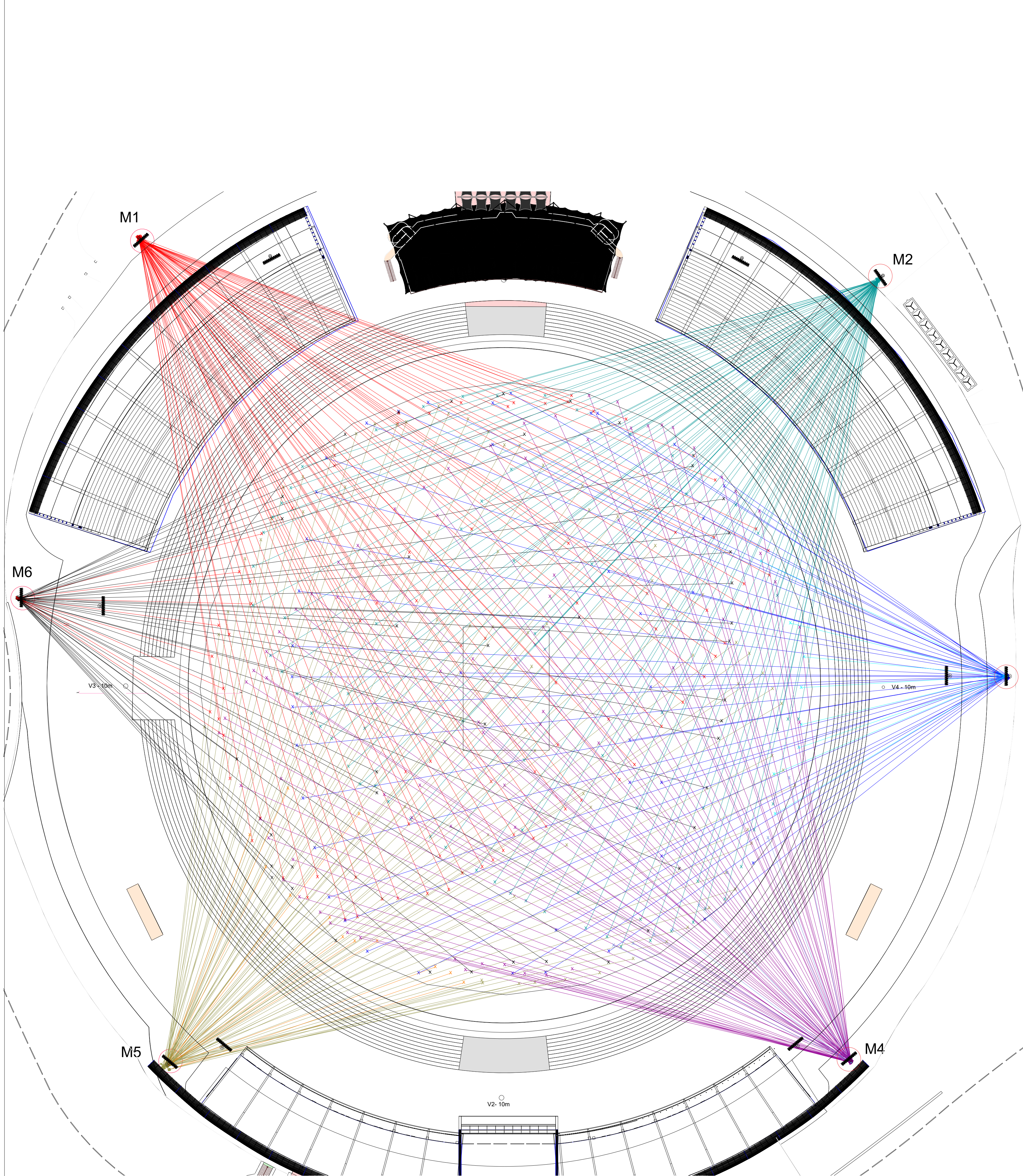
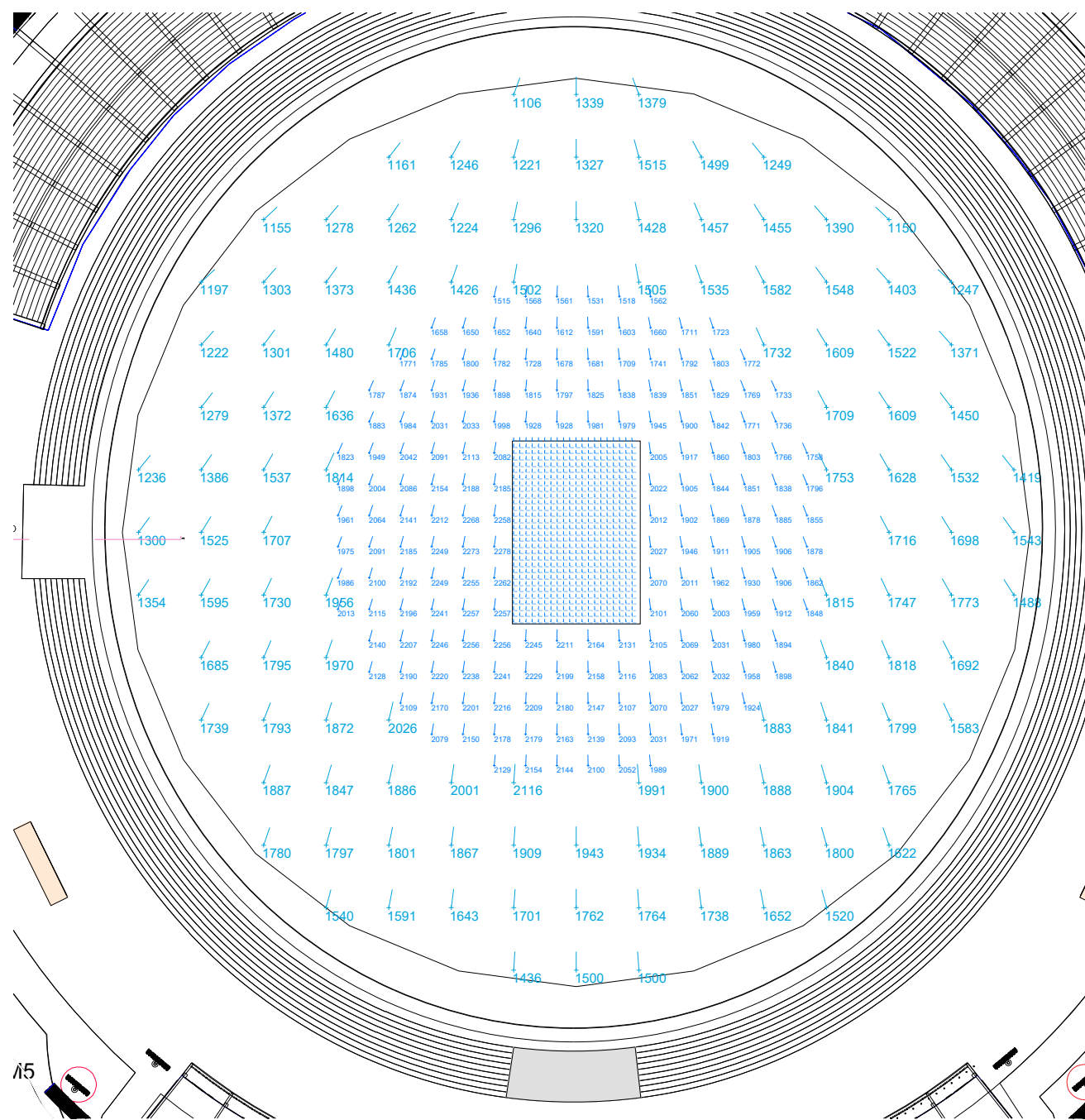
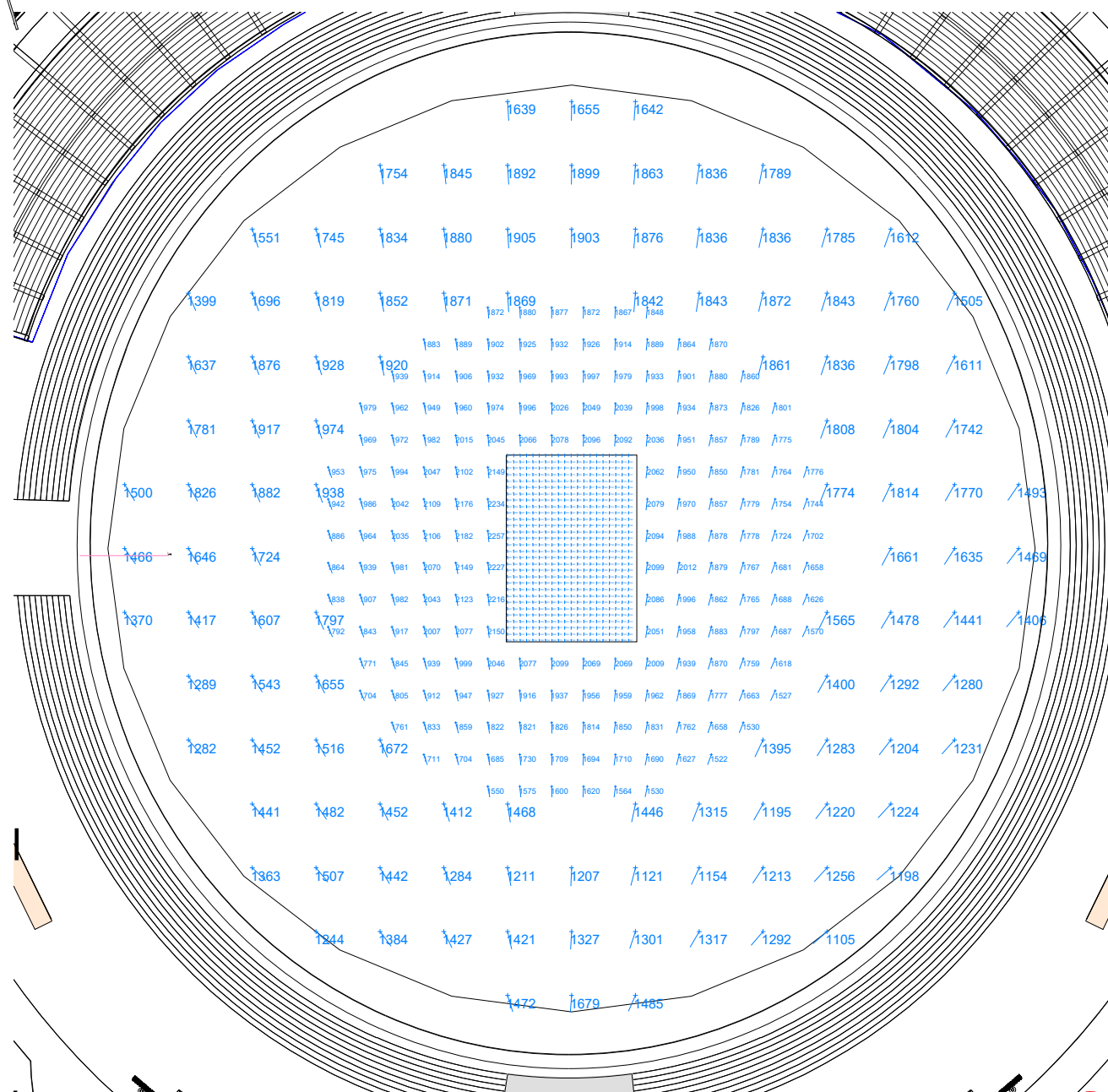




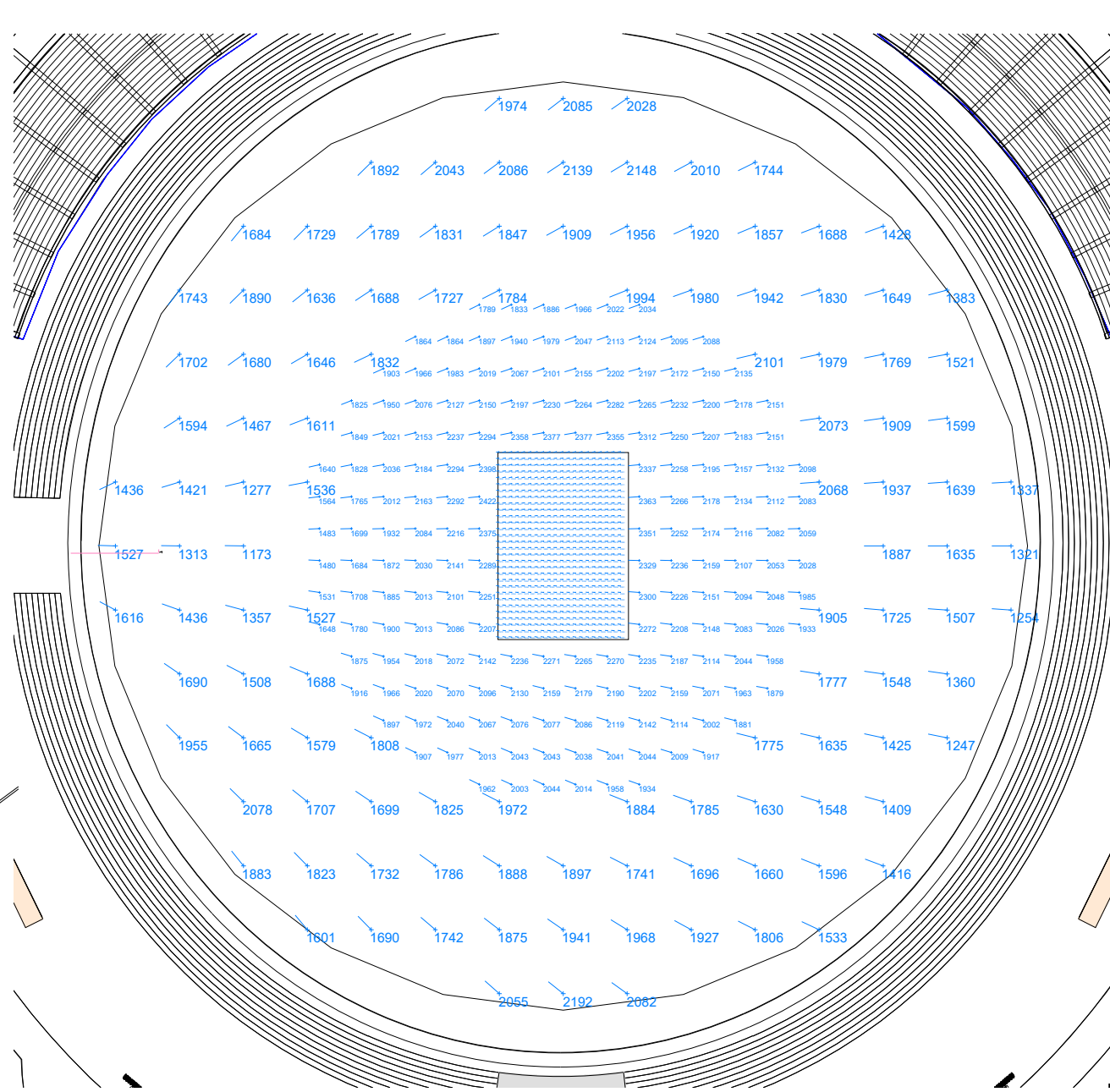
Floodlights aiming locations. Scale 1:500



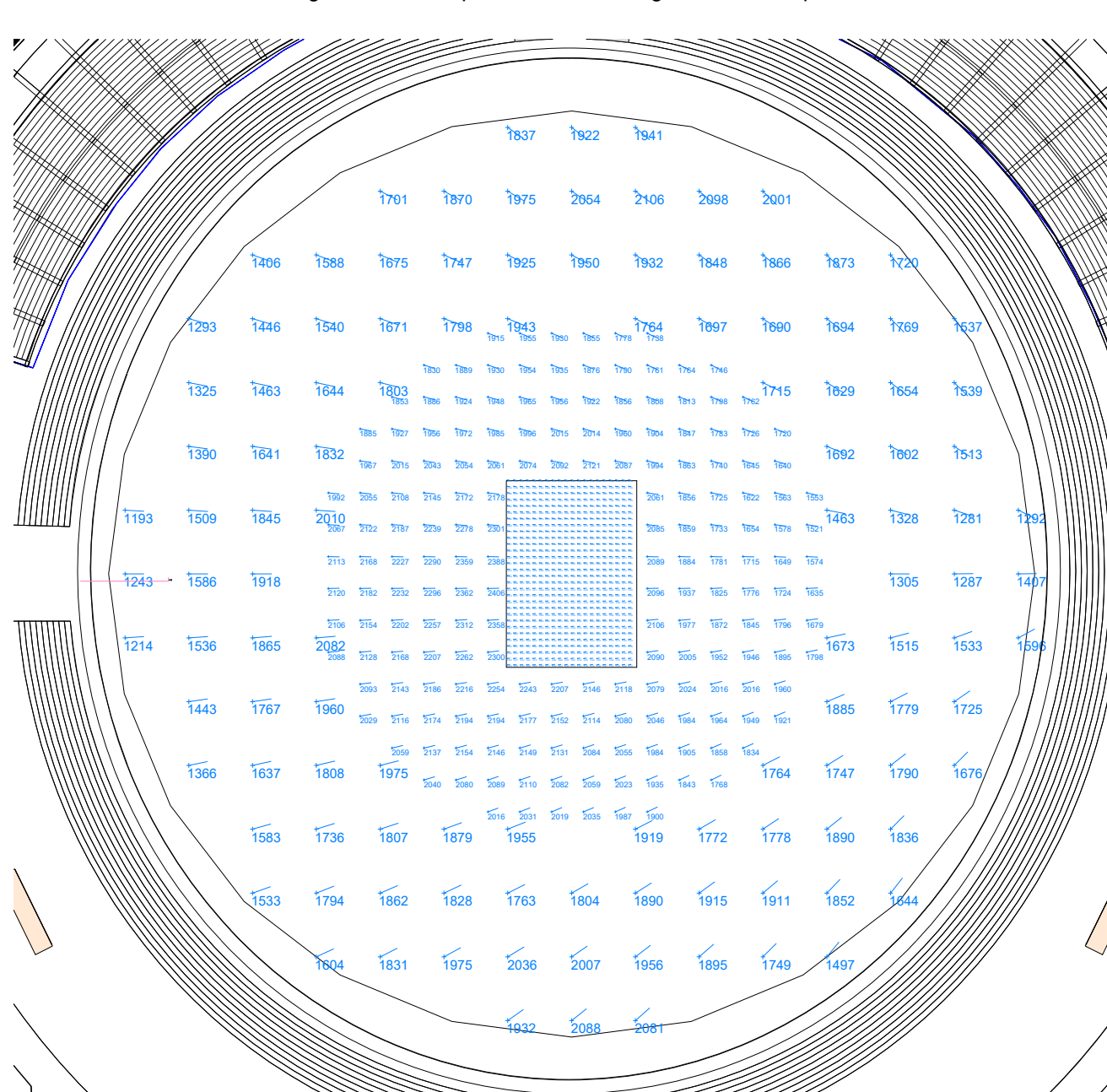
Vertical illuminance levels for camera V1.
Camera height 10m above pitch level. Grid heights 1m above pitch level.



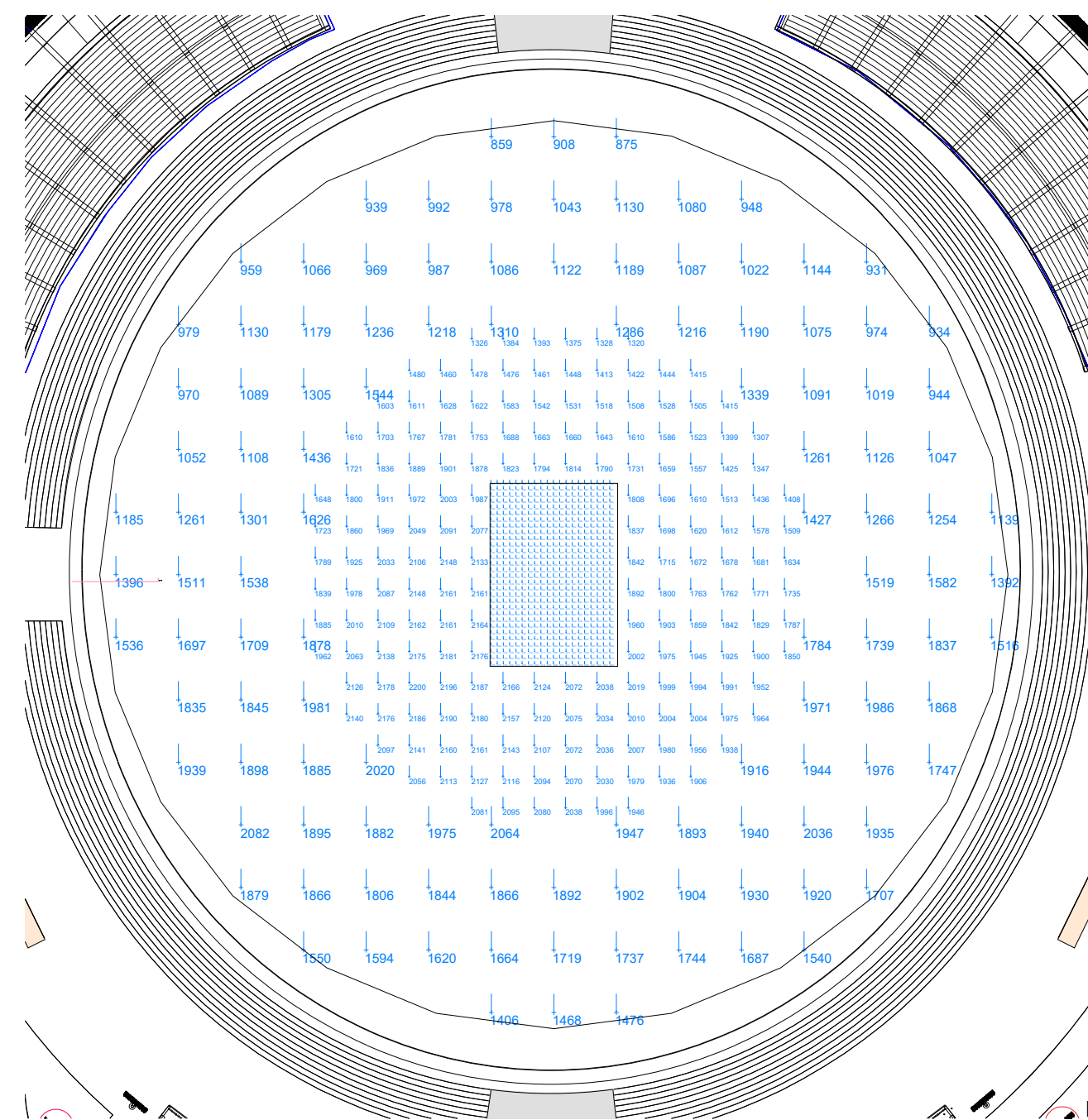
Vertical illuminance levels for camera V2.
Camera height 15m above pitch level. Grid heights 1m above pitch level.



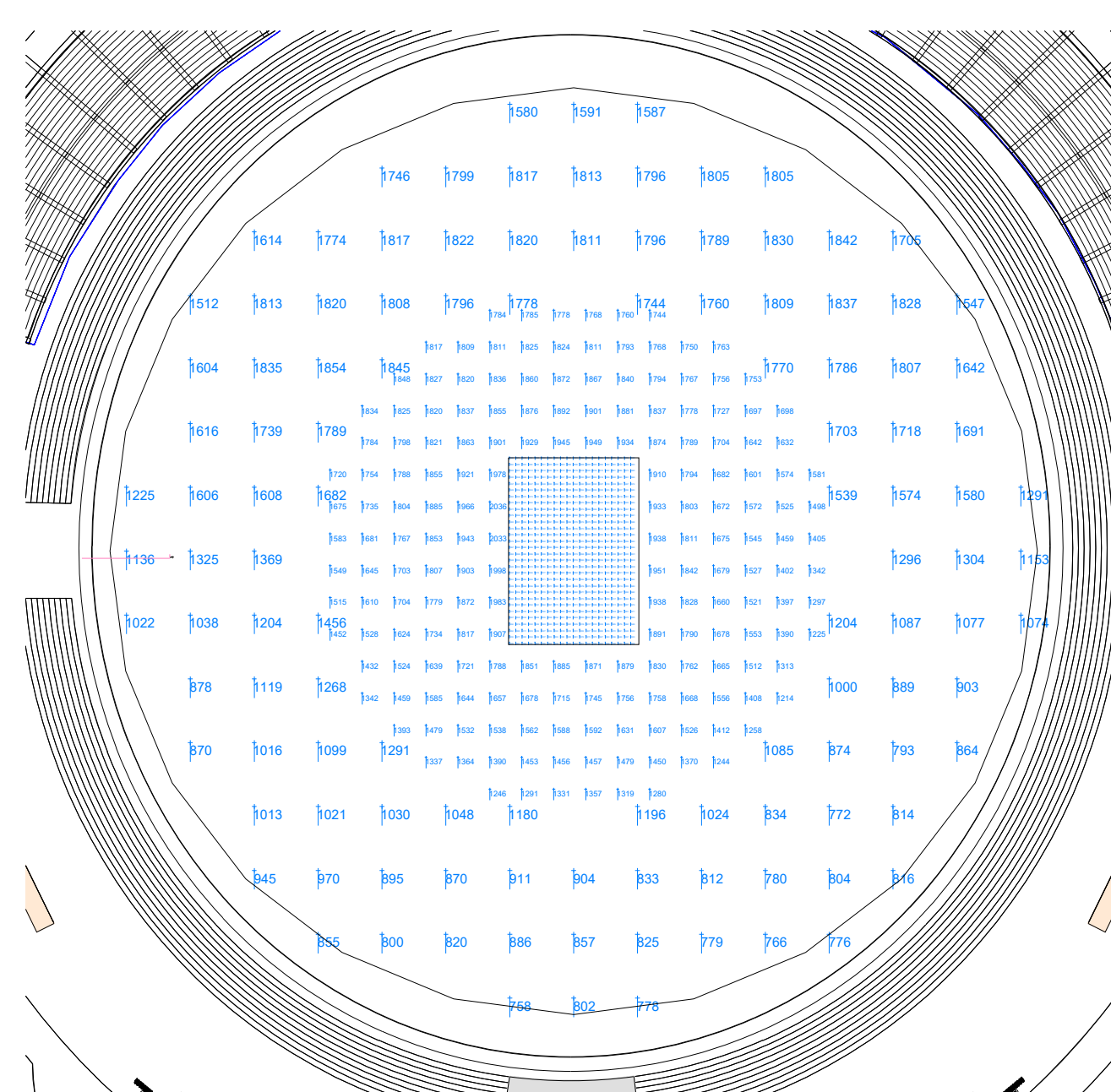
Vertical illuminance levels for camera V3.
Camera height 10m above pitch level. Grid heights 1m above pitch level.



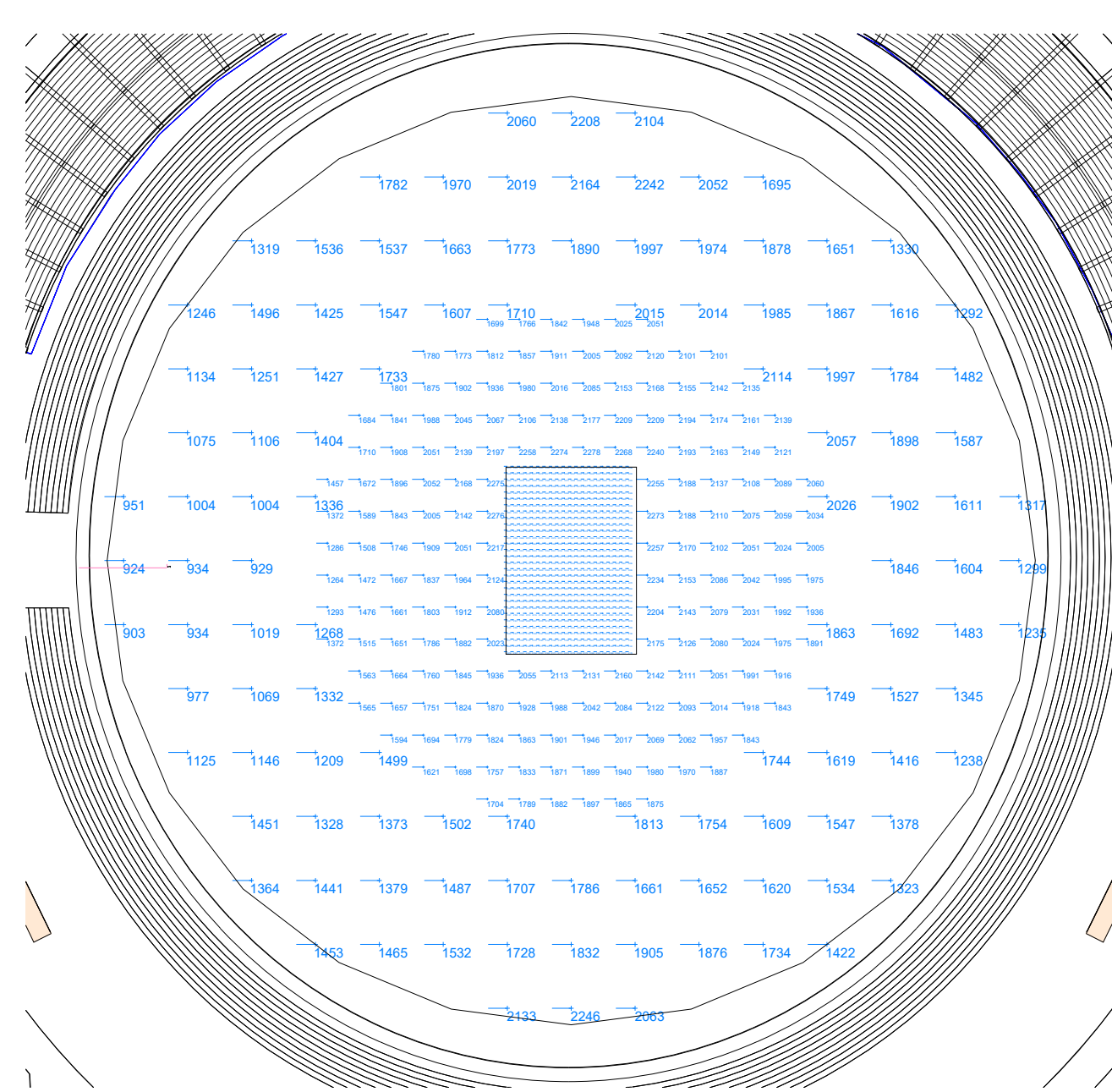
Vertical illuminance levels for camera V4.
Camera height 6m above pitch level. Grid heights 1m above pitch level.



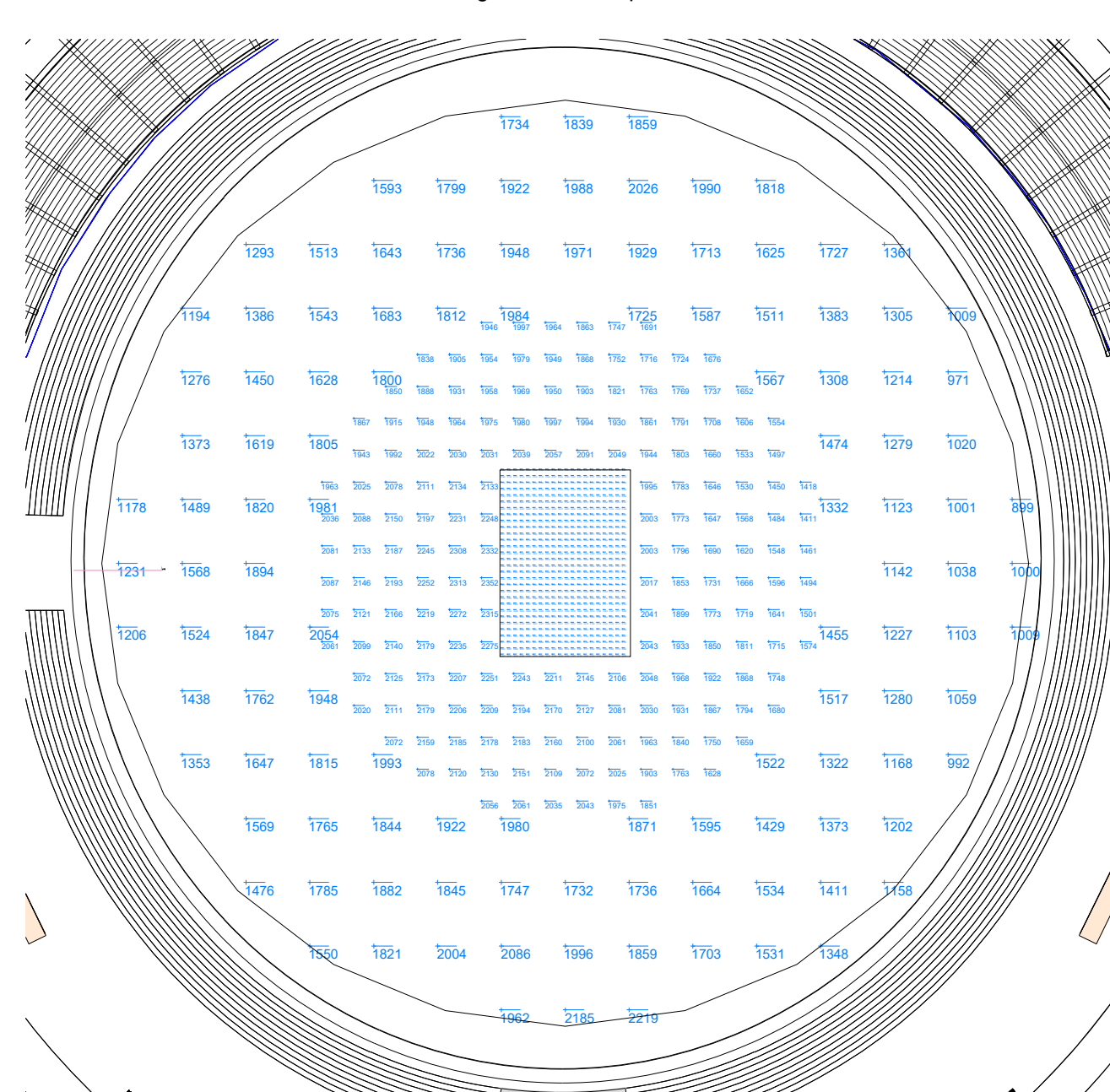
Vertical illuminance levels for direction A.
Grid heights 1m above pitch level.



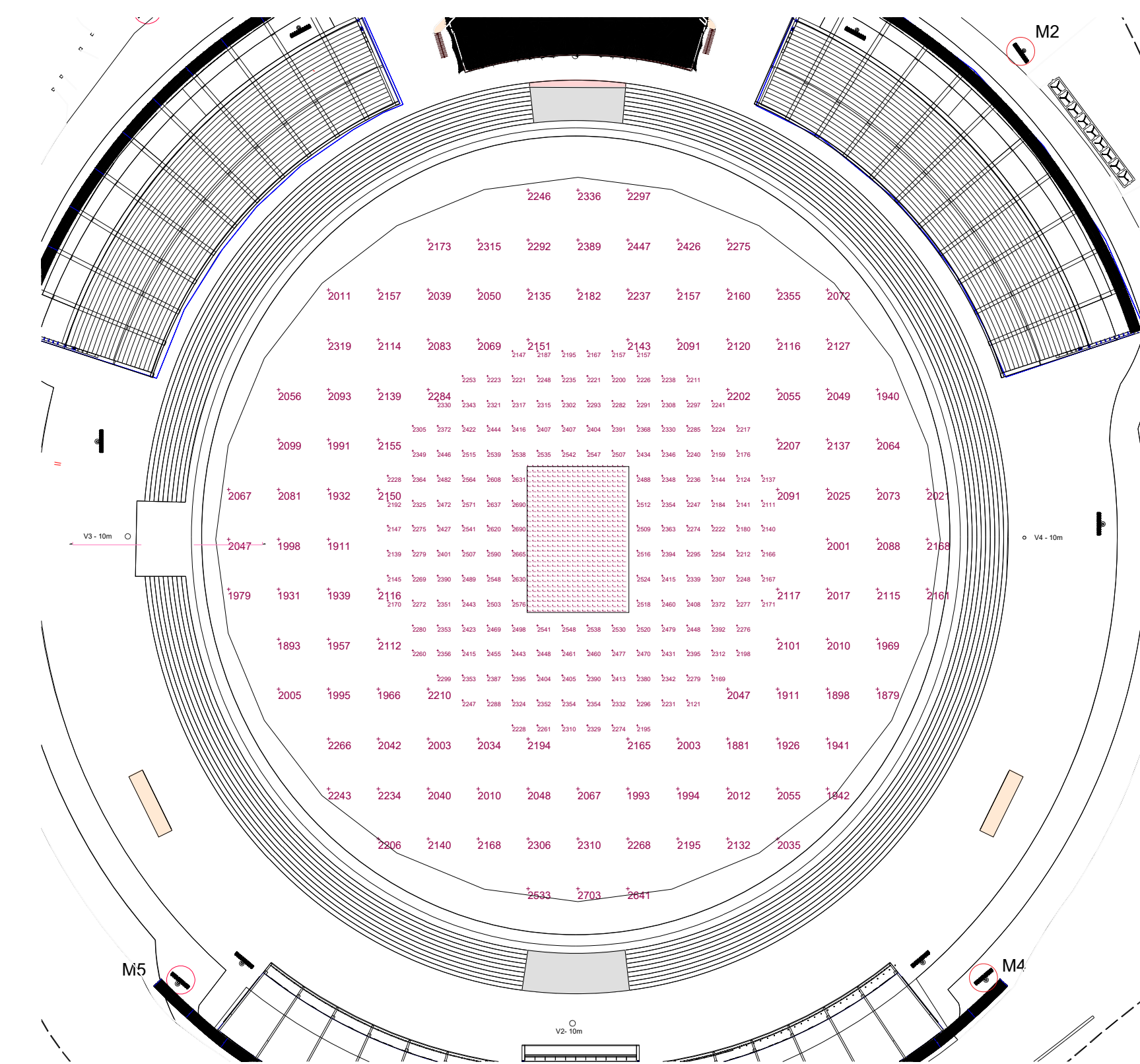
Vertical illuminance levels for direction B.
Grid heights 1m above pitch level.



Vertical illuminance levels for direction C.
Grid heights 1m above pitch level.



Vertical illuminance levels for direction D.
Grid heights 1m above pitch level.



Horizontal illuminance levels.
Grid heights 0m above pitch level.

LIGHTING EQUIPMENT

6 x 55m Masts (From Pitch Level To The Centre Of The Headframe) Each Carrying the Following Floodlights

M1		77 x AL7131/3158575 + 3 x SH06
M2		77 x AL7131/3158575 + 3 x SH06
M3		41 x AL7131/3158575 + 3 x SH06 8 x AL7101/3158575 + 3 x SH03
M4		75 x AL7131/3158575 + 3 x SH06 9 x AL7101/3158575 + 3 x SH03
M5		74 x AL7131/3158575 + 3 x SH06 12 x AL7101/3158575 + 3 x SH03
M6		42 x AL7131/3158575 + 3 x SH06 8 x AL7101/3158575 + 3 x SH03

GROUND LEVEL OF MAST POSITIONS IN RELATION TO PITCH TO BE CHECKED TO DETERMINE MAST SIZE

Maintenance Factor: 0.85

Calculated using:

BS EN 5489 - 1:2020 Table C.1

TWC data

Initial Levels Shown

Index Contours - 50k,20k,10k,5k,2k

Notes:

A 18m block has been added to represent the stand, a full shading report will be required before an order.

This is an indicative design, and is subject to change.

Mast positions need to be checked for suitability prior to order.

Boundary locations need to be confirmed prior to order, these locations could effect the design.

Luminaire Performance:

AL7131/315857 + 3 x SH06 - 1500W - 139,653 Lumen Output - 5700K - 80CRI - T.LCI > 70

AL7101/315857 + 3 x SH03 - 1500W - 156,632 Lumen Output - 5700K - 80CRI - T.LCI > 70

Specification - ECB 2023				
Playing Area	Illuminance Levels		Uniformity	
	Horizontal Illuminance (Ev ave)		U1	U2
Wicket	2500		0.6	0.75
Infield	2250			
Outfield	2000			

Specification - ECB 2023				
Playing Area	Illuminance Levels		Uniformity	
	Vertical Illuminance to Main Cameras (Ev ave)		U1	U2
Wicket	2200		0.6	0.75
Infield	1800		0.55	0.7
Outfield	1500		0.5	0.65

Specification - ECB 2023				
Playing Area	Illuminance Levels		Uniformity	
	Vertical Illuminance Directional (Ev ave)		U1	U2
Wicket	1500		0.6	0.7
Infield	1250		0.4	0.6
Outfield	1000		0.4	0.55

		Vertical Illuminance				Horizontal Illuminance			
		Ev ave		uniformity		Eh ave		uniformity	
		initial	maintained	U1	U2	initial	maintained	U1	U2
Wicket	Fixed Camera V1 - 10m high	2160	2052	0.88	0.92	2694	2559	0.92	0.95
	Fixed Camera V2 - 15m high	2245	2133	0.89	0.94				
	Fixed Camera V3 - 10m high	2436	2305	0.88	0.93				
	Fixed Camera V4 - 6m high	2329	2213	0.86	0.92				
	Direction A	2034	1932	0.84	0.9				
Infield	Direction B	2069	1966	0.91	0.94	2383	2264	0.78	0.89
	Direction C	2298	2183	0.86	0.9				
	Direction D	2275	2161	0.87	0.93				
	Fixed Camera V1 - 10m high	1977	1878	0.66	0.77				
	Fixed Camera V2 - 15m high	1934	1837	0.66	0.79				
Outfield	Fixed Camera V3 - 10m high	2074	1970	0.61	0.71	2124	2018	0.7	0.89
	Fixed Camera V4 - 6m high	2056	1953	0.62	0.75				
	Direction A	1847	1755	0.59	0.71				
	Direction B	1718	1632	0.58	0.71				
	Direction C	1957	1859	0.55	0.65				
	Direction D	2014	1913	0.59	0.71				
	Fixed Camera V1 - 10m high	1595	1515	0.52	0.69				
	Fixed Camera V2 - 15m high	1592	1512	0.55	0.69				
	Fixed Camera V3 - 10m high	1733	1646	0.54	0.68				
	Fixed Camera V4 - 6m high	1471	1397	0.41	0.58				
	Direction A	1471	1397	0.41	0.58				
	Direction B	1339	1272	0.4	0.57				
	Direction C	1574	1495	0.4	0.57				
	Direction D	1592	1512	0.41	0.57				

This is an indicative design, and is subject to change.

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Lighting Project: Utilita Bowl - Southampton

Title: Stadium lighting design

Design Ref: LS4065974/12

Design By: James Fogg

Date: 25/06/2026

Scale: 1:1000/A0

Revision(s) From Previous Design:

Rev (0) - Different shield type applied

Rev (1) - 6 mast system, larger boundary size

Rev (11) - Updated photometry applied

Rev (12) - Changed mast positions as per customer request

All illuminance values are the result of computer calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerance on luminaires, luminaire positioning, reflection properties and electrical supply.