

დამკვეთი: LLC “Excellent Team”

ობიექტი: რაგბის მოედანი - ქ.თბილისი

პროექტის ავტორი:

შ.პ.ს. „ჯი თი ჯი“

პროექტის დიზაინერი:

კახაბერ ბუცხრიკიძე

პროექტზე პასუხისმგებელი:

გიორგი ჩილაჩავა, მიხეილ ხუბულური

საშუალო ჰორიზონტალური განათება:

462 ლუქსი

GR index, დამაბრმავებელი კოეფ:

43,5

გამოყენებული პროექტორები:

MVF403/2000W 44 ცალი

რაოდენობა:

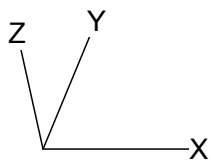
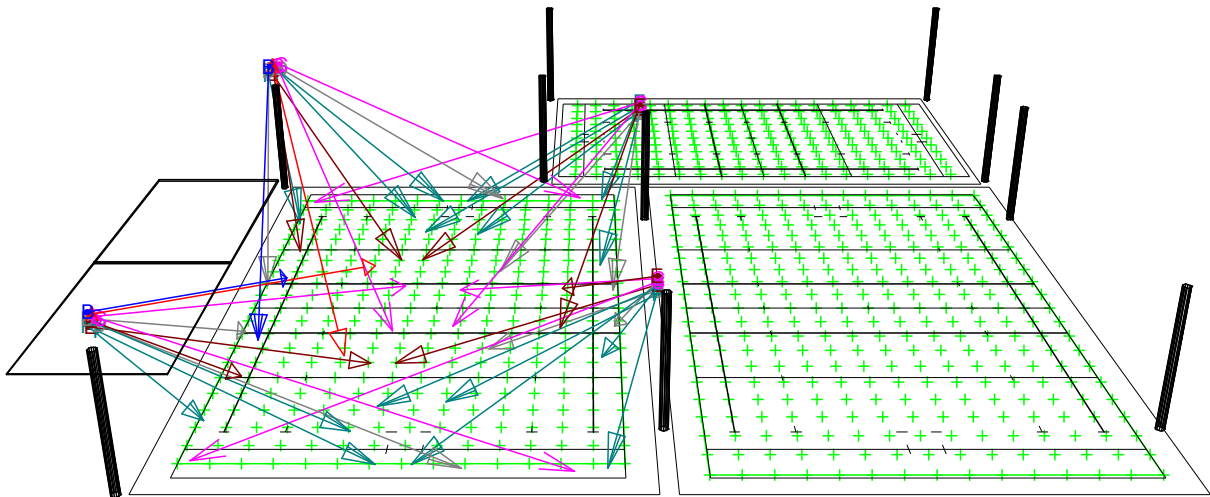





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1. Project Description

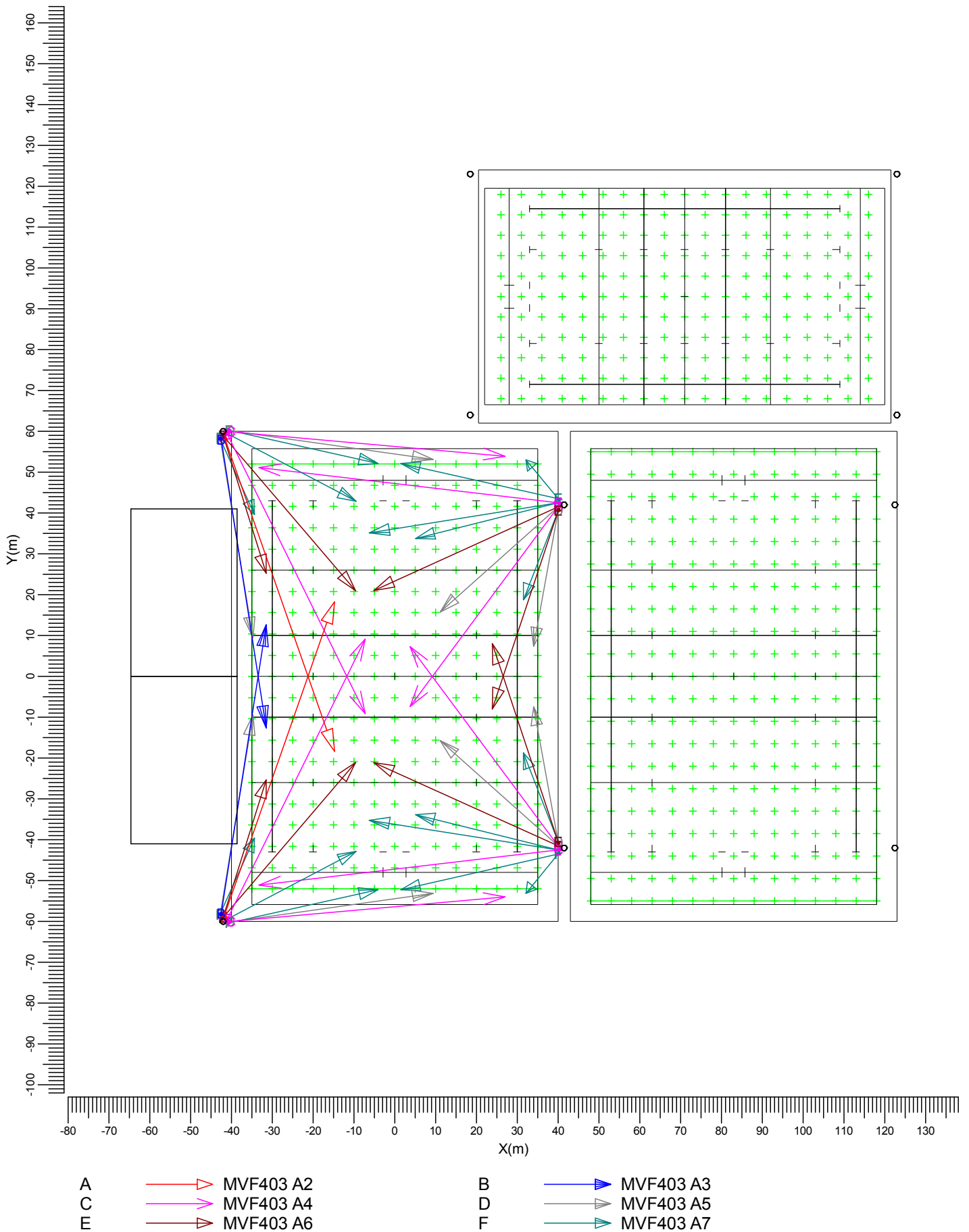
1.1 3-D Project Overview



- A  MVF403 A2
- C  MVF403 A4
- E  MVF403 A6

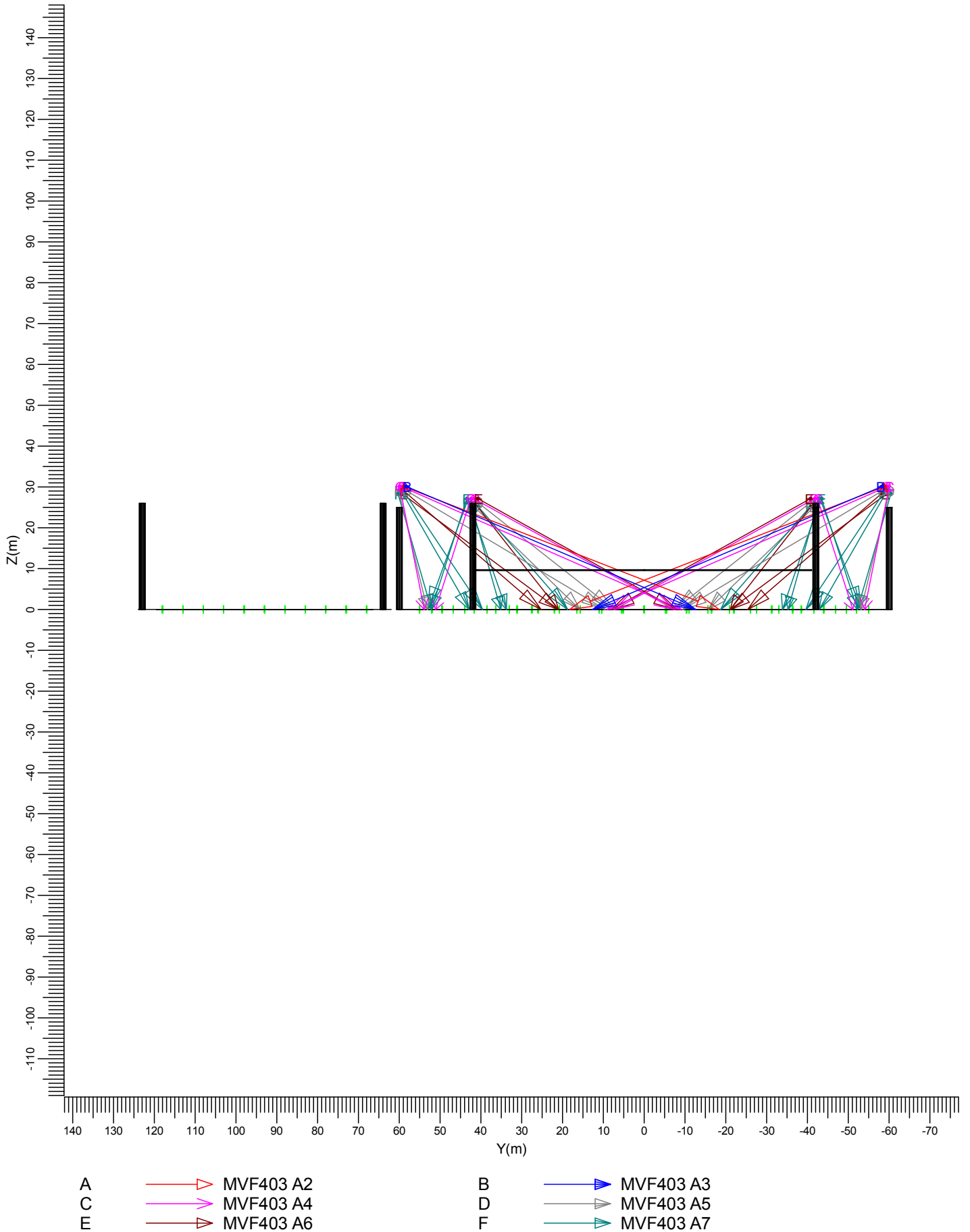
- B  MVF403 A3
- D  MVF403 A5
- F  MVF403 A7

1.2 Top Project Overview



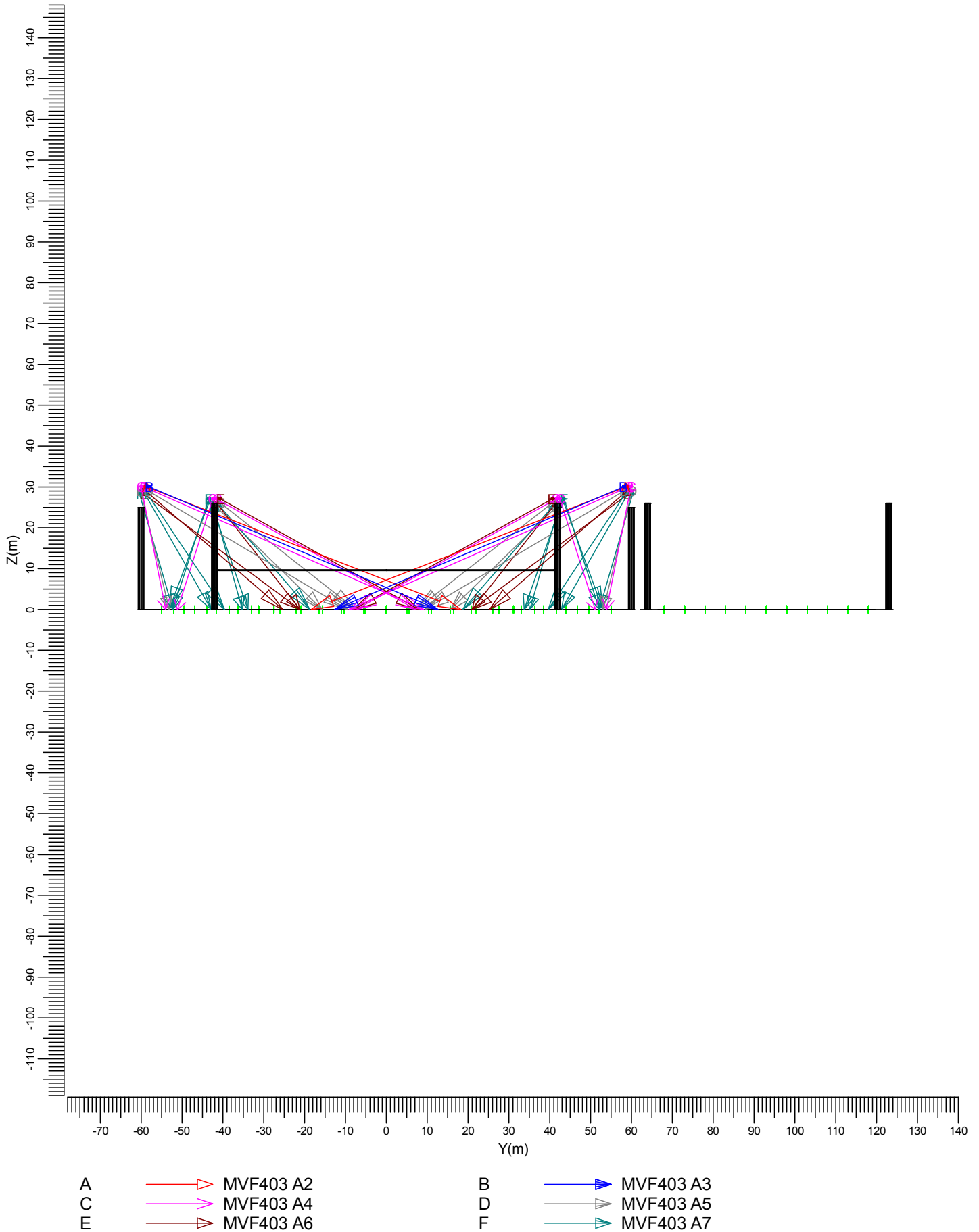
Scale
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1.3 Left Project Overview



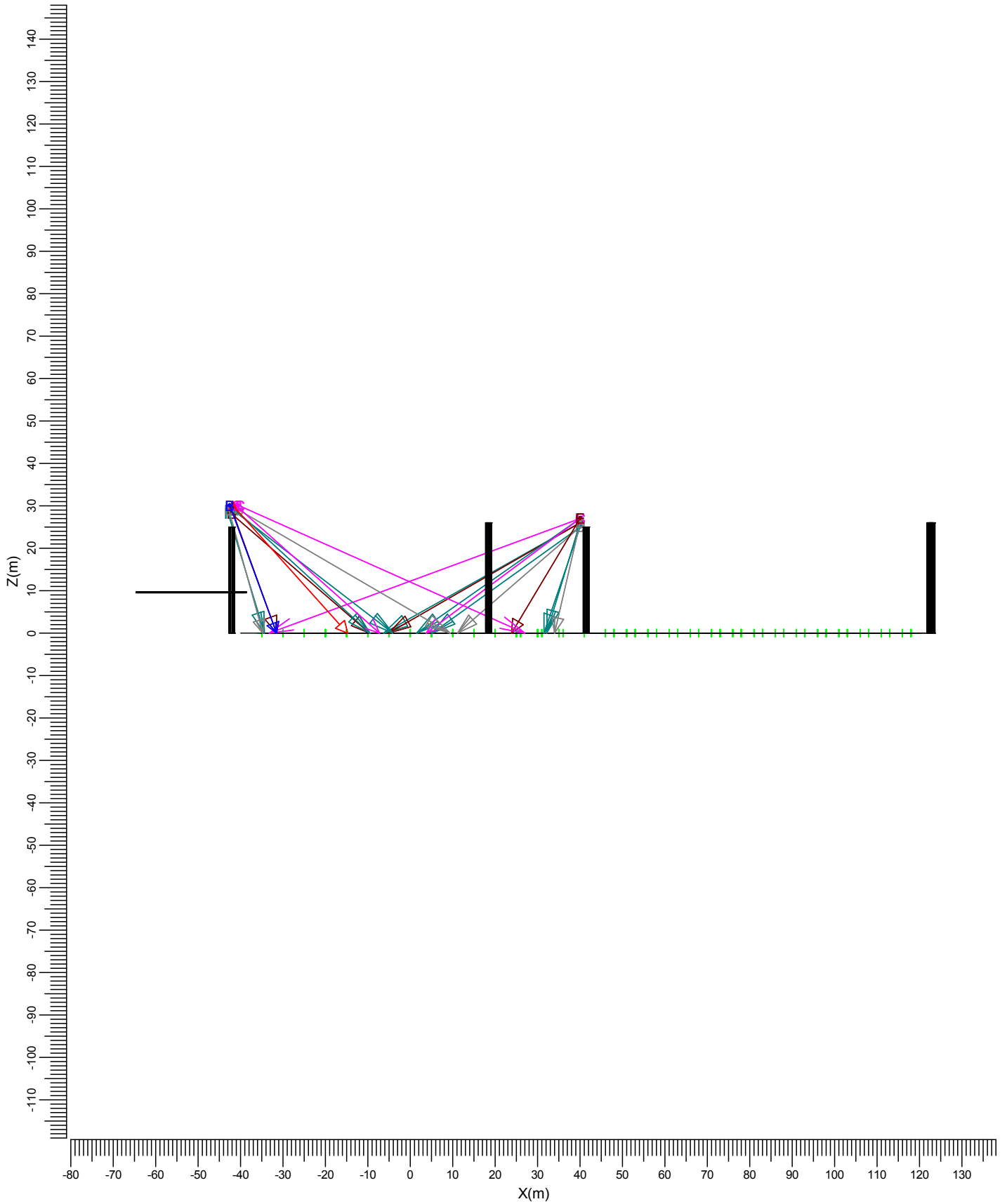
Scale
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1.4 Right Project Overview



Scale
1:1250

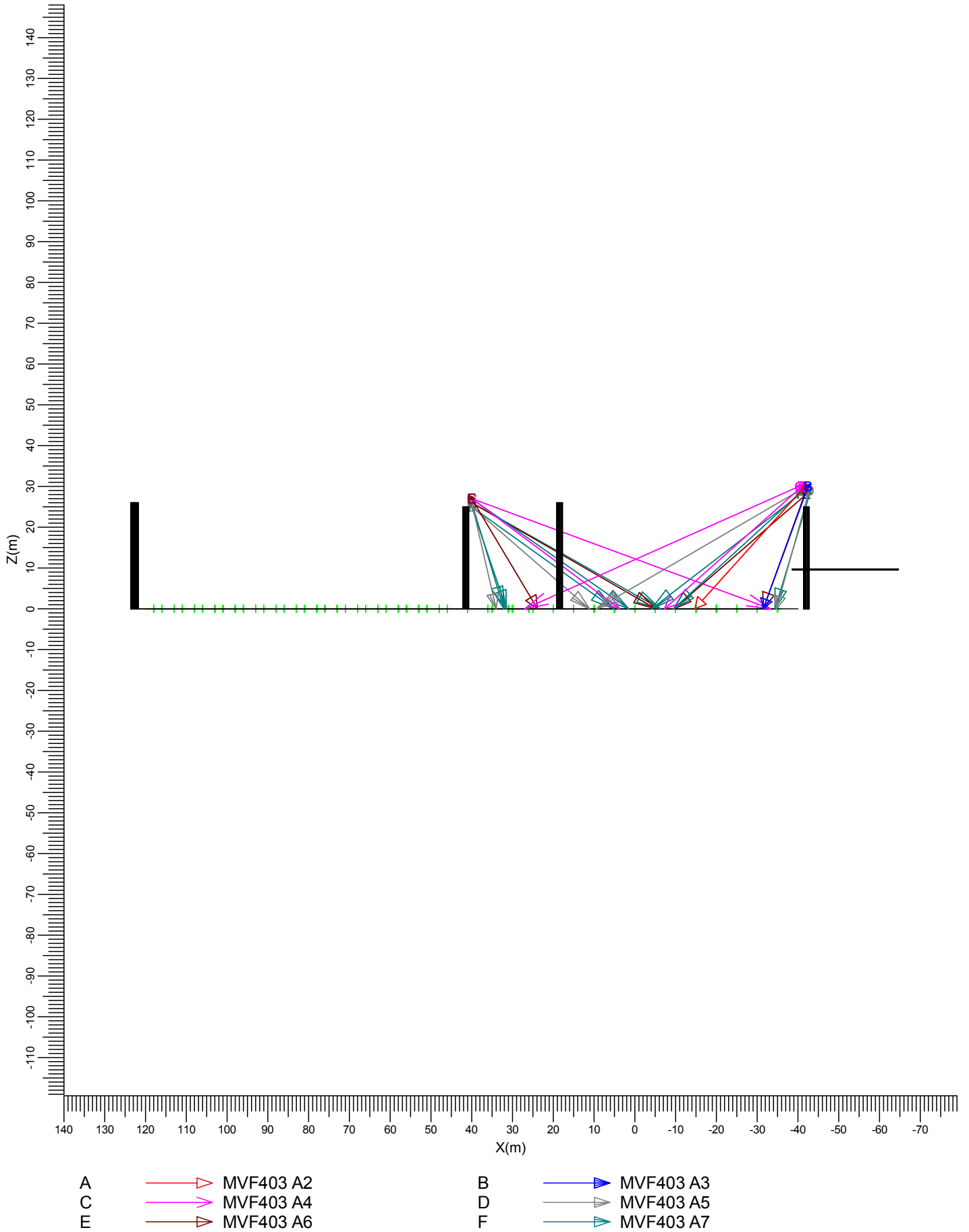
1.5 Front Project Overview



- | | | | | | |
|---|--|-----------|---|--|-----------|
| A | | MVF403 A2 | B | | MVF403 A3 |
| C | | MVF403 A4 | D | | MVF403 A5 |
| E | | MVF403 A6 | F | | MVF403 A7 |

Scale
1:1250

1.6 Back Project Overview



Scale
1:1250

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.75.

2.2 Obstacle Information

Obstacle	Transparency (%)	Position		
		X (m)	Y (m)	Z (m)
bloc	0	-64.60	0.00	9.50
R	100	-42.00	-60.00	0.00
RR1	100	41.50	42.00	0.00
R1	100	122.50	42.00	0.00
R2 m1	100	18.50	64.00	0.00
R2m2	100	18.50	123.00	0.00
R2m3	100	123.00	123.00	0.00
R2m4	100	123.00	64.00	0.00

2.3 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
A	2	MVF403 A2	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000
B	2	MVF403 A3	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000
C	8	MVF403 A4	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000
D	8	MVF403 A5	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000
E	8	MVF403 A6	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000
F	16	MVF403 A7	1 * MHN-SAH2000W/400V/956	2175.0	1 * 226000

The total installed power: 95.70 (kWatt)

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code						Power (kWatt)
	A	B	C	D	E	F	
R	2	2	4	4	4	6	47.85
R - 2 (3)	0	0	0	0	0	0	0.00
R - 1	0	0	0	0	0	0	0.00
R - 1 (1)	0	0	0	0	0	0	0.00
R - 2 (1)	0	0	0	0	0	0	0.00
R - 2 (2)	0	0	0	0	0	0	0.00
R - 2 (4)	0	0	0	0	0	0	0.00
RR	0	0	4	4	4	10	47.85

2.4 Calculation Results

(II)luminance Calculations:

Calculation	Type	Unit	Ave	Min	Max	Min/Ave	Min/Max
RUGBY - Eh	Surface Illuminance	lux	462	415	544	0.90	0.76
RUGBY - 1 Eh	Surface Illuminance	lux	22.8	1.1	175.7	0.05	0.01
RUGBY - 2	Surface Illuminance	lux	7.33	0.43	118.61	0.06	0.00

Glare Rating for Grid of Observers:

Calculation	Observer Grid	Reference Grid	Reflectance	GR-Max
GR RUGBY	RUGBY	RUGBY	0.25	43.5
GR RUGBY - 1	RUGBI-1	RUGBI-1	0.25	58.7
GR RUGBY - 2	RUGBY - 2	RUGBY - 2	0.25	70.5

Obtrusive Light Calculations:

The upward light ratio (ULR) is 0.02.

3. Calculation Results

3.1 RUGBY - Eh: Textual Table

Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)

X (m)	-35.00	-30.00	-25.00	-20.00	-15.00	-10.00	-5.00	0.00	5.00	10.00	15.00	20.00	25.00
Y (m)													
52.00	454	457	490	503	430	423	416	436	442	449	453	463	425
46.80	490	504	544	495	474	463	460	463	464	461	504	502	476
41.60	518	540	501	468	468	459	445	452	469	474	526	527	459
36.40	472	498	471	458	465	453	435	452	459	478	496	512	467
31.20	430	464	468	466	448	434	435	454	473	490	478	468	463
26.00	415<	447	461	445	433	429	434	444	472	500	484	447	434
20.80	419	445	446	445	438	422	415	425	469	528	538	465	447
15.60	426	449	449	454	449	430	415	427	464	536	537	475	442
10.40	425	458	466	467	462	437	418	430	460	489	490	454	462
5.20	415	452	453	461	461	438	421	440	482	498	462	438	438
-0.00	424	460	451	459	454	429	425	454	500	513	476	433	419
-5.20	415	452	453	461	461	438	421	440	482	498	462	438	438
-10.40	425	458	466	467	462	437	418	430	460	489	490	454	462
-15.60	426	449	449	454	449	430	415	427	464	536	537	475	442
-20.80	419	445	446	445	438	422	415	425	469	528	538	465	447
-26.00	415<	447	461	445	433	429	434	444	472	500	484	447	434
-31.20	430	464	468	466	448	434	435	454	473	490	478	468	463
-36.40	472	498	471	458	465	453	435	452	459	478	496	512	467
-41.60	518	540	501	468	468	459	445	452	469	474	526	527	459
-46.80	490	504	544>	495	474	463	460	463	464	461	504	502	476
-52.00	454	457	490	503	430	423	416	436	442	449	453	463	425

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Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
462	415	544	0.90	0.76	0.75

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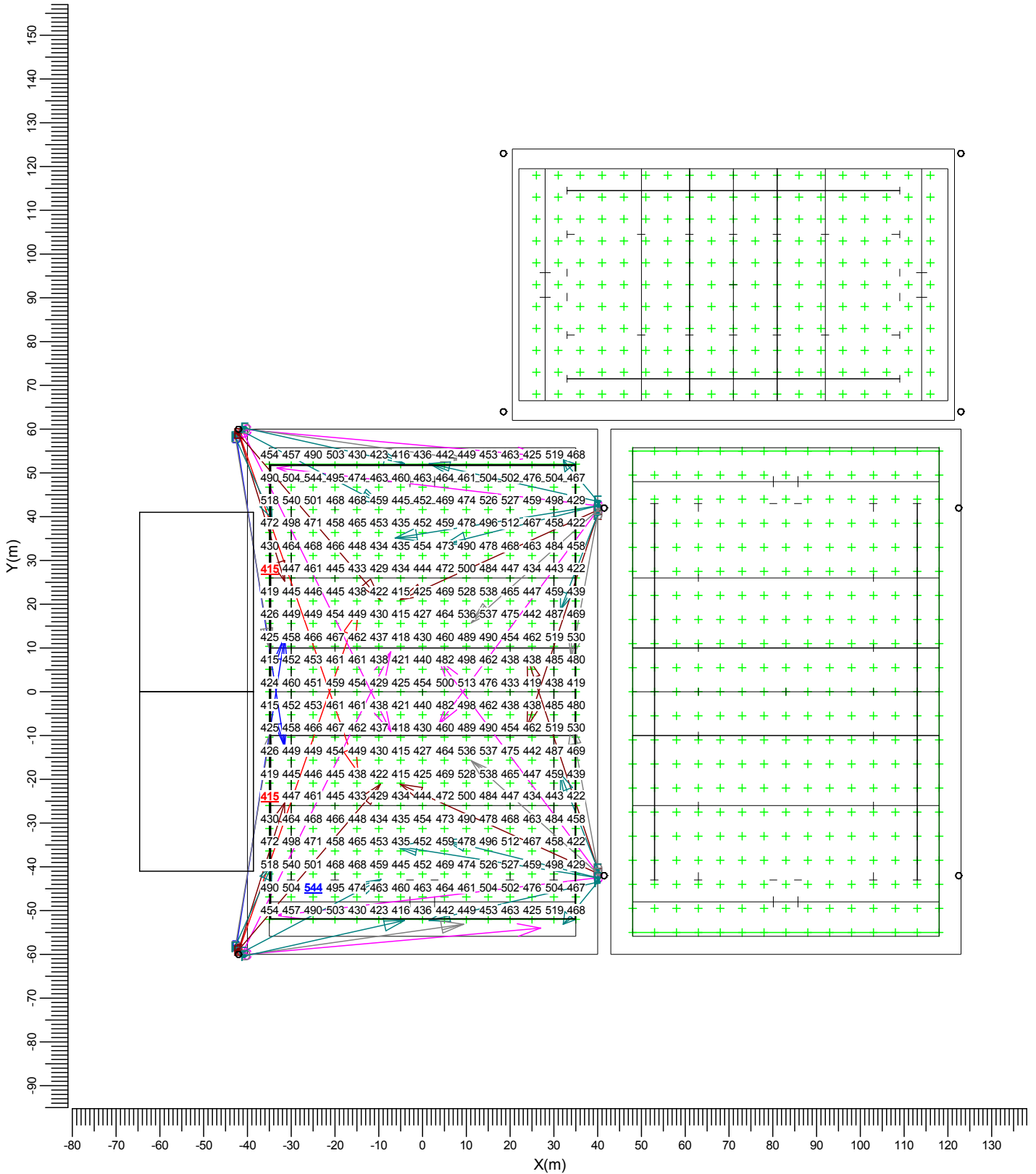
Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)

X (m)	30.00	35.00
Y (m)		
52.00	519	468
46.80	504	467
41.60	498	429
36.40	458	422
31.20	484	458
26.00	443	422
20.80	459	439
15.60	487	469
10.40	519	530
5.20	485	480
-0.00	438	419
-5.20	485	480
-10.40	519	530
-15.60	487	469
-20.80	459	439
-26.00	443	422
-31.20	484	458
-36.40	458	422
-41.60	498	429
-46.80	504	467
-52.00	519	468

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
462	415	544	0.90	0.76	0.75

3.2 RUGBY - Eh: Graphical Table

Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)

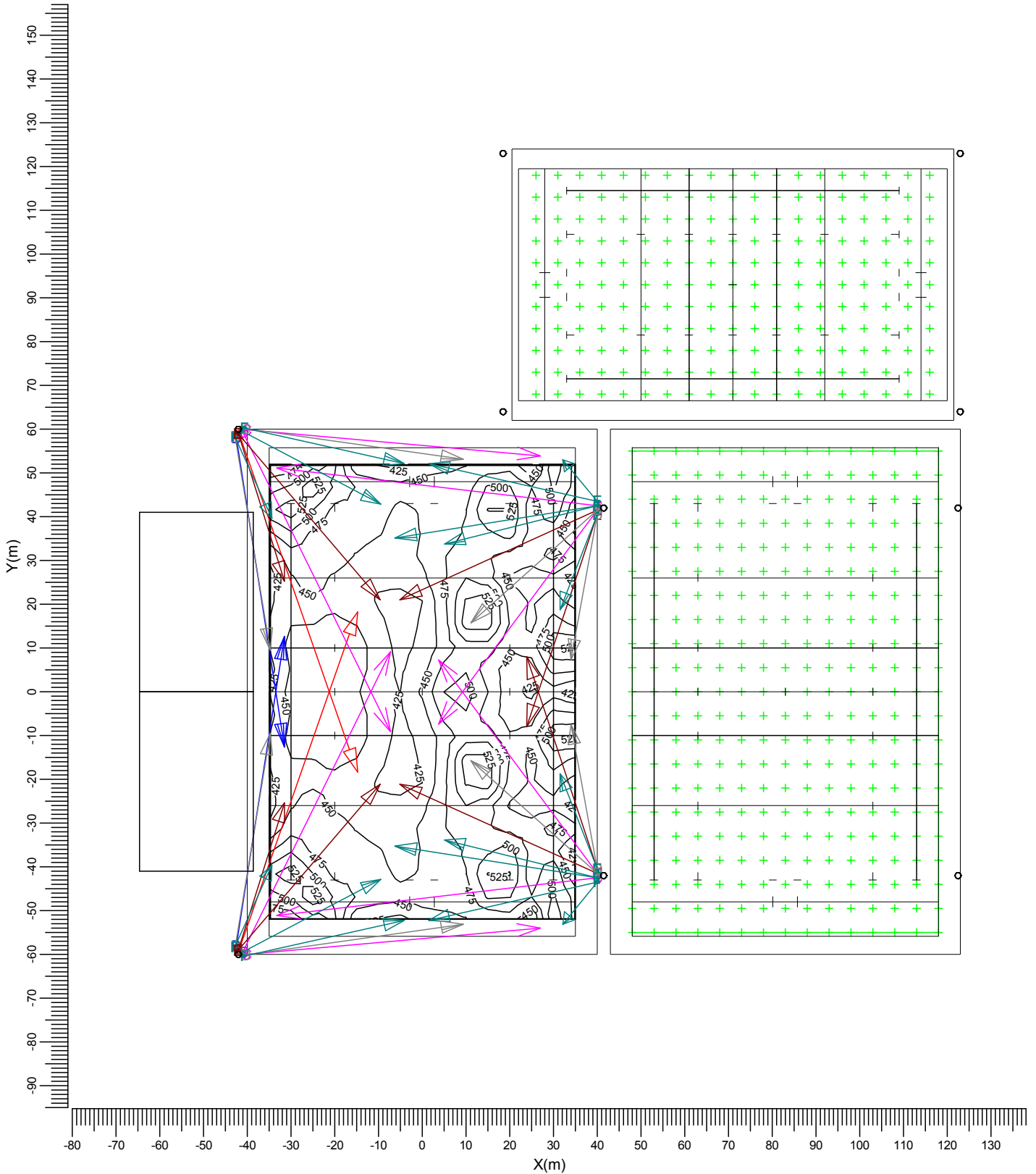


- | | | | | | |
|---|--|-----------|---|--|-----------|
| A | | MVF403 A2 | B | | MVF403 A3 |
| C | | MVF403 A4 | D | | MVF403 A5 |
| E | | MVF403 A6 | F | | MVF403 A7 |

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
462	415	544	0.90	0.76	0.75	1:1250

3.3 RUGBY - Eh: Iso Contour

Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)

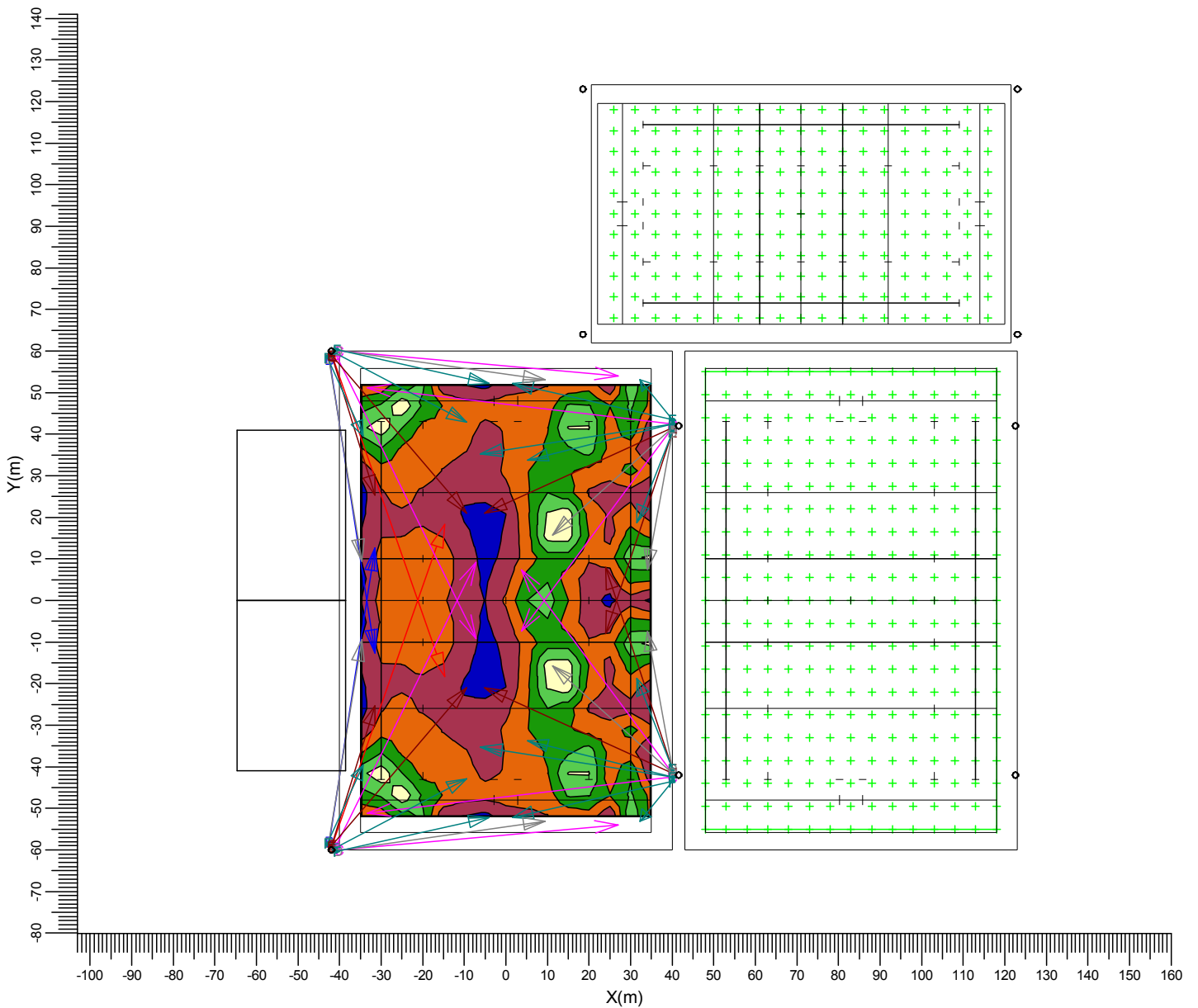
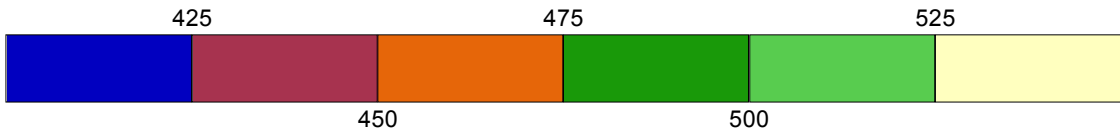


- | | | | | | |
|---|--|-----------|---|--|-----------|
| A | | MVF403 A2 | B | | MVF403 A3 |
| C | | MVF403 A4 | D | | MVF403 A5 |
| E | | MVF403 A6 | F | | MVF403 A7 |

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
462	415	544	0.90	0.76	0.75	1:1250

3.4 RUGBY - Eh: Filled Iso Contour

Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)

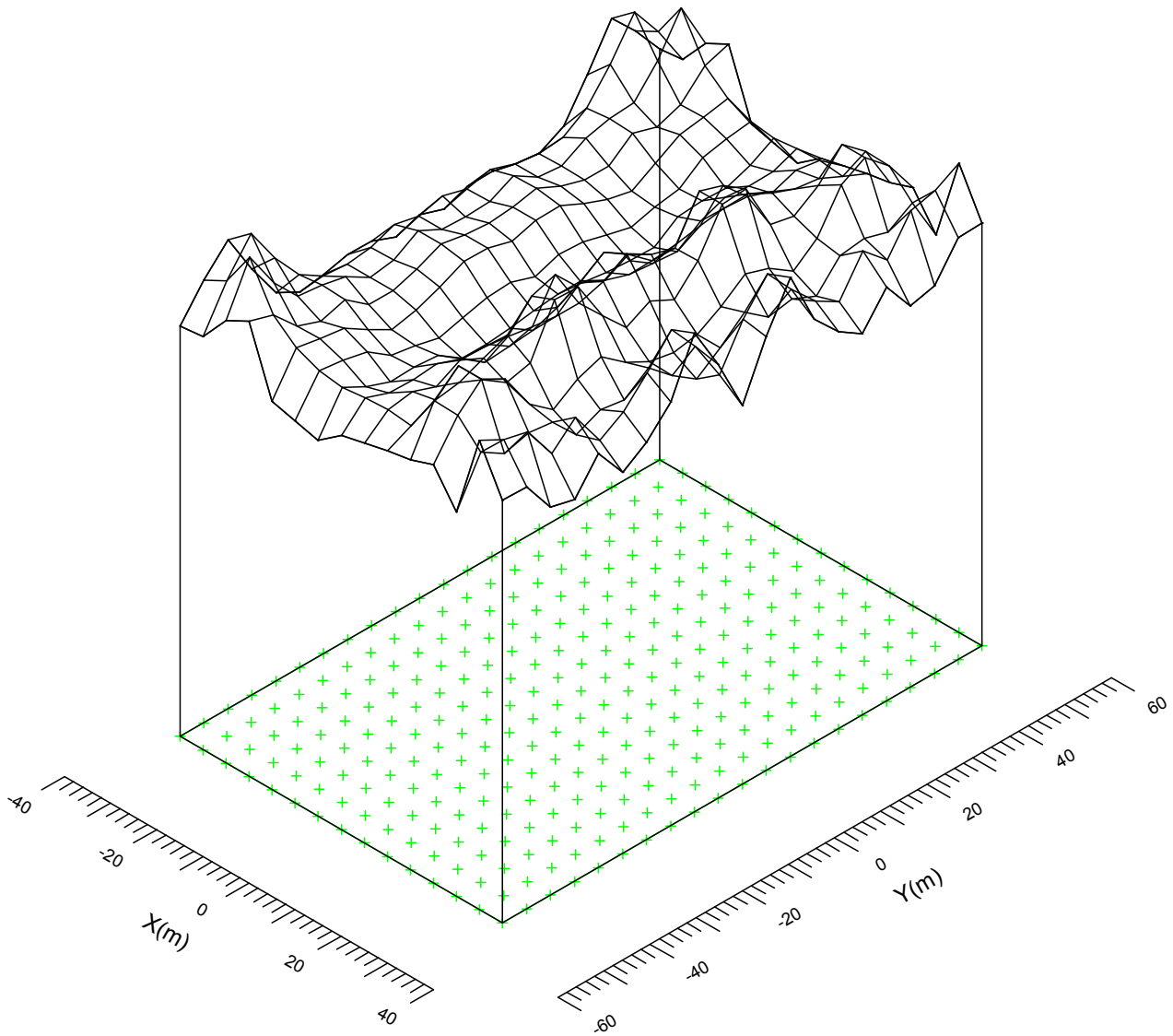


- | | | | | | |
|---|--|-----------|---|--|-----------|
| A | | MVF403 A2 | B | | MVF403 A3 |
| C | | MVF403 A4 | D | | MVF403 A5 |
| E | | MVF403 A6 | F | | MVF403 A7 |

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
462	415	544	0.90	0.76	0.75	1:1500

3.5 RUGBY - Eh: Mountain Plot

Grid : RUGBY at Z = -0.00 m
Calculation : Surface Illuminance (lux)



Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
462	415	544	0.90	0.76	0.75

3.6 GR RUGBY: Textual Table

Grid of Observers : RUGBY
 Calculation : Glare Rating
 Grid for Background Luminance : RUGBY (Reflectance: 0.25)
 Vertical Viewing Angle : -2.0 deg

X	Y	Z	Angle	GR-Max	X	Y	Z	Angle	GR-Max
-35.00	-52.00	0.00	0	39	-5.00	-41.60	0.00	0	36
-30.00	-52.00	0.00	0	39	0.00	-41.60	0.00	0	35
-25.00	-52.00	0.00	0	39	5.00	-41.60	0.00	0	34
-20.00	-52.00	0.00	0	38	10.00	-41.60	0.00	180	32
-15.00	-52.00	0.00	0	36	15.00	-41.60	0.00	180	32
-10.00	-52.00	0.00	0	33	20.00	-41.60	0.00	180	33
-5.00	-52.00	0.00	0	31	25.00	-41.60	0.00	180	33
0.00	-52.00	0.00	180	34	30.00	-41.60	0.00	180	32
5.00	-52.00	0.00	180	36	35.00	-41.60	0.00	180	31
10.00	-52.00	0.00	180	38	-35.00	-36.40	0.00	0	37
15.00	-52.00	0.00	180	39	-30.00	-36.40	0.00	0	37
20.00	-52.00	0.00	180	39	-25.00	-36.40	0.00	0	37
25.00	-52.00	0.00	180	39	-20.00	-36.40	0.00	0	37
30.00	-52.00	0.00	180	38	-15.00	-36.40	0.00	0	37
35.00	-52.00	0.00	180	36	-10.00	-36.40	0.00	0	37
-35.00	-46.80	0.00	0	40	-5.00	-36.40	0.00	0	36
-30.00	-46.80	0.00	0	40	0.00	-36.40	0.00	0	36
-25.00	-46.80	0.00	0	40	5.00	-36.40	0.00	0	34
-20.00	-46.80	0.00	0	39	10.00	-36.40	0.00	0	32
-15.00	-46.80	0.00	0	38	15.00	-36.40	0.00	0	29
-10.00	-46.80	0.00	0	36	20.00	-36.40	0.00	180	28
-5.00	-46.80	0.00	0	34	25.00	-36.40	0.00	180	28
0.00	-46.80	0.00	0	33	30.00	-36.40	0.00	180	28
5.00	-46.80	0.00	180	34	35.00	-36.40	0.00	180	26
10.00	-46.80	0.00	180	36	-35.00	-31.20	0.00	90	34
15.00	-46.80	0.00	180	36	-30.00	-31.20	0.00	90	36
20.00	-46.80	0.00	180	37	-25.00	-31.20	0.00	90	37
25.00	-46.80	0.00	180	37	-20.00	-31.20	0.00	90	37
30.00	-46.80	0.00	180	35	-15.00	-31.20	0.00	90	37
35.00	-46.80	0.00	180	34	-10.00	-31.20	0.00	0	36
-35.00	-41.60	0.00	0	39	-5.00	-31.20	0.00	0	36
-30.00	-41.60	0.00	0	40	0.00	-31.20	0.00	0	36
-25.00	-41.60	0.00	0	39	5.00	-31.20	0.00	0	34
-20.00	-41.60	0.00	0	39	10.00	-31.20	0.00	0	32
-15.00	-41.60	0.00	0	38	15.00	-31.20	0.00	315	29
-10.00	-41.60	0.00	0	37	20.00	-31.20	0.00	315	26

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Maximum
43.5

Project maintenance factor
0.75

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Grid of Observers : RUGBY
 Calculation : Glare Rating
 Grid for Background Luminance : RUGBY (Reflectance: 0.25)
 Vertical Viewing Angle : -2.0 deg

X	Y	Z	Angle	GR-Max	X	Y	Z	Angle	GR-Max
25.00	-31.20	0.00	225	24	-15.00	-15.60	0.00	90	42
30.00	-31.20	0.00	90	23	-10.00	-15.60	0.00	90	40
35.00	-31.20	0.00	90	23	-5.00	-15.60	0.00	135	38
-35.00	-26.00	0.00	90	37	0.00	-15.60	0.00	315	37
-30.00	-26.00	0.00	90	39	5.00	-15.60	0.00	315	39
-25.00	-26.00	0.00	90	40	10.00	-15.60	0.00	315	41
-20.00	-26.00	0.00	90	40	15.00	-15.60	0.00	315	39
-15.00	-26.00	0.00	90	39	20.00	-15.60	0.00	315	35
-10.00	-26.00	0.00	90	38	25.00	-15.60	0.00	315	31
-5.00	-26.00	0.00	90	35	30.00	-15.60	0.00	270	29
0.00	-26.00	0.00	0	34	35.00	-15.60	0.00	270	30
5.00	-26.00	0.00	315	35	-35.00	-10.40	0.00	90	42
10.00	-26.00	0.00	315	35	-30.00	-10.40	0.00	90	43
15.00	-26.00	0.00	315	32	-25.00	-10.40	0.00	90	43
20.00	-26.00	0.00	315	29	-20.00	-10.40	0.00	90	43
25.00	-26.00	0.00	315	26	-15.00	-10.40	0.00	90	41
30.00	-26.00	0.00	90	25	-10.00	-10.40	0.00	135	39
35.00	-26.00	0.00	90	25	-5.00	-10.40	0.00	45	38
-35.00	-20.80	0.00	90	40	0.00	-10.40	0.00	45	39
-30.00	-20.80	0.00	90	41	5.00	-10.40	0.00	315	40
-25.00	-20.80	0.00	90	42	10.00	-10.40	0.00	315	40
-20.00	-20.80	0.00	90	42	15.00	-10.40	0.00	315	39
-15.00	-20.80	0.00	90	41	20.00	-10.40	0.00	315	36
-10.00	-20.80	0.00	90	39	25.00	-10.40	0.00	315	33
-5.00	-20.80	0.00	135	36	30.00	-10.40	0.00	270	34
0.00	-20.80	0.00	315	35	35.00	-10.40	0.00	270	35
5.00	-20.80	0.00	315	37	-35.00	-5.20	0.00	90	42
10.00	-20.80	0.00	315	38	-30.00	-5.20	0.00	90	42
15.00	-20.80	0.00	315	37	-25.00	-5.20	0.00	90	42
20.00	-20.80	0.00	315	33	-20.00	-5.20	0.00	90	41
25.00	-20.80	0.00	315	29	-15.00	-5.20	0.00	90	39
30.00	-20.80	0.00	90	27	-10.00	-5.20	0.00	135	39
35.00	-20.80	0.00	90	26	-5.00	-5.20	0.00	45	39
-35.00	-15.60	0.00	90	41	0.00	-5.20	0.00	45	40
-30.00	-15.60	0.00	90	43	5.00	-5.20	0.00	45	41
-25.00	-15.60	0.00	90	43	10.00	-5.20	0.00	315	40
-20.00	-15.60	0.00	90	43	15.00	-5.20	0.00	315	38

Maximum
43.5

Project maintenance factor
0.75

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Continue >

Grid of Observers : RUGBY
 Calculation : Glare Rating
 Grid for Background Luminance : RUGBY (Reflectance: 0.25)
 Vertical Viewing Angle : -2.0 deg

X	Y	Z	Angle	GR-Max	X	Y	Z	Angle	GR-Max
20.00	-5.20	0.00	315	35	-20.00	10.40	0.00	270	43
25.00	-5.20	0.00	270	33	-15.00	10.40	0.00	270	41
30.00	-5.20	0.00	270	35	-10.00	10.40	0.00	225	39
35.00	-5.20	0.00	270	36	-5.00	10.40	0.00	315	38
-35.00	0.00	0.00	90	40	0.00	10.40	0.00	315	39
-30.00	0.00	0.00	90	40	5.00	10.40	0.00	45	40
-25.00	0.00	0.00	90	39	10.00	10.40	0.00	45	40
-20.00	0.00	0.00	90	38	15.00	10.40	0.00	45	39
-15.00	0.00	0.00	135	37	20.00	10.40	0.00	45	36
-10.00	0.00	0.00	135	37	25.00	10.40	0.00	45	33
-5.00	0.00	0.00	45	38	30.00	10.40	0.00	90	34
0.00	0.00	0.00	45	40	35.00	10.40	0.00	90	35
5.00	0.00	0.00	45	41	-35.00	15.60	0.00	270	41
10.00	0.00	0.00	45	40	-30.00	15.60	0.00	270	43
15.00	0.00	0.00	45	37	-25.00	15.60	0.00	270	43
20.00	0.00	0.00	45	34	-20.00	15.60	0.00	270	43
25.00	0.00	0.00	90	33	-15.00	15.60	0.00	270	42
30.00	0.00	0.00	90	34	-10.00	15.60	0.00	270	40
35.00	0.00	0.00	90	34	-5.00	15.60	0.00	225	38
-35.00	5.20	0.00	270	42	0.00	15.60	0.00	45	37
-30.00	5.20	0.00	270	42	5.00	15.60	0.00	45	39
-25.00	5.20	0.00	270	42	10.00	15.60	0.00	45	41
-20.00	5.20	0.00	270	41	15.00	15.60	0.00	45	39
-15.00	5.20	0.00	270	39	20.00	15.60	0.00	45	35
-10.00	5.20	0.00	225	39	25.00	15.60	0.00	45	31
-5.00	5.20	0.00	315	39	30.00	15.60	0.00	90	29
0.00	5.20	0.00	315	40	35.00	15.60	0.00	90	30
5.00	5.20	0.00	315	41	-35.00	20.80	0.00	270	40
10.00	5.20	0.00	45	40	-30.00	20.80	0.00	270	41
15.00	5.20	0.00	45	38	-25.00	20.80	0.00	270	42
20.00	5.20	0.00	45	35	-20.00	20.80	0.00	270	42
25.00	5.20	0.00	90	33	-15.00	20.80	0.00	270	41
30.00	5.20	0.00	90	35	-10.00	20.80	0.00	270	39
35.00	5.20	0.00	90	36	-5.00	20.80	0.00	225	36
-35.00	10.40	0.00	270	42	0.00	20.80	0.00	45	35
-30.00	10.40	0.00	270	43	5.00	20.80	0.00	45	37
-25.00	10.40	0.00	270	43	10.00	20.80	0.00	45	38

Maximum
43.5

Project maintenance factor
0.75

< Continue

Continue >

Grid of Observers : RUGBY
 Calculation : Glare Rating
 Grid for Background Luminance : RUGBY (Reflectance: 0.25)
 Vertical Viewing Angle : -2.0 deg

X	Y	Z	Angle	GR-Max	X	Y	Z	Angle	GR-Max
15.00	20.80	0.00	45	37	-25.00	36.40	0.00	0	37
20.00	20.80	0.00	45	33	-20.00	36.40	0.00	0	37
25.00	20.80	0.00	45	29	-15.00	36.40	0.00	0	37
30.00	20.80	0.00	270	27	-10.00	36.40	0.00	0	37
35.00	20.80	0.00	270	26	-5.00	36.40	0.00	0	36
-35.00	26.00	0.00	270	37	0.00	36.40	0.00	0	36
-30.00	26.00	0.00	270	39	5.00	36.40	0.00	0	34
-25.00	26.00	0.00	270	40	10.00	36.40	0.00	0	32
-20.00	26.00	0.00	270	40	15.00	36.40	0.00	0	29
-15.00	26.00	0.00	270	39	20.00	36.40	0.00	180	28
-10.00	26.00	0.00	270	38	25.00	36.40	0.00	180	28
-5.00	26.00	0.00	270	35	30.00	36.40	0.00	180	28
0.00	26.00	0.00	0	34	35.00	36.40	0.00	180	26
5.00	26.00	0.00	45	35	-35.00	41.60	0.00	0	39
10.00	26.00	0.00	45	35	-30.00	41.60	0.00	0	40
15.00	26.00	0.00	45	32	-25.00	41.60	0.00	0	39
20.00	26.00	0.00	45	29	-20.00	41.60	0.00	0	39
25.00	26.00	0.00	45	26	-15.00	41.60	0.00	0	38
30.00	26.00	0.00	270	25	-10.00	41.60	0.00	0	37
35.00	26.00	0.00	270	25	-5.00	41.60	0.00	0	36
-35.00	31.20	0.00	270	34	0.00	41.60	0.00	0	35
-30.00	31.20	0.00	270	36	5.00	41.60	0.00	0	34
-25.00	31.20	0.00	270	37	10.00	41.60	0.00	180	32
-20.00	31.20	0.00	270	37	15.00	41.60	0.00	180	32
-15.00	31.20	0.00	270	37	20.00	41.60	0.00	180	33
-10.00	31.20	0.00	0	36	25.00	41.60	0.00	180	33
-5.00	31.20	0.00	0	36	30.00	41.60	0.00	180	32
0.00	31.20	0.00	0	36	35.00	41.60	0.00	180	31
5.00	31.20	0.00	0	34	-35.00	46.80	0.00	0	40
10.00	31.20	0.00	0	32	-30.00	46.80	0.00	0	40
15.00	31.20	0.00	45	29	-25.00	46.80	0.00	0	40
20.00	31.20	0.00	45	26	-20.00	46.80	0.00	0	39
25.00	31.20	0.00	135	24	-15.00	46.80	0.00	0	38
30.00	31.20	0.00	270	23	-10.00	46.80	0.00	0	36
35.00	31.20	0.00	270	23	-5.00	46.80	0.00	0	34
-35.00	36.40	0.00	0	37	0.00	46.80	0.00	0	33
-30.00	36.40	0.00	0	37	5.00	46.80	0.00	180	34

Maximum
43.5

Project maintenance factor
0.75

< Continue

Grid of Observers : RUGBY
Calculation : Glare Rating
Grid for Background Luminance : RUGBY (Reflectance: 0.25)
Vertical Viewing Angle : -2.0 deg

X	Y	Z	Angle	GR-Max	X	Y	Z	Angle	GR-Max
10.00	46.80	0.00	180	36					
15.00	46.80	0.00	180	36					
20.00	46.80	0.00	180	37					
25.00	46.80	0.00	180	37					
30.00	46.80	0.00	180	35					
35.00	46.80	0.00	180	34					
-35.00	52.00	0.00	0	39					
-30.00	52.00	0.00	0	39					
-25.00	52.00	0.00	0	39					
-20.00	52.00	0.00	0	38					
-15.00	52.00	0.00	0	36					
-10.00	52.00	0.00	0	33					
-5.00	52.00	0.00	0	31					
0.00	52.00	0.00	180	34					
5.00	52.00	0.00	180	36					
10.00	52.00	0.00	180	38					
15.00	52.00	0.00	180	39					
20.00	52.00	0.00	180	39					
25.00	52.00	0.00	180	39					
30.00	52.00	0.00	180	38					
35.00	52.00	0.00	180	36					

Maximum
43.5

Project maintenance factor
0.75

4. Luminaire Details

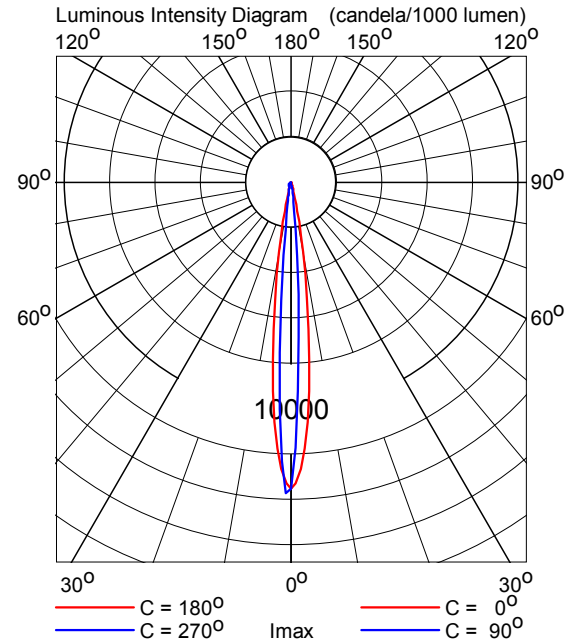
4.1 Project Luminaires

MVF403
MVF403 1xMHN-SAH2000W/400V/956 A2



Light output ratios
 DLOR : 0.82
 ULOR : 0.00
 TLOR : 0.82
 Ballast : Conventional
 Lamp flux : 226000 lm
 Luminaire wattage : 2175.0 W
 Measurement code : LVM1246600

Note: This luminaire is a special version of the mentioned measurement code.

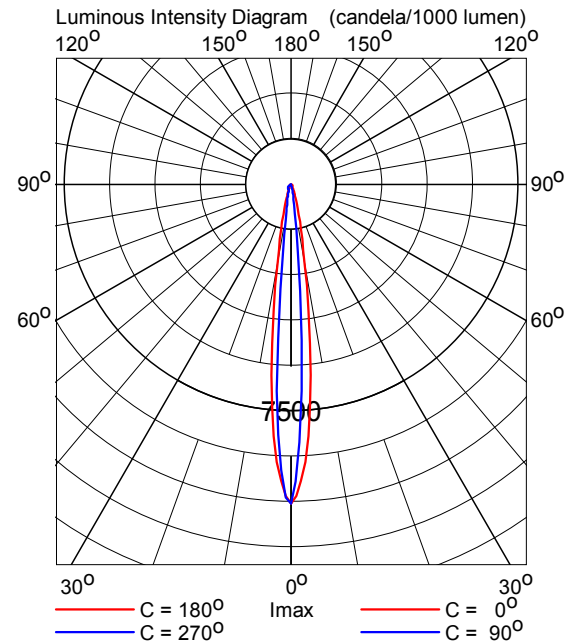


MVF403
MVF403 1xMHN-SAH2000W/400V/956 A3



Light output ratios
 DLOR : 0.82
 ULOR : 0.00
 TLOR : 0.82
 Ballast : Conventional
 Lamp flux : 226000 lm
 Luminaire wattage : 2175.0 W
 Measurement code : LVM1246700

Note: This luminaire is a special version of the mentioned measurement code.

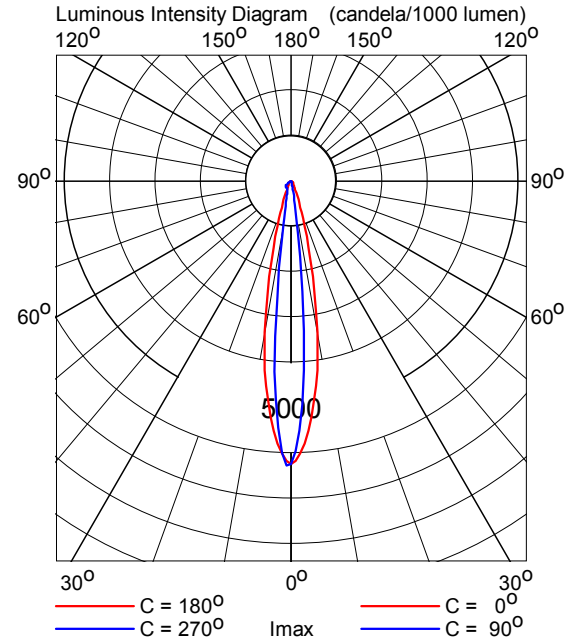


MVF403
MVF403 1xMHN-SAH2000W/400V/956 A4



Light output ratios
DLOR : 0.80
ULOR : 0.01
TLOR : 0.81
Ballast : Conventional
Lamp flux : 226000 lm
Luminaire wattage : 2175.0 W
Measurement code : LVM1246100

Note: This luminaire is a special version of the mentioned measurement code.

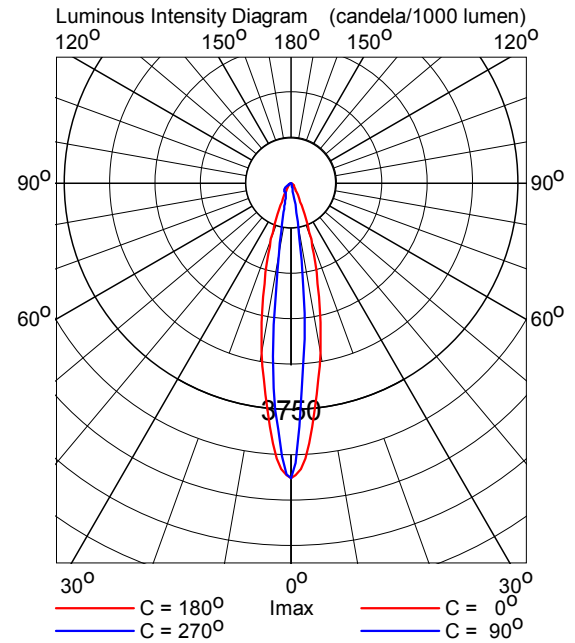


MVF403
MVF403 1xMHN-SAH2000W/400V/956 A5



Light output ratios
DLOR : 0.80
ULOR : 0.01
TLOR : 0.81
Ballast : Conventional
Lamp flux : 226000 lm
Luminaire wattage : 2175.0 W
Measurement code : LVM1246200

Note: This luminaire is a special version of the mentioned measurement code.

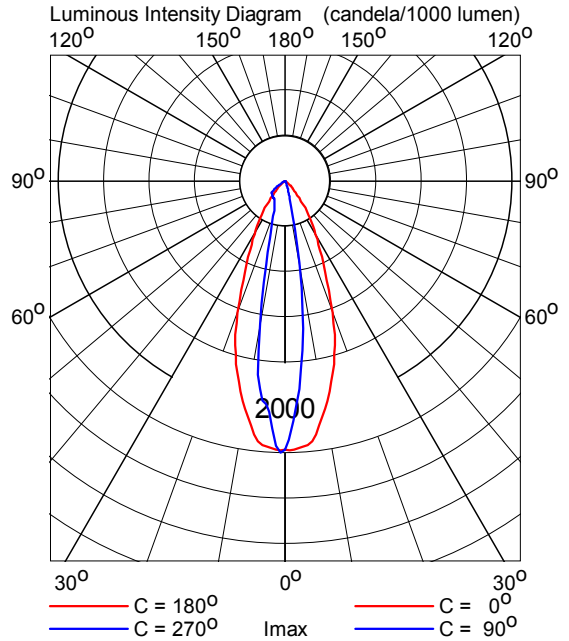


MVF403
MVF403 1xMHN-SAH2000W/400V/956 A6



Light output ratios
DLOR : 0.80
ULOR : 0.00
TLOR : 0.80
Ballast : Conventional
Lamp flux : 226000 lm
Luminaire wattage : 2175.0 W
Measurement code : LVM1246300

Note: This luminaire is a special version of the mentioned measurement code.



MVF403
MVF403 1xMHN-SAH2000W/400V/956 A7



Light output ratios
DLOR : 0.80
ULOR : 0.00
TLOR : 0.80
Ballast : Conventional
Lamp flux : 226000 lm
Luminaire wattage : 2175.0 W
Measurement code : LVM1246400

Note: This luminaire is a special version of the mentioned measurement code.

