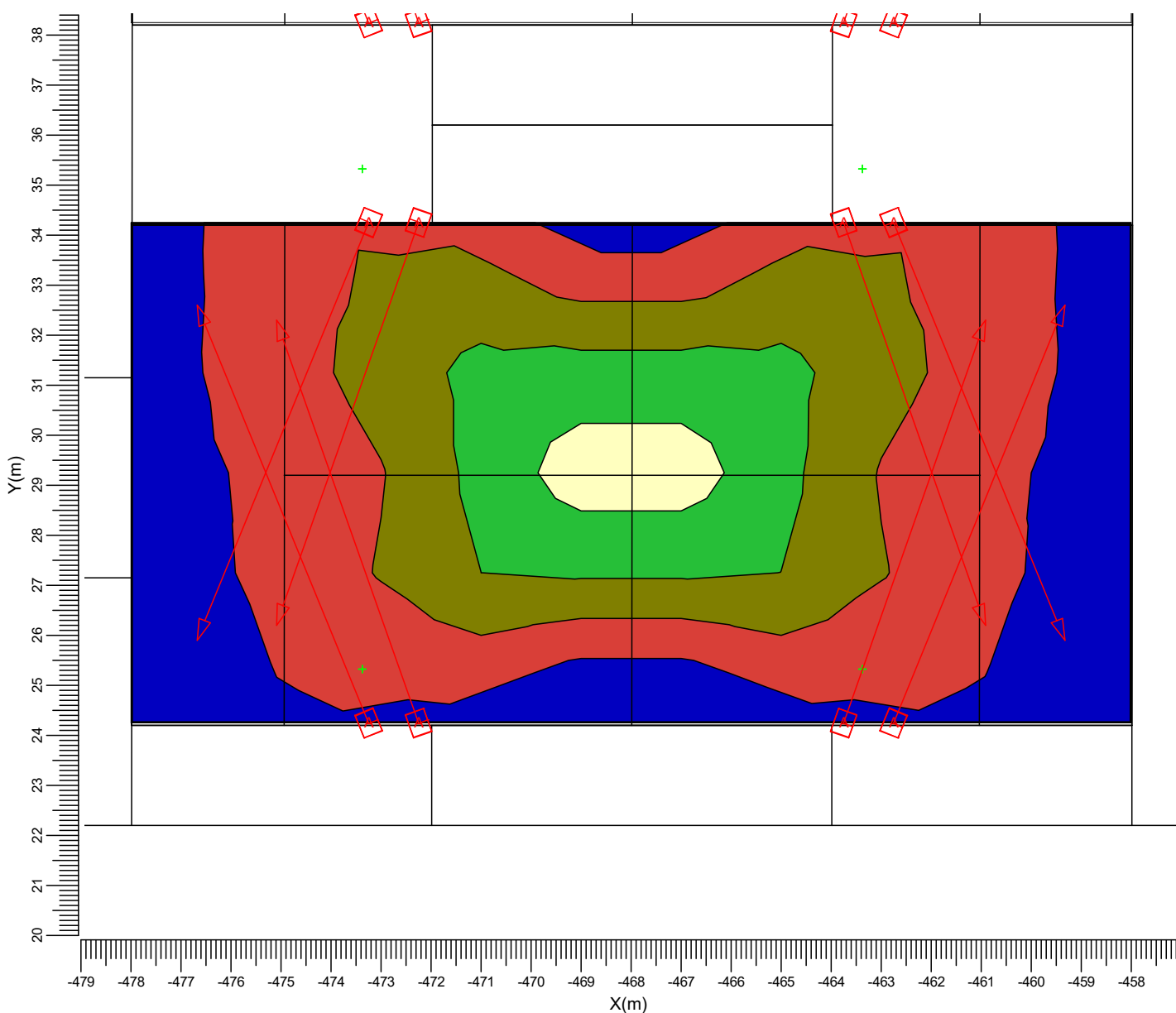


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
585	428	853	0.73	0.50	1.00	1:125

3.42 Padelbaan 4: Gevuld isolijndiagram

Rekenraster : Padelbaan 4 op Z = -0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

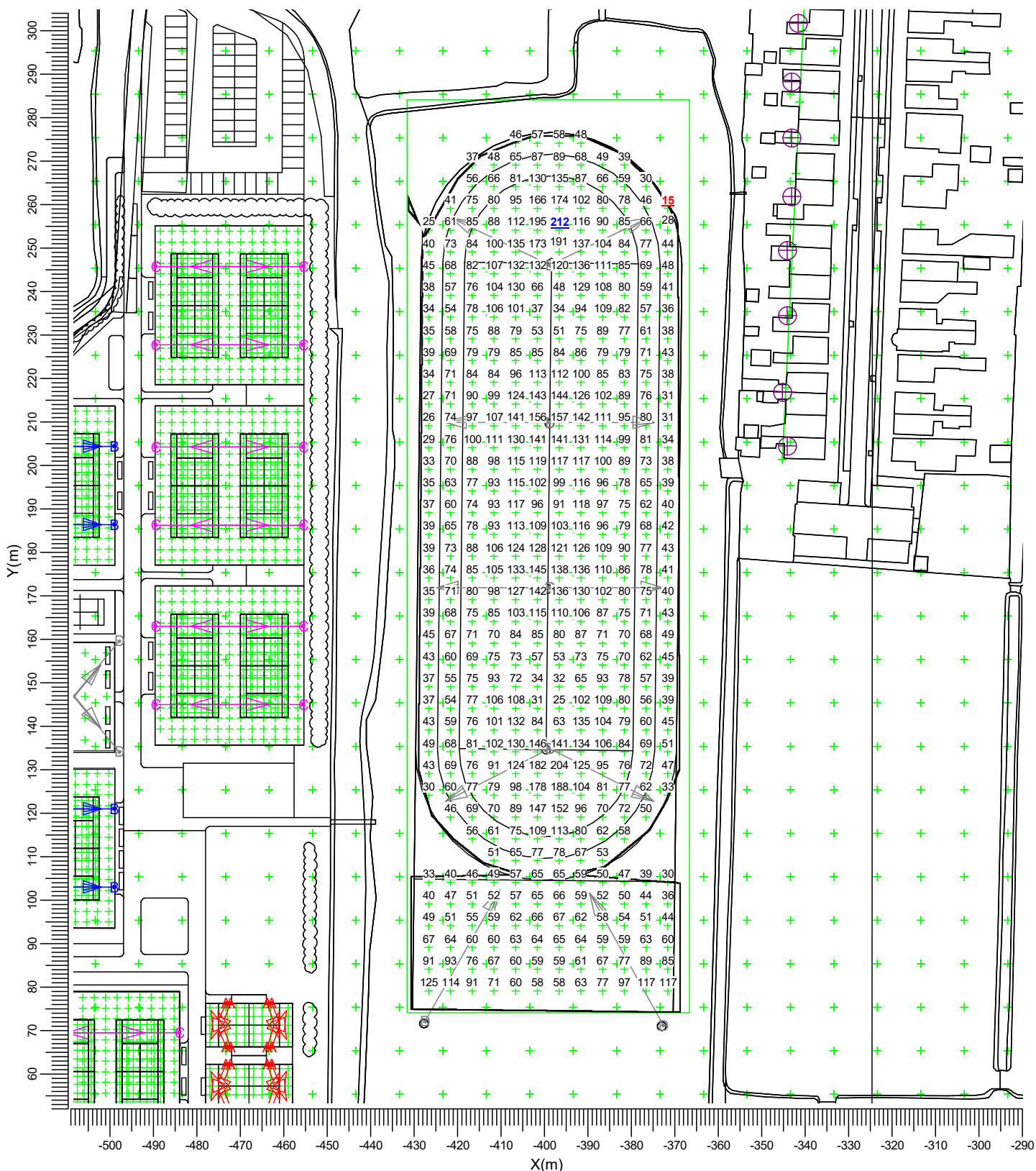


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
585	428	853	0.73	0.50	1.00	1:125

3.43 IJsbaan: Grafische tabel

Rekenraster : IJsbaan op Z = 0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

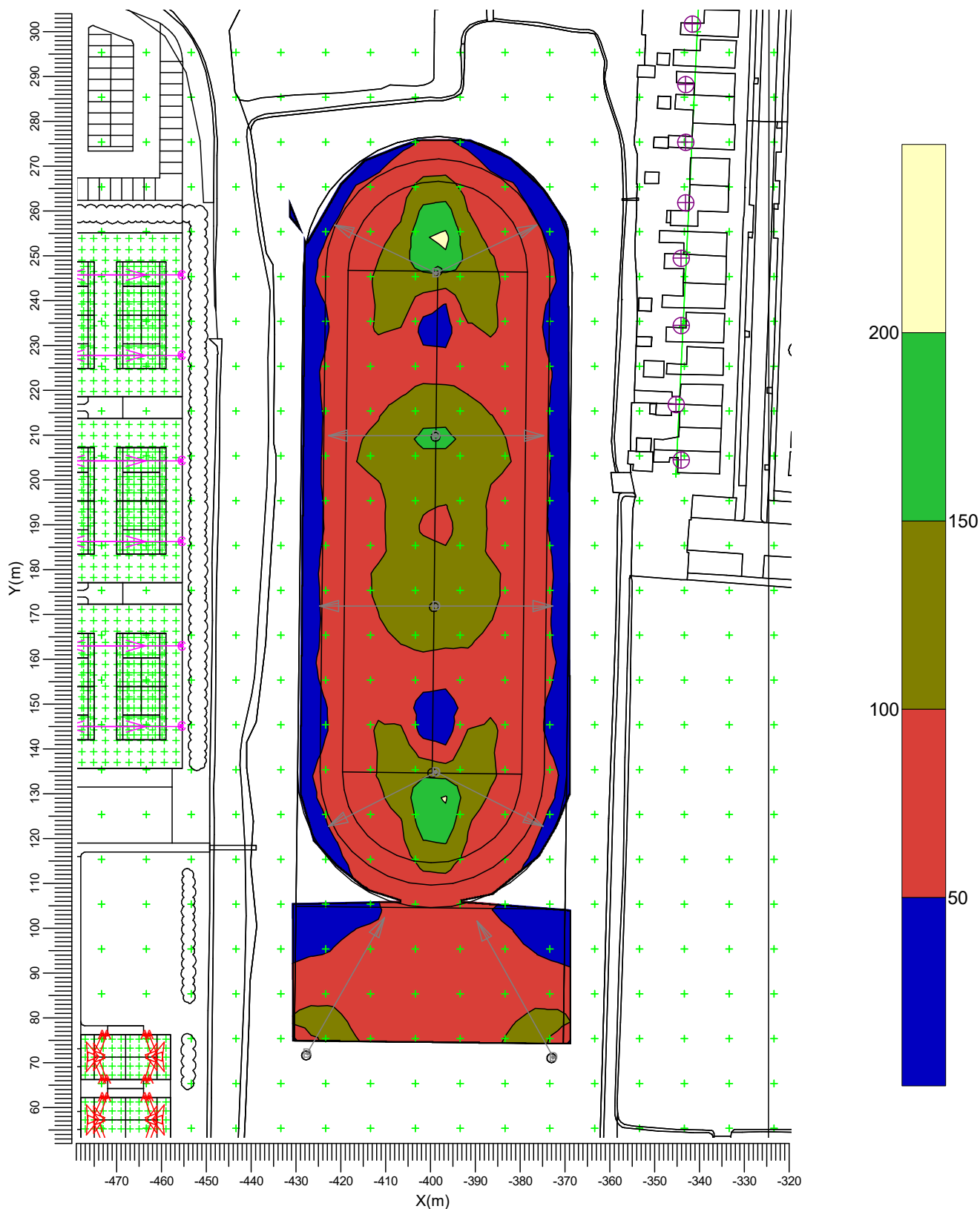


- A → BVP130 A
- B → BVP518 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP518 OUT T35 A55-WB LO

Gemiddeld 80.0	Minimum 15.5	Maximum 211.9	Min/gem 0.19	Min/max 0.07	Algemene behoudfactor 1.00	Schaal 1:1250
-------------------	-----------------	------------------	-----------------	-----------------	-------------------------------	------------------

3.44 IJsbaan: Gevuld isolijndiagram

Rekenraster : IJsbaan op Z = 0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

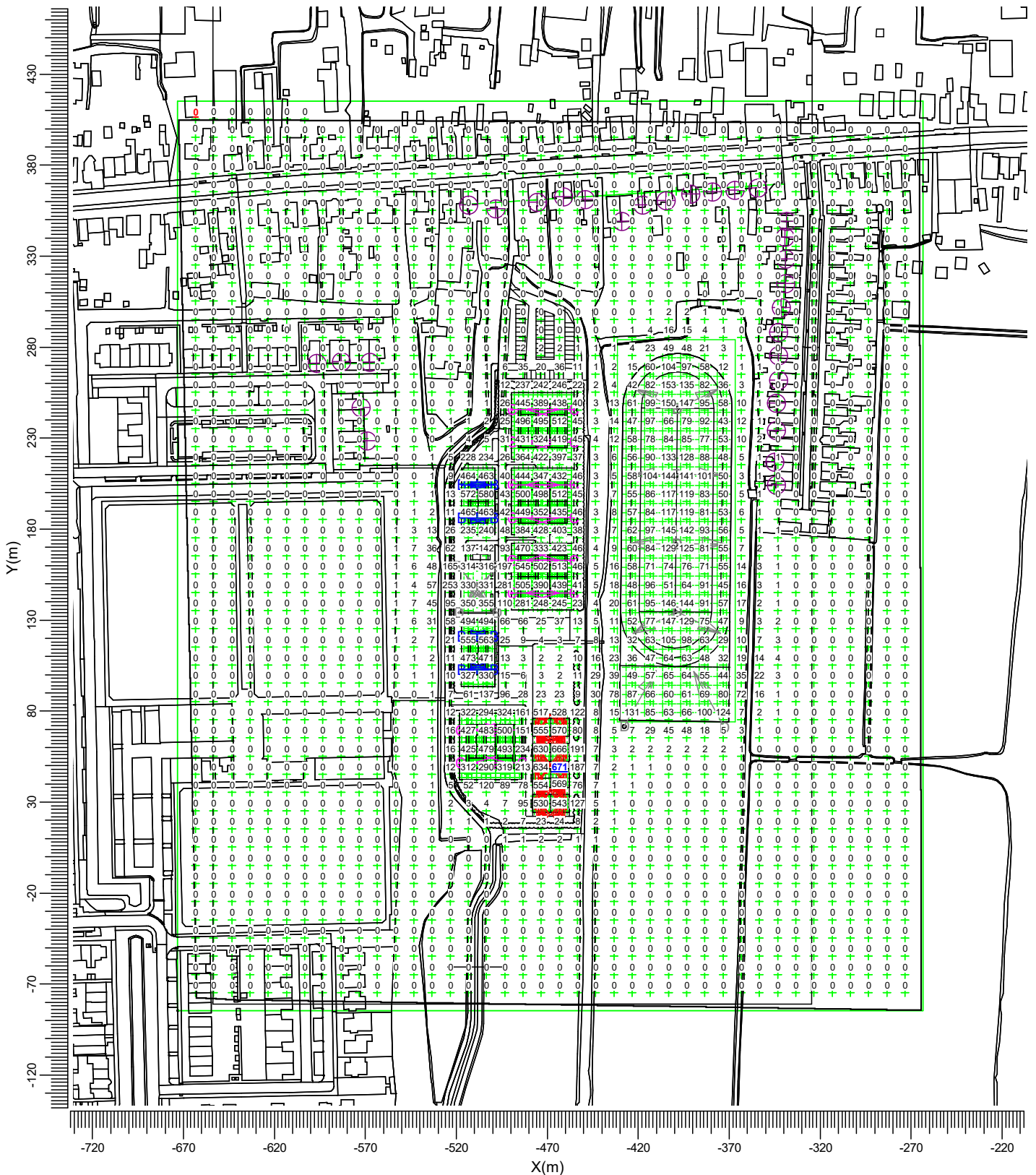


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
80.0	15.5	211.9	0.19	0.07	1.00	1:1250

3.45 Omgeving: Grafische tabel

Rekenraster : Omgeving op Z = 0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

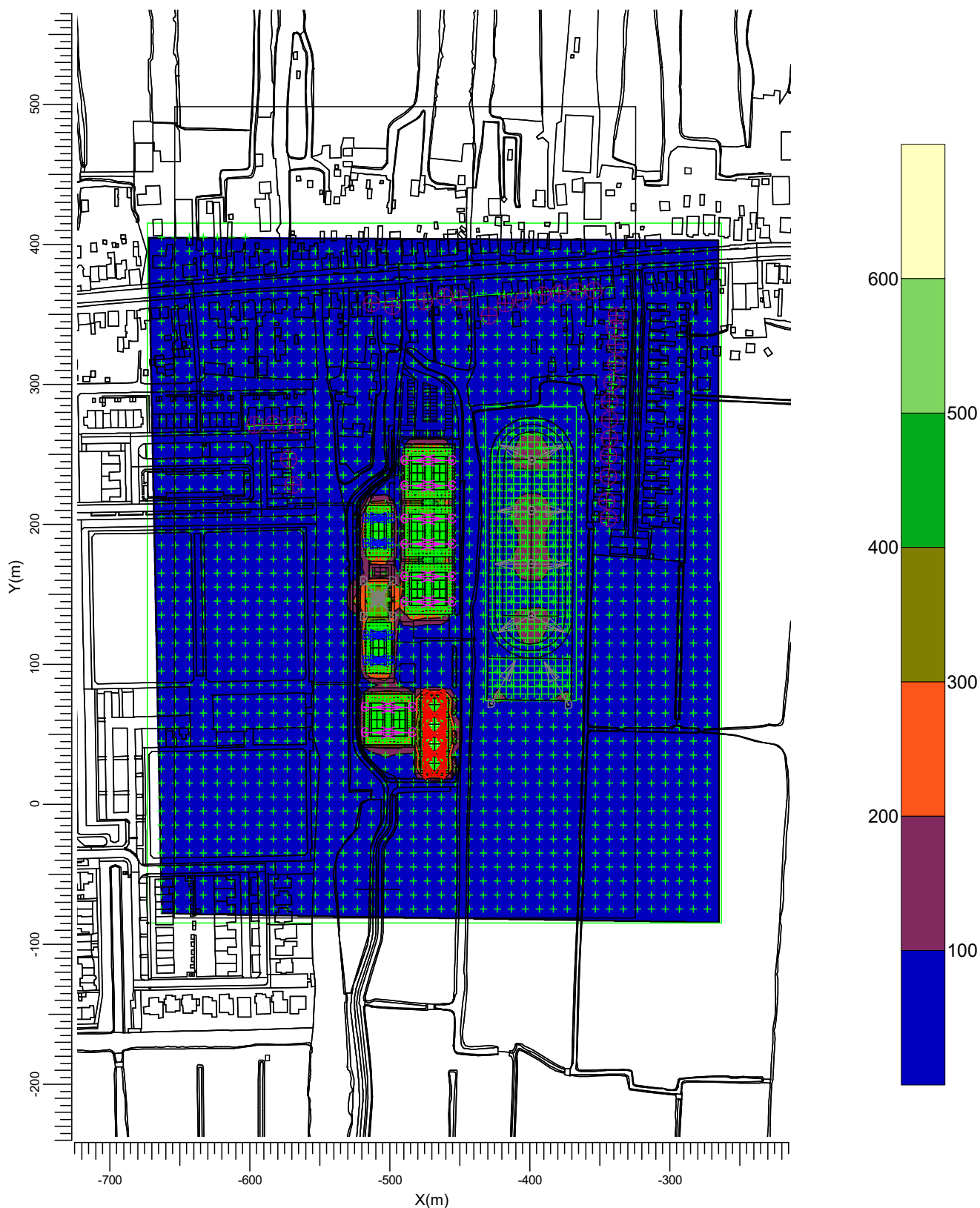






- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
28.0	0.0	670.7	0.00	0.00	1.00	1:3000

3.46 Omgeving: Gevuld isolijndiagram

Rekenraster : Omgeving op Z = 0.00 m
Berekening : (Vlak-) verlichtingssterkte (lux)

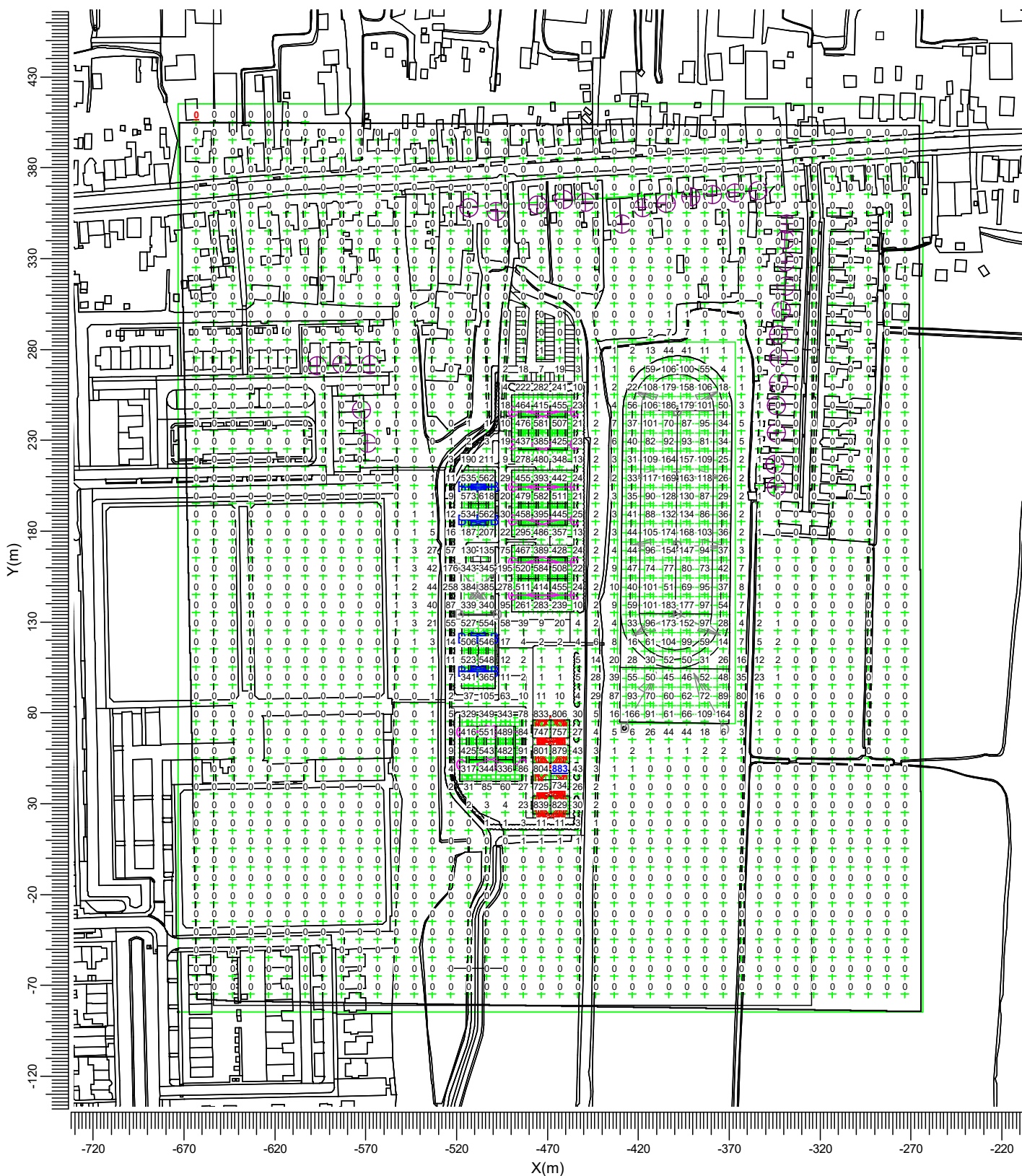


- | | | | | | |
|---|---|--------------------------|---|--|--------------------------|
| A |  | BVP130 A | B |  | BVP518 OUT T35 A35-MB LO |
| C |  | BVP528 OUT T35 A35-MB LO | D |  | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
28.0	0.0	670.7	0.00	0.00	1.00	1:4000

3.47 Omgeving 1.8: Grafische tabel

Rekenraster : Omgeving 1.8 op Z = 1.80 m
Berekening : (Vlak-) verlichtingssterkte (lux)

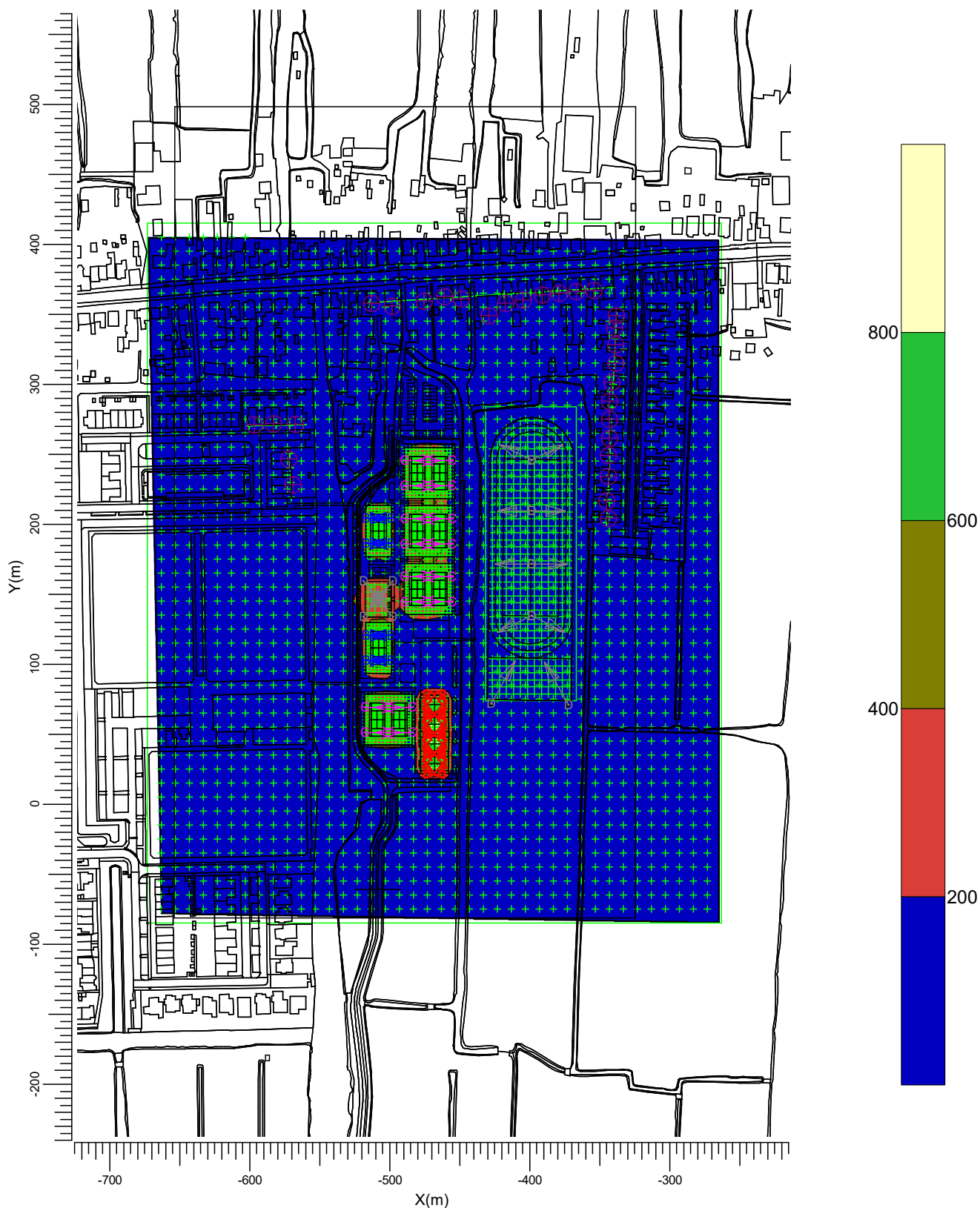


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
28.9	0.0	882.8	0.00	0.00	1.00	1:3000

3.48 Omgeving 1.8: Gevuld isolijndiagram

Rekenraster : Omgeving 1.8 op Z = 1.80 m
Berekening : (Vlak-) verlichtingssterkte (lux)

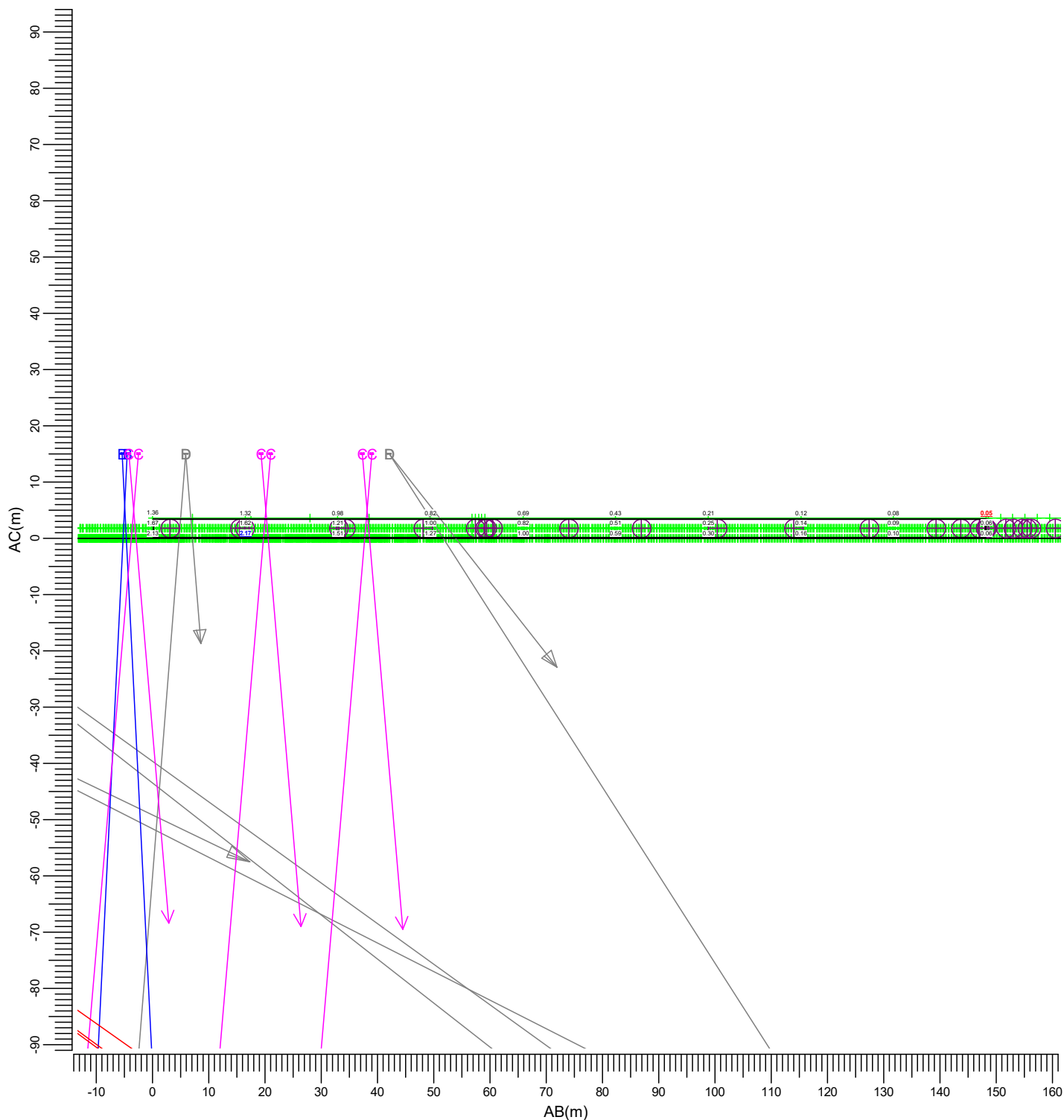


- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
28.9	0.0	882.8	0.00	0.00	1.00	1:4000

3.49 Mariastraat: Grafische tabel

Rekenraster : Mariastraat
Berekening : (Vlak-) verlichtingssterkte (lux)



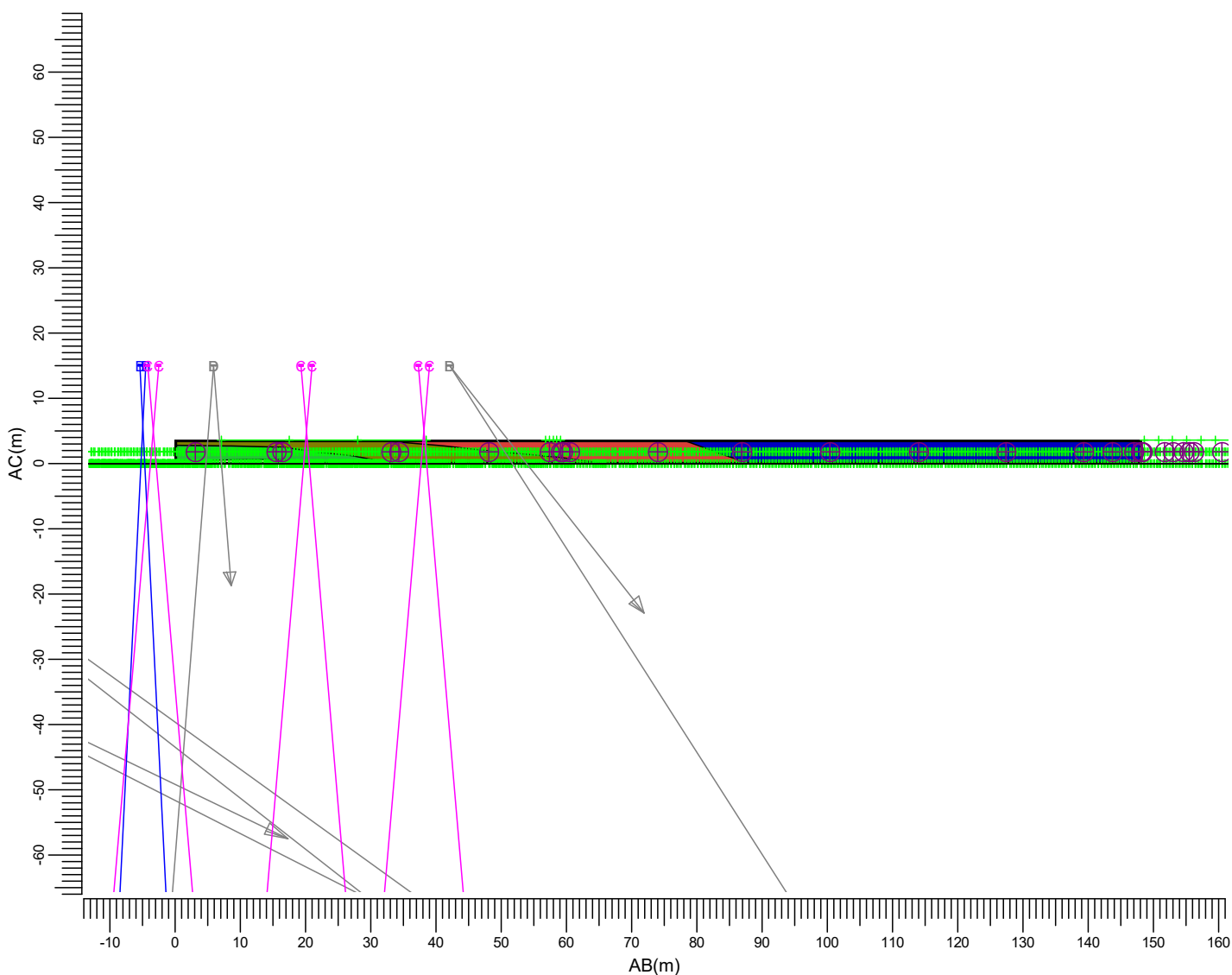
(-345.27, 201.34, 3.60) C-----D (-338.00, 349.35, 3.60)
| |
(-345.27, 201.34, 0.00) A-----B (-338.00, 349.35, 0.00)

A → BVP130 A B → BVP518 OUT T35 A35-MB LO
C → BVP528 OUT T35 A35-MB LO D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.76	0.05	2.17	0.07	0.02	1.00	1:1000

3.50 Mariastraat: Gevuld isolijndiagram

Rekenraster : Mariastraat
Berekening : (Vlak-) verlichtingssterkte (lux)



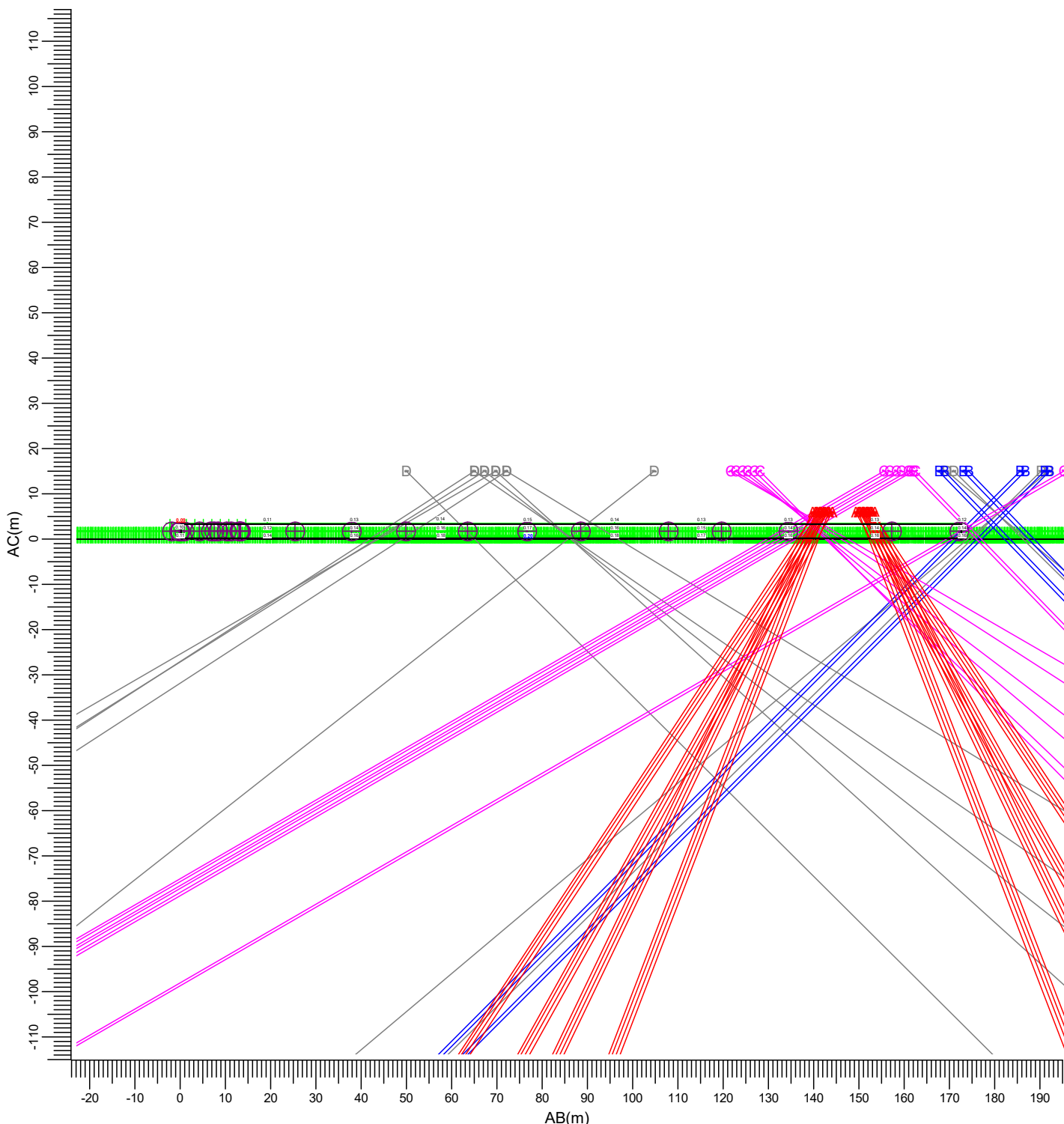
(-345.27, 201.34, 3.60) C-----D (-338.00, 349.35, 3.60)
| |
(-345.27, 201.34, 0.00) A-----B (-338.00, 349.35, 0.00)

- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.76	0.05	2.17	0.07	0.02	1.00	1:1000

3.51 Dorpsstraat: Grafische tabel

Rekenraster : Dorpsstraat
Berekening : (Vlak-) verlichtingssterkte (lux)



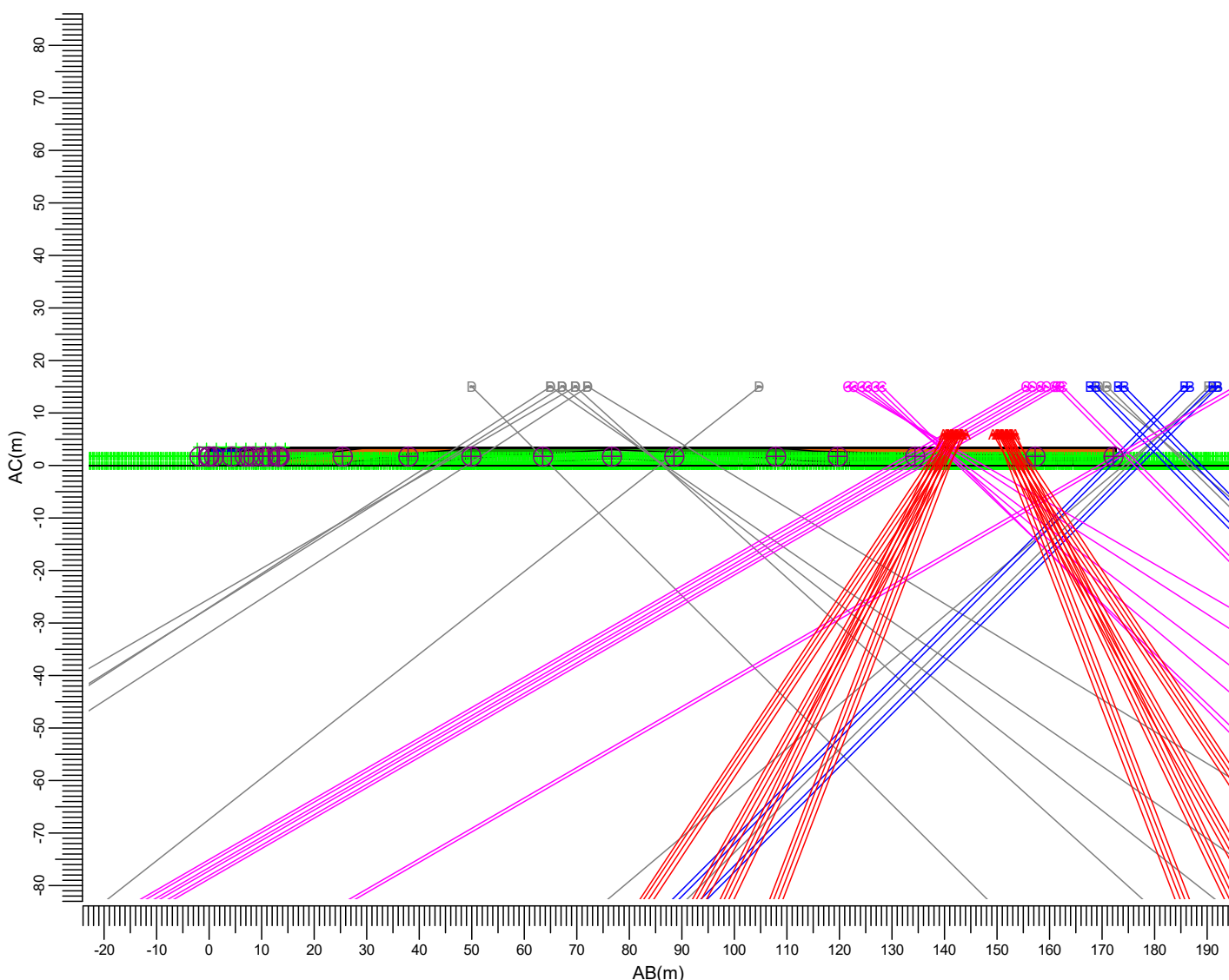
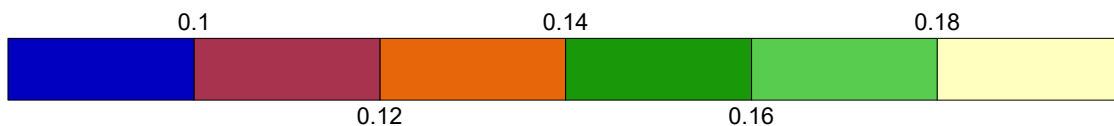
(-341.65, 369.50, 3.60) C-----D (-513.97, 358.40, 3.60)
| |
(-341.65, 369.50, 0.00) A-----B (-513.97, 358.40, 0.00)

- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.14	0.09	0.20	0.61	0.45	1.00	1:1250

3.52 Dorpsstraat: Gevuld isolijndiagram

Rekenraster : Dorpsstraat
Berekening : (Vlak-) verlichtingssterkte (lux)



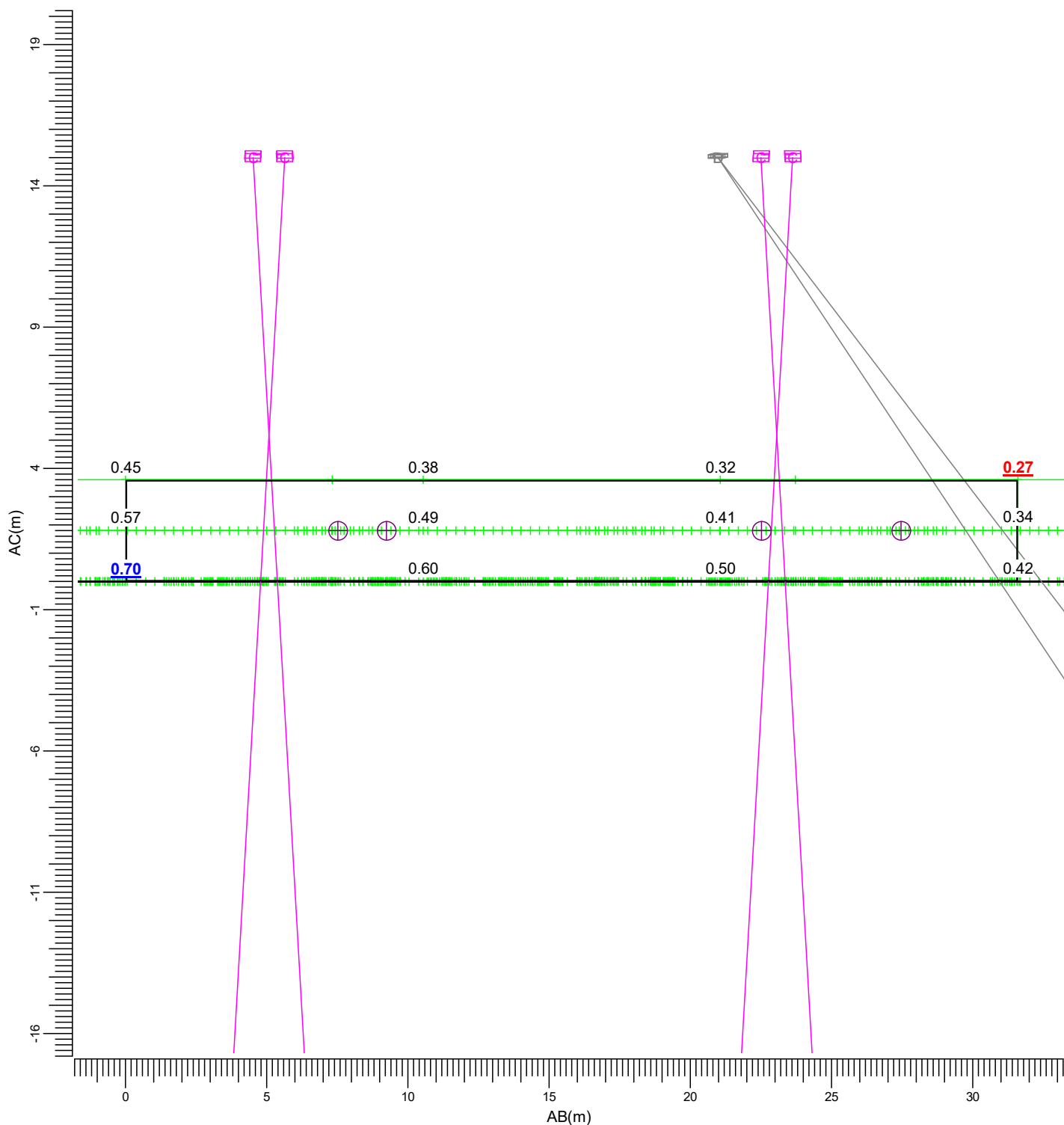
(-341.65, 369.50, 3.60) C-----D (-513.97, 358.40, 3.60)
| |
(-341.65, 369.50, 0.00) A-----B (-513.97, 358.40, 0.00)

- | | | | | | |
|---|--|--------------------------|---|--|--------------------------|
| A | | BVP130 A | B | | BVP518 OUT T35 A35-MB LO |
| C | | BVP528 OUT T35 A35-MB LO | D | | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.14	0.09	0.20	0.61	0.45	1.00	1:1250

3.53 De Voorhoede A: Grafische tabel

Rekenraster : De Voorhoede A
Berekening : (Vlak-) verlichtingssterkte (lux)



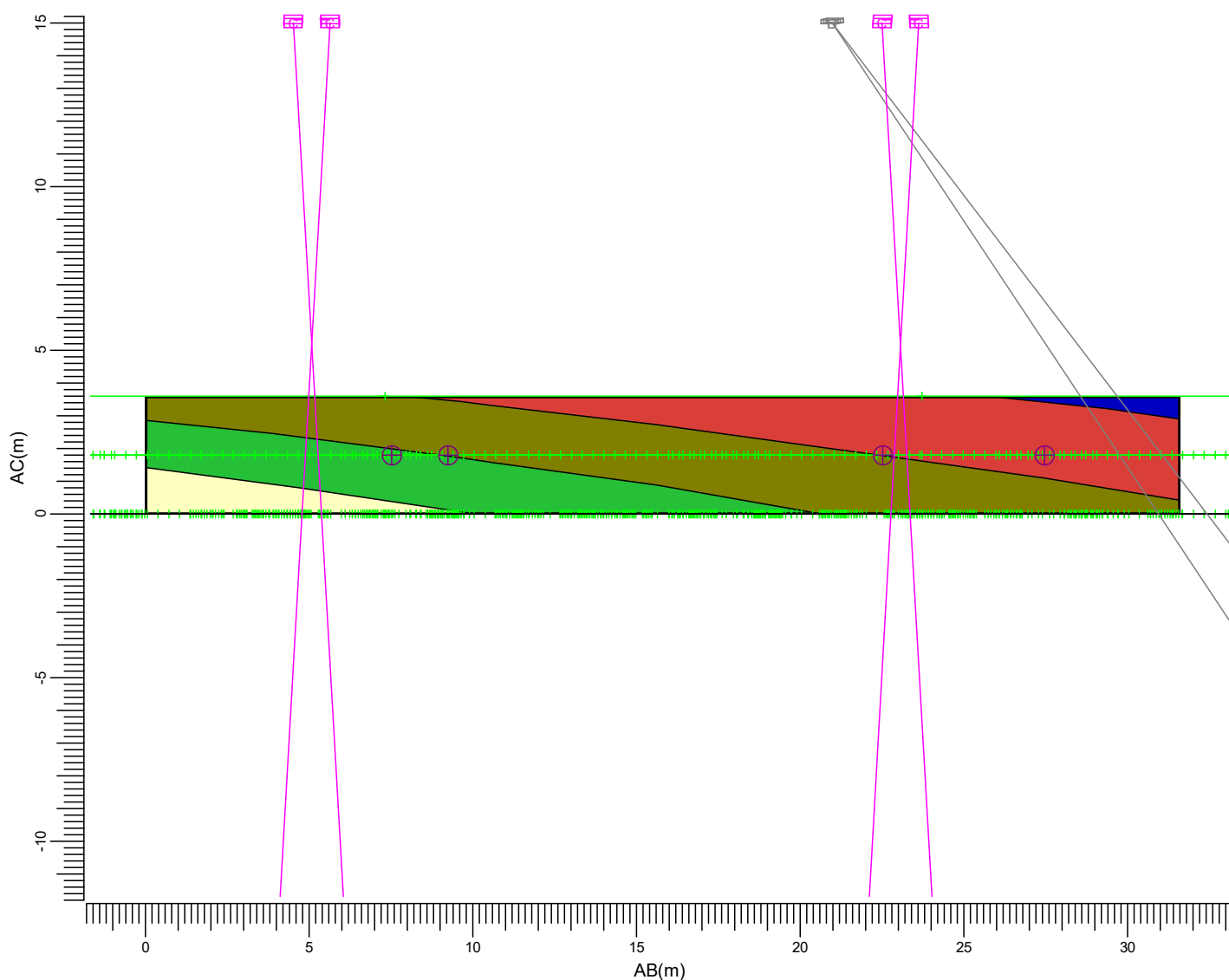
(-570.38, 219.45, 3.60) C-----D (-571.42, 251.02, 3.60)
 (-570.38, 219.45, 0.00) A-----B (-571.42, 251.02, 0.00)

- A → BVP130 A
- B → BVP58 OUT T35 A35-MB LO
- C → BVP528 OUT T35 A35-MB LO
- D → BVP58 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.45	0.27	0.70	0.60	0.39	1.00	1:200

3.54 De Voorhoede A: Gevuld isolijndiagram

Rekenraster : De Voorhoede A
Berekening : (Vlak-) verlichtingssterkte (lux)



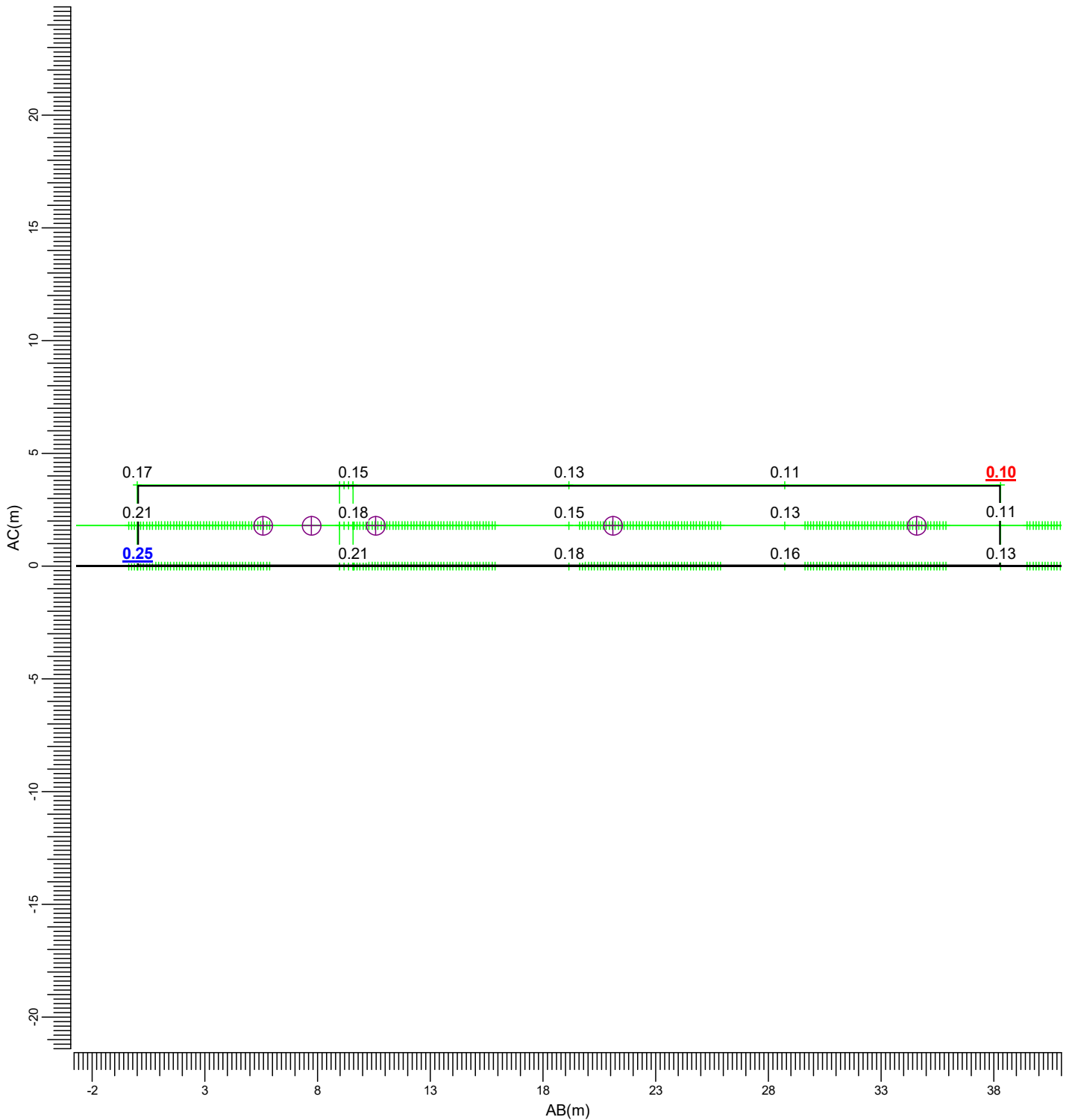
(-570.38, 219.45, 3.60) C-----D (-571.42, 251.02, 3.60)
| |
(-570.38, 219.45, 0.00) A-----B (-571.42, 251.02, 0.00)

A BVP130 A B BVP518 OUT T35 A35-MB LO
C BVP528 OUT T35 A35-MB LO D BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.45	0.27	0.70	0.60	0.39	1.00	1:200

3.55 De Voorhoede B: Grafische tabel

Rekenraster : De Voorhoede B
Berekening : (Vlak-) verlichtingssterkte (lux)



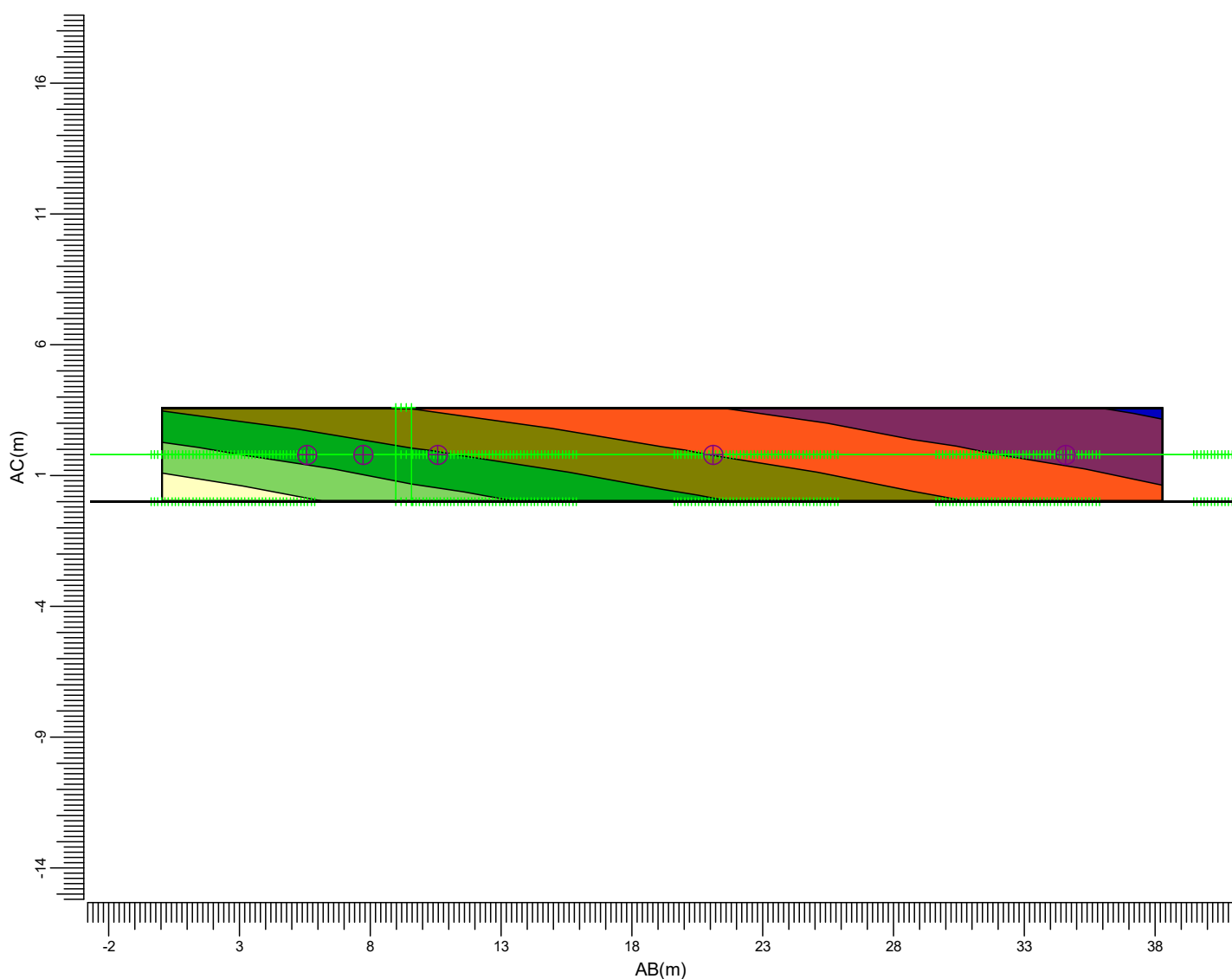
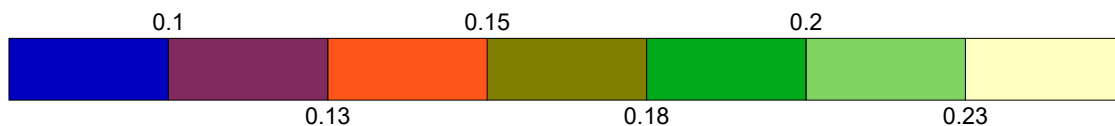
(-562.10, 271.20, 3.60) C-----D(-600.40,270.69, 3.60)
| |
(-562.10, 271.20, 0.00) A-----B(-600.40,270.69, 0.00)

- | | | | | | |
|---|---|--------------------------|---|---|--------------------------|
| A | → | BVP130 A | B | → | BVP518 OUT T35 A35-MB LO |
| C | → | BVP528 OUT T35 A35-MB LO | D | → | BVP518 OUT T35 A55-WB LO |

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.16	0.10	0.25	0.61	0.39	1.00	1:250

3.56 De Voorhoede B: Gevuld isoliëndiagram

Rekenraster : De Voorhoede B
Berekening : (Vlak-) verlichtingssterkte (lux)



(-562.10, 271.20, 3.60) C-----D(-600.40,270.69, 3.60)
| |
(-562.10, 271.20, 0.00) A-----B(-600.40,270.69, 0.00)

A → BVP130 A B → BVP518 OUT T35 A35-MB LO
C → BVP528 OUT T35 A35-MB LO D → BVP518 OUT T35 A55-WB LO

Gemiddeld	Minimum	Maximum	Min/gem	Min/max	Algemene behoudfactor	Schaal
0.16	0.10	0.25	0.61	0.39	1.00	1:250

4. Armatuurgegevens

4.1 Armatuurtypen

Coreline tempo large
BVP130 1 xLED260-4S/740 A

Armatuurrendement

Omlaag	: 1.00
Omhoog	: 0.00
Totaal	: 1.00
ULR	: 0.000

Voorschakelapparaat

: -

Lichtstroom / lamp

: 26000 lm

Vermogen / armatuur

: 217.0 W

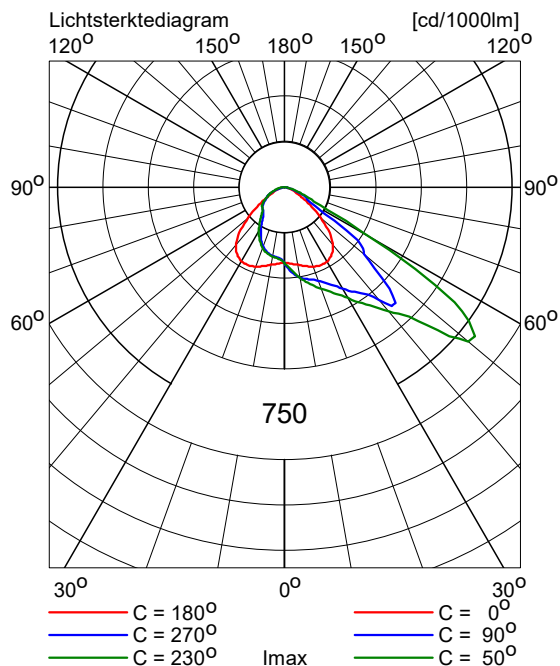
Meetcode

: LVA1607040

CIE code

: 46 90 99 100 100

N.B. Dit armatuurtype is een speciale versie,afgeleid van het type met de vermelde meetcode



OptiVision LED gen3.5 2022
BVP518 OUT T35 1xLED1720-4S/757/757 E3/D4I A35-MB LO

Armatuurrendement

Omlaag	: 0.56
Omhoog	: 0.00
Totaal	: 0.56
ULR	: 0.000

Voorschakelapparaat

: E3/D4I

Lichtstroom / lamp

: 172000 lm

Vermogen / armatuur

: 1006.0 W

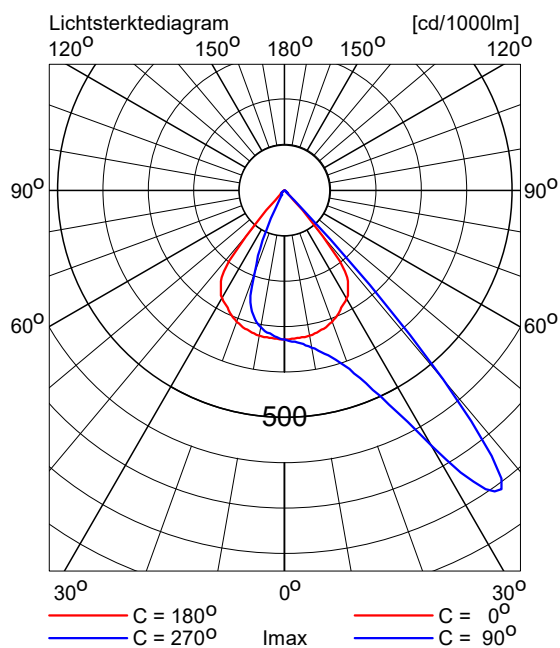
Meetcode

: LVM2047200

CIE code

: 86 100 100 100 56

N.B. Deze armatuurgegevens zijn niet afkomstig van het armaturenbestand

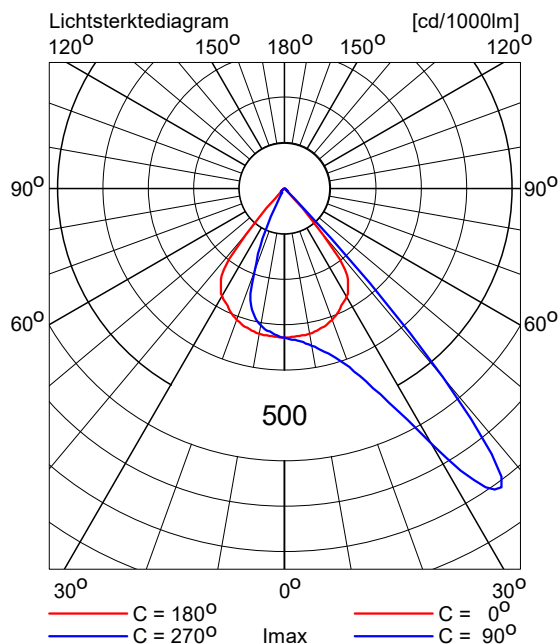


OptiVision LED gen3.5 2022
BVP528 OUT T35 1xLED2590-4S/757/757 E3/D4I A35-MB LO

Armatuurrendement

Omlaag	: 0.56
Omhoog	: 0.00
Totaal	: 0.56
ULR	: 0.000
Voorschakelapparaat	: E3/D4I
Lichtstroom / lamp	: 259000 lm
Vermogen / armatuur	: 1505.9 W
Meetcode	: LVM2047200
CIE code	: 86 100 100 100 56

N.B. Deze armatuurgegevens zijn niet afkomstig van het armaturenbestand

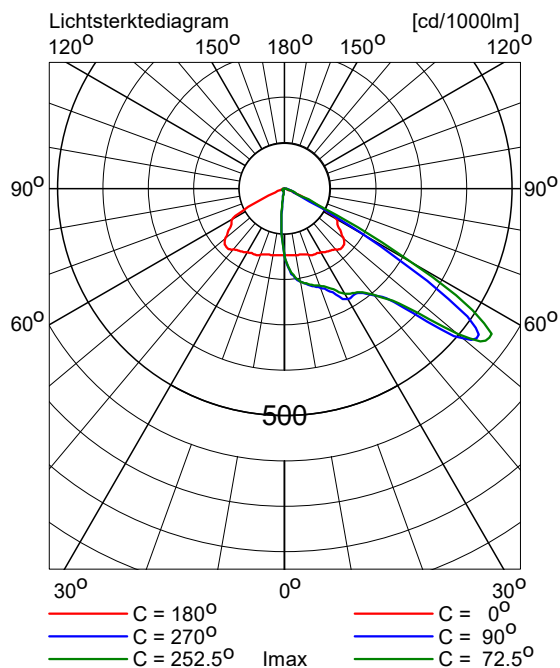


OptiVision LED gen3.5 2022
BVP518 OUT T35 1xLED1720-4S/757/757 E3/D4I A55-WB LO

Armatuurrendement

Omlaag	: 0.63
Omhoog	: 0.00
Totaal	: 0.63
ULR	: 0.000
Voorschakelapparaat	: E3/D4I
Lichtstroom / lamp	: 172000 lm
Vermogen / armatuur	: 1006.0 W
Meetcode	: LVA2202020
CIE code	: 34 83 100 100 63

N.B. Deze armatuurgegevens zijn niet afkomstig van het armaturenbestand



5. Installatiegegevens

5.1 Legenda

Armatuurtypen:

Code	Aantal	Armatuurtype	Aantal x lamptype	Lichtstroom [lm]
A	32	BVP130 A	1 * LED260-4S/740	1 * 26000
B	8	BVP518 OUT T35 A35-MB LO	1 * LED1720-4S/757	1 * 172000
C	16	BVP528 OUT T35 A35-MB LO	1 * LED2590-4S/757	1 * 259000
D	14	BVP518 OUT T35 A55-WB LO	1 * LED1720-4S/757	1 * 172000

5.2 Positie en instelrichting per armatuur

Aantal x code	Positie [m]			Richtpunt [m]			Instelrichting in hoeken			ULR	ULOR_i
	X	Y	Z	X	Y	Z	Draai	Kantel90	Kantel0		
1 * D	-518.70	134.05	15.00	-502.12	154.06	0.00	50.4	60.0	-0.0	0.000	0.00
1 * D	-518.70	159.55	15.00	-502.12	139.54	0.00	-50.4	60.0	0.0	0.000	0.00
1 * C	-518.00	51.50	15.00	-492.02	51.50	0.00	-0.0	60.0	0.0	0.000	0.00
1 * C	-518.00	69.50	15.00	-492.02	69.50	0.00	0.0	60.0	-0.0	0.000	0.00
1 * B	-517.00	103.00	15.00	-502.00	103.00	0.00	-0.0	45.0	0.0	0.000	0.00
1 * B	-517.00	121.00	15.00	-502.00	121.00	0.00	0.0	45.0	-0.0	0.000	0.00
1 * B	-517.00	186.40	15.00	-502.00	186.40	0.00	-0.0	45.0	0.0	0.000	0.00
1 * B	-517.00	204.40	15.00	-502.00	204.40	0.00	0.0	45.0	-0.0	0.000	0.00
1 * B	-499.00	103.00	15.00	-514.00	103.00	0.00	-180.0	45.0	-0.0	0.000	0.00
1 * B	-499.00	121.00	15.00	-514.00	121.00	0.00	180.0	45.0	0.0	0.000	0.00
1 * B	-499.00	186.40	15.00	-514.00	186.40	0.00	-180.0	45.0	-0.0	0.000	0.00
1 * B	-499.00	204.40	15.00	-514.00	204.40	0.00	180.0	45.0	0.0	0.000	0.00
1 * D	-497.80	134.05	15.00	-514.38	154.06	0.00	129.6	60.0	0.0	0.000	0.00
1 * D	-497.80	159.55	15.00	-514.38	139.54	0.00	-129.6	60.0	-0.0	0.000	0.00
1 * C	-489.50	145.00	15.00	-463.52	145.00	0.00	-0.0	60.0	0.0	0.000	0.00
1 * C	-489.50	163.00	15.00	-463.52	163.00	0.00	0.0	60.0	-0.0	0.000	0.00
1 * C	-489.50	186.25	15.00	-463.52	186.25	0.00	-0.0	60.0	0.0	0.000	0.00
1 * C	-489.50	204.25	15.00	-463.52	204.25	0.00	0.0	60.0	-0.0	0.000	0.00
1 * C	-489.50	227.75	15.00	-463.52	227.75	0.00	-0.0	60.0	0.0	0.000	0.00
1 * C	-489.50	245.75	15.00	-463.52	245.75	0.00	0.0	60.0	-0.0	0.000	0.00
1 * C	-484.00	51.50	15.00	-509.98	51.50	0.00	-180.0	60.0	-0.0	0.000	0.00
1 * C	-484.00	69.50	15.00	-509.98	69.50	0.00	180.0	60.0	0.0	0.000	0.00
1 * A	-473.25	24.25	6.00	-476.68	32.61	0.00	112.3	56.4	-0.0	0.001	0.00
1 * A	-473.25	34.25	6.00	-476.68	25.89	0.00	-112.3	56.4	0.0	0.001	0.00
1 * A	-473.25	38.25	6.00	-476.68	46.61	0.00	112.3	56.4	-0.0	0.001	0.00
1 * A	-473.25	48.25	6.00	-476.68	39.89	0.00	-112.3	56.4	0.0	0.001	0.00
1 * A	-473.25	52.25	6.00	-476.68	60.61	0.00	112.3	56.4	-0.0	0.001	0.00
1 * A	-473.25	62.25	6.00	-476.68	53.89	0.00	-112.3	56.4	0.0	0.001	0.00
1 * A	-473.25	66.25	6.00	-476.67	74.59	0.00	112.3	56.4	-0.0	0.001	0.00
1 * A	-473.25	76.25	6.00	-476.67	67.91	0.00	-112.3	56.4	0.0	0.001	0.00
1 * A	-472.25	24.25	6.00	-475.09	32.30	0.00	109.4	54.9	-0.0	0.000	0.00
1 * A	-472.25	34.25	6.00	-475.09	26.20	0.00	-109.4	54.9	0.0	0.000	0.00
1 * A	-472.25	38.25	6.00	-475.09	46.30	0.00	109.4	54.9	-0.0	0.000	0.00
1 * A	-472.25	48.25	6.00	-475.09	40.20	0.00	-109.4	54.9	0.0	0.000	0.00
1 * A	-472.25	52.25	6.00	-475.09	60.30	0.00	109.4	54.9	-0.0	0.000	0.00
1 * A	-472.25	62.25	6.00	-475.09	54.20	0.00	-109.4	54.9	0.0	0.000	0.00

Aantal x code	Positie [m]			Richtpunt [m]			Instelrichting in hoeken			ULR	ULOR_i
	X	Y	Z	X	Y	Z	DraaiKantel90	Kantel0			
1 * A	-472.25	66.25	6.00	-475.08	74.30	0.00	109.4	54.9	-0.0	0.000	0.00
1 * A	-472.25	76.25	6.00	-475.08	68.20	0.00	-109.4	54.9	0.0	0.000	0.00
1 * A	-463.75	24.25	6.00	-460.91	32.30	0.00	70.6	54.9	0.0	0.000	0.00
1 * A	-463.75	34.25	6.00	-460.91	26.20	0.00	-70.6	54.9	-0.0	0.000	0.00
1 * A	-463.75	38.25	6.00	-460.91	46.30	0.00	70.6	54.9	0.0	0.000	0.00
1 * A	-463.75	48.25	6.00	-460.91	40.20	0.00	-70.6	54.9	-0.0	0.000	0.00
1 * A	-463.75	52.25	6.00	-460.91	60.30	0.00	70.6	54.9	0.0	0.000	0.00
1 * A	-463.75	62.25	6.00	-460.91	54.20	0.00	-70.6	54.9	-0.0	0.000	0.00
1 * A	-463.75	66.25	6.00	-460.92	74.30	0.00	70.6	54.9	0.0	0.000	0.00
1 * A	-463.75	76.25	6.00	-460.92	68.20	0.00	-70.6	54.9	-0.0	0.000	0.00
1 * A	-462.75	24.25	6.00	-459.32	32.61	0.00	67.7	56.4	0.0	0.001	0.00
1 * A	-462.75	34.25	6.00	-459.32	25.89	0.00	-67.7	56.4	-0.0	0.001	0.00
1 * A	-462.75	38.25	6.00	-459.32	46.61	0.00	67.7	56.4	0.0	0.001	0.00
1 * A	-462.75	48.25	6.00	-459.32	39.89	0.00	-67.7	56.4	-0.0	0.001	0.00
1 * A	-462.75	52.25	6.00	-459.32	60.61	0.00	67.7	56.4	0.0	0.001	0.00
1 * A	-462.75	62.25	6.00	-459.32	53.89	0.00	-67.7	56.4	-0.0	0.001	0.00
1 * A	-462.75	66.25	6.00	-459.33	74.59	0.00	67.7	56.4	0.0	0.001	0.00
1 * A	-462.75	76.25	6.00	-459.33	67.91	0.00	-67.7	56.4	-0.0	0.001	0.00
1 * C	-455.50	145.00	15.00	-481.48	145.00	0.00	-180.0	60.0	-0.0	0.000	0.00
1 * C	-455.50	163.00	15.00	-481.48	163.00	0.00	180.0	60.0	0.0	0.000	0.00
1 * C	-455.50	186.25	15.00	-481.48	186.25	0.00	-180.0	60.0	-0.0	0.000	0.00
1 * C	-455.50	204.25	15.00	-481.48	204.25	0.00	180.0	60.0	0.0	0.000	0.00
1 * C	-455.50	227.75	15.00	-481.48	227.75	0.00	-180.0	60.0	-0.0	0.000	0.00
1 * C	-455.50	245.75	15.00	-481.48	245.75	0.00	180.0	60.0	0.0	0.000	0.00
1 * D	-427.44	72.03	15.00	-410.26	102.37	0.00	60.5	66.7	0.0	0.001	0.00
1 * D	-398.75	134.81	15.00	-374.83	122.76	0.00	-26.7	60.7	0.0	0.000	0.00
1 * D	-398.75	134.81	15.00	-422.67	122.76	0.00	-153.3	60.7	-0.0	0.000	0.00
1 * D	-398.75	171.82	15.00	-372.77	171.82	0.00	0.0	60.0	0.0	0.000	0.00
1 * D	-398.75	171.82	15.00	-424.73	171.82	0.00	180.0	60.0	-0.0	0.000	0.00
1 * D	-398.75	209.89	15.00	-374.74	209.89	0.00	0.0	58.0	0.0	0.000	0.00
1 * D	-398.75	209.89	15.00	-422.76	209.89	0.00	180.0	58.0	-0.0	0.000	0.00
1 * D	-398.75	246.09	15.00	-376.20	256.80	0.00	25.4	59.0	0.0	0.000	0.00
1 * D	-398.75	246.09	15.00	-421.30	256.80	0.00	154.6	59.0	-0.0	0.000	0.00
1 * D	-372.56	71.17	15.00	-389.62	101.60	0.00	119.3	66.7	0.0	0.001	0.00