



Appendix 12.2

SOLAR GLARE ASSESSMENT

2-4 Whitworth Street, Manchester

24 October 2024

GIA No: **21286**

PROJECT DATA:

Client **Glenbrook property**
Architect **Sheppard Robson**
Project Title **2-4 Whitworth Street, Manchester**
Project Number **21286**

REPORT DATA:

Report Title **Solar Glare Assessment**
Appendix Number: **Appendix**
Dated **24 October 2024**

Prepared by **KB**
Checked by **KST**
Type **eS Appendix**

Revisions	No:	Date:	Notes:	Signed:

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SOURCES OF INFORMATION:

Information Received **iR-07-21286**
Release Number **Rel_08_21286_dSd**
Issue Number **03**
Site Photos **GiA**
3D models **VU.CiTY**
OS Data **Find Maps**



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OS 100047514

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1 SCEnARiO OvERView



Fig. 01: Site Overview - Top

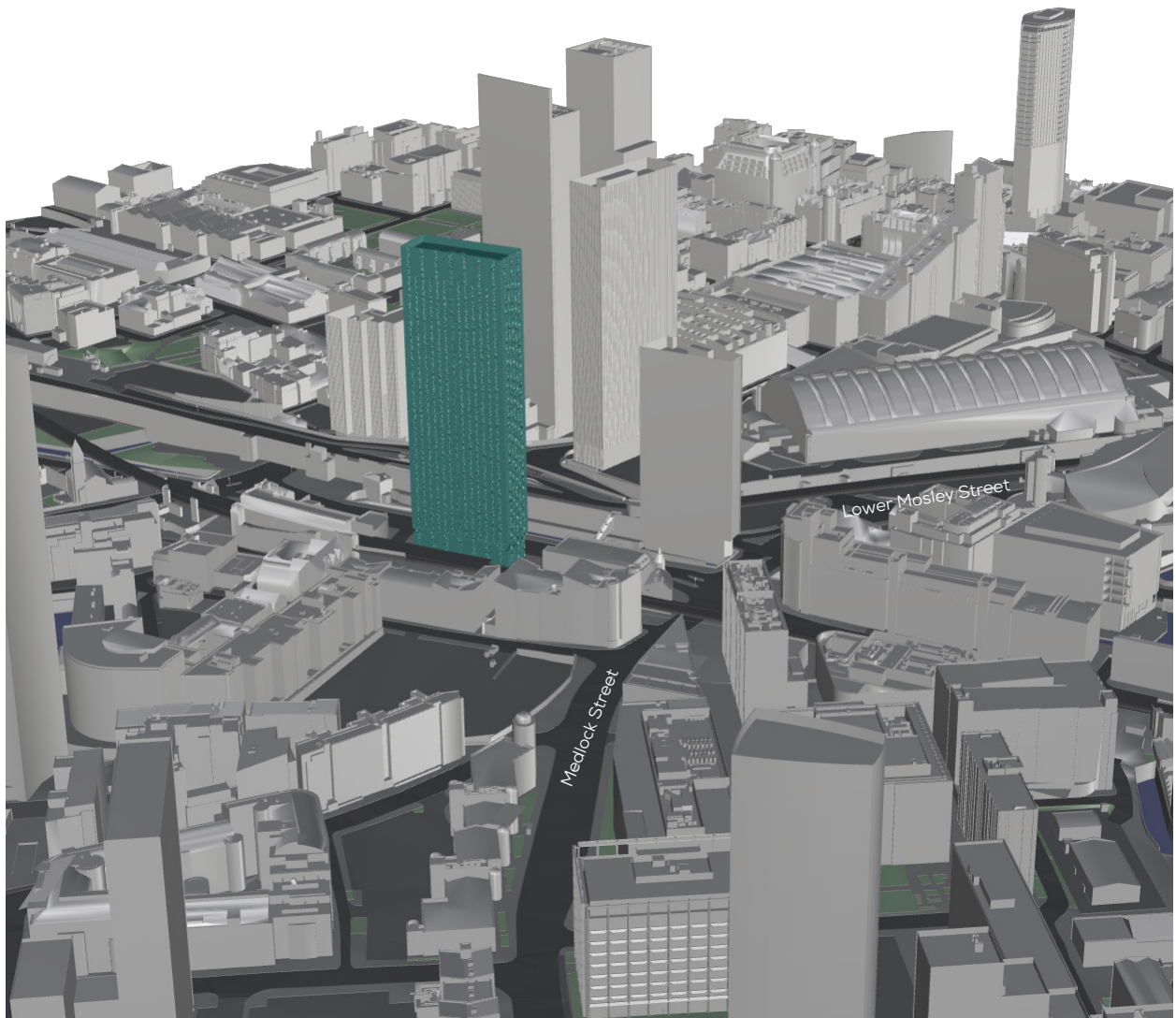


Fig. 02: Site Overview - Perspective

2 LOCATiOn OF Sen SiTiVe pOinTS

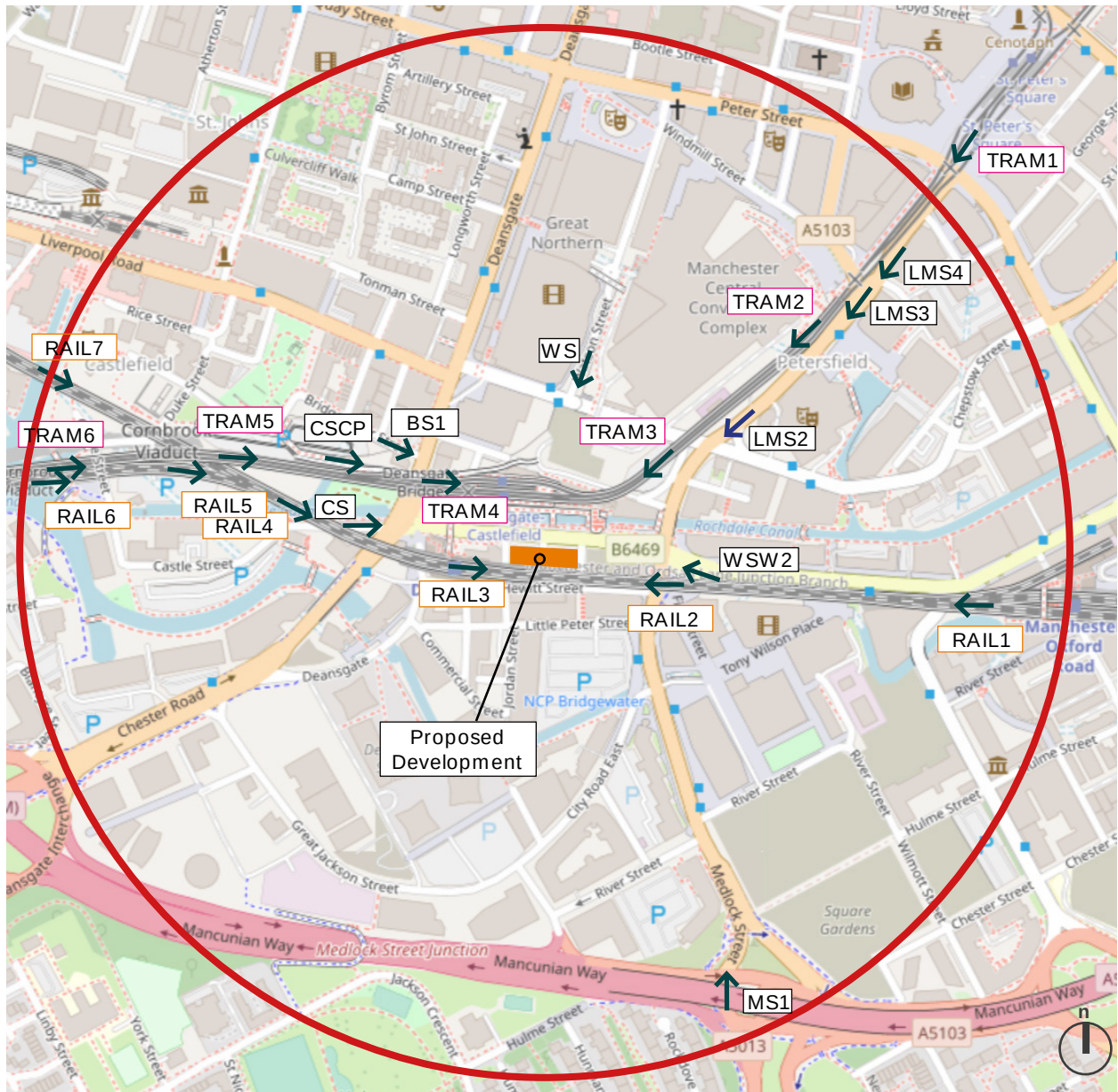


Fig. 03: Receptor Map

➡ Building visible from the viewpoint

Viewpoints Key

CS - Castle Street junction with Bridgewater Viaduct

CSCP - Collier Street Car Park pedestrian crossing

BS1 - Bridgewater Street junction with Deansgate

WS - Watson Street junction Great Bridgewater Street

LMS4 - Lower Mosley Street junction with Bishopsgate

LMS3 - Lower Mosley Street pedestrian crossing

LMS2 - Lower Mosley Street junction with Great Bridgewater Street

WSW2 - Whitworth Street West junction with Medlock Street

MS1 - Medlock Street Junction

TRAM 1-3 - selected viewpoints on the tram tracks (Southbound to Deansgate- Castlefield)

TRAM 4-6 - selected viewpoints on the tram tracks (Eastbound to Deansgate- Castlefield)

RAIL 1-2 - selected viewpoints on the train tracks (Westbound to Deansgate)

RAIL 3-7 - selected viewpoints on the train tracks (Eastbound to Deansgate)

3 SOLAR GLARe ASSeSSMenT

60° FieLd OF VieW: TiMe OF dAY
VieWpOinT CS - LOOKinG FORWARd

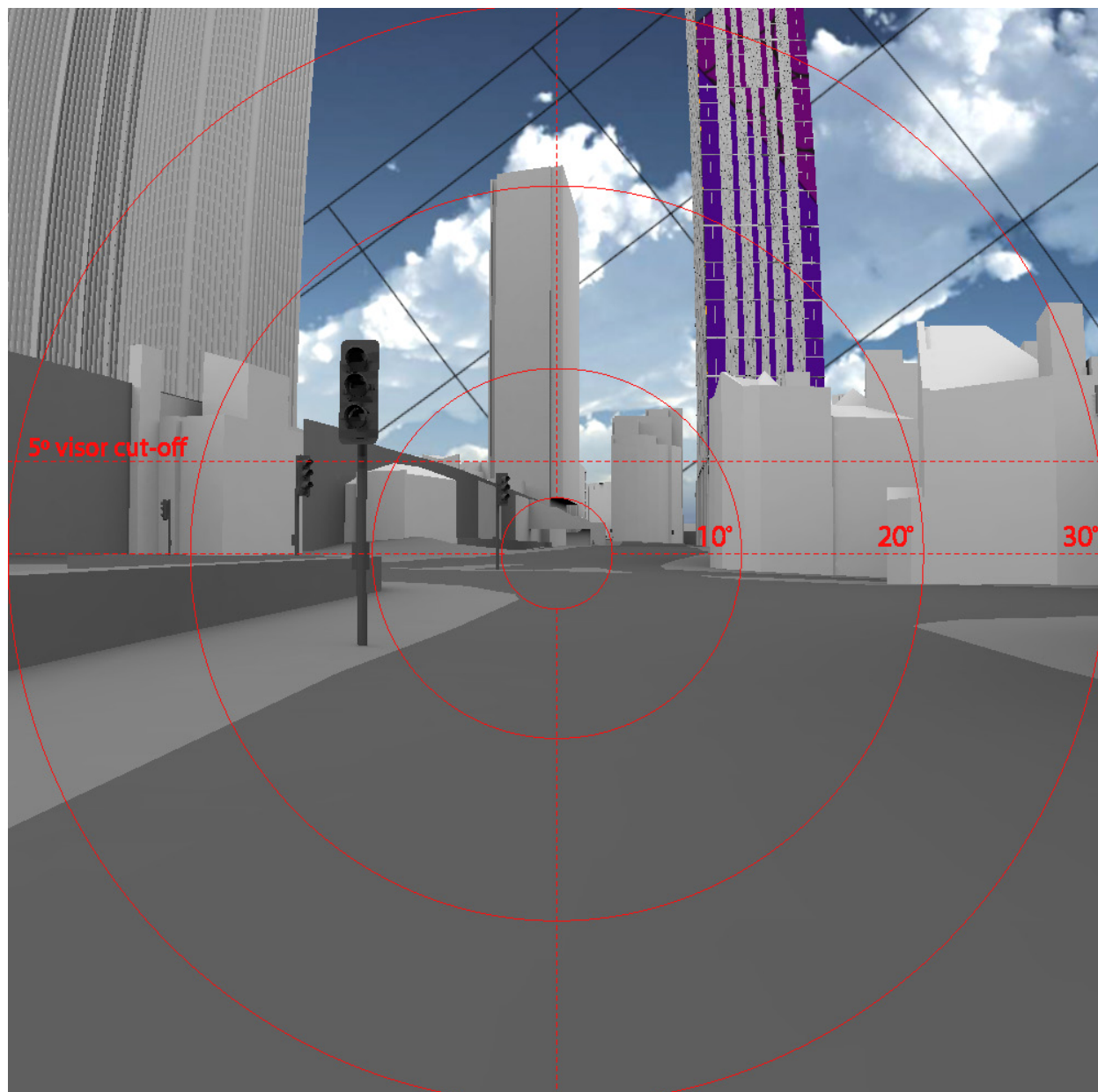
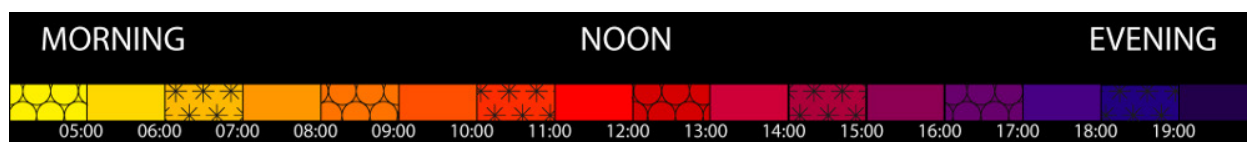


Fig. 04: Solar reflections



60° Field Of View: SeASOn
ViewpOinT CS - LOOKinG FORWARD

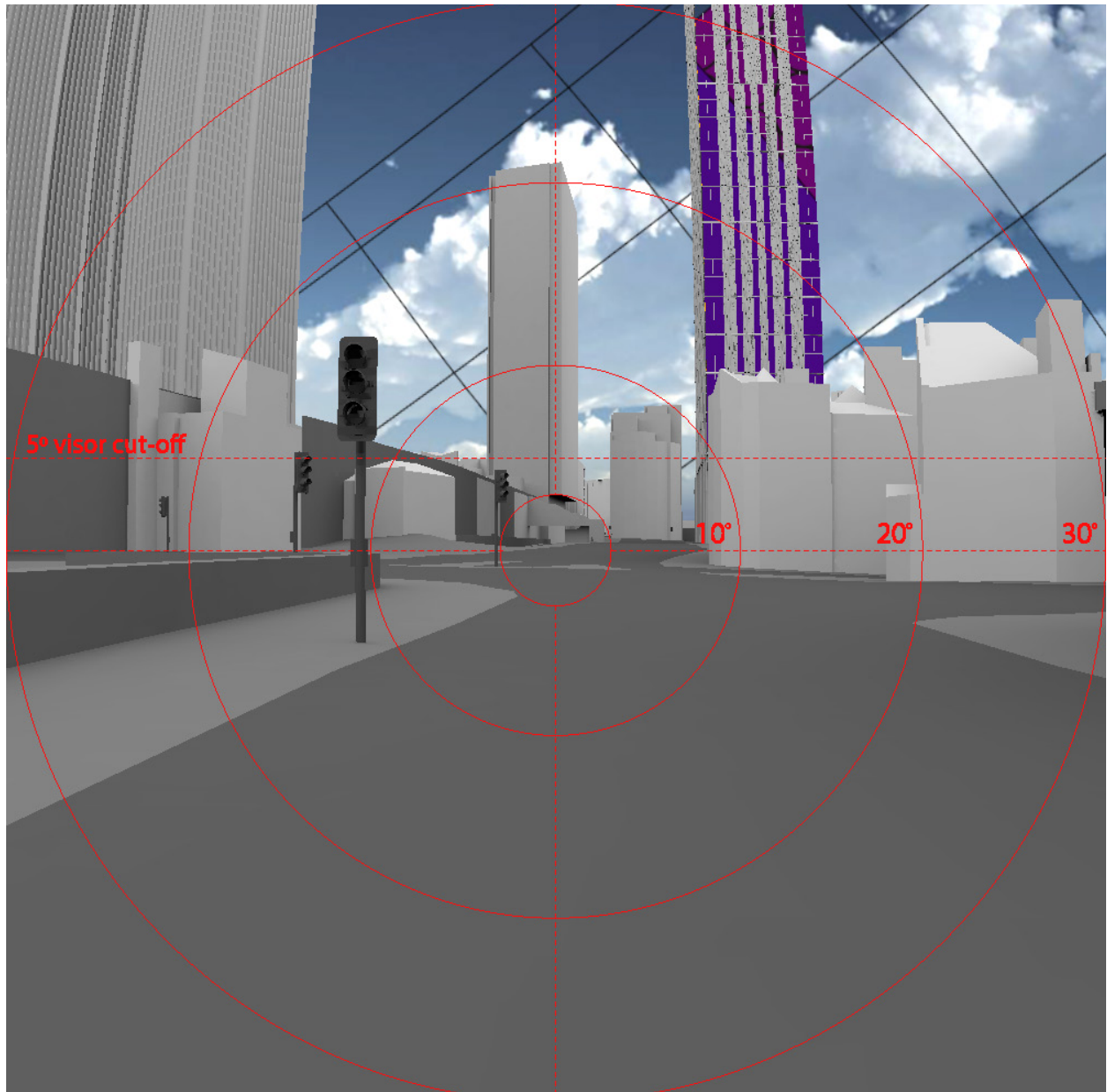


Fig. 05: Solar reflections



60° Field OF View: TIME OF dAY
ViewPOinT CSCpa - LOOKin G FORWARD

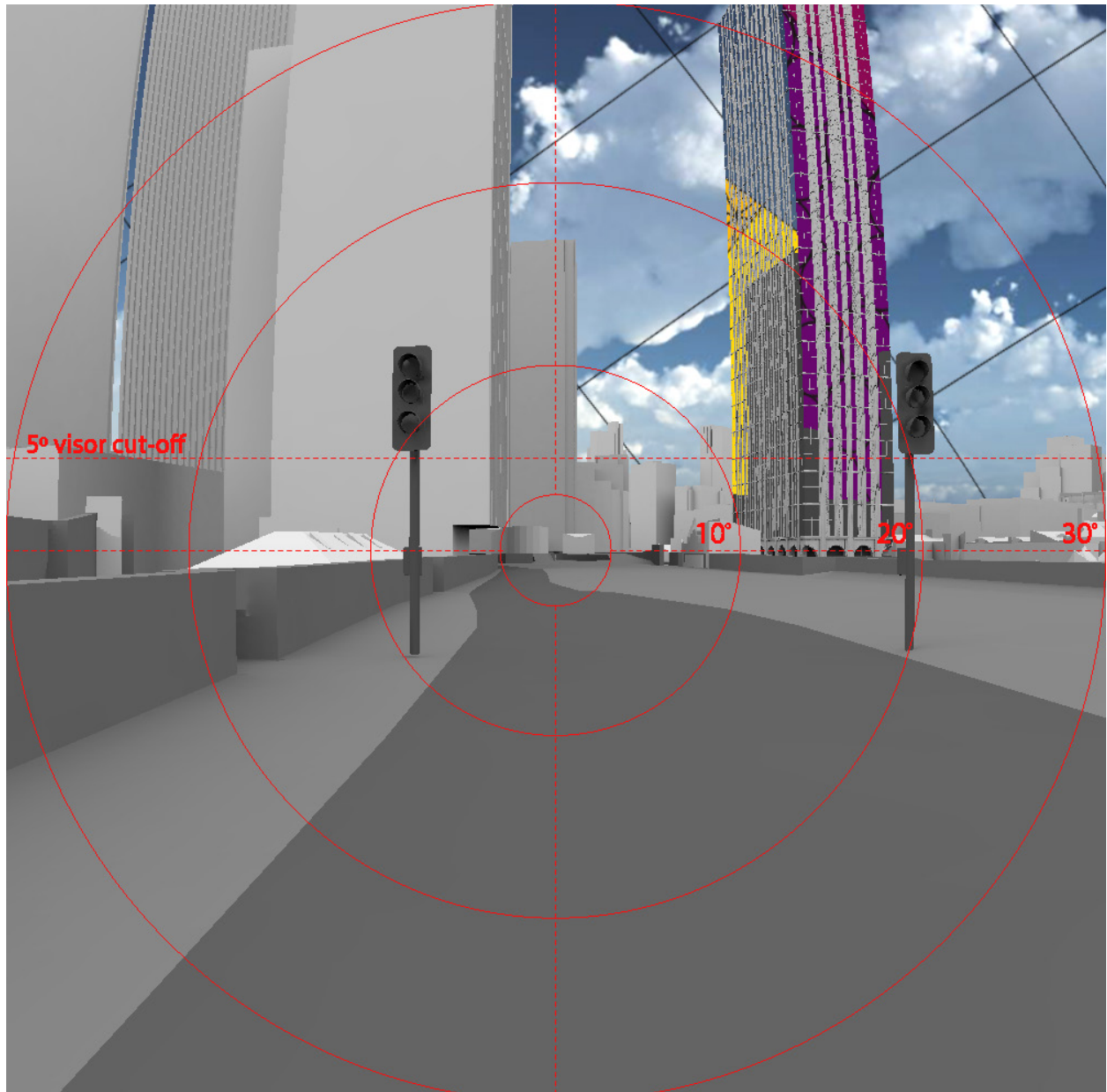
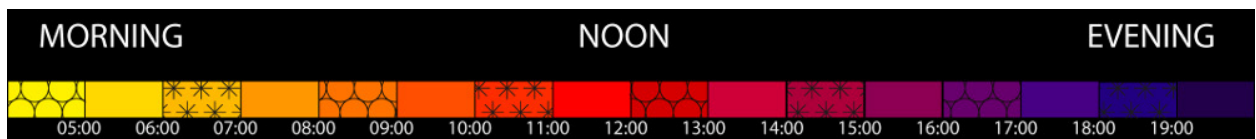


Fig. 06: Solar reflections



60° Field Of View: SeASOn
ViewpOinT CSCpa - LOOKinG FORWARD

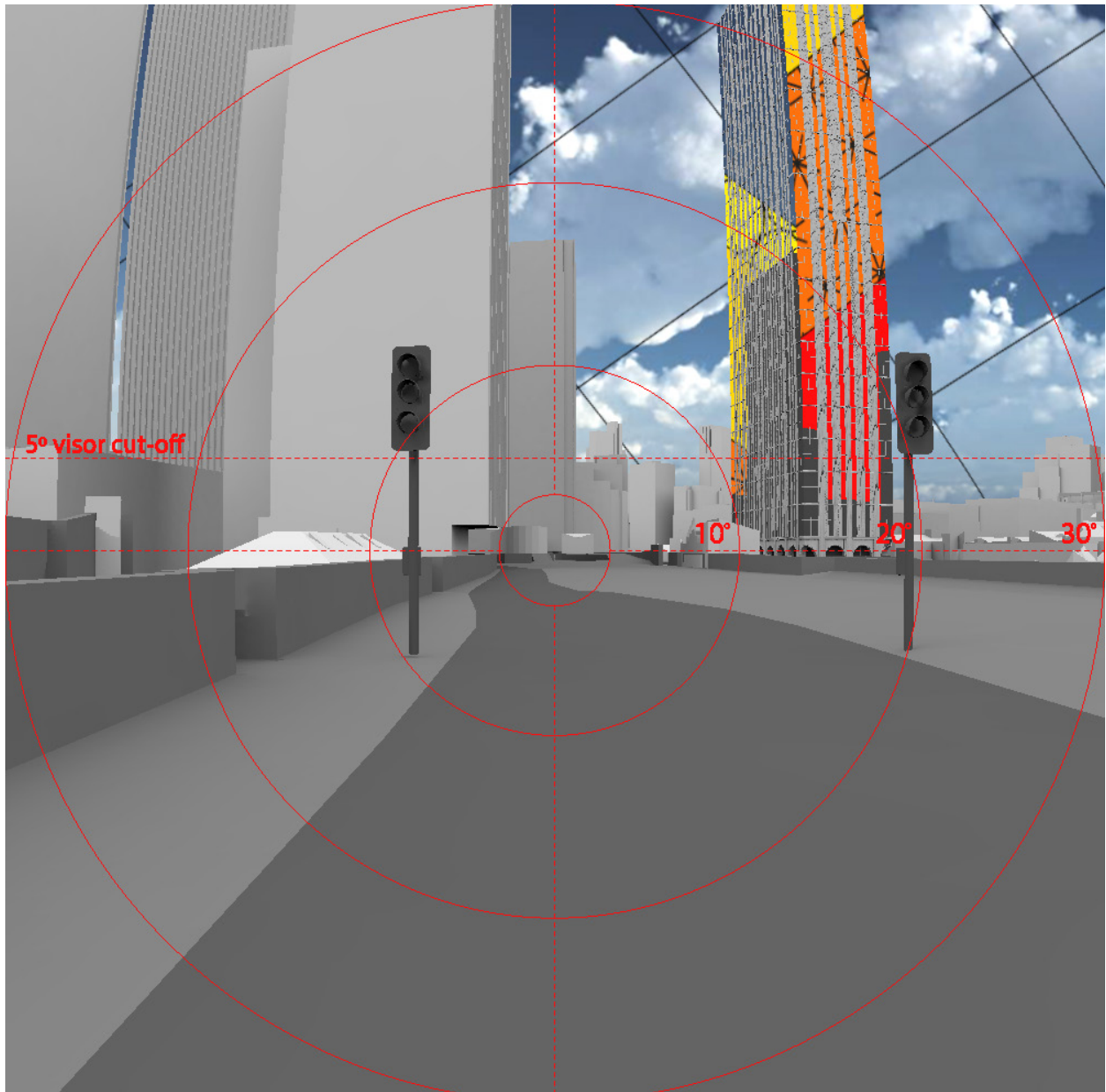


Fig. 07: Solar reflections



60° Field OF View: Time OF dAY
ViewPOinT CSCpb - LOOKin G AT RiGhT TRAFFiC LiGh TS

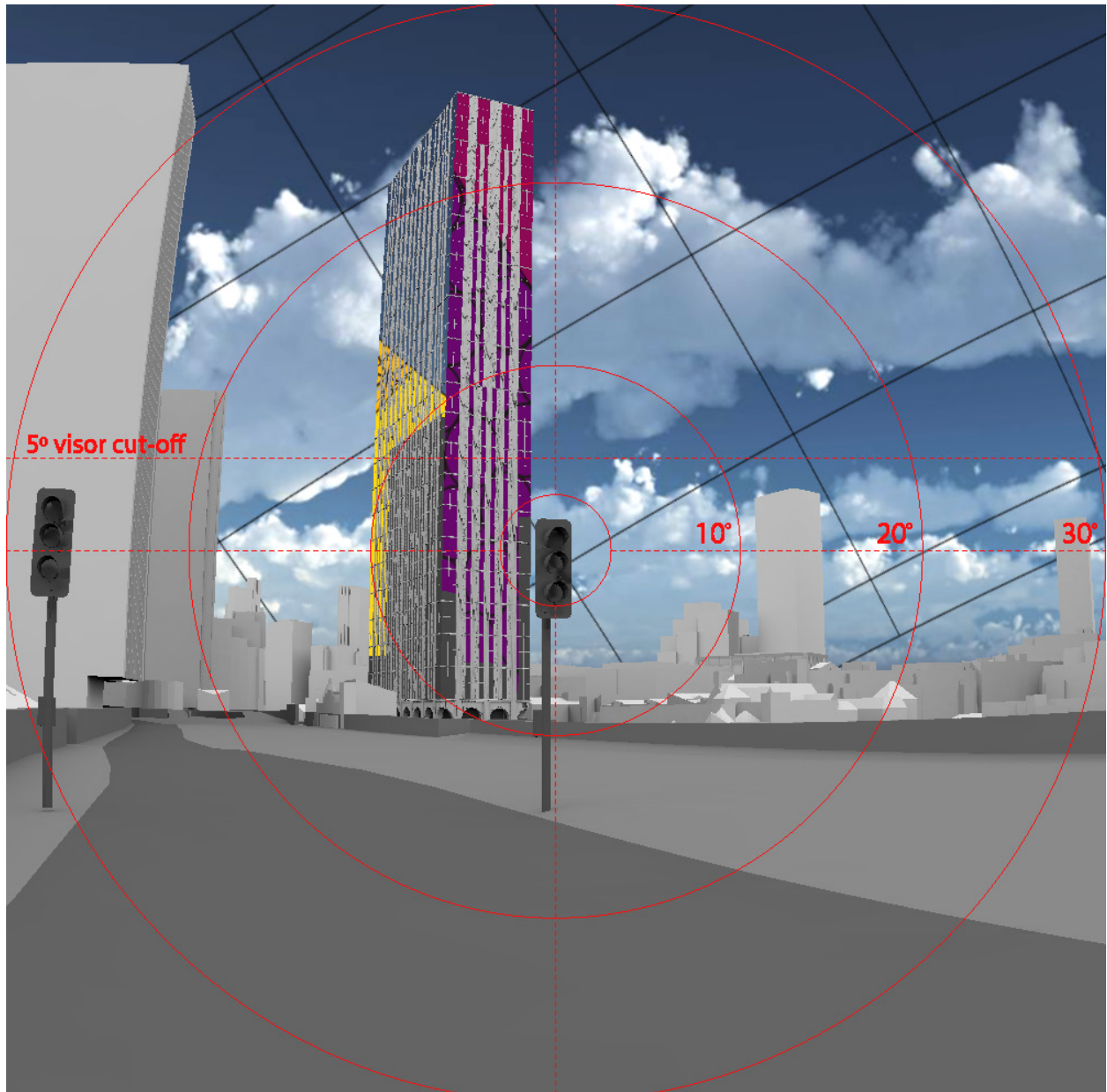
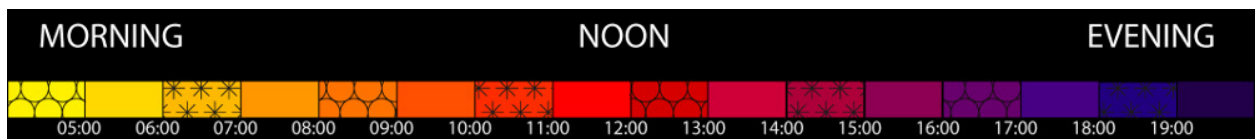


Fig. 08: Solar reflections



60° Field Of View: Season

Viewpoint CSCpb - Looking At Right Traffic Lights

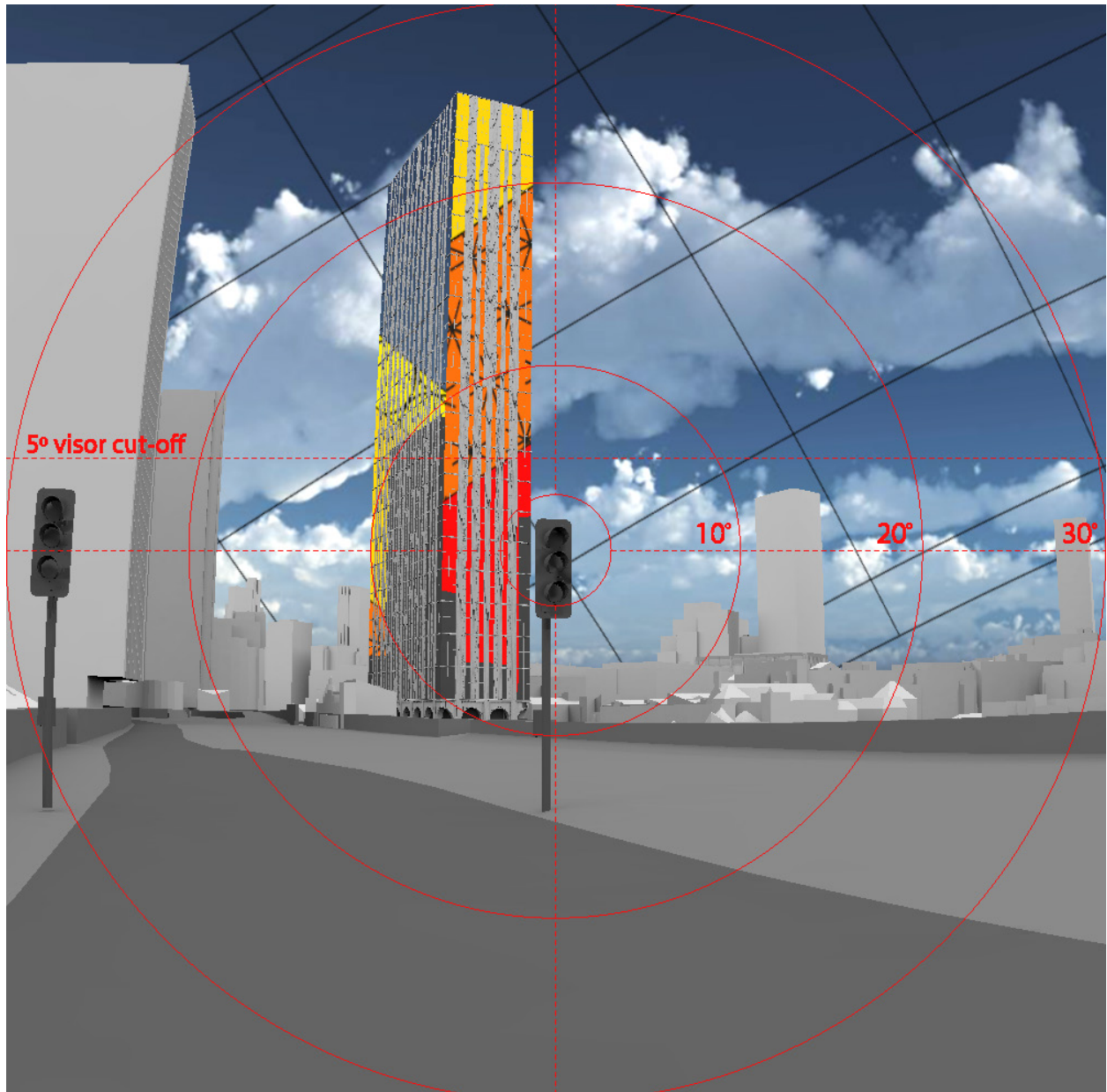


Fig. 09: Solar reflections



60° Field Of View: Time Of day
Viewpoint BS1 - LOOKING FORWARD

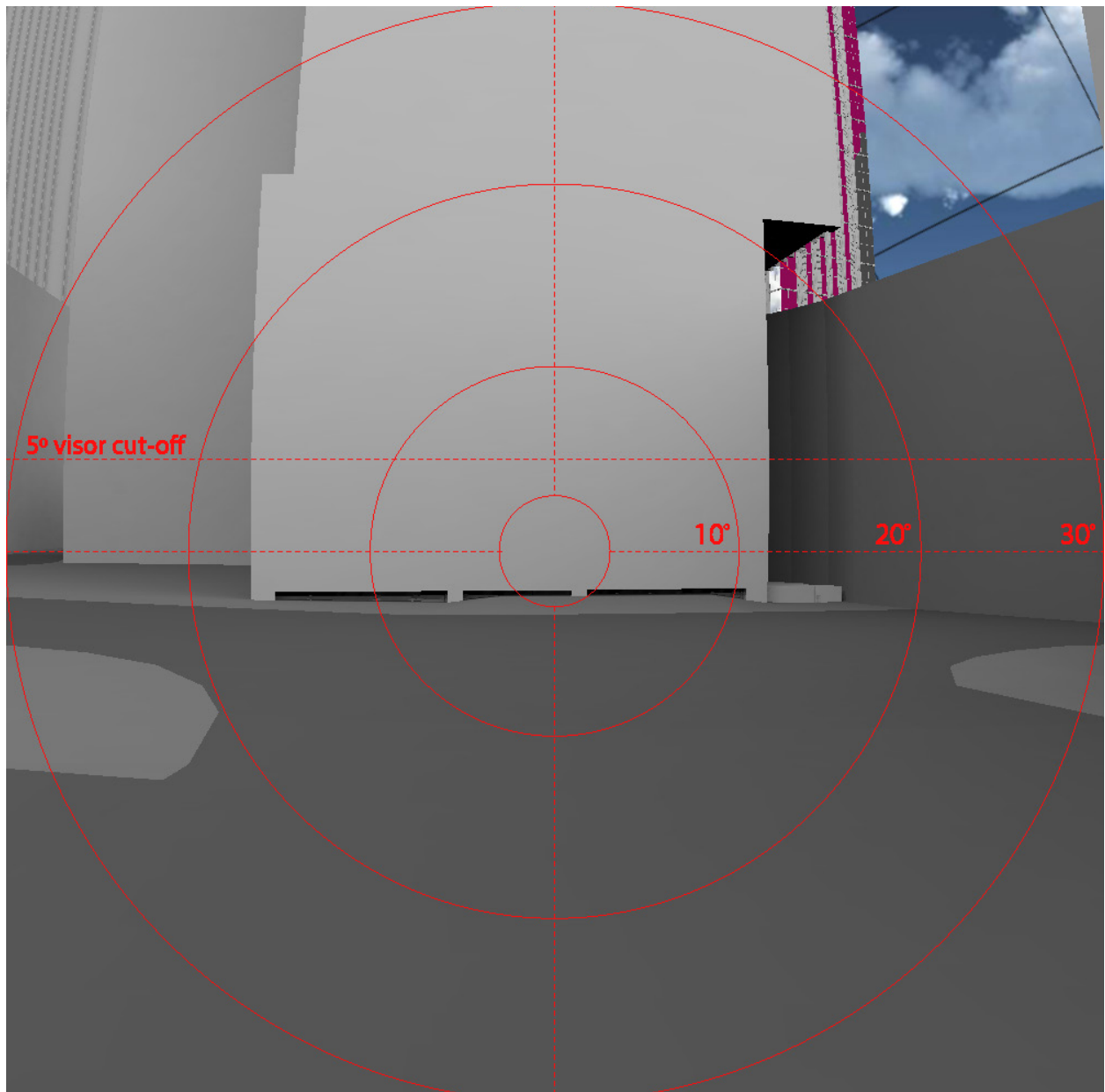
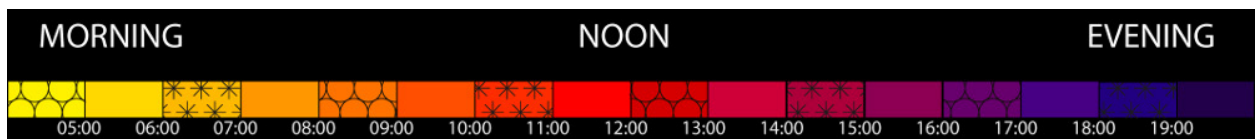


Fig. 10: Solar reflections



60° Field Of View: SeASOn
ViewpOinT BS1- LOOKinG FORWARD

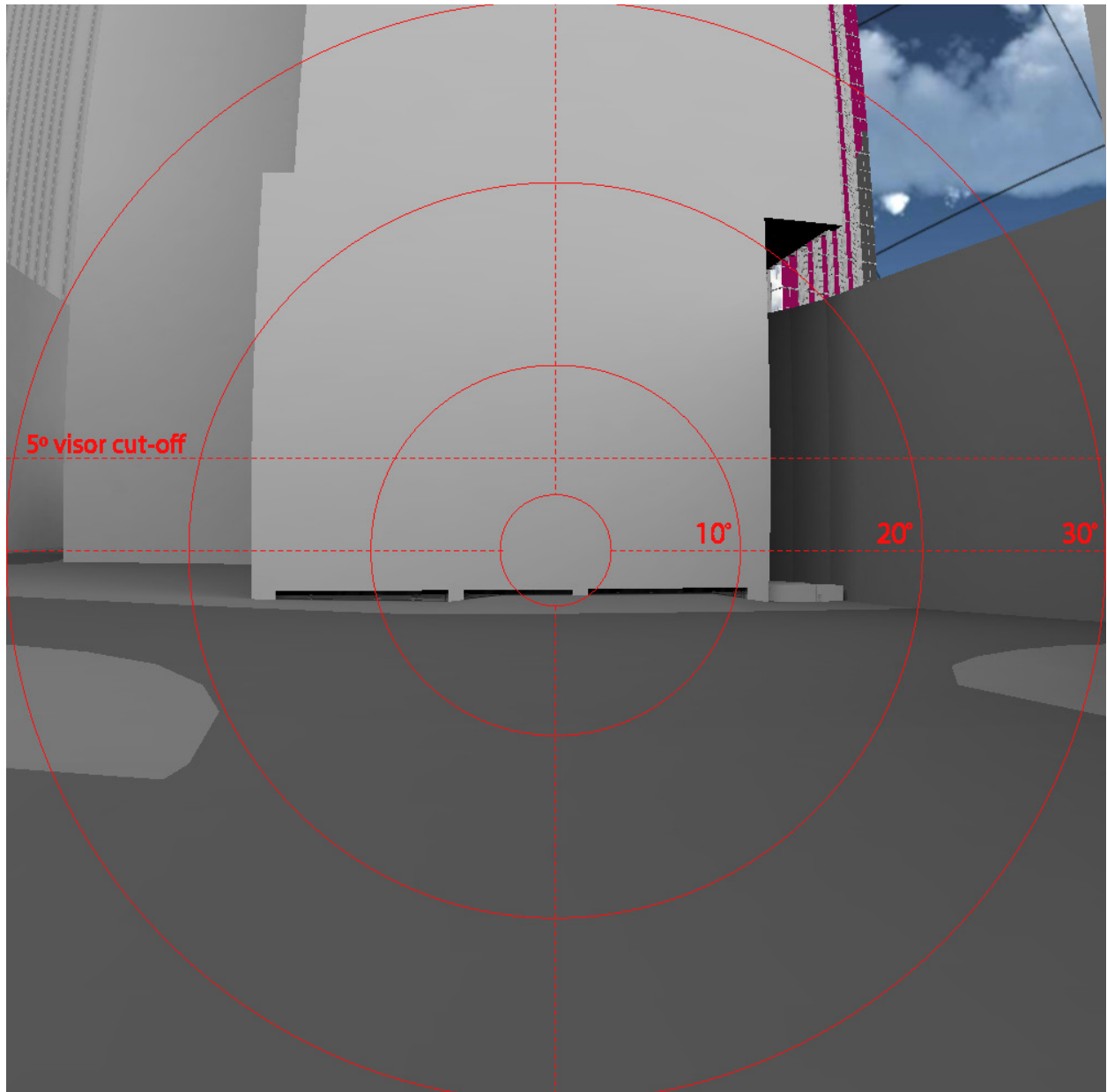


Fig. 11: Solar reflections



60° Field OF View: Time OF dAY
ViewPOinTWS - LeFT LANE, LOOKin G FORWARD

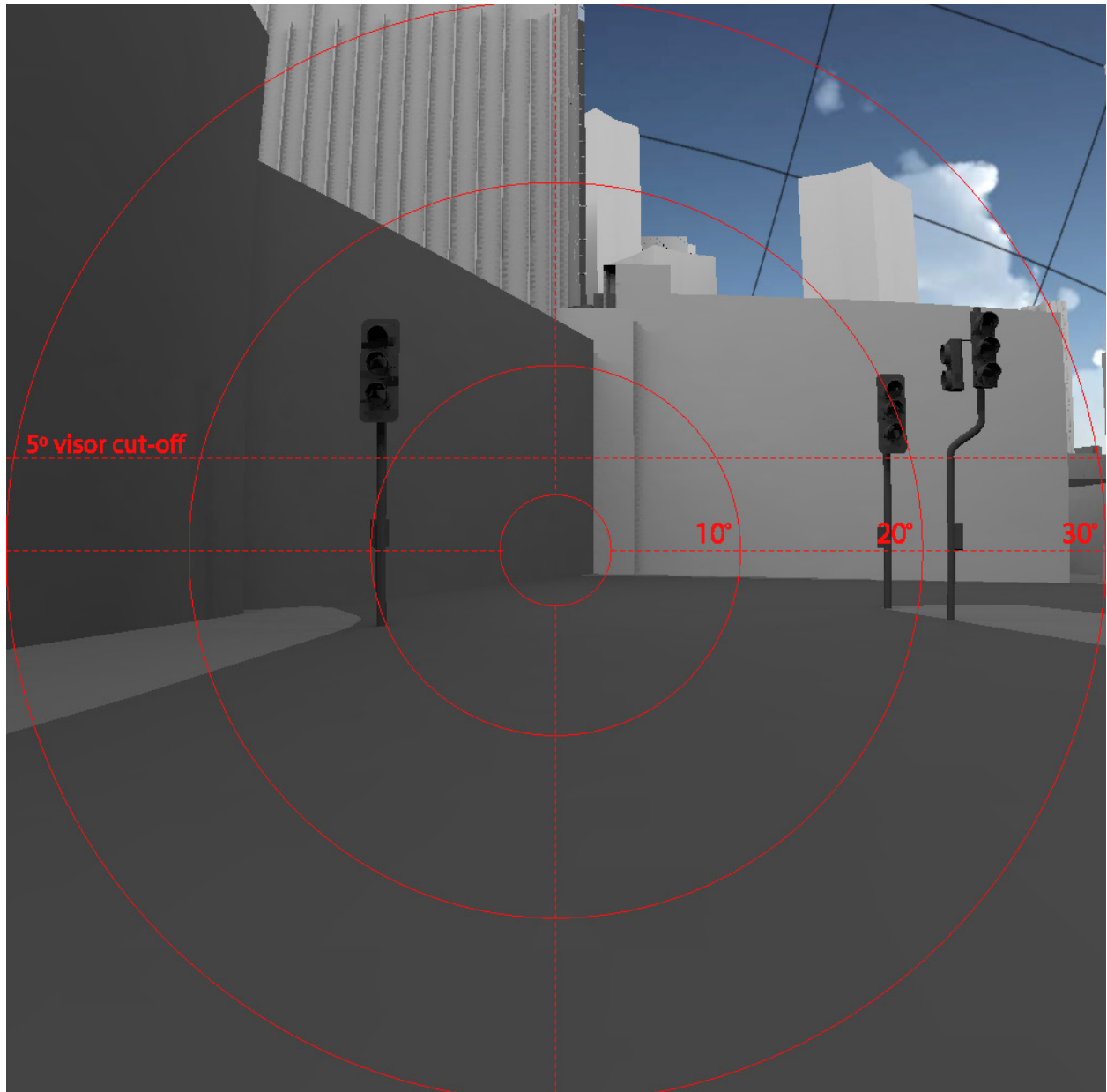
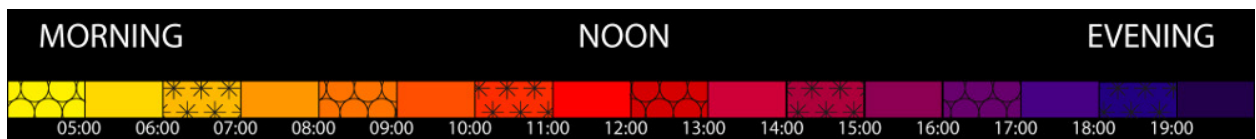


Fig. 12: Solar reflections



60° Field Of View: SeASOn
ViewpOinT WS - LeFT LANE, LOOKin G FORWARD

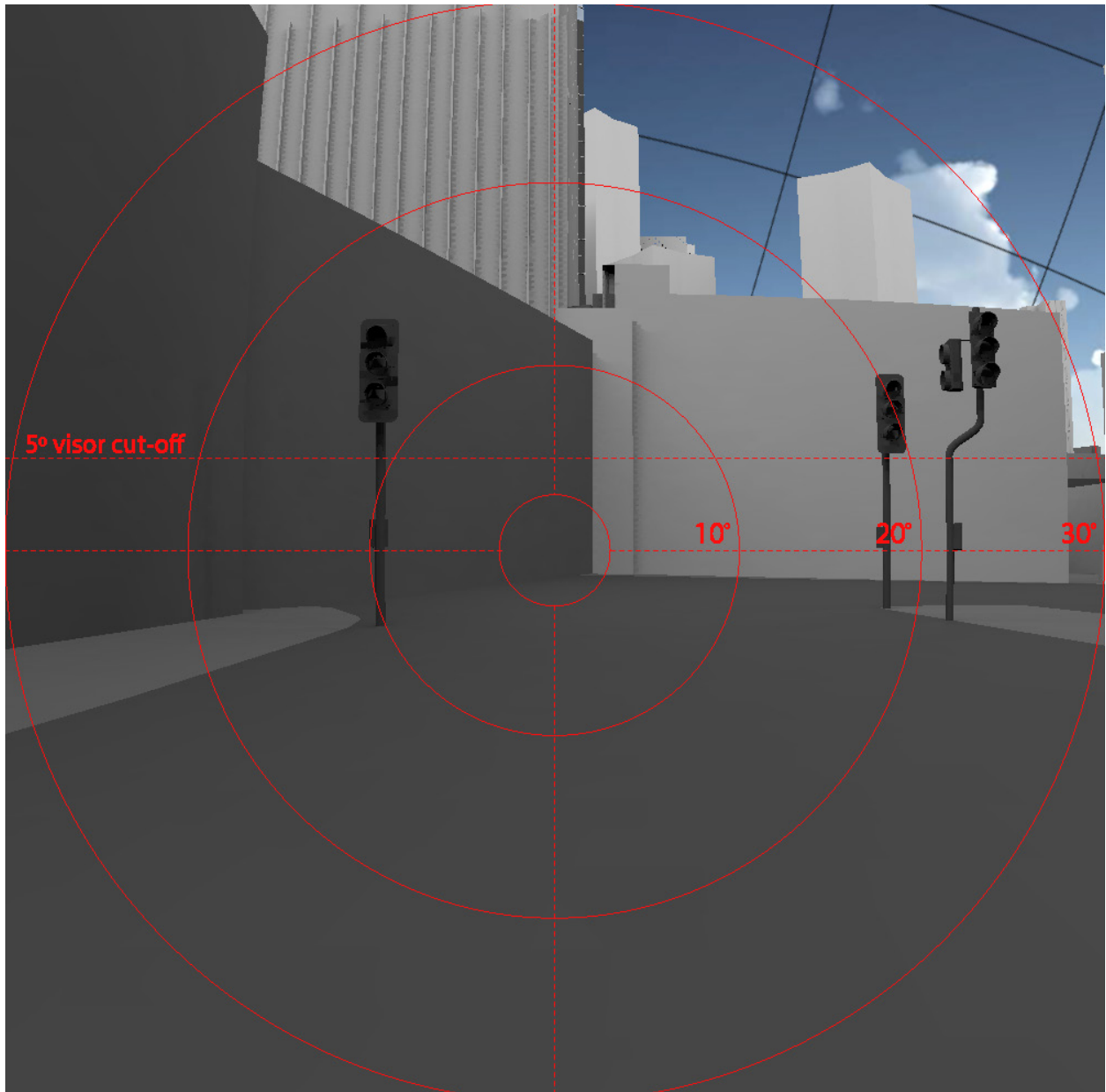


Fig. 13: Solar reflections



60° Field OF View: Time OF day
ViewPOinT LMS4a - LOOKin G FORWARD

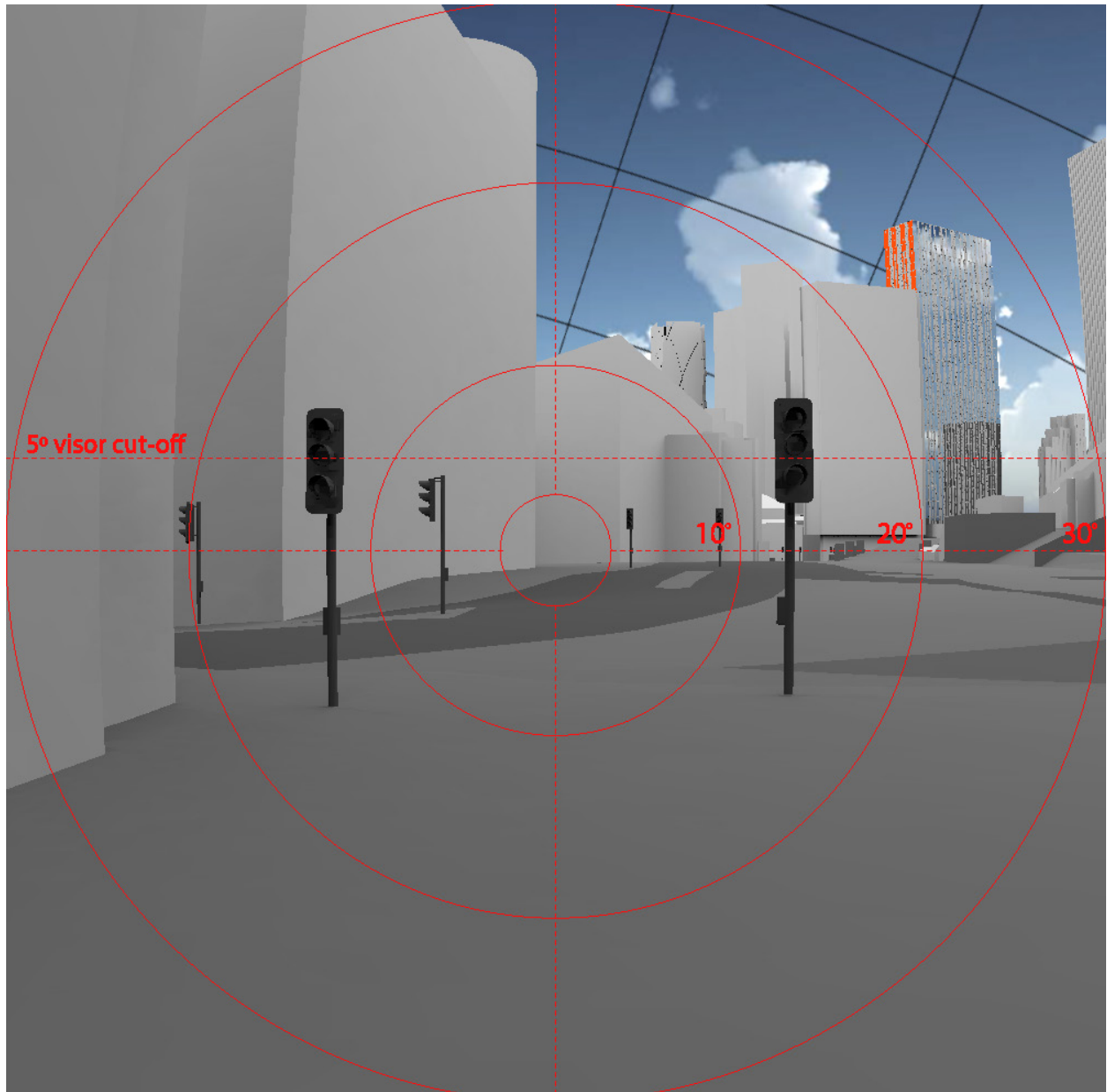
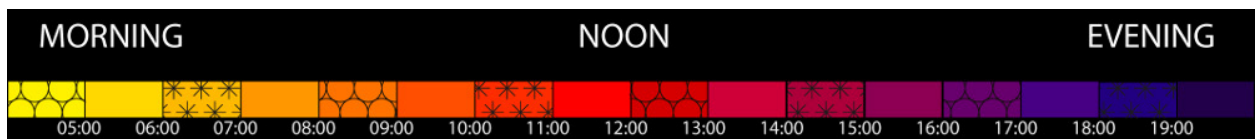


Fig. 14: Solar reflections



60° Field Of View: SeASOn
ViewpOinT LMS4a - LOOKin G FORWARD

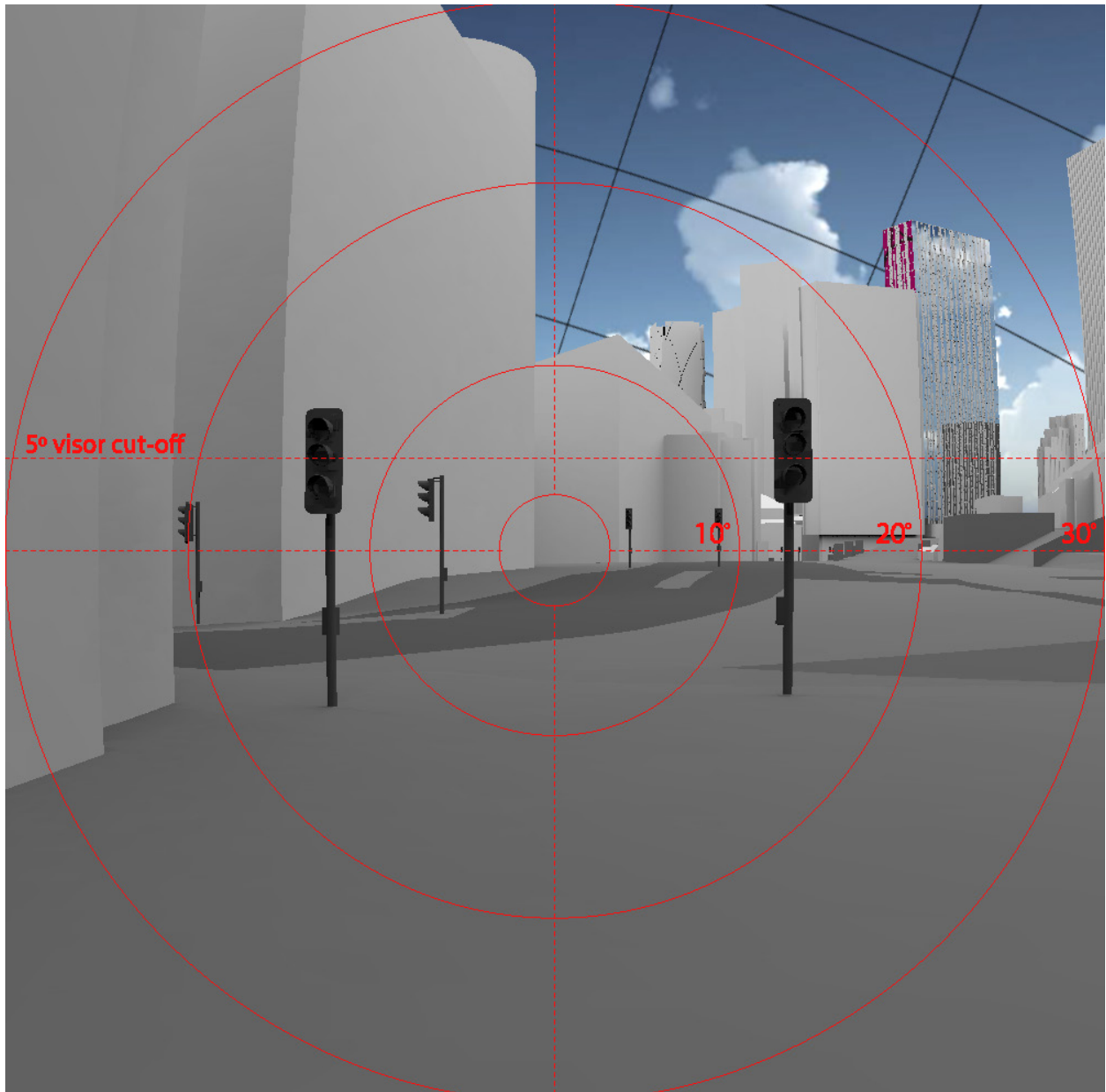


Fig. 15: Solar reflections



60° Field Of View: Time Of day
ViewPoint LMS4b - LOOKin G AT RiGh T TRAFFiC LiGh TS

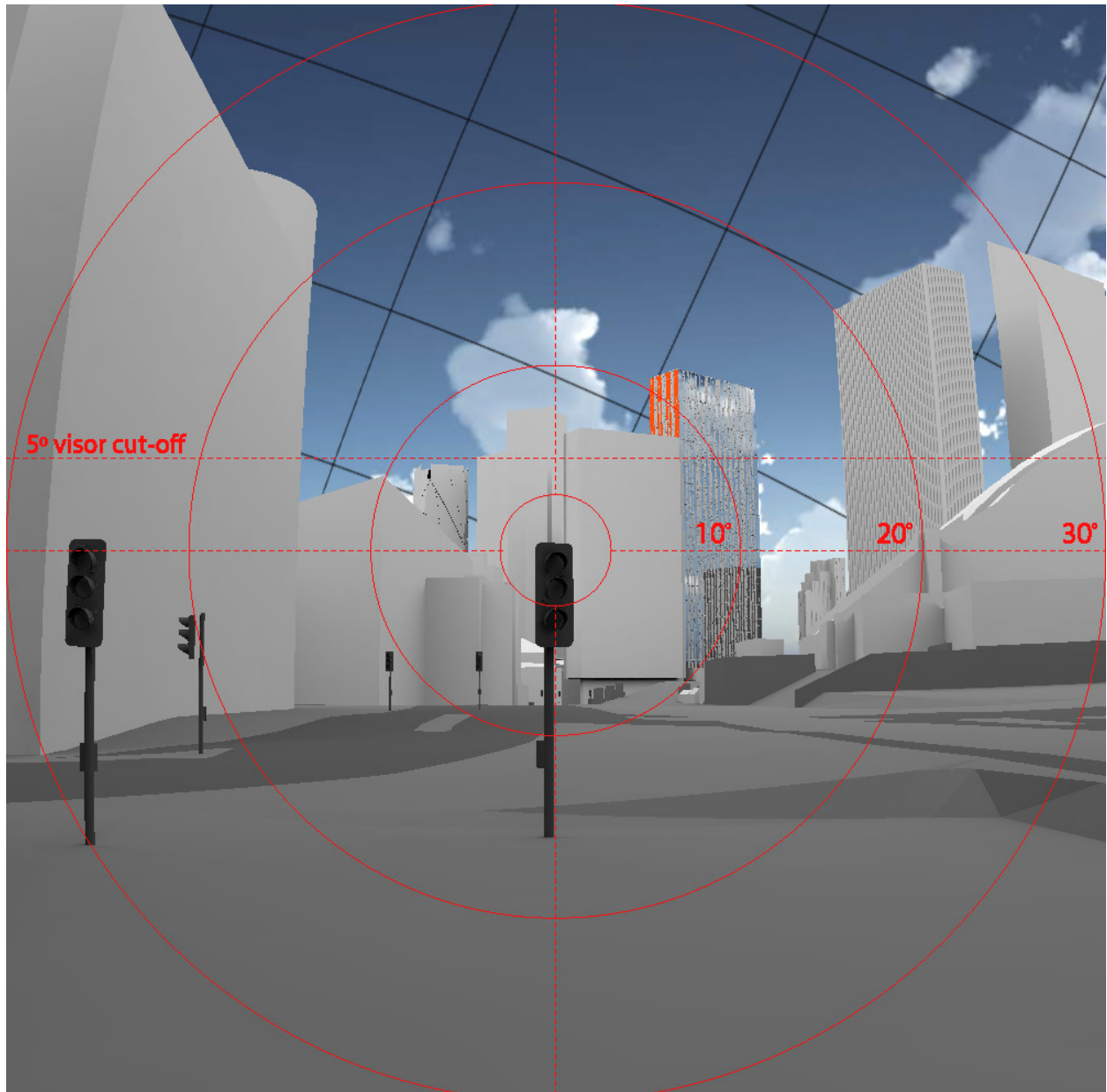
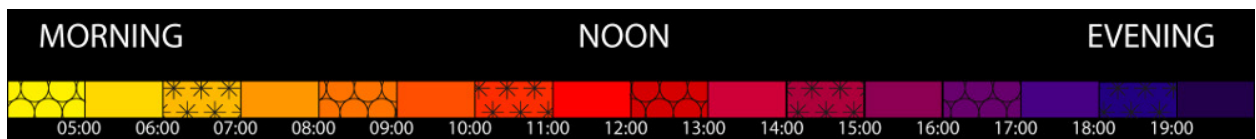


Fig. 16: Solar reflections



60° Field Of View: SeASOn

ViewPOinT LMS4b - LOOKin G AT RiGh T TRAFFiC LiGh TS

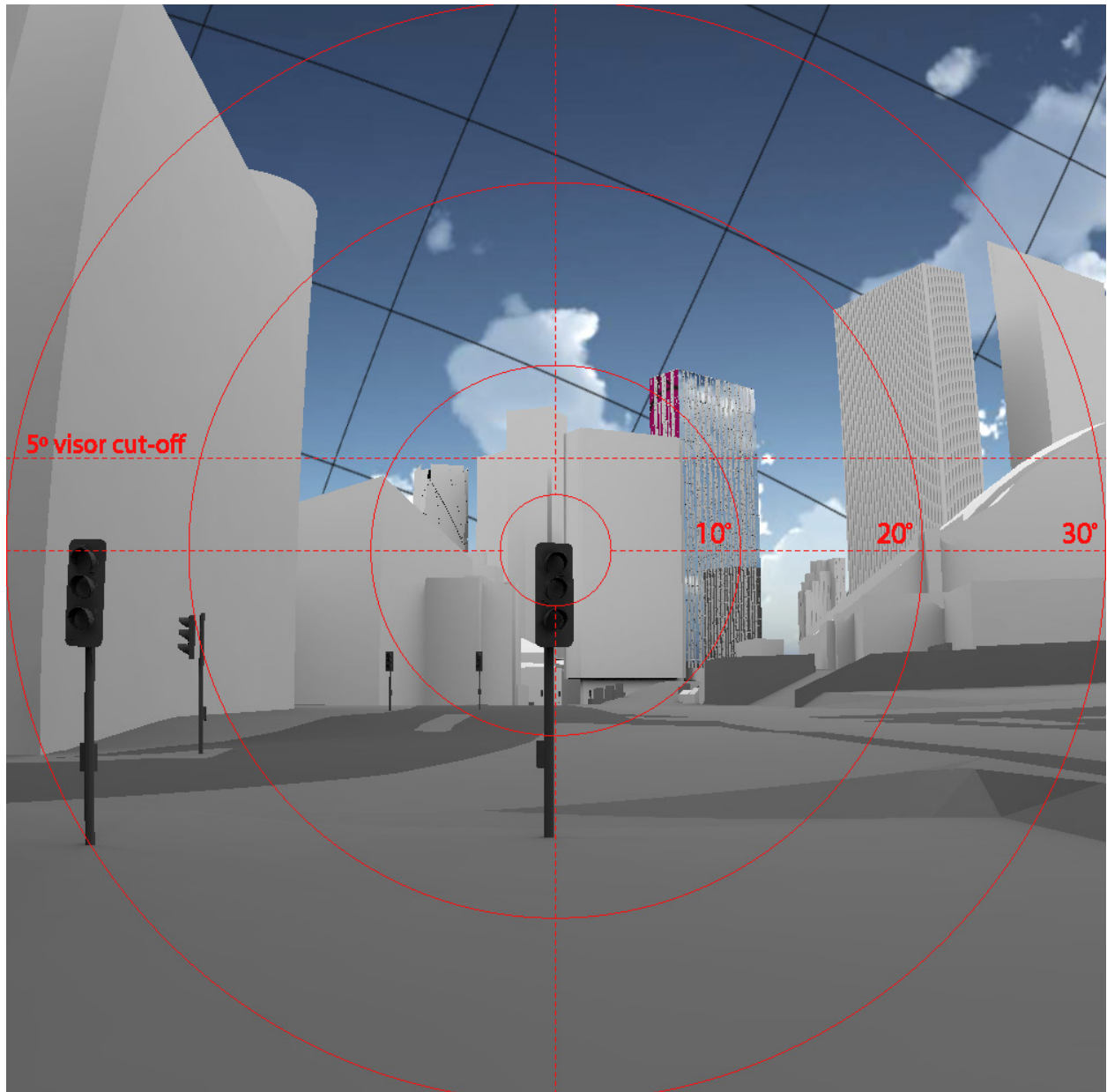


Fig. 17: Solar reflections



60° Field OF View: Time OF dAY
ViewPOinT LMS3a - LOOKin G FORWARD

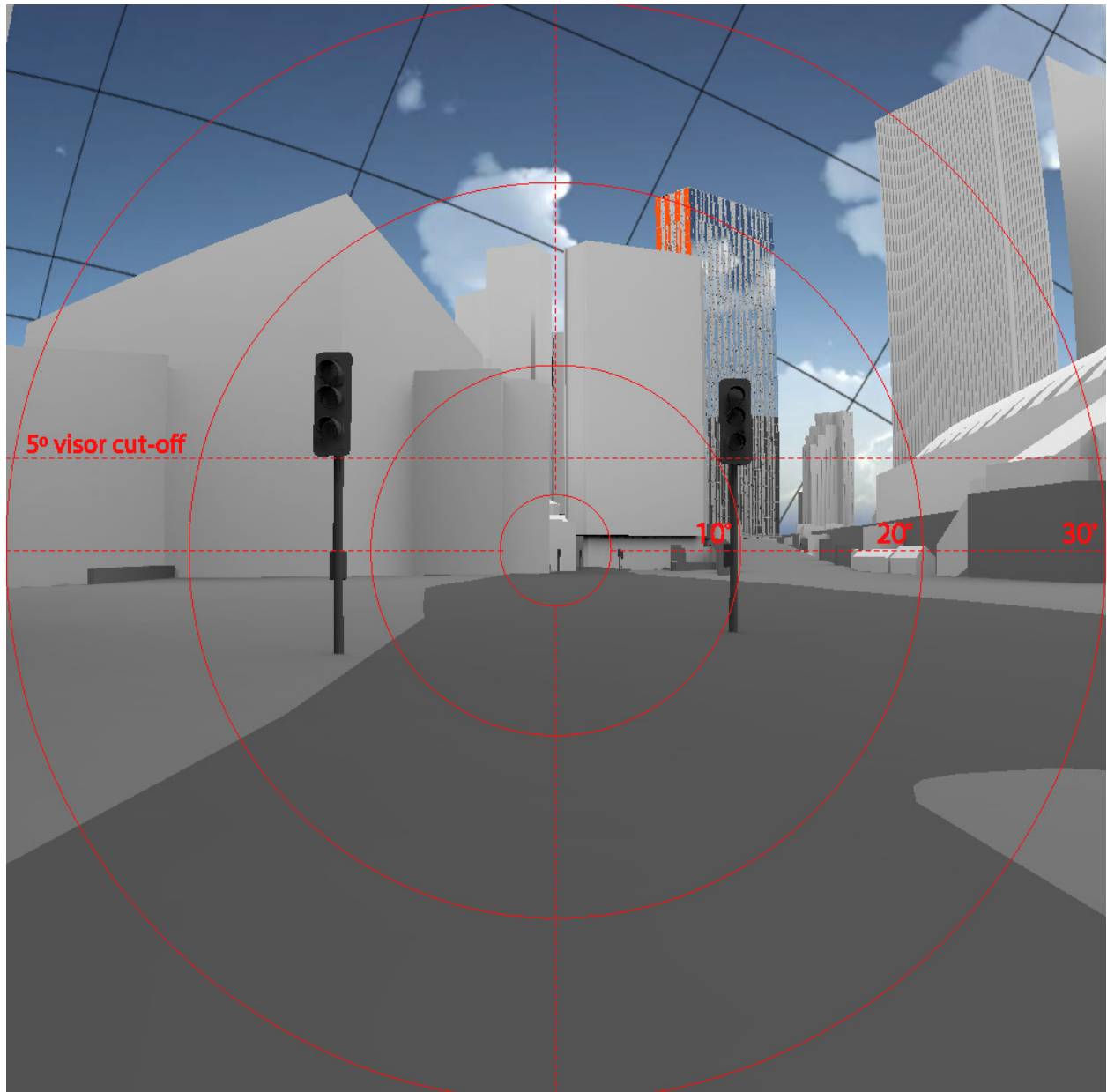
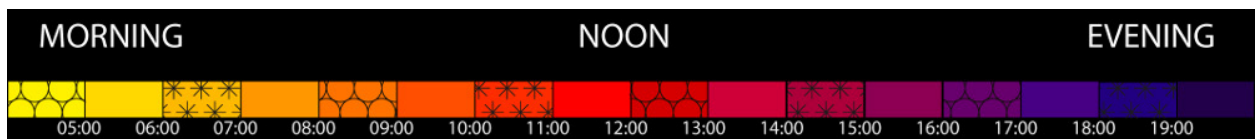


Fig. 18 : Solar reflections



60° Field Of View: SeASOn
ViewpOinT LMS3a - LOOKin G FORWARD

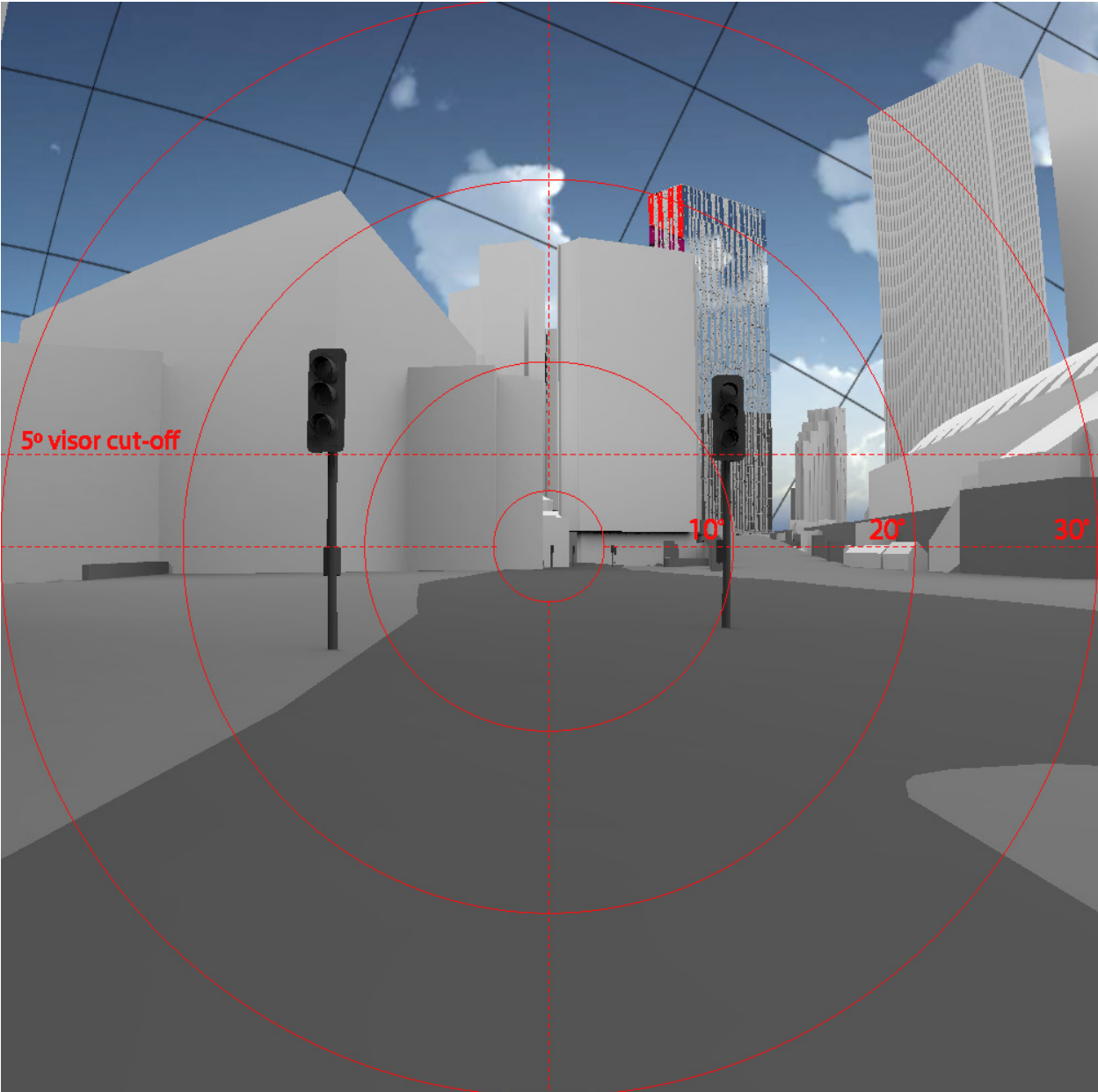


Fig. 19: Solar reflections



60° Field Of View: Time Of day
Viewpoint LMS3b - LOOKING AT RIGHT TRAFFIC LIGHTS

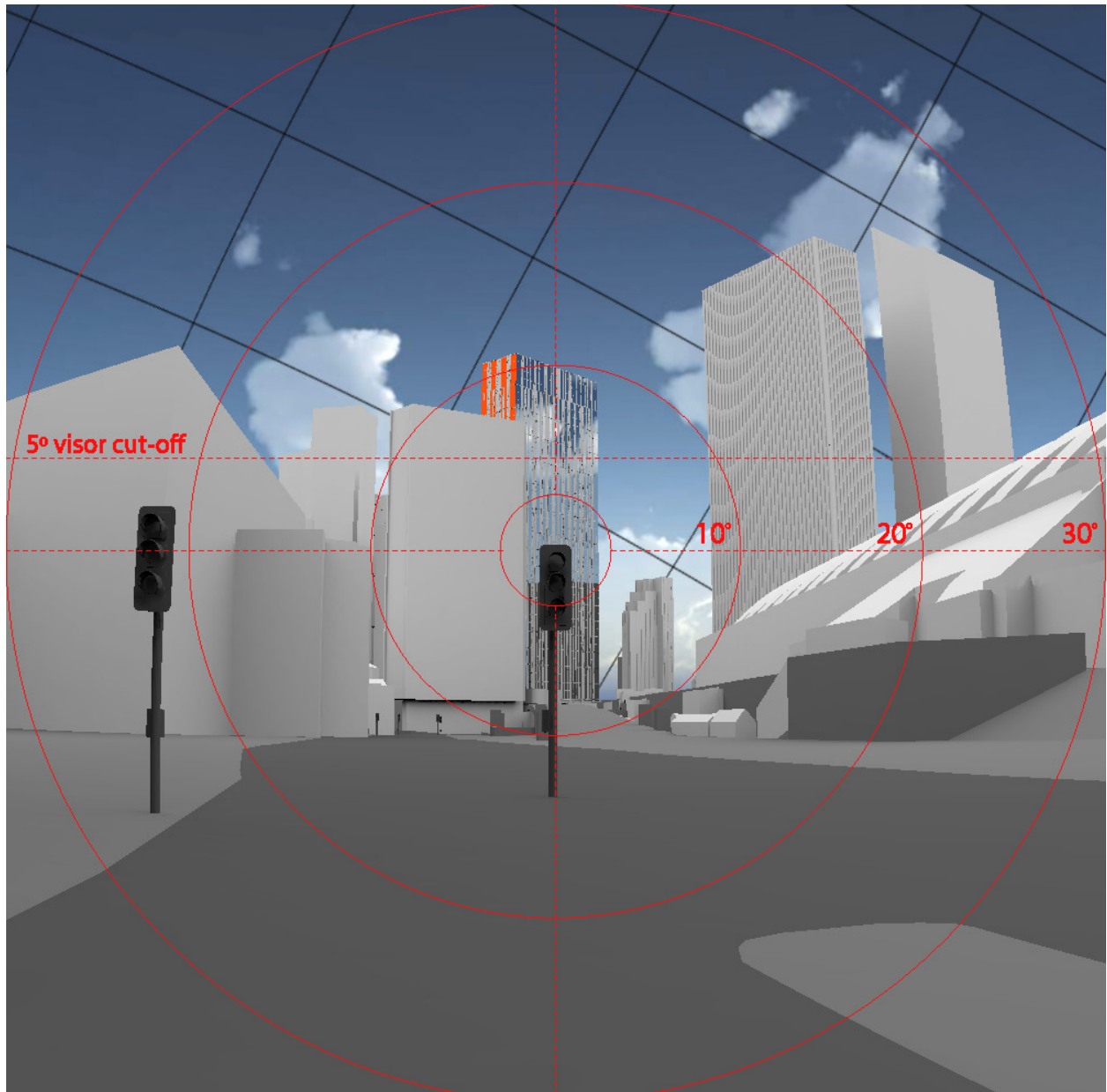
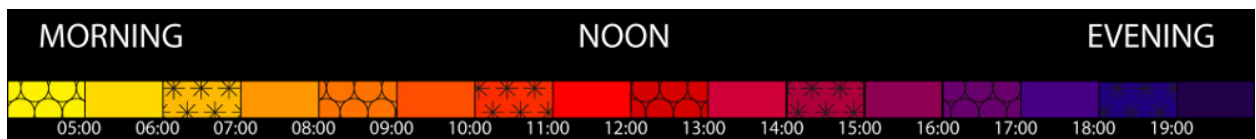


Fig. 20: Solar reflections



60° Field Of View: SeASOn

ViewpOin T LMS3b - LOOKin G AT RiGh T TRAFFiC LiGh TS

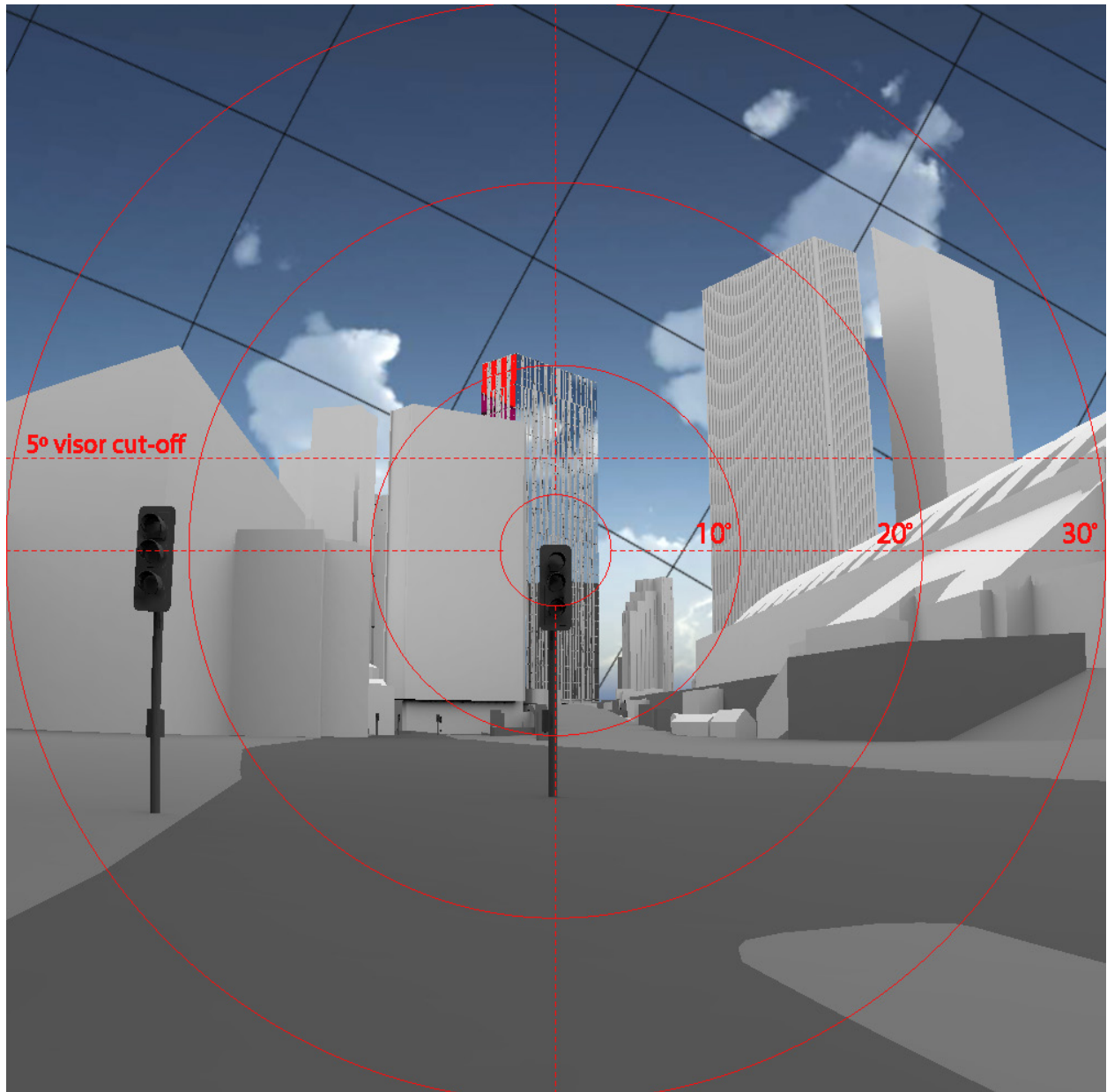


Fig. 21: Solar reflections



60° Field Of View: Time Of day
ViewPoint LMS2a - LOOKin G FORWARD

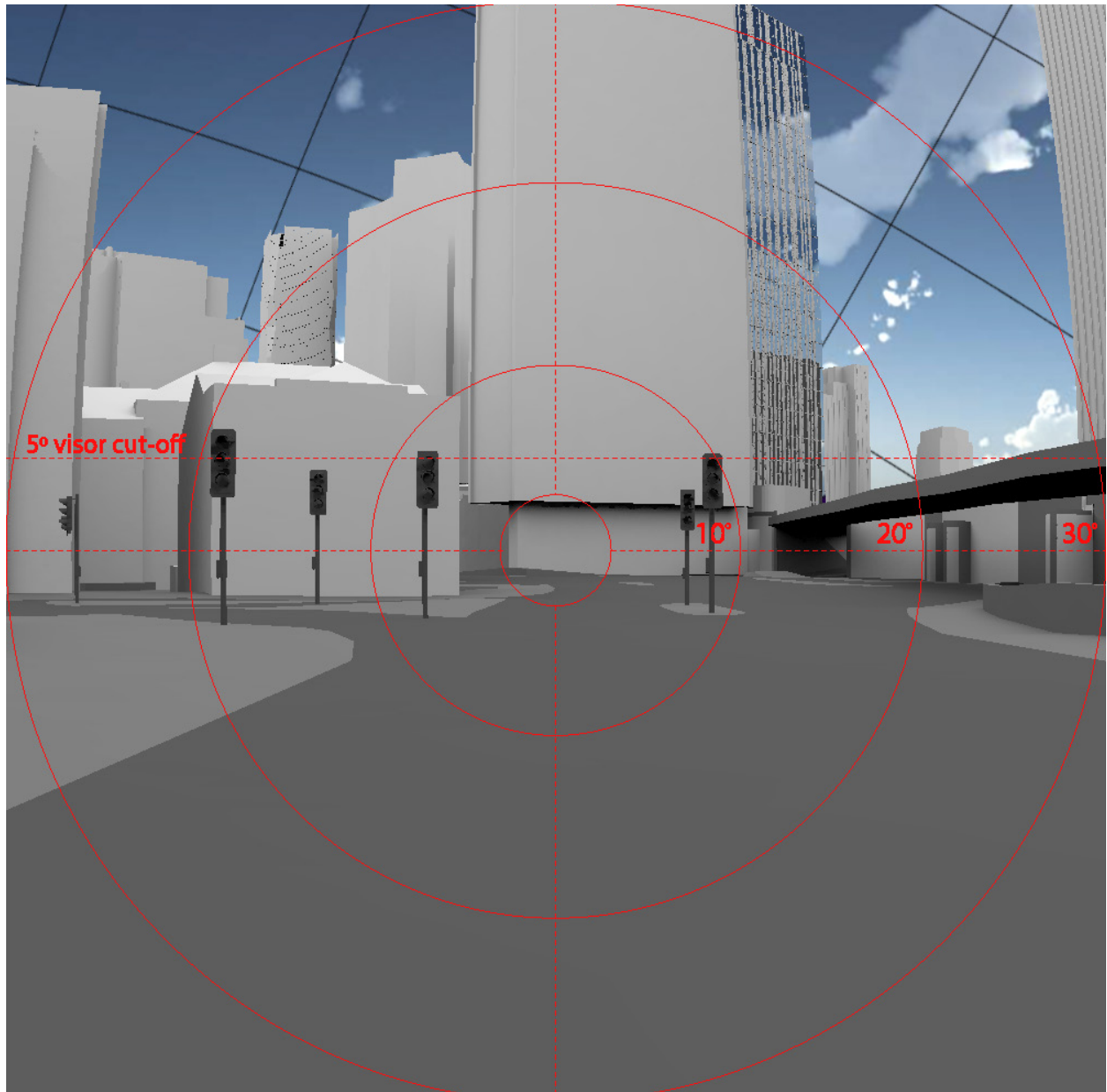
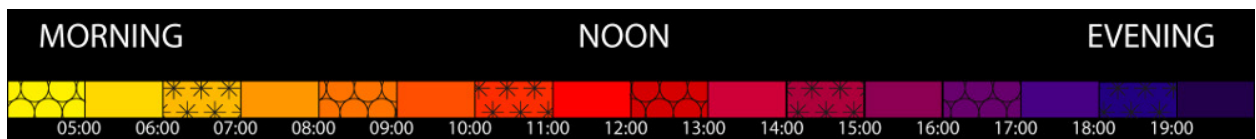


Fig. 22: Solar reflections



60° Field Of View: SeASOn
ViewpOinT LMS2a - LOOKin G FORWARD

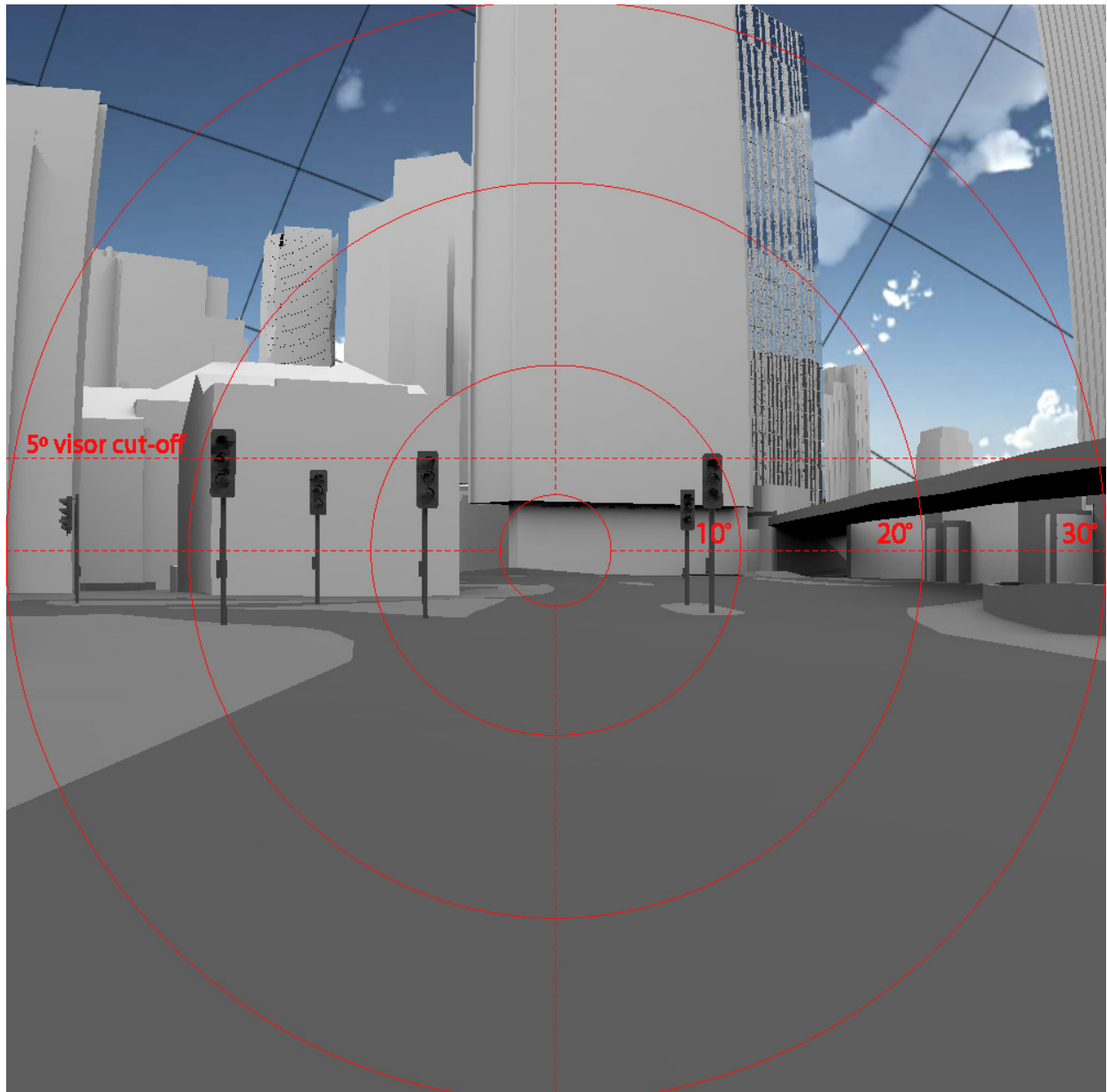


Fig. 23: Solar reflections



60° Field Of View: Time Of day
ViewPoint LMS2b - LOOKin G AT RiGh T TRAFFiC LiGh TS

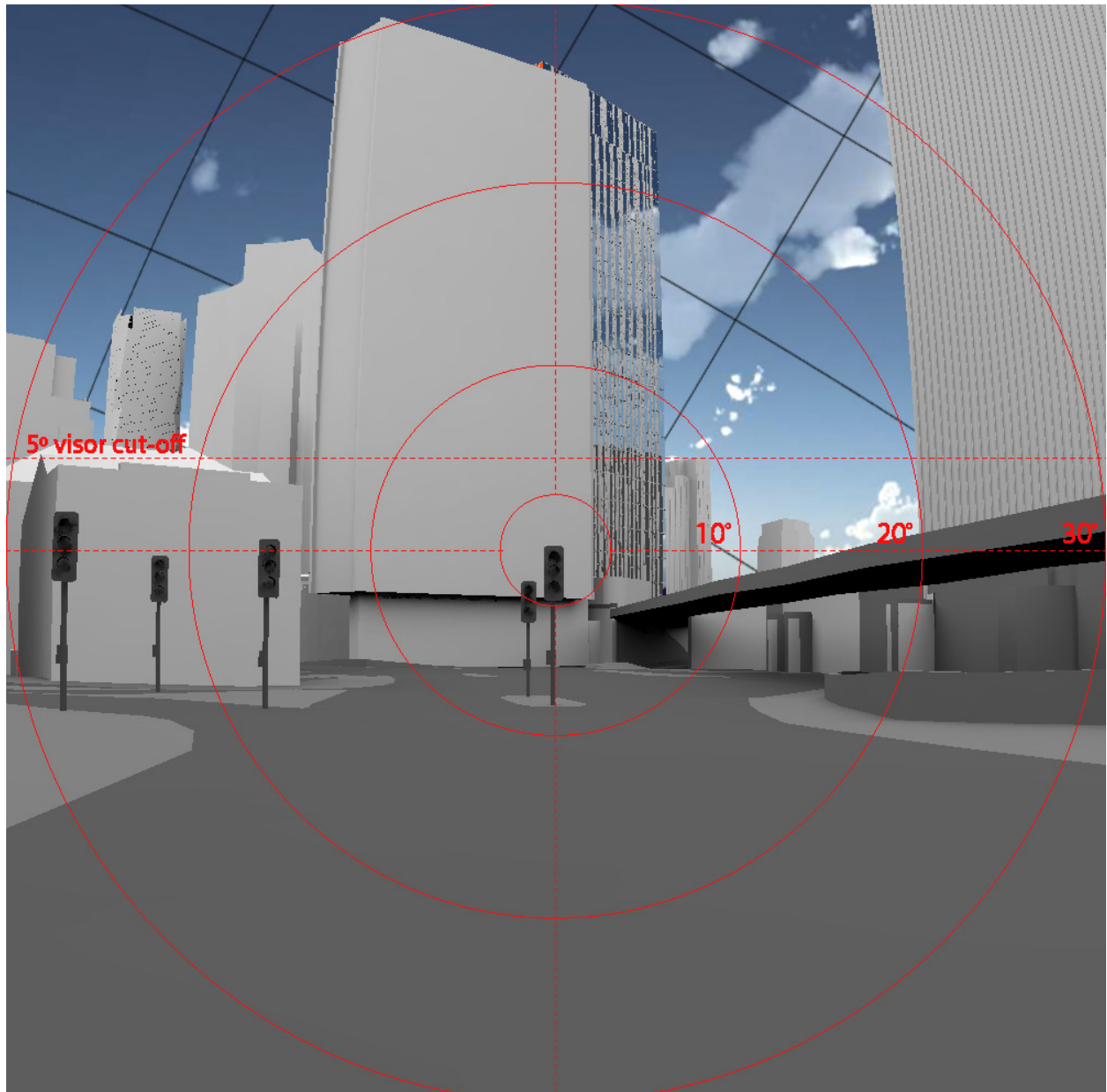
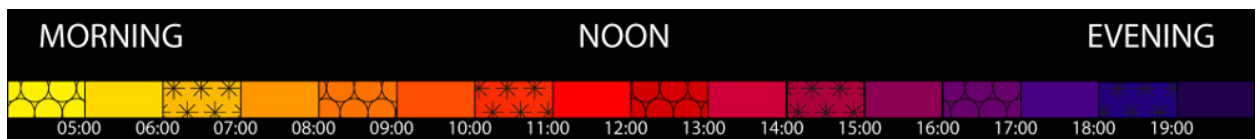


Fig. 24: Solar reflections



60° Field Of View: SeASOn

ViewPOinT LMS2b - LOOKin G AT RiGh T TRAFFiC LiGh TS

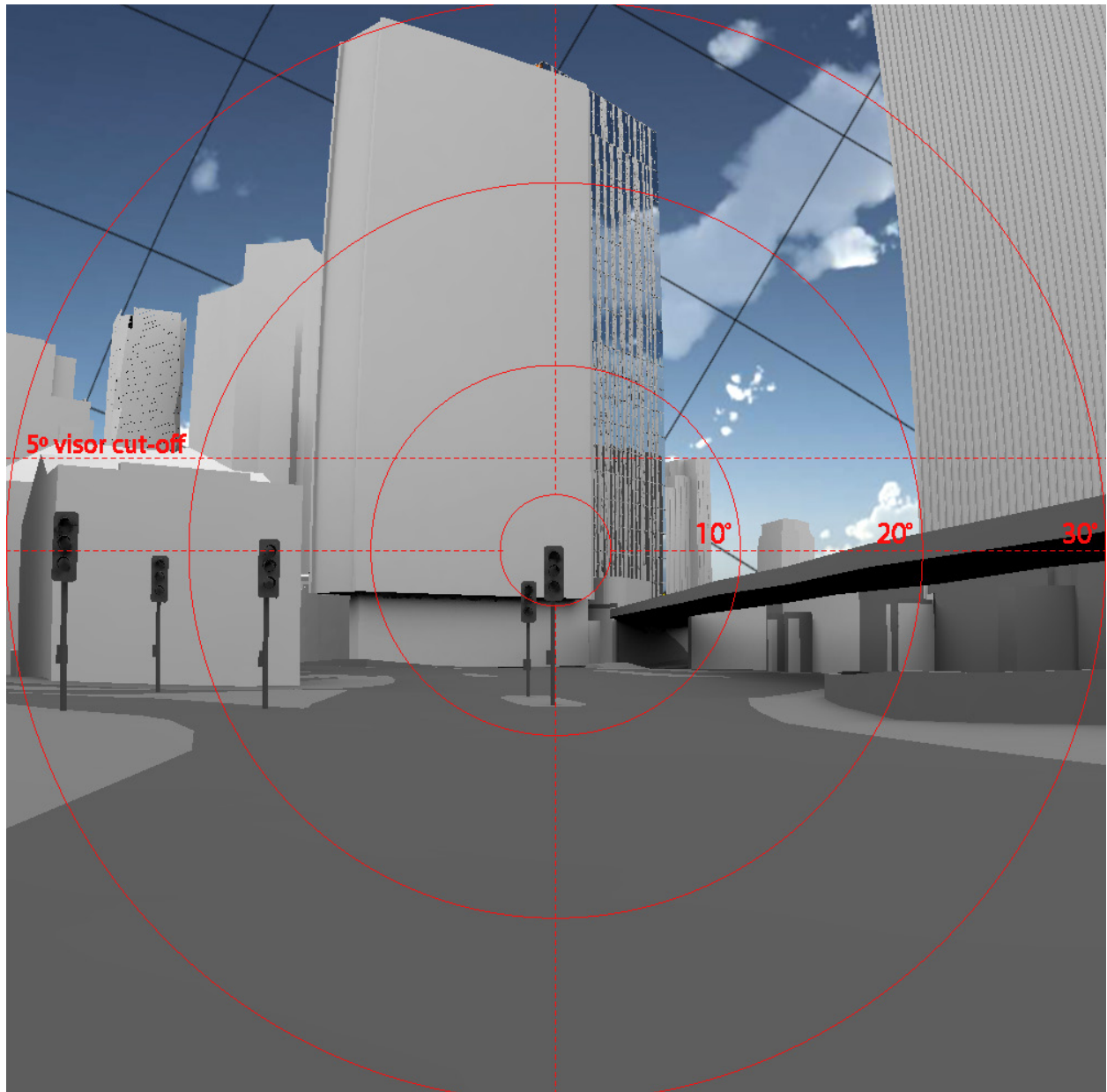


Fig. 25: Solar reflections



60° Field Of View: Time Of day
Viewpoint TWSW2 - Right Lane, Looking Forward

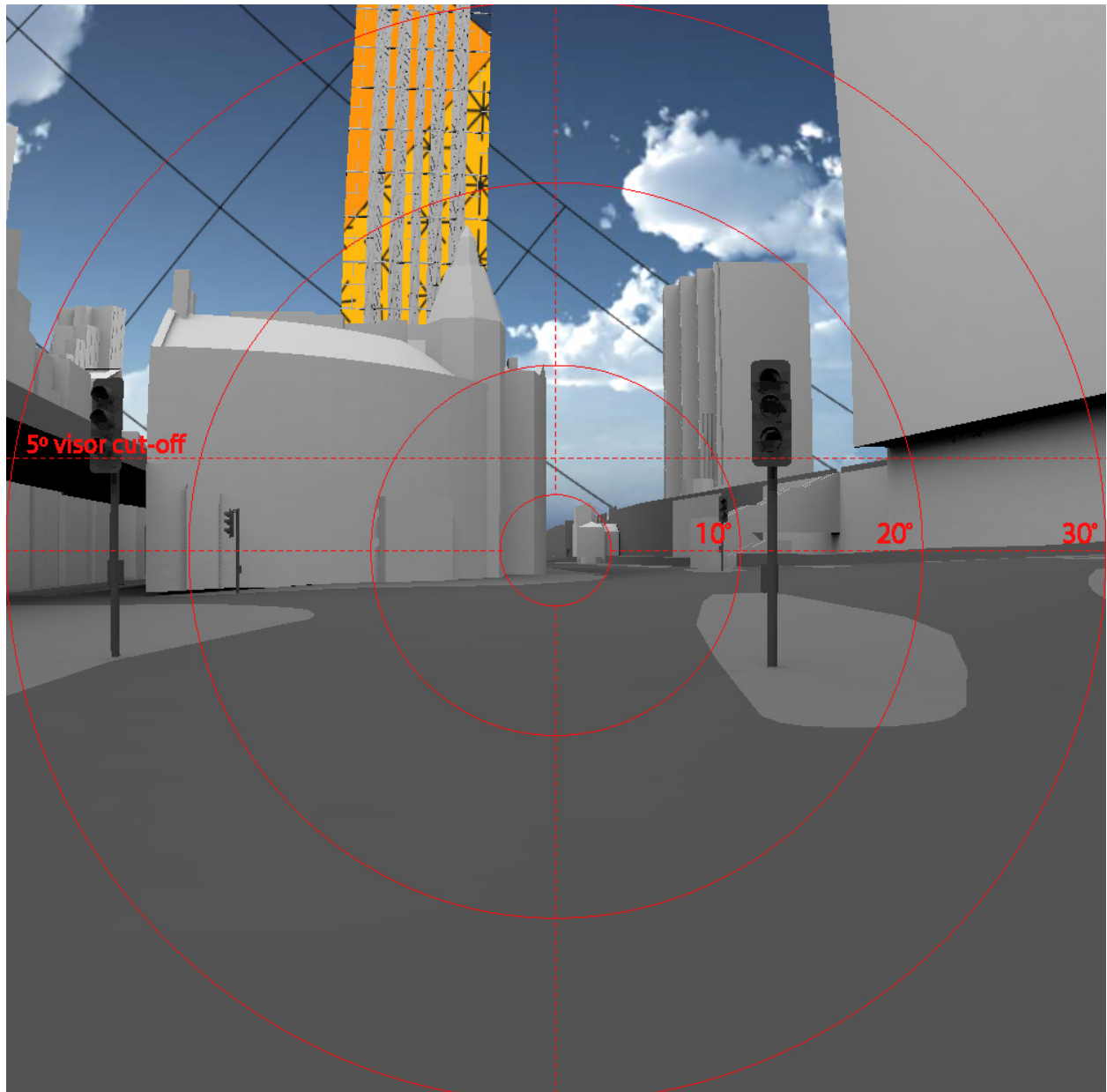
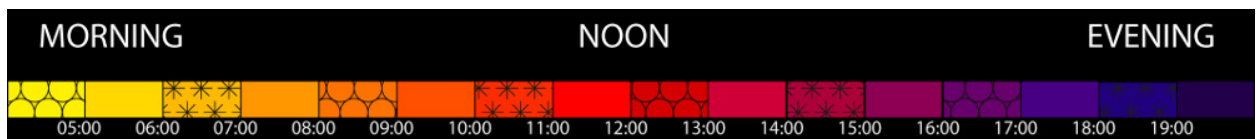


Fig. 26: Solar reflections



60° Field Of View: Season
Viewpoint TSW2 - Right Lane, Looking Forward

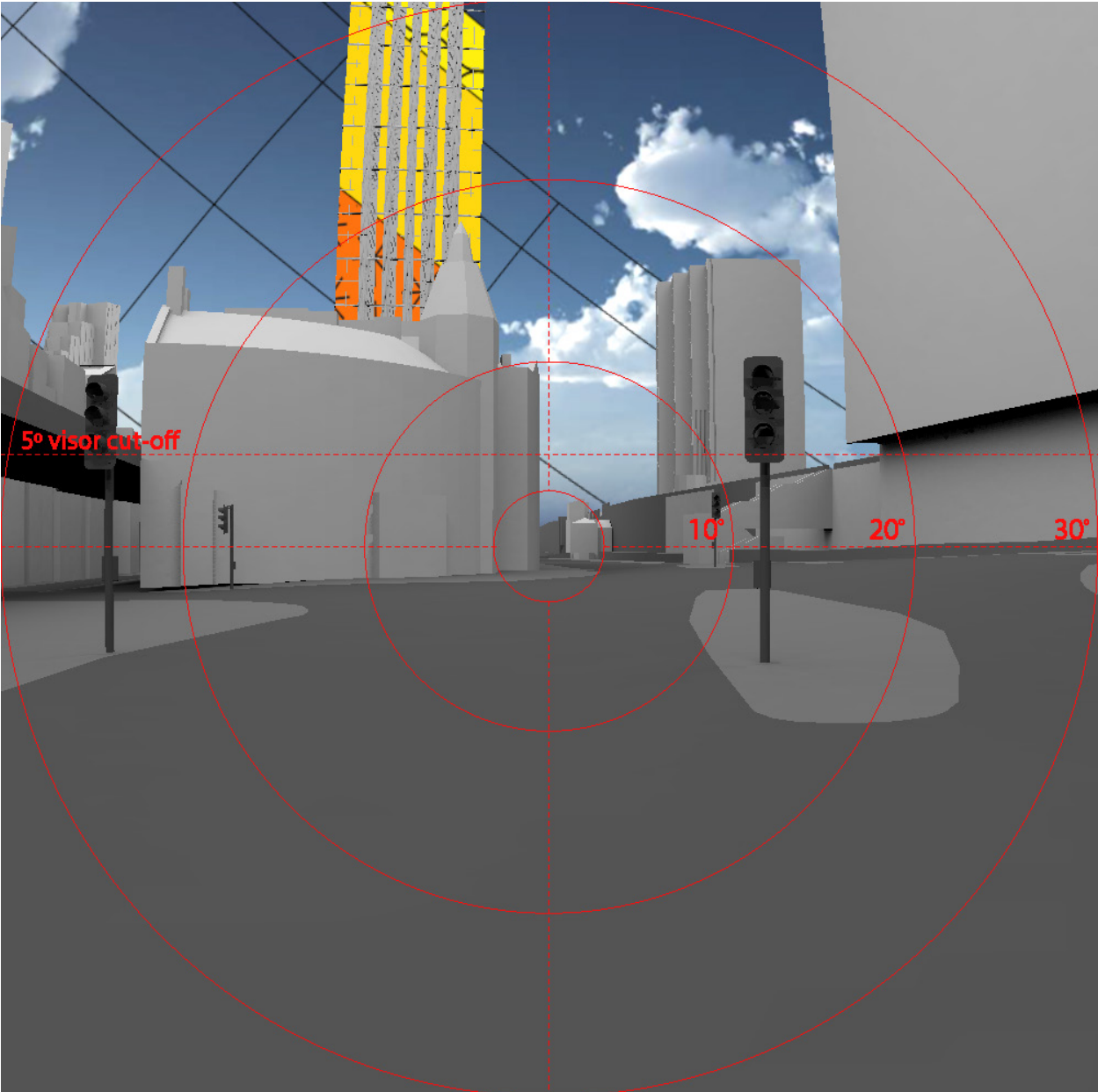


Fig. 27: Solar reflections



60° Field Of View: Time Of day
Viewpoint MS1 - Left Lane, Looking At Left Traffic Lights

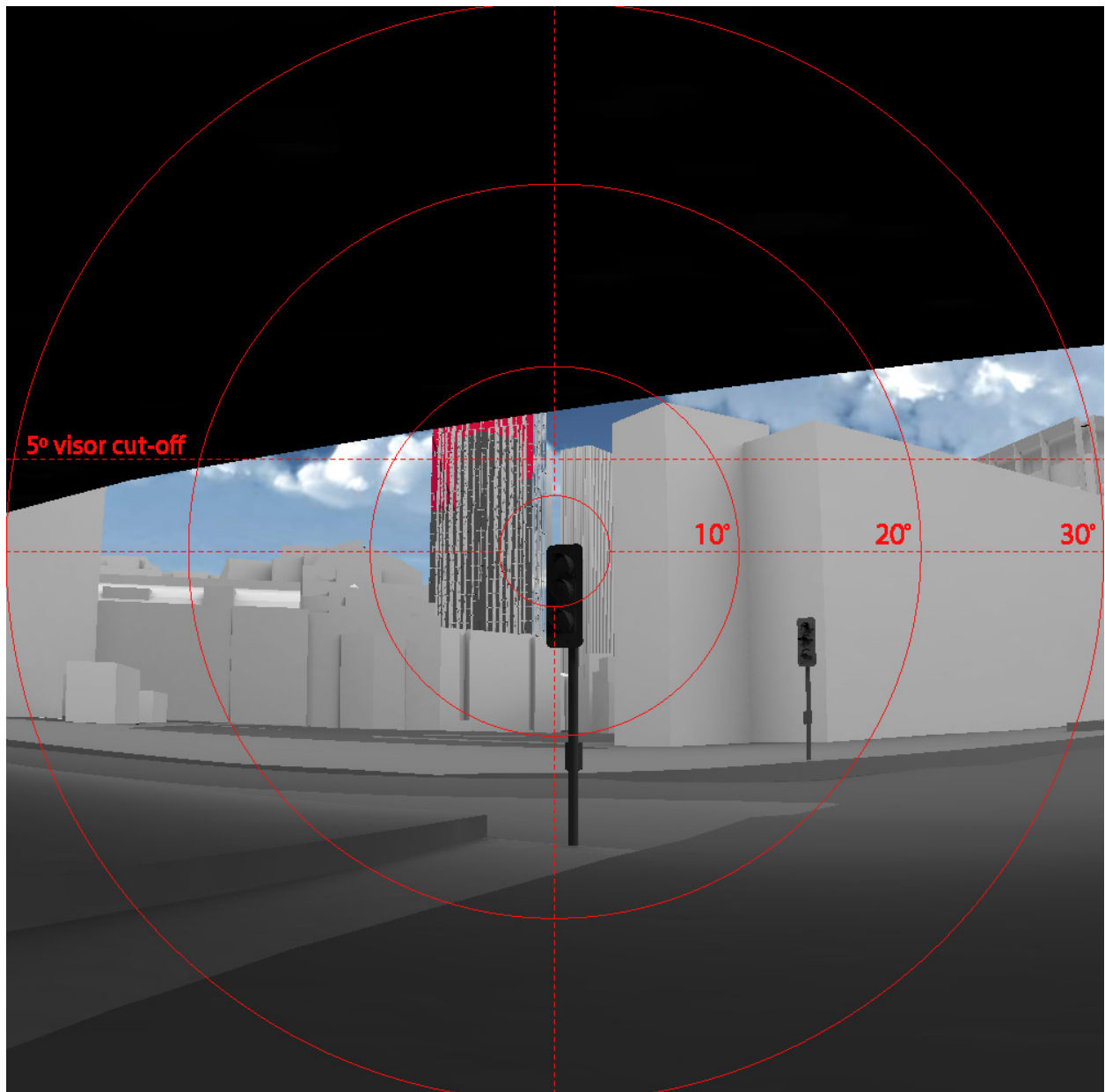
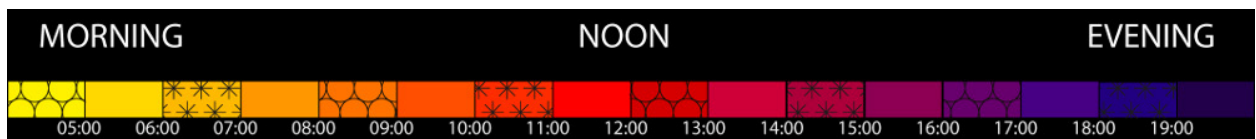


Fig. 28: Solar reflections



60° Field Of View: Season

Viewpoint MS1 - Left Lane, Looking At Left Traffic Lights

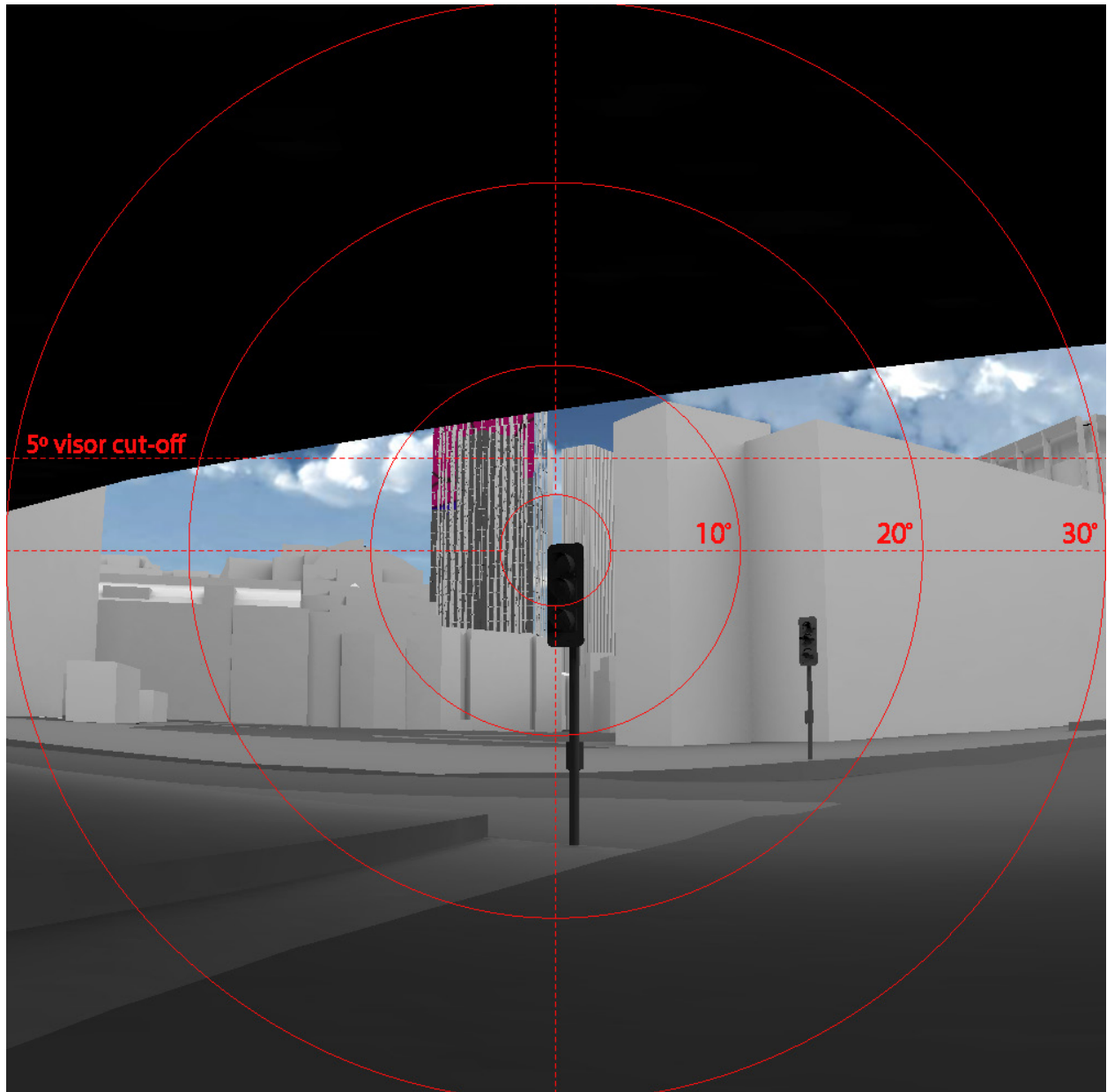


Fig. 29: Solar reflections



60° Field OF View: Time OF dAY
ViewPOinT TRAM 1- SOUTHBOUnd TO deAnSGATe- CASTLeFieLd

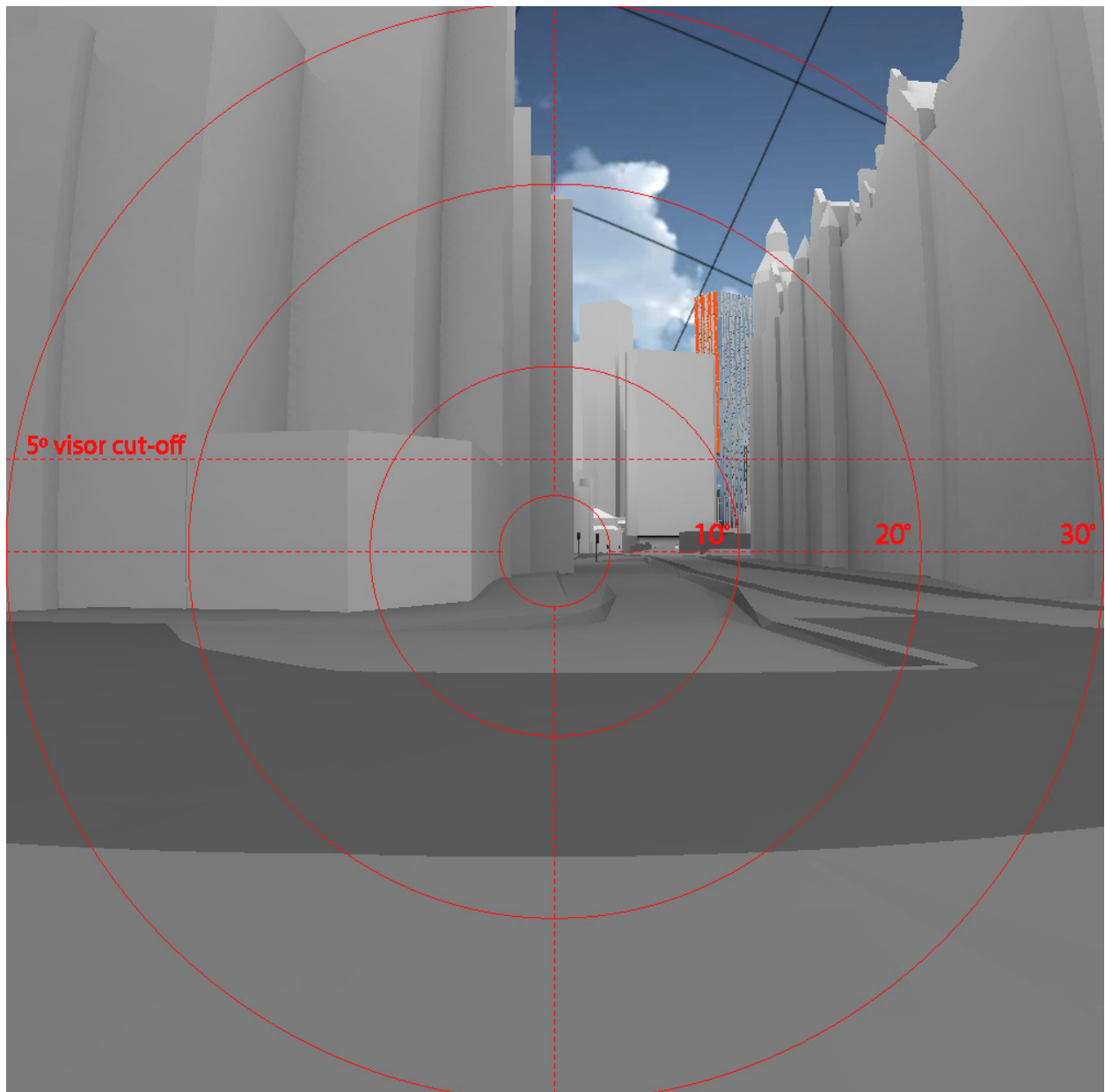
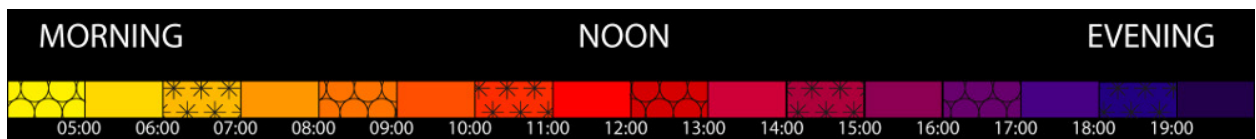


Fig. 30: Solar reflections



60° Field Of View: SeASOn

ViewpOinT TRAM 1- SOUTHBOUnd TO deAnSGATe- CASTLeFieLd

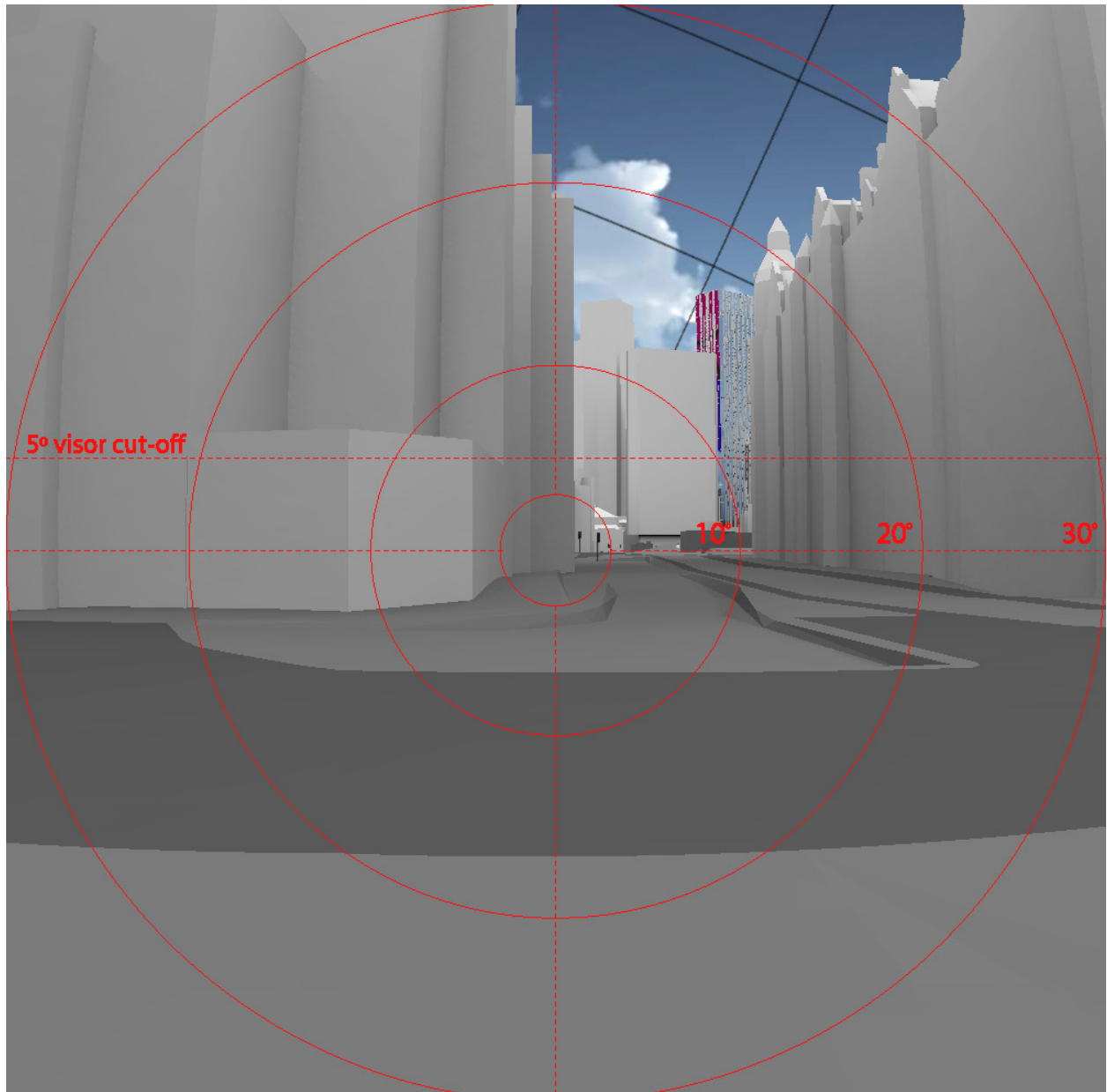


Fig. 31: Solar reflections



60° Field OF View: Time OF dAY
ViewPOint TRAM 2 - SOUTHBOUnd TO deAnSGATe-CASTLeFieLd

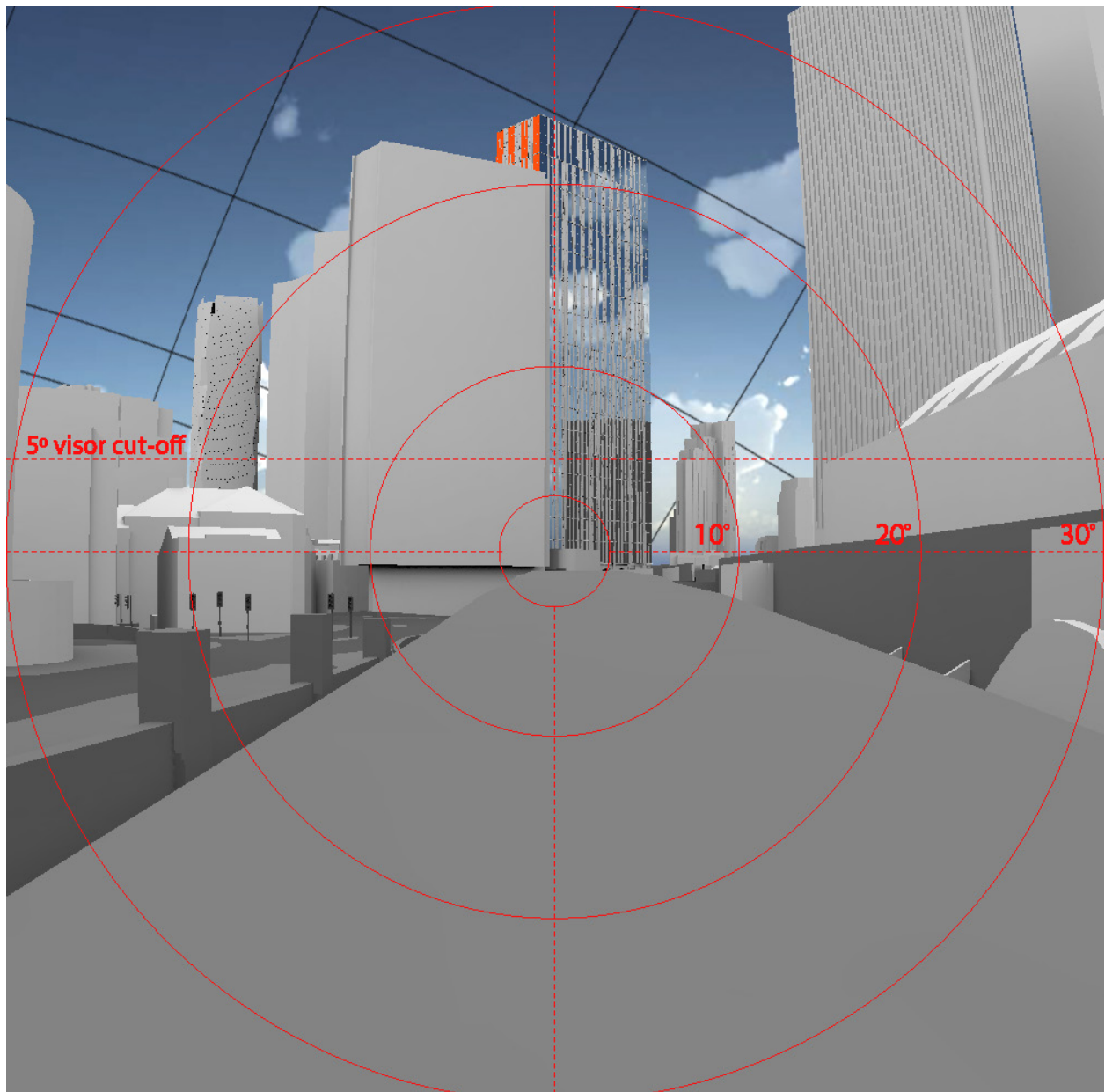
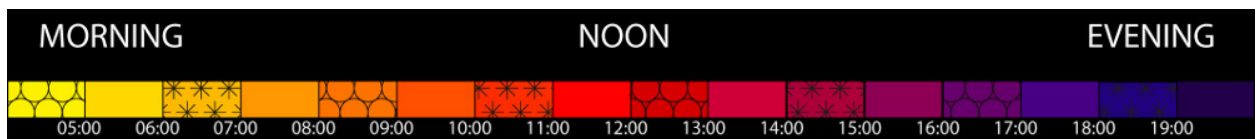


Fig. 32: Solar reflections



60° Field Of View: SeASOn

ViewPOinT TRAM 2 - SOUTHBOUnd TO deAn SGATe-CASTLeFieLd

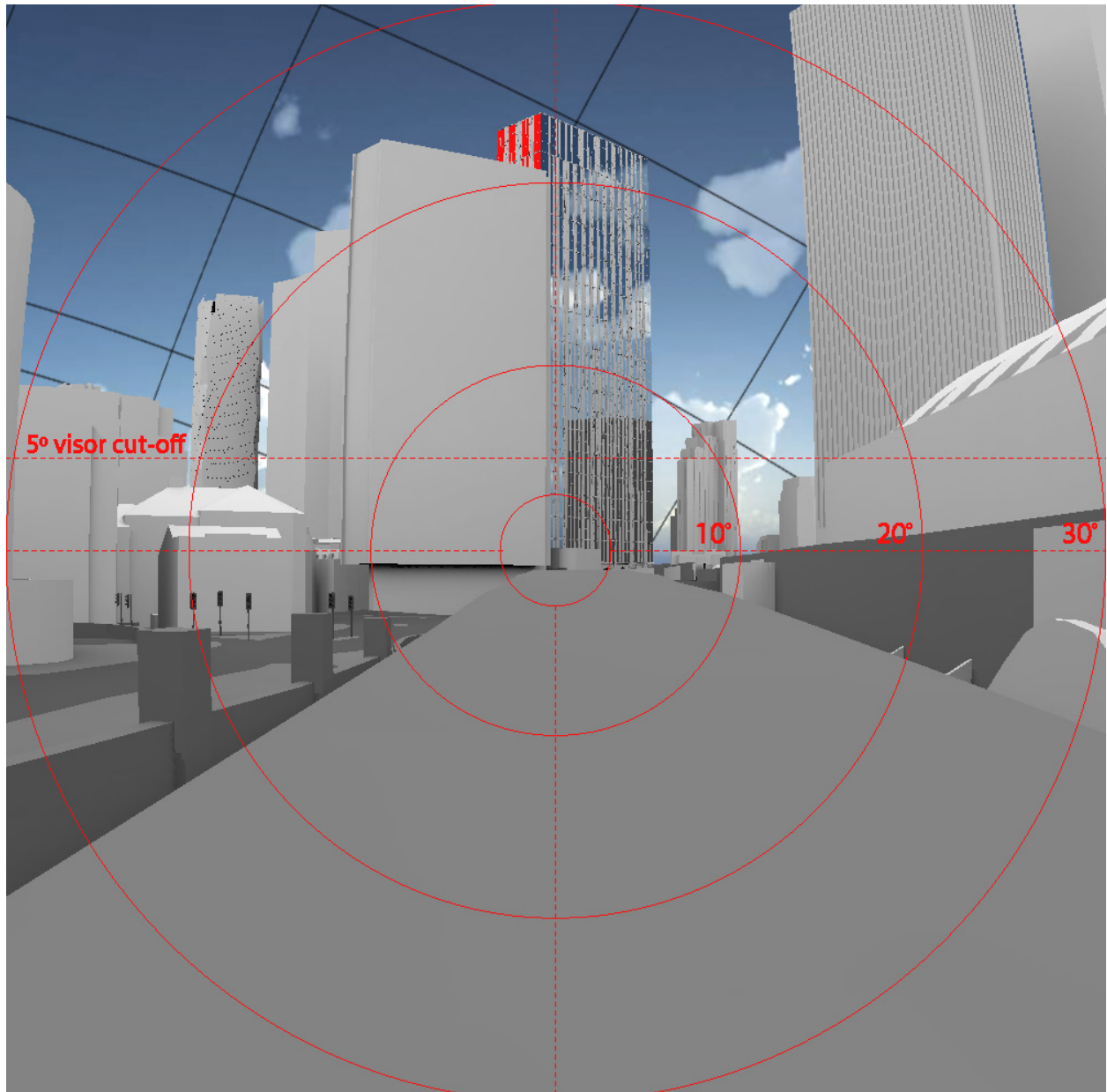


Fig. 33: Solar reflections



60° Field OF View: Time OF dAY

ViewpOinT TRAM 3 - SOUTHBOUnd TO deAn SGATe- CASTLeFieLd

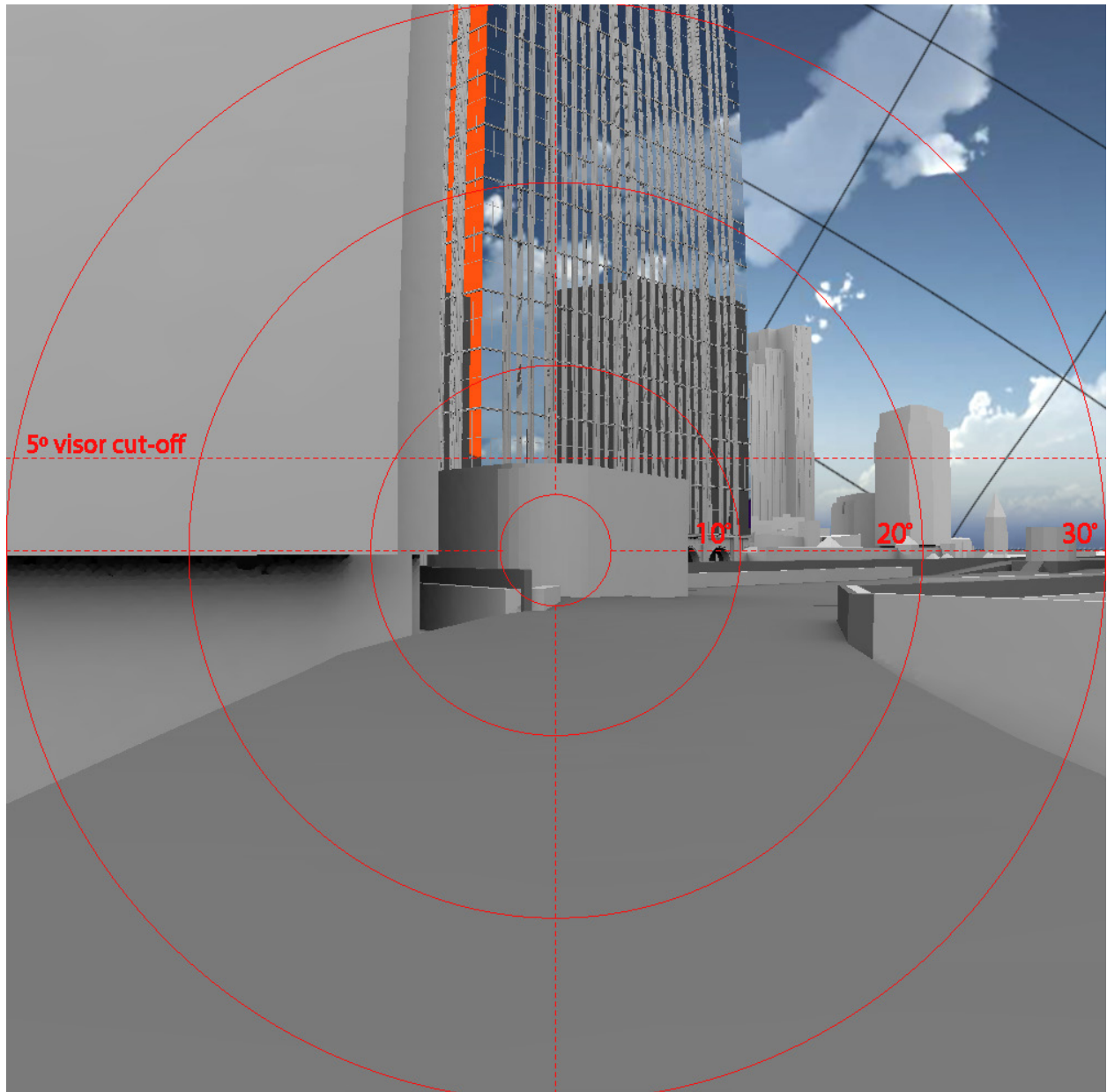
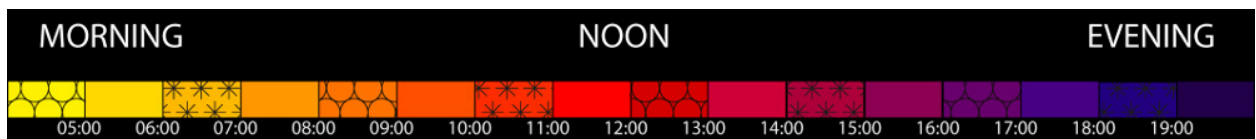


Fig. 34: Solar reflections



60° Field Of View: SeASON

ViewPOinT TRAM 3 - SOUTHBOUnd TO deAn SGATe- CASTLeFieLd

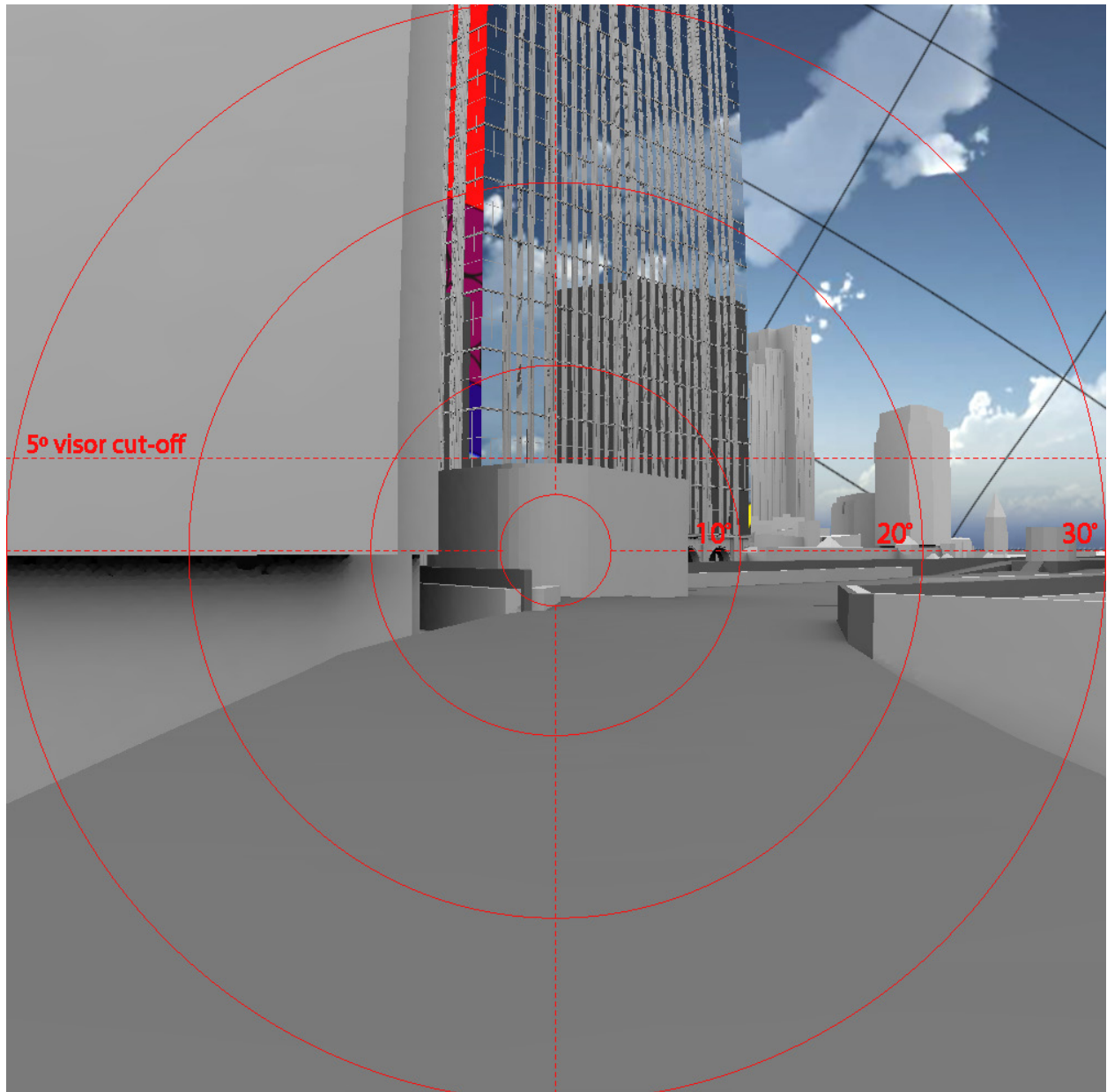


Fig. 35: Solar reflections



60° Field OF View: Time OF dAY
ViewPOint TRAM 4 - eASTBOUnd TO deAnSGATe- CASTLeFieLd

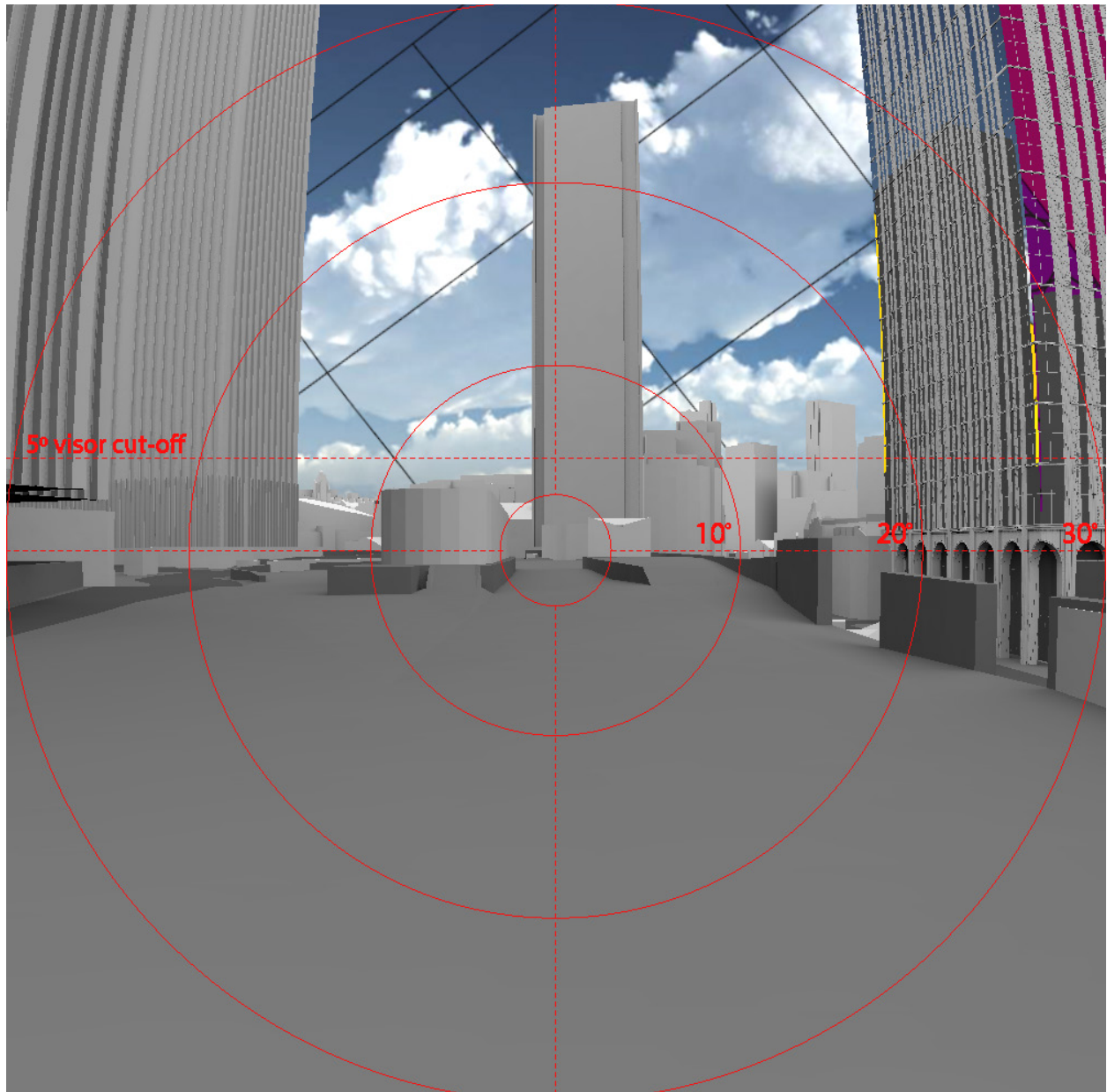
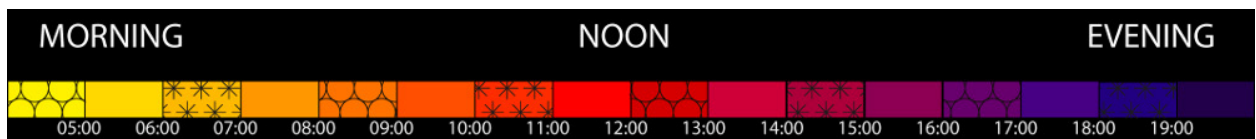


Fig. 36: Solar reflections



60° Field Of View: SeASOn

ViewPOinT TRAM 4 - eASTBOUnd TO deAn SGATe- CASTLeFieLd

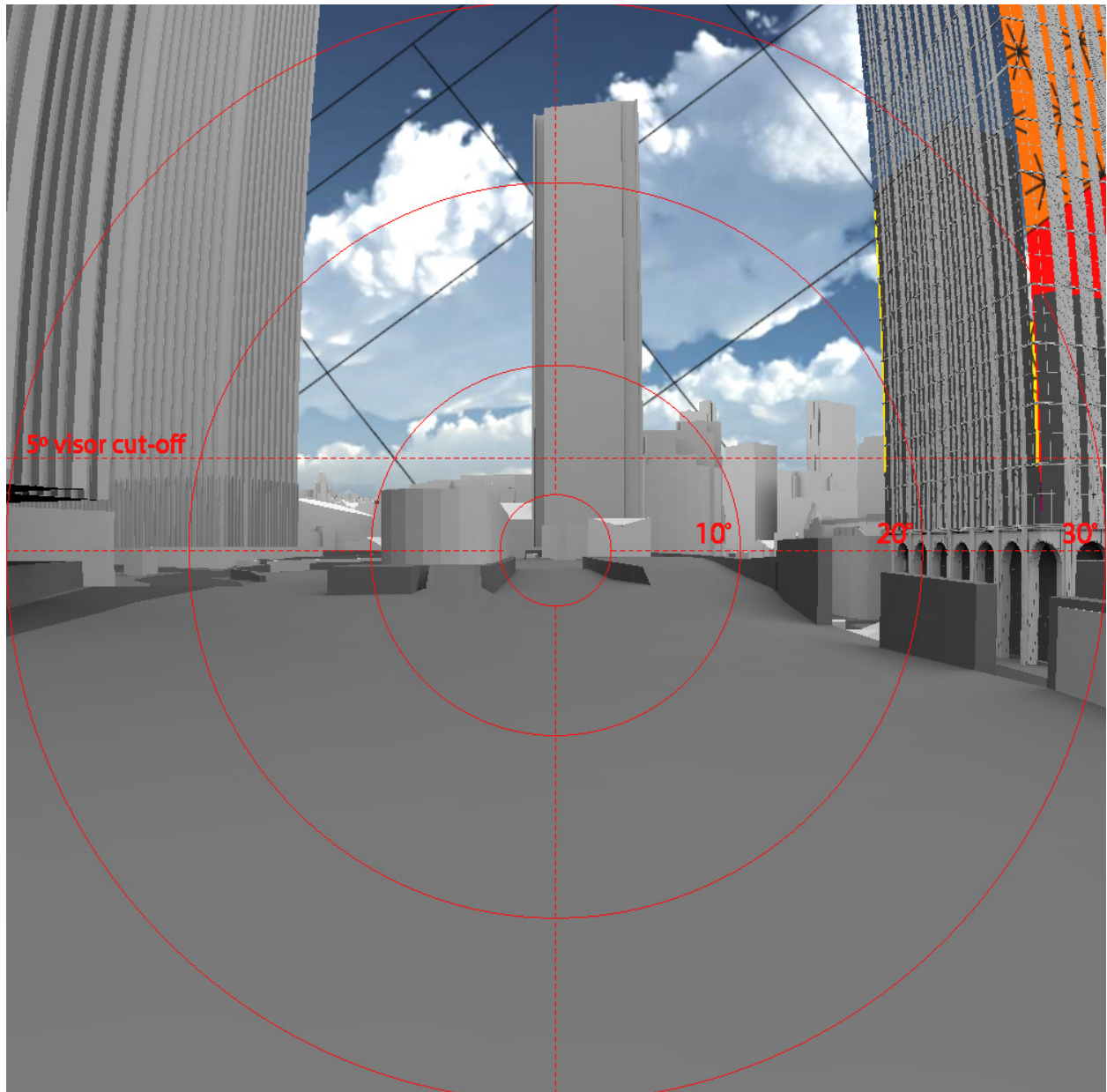


Fig. 37: Solar reflections



60° Field OF View: Time OF day
ViewPOint TRAM 5 - eASTBOUnd TO deAnSGATe- CASTLeFieLd

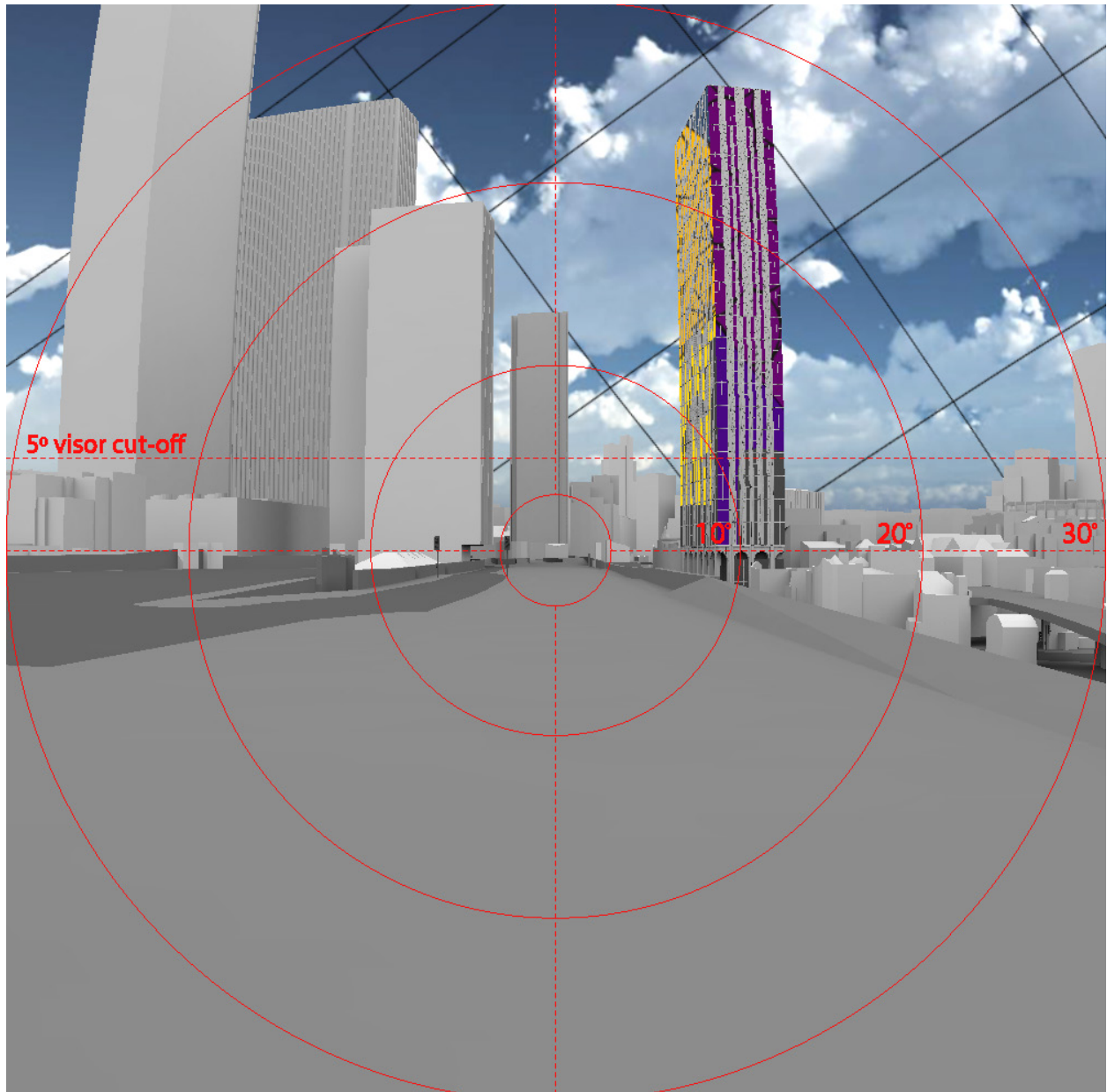
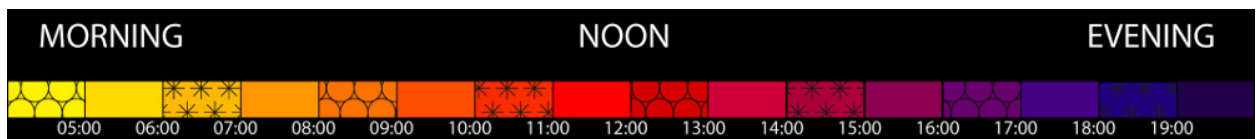


Fig. 38: Solar reflections



60° Field Of View: SeASOn

ViewPOint T TRAM 5 - eASTBOUnd TO deAn SGATe- CASTLeFieLd

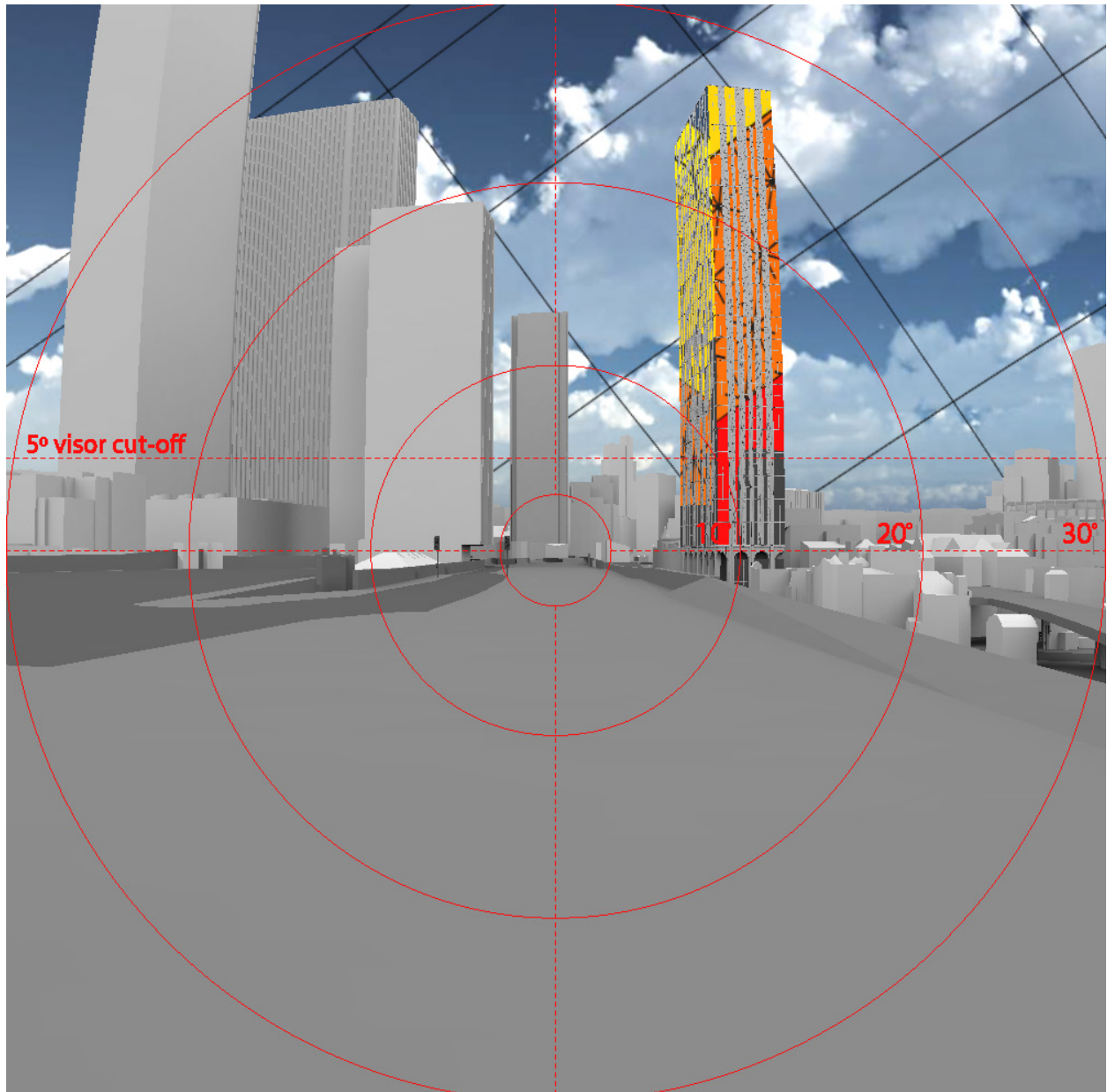


Fig. 39: Solar reflections



60° Field OF View: Time OF day
ViewPOint TRAM 6 - eASTBOUnd TO deAn SGATe- CASTLeFieLd

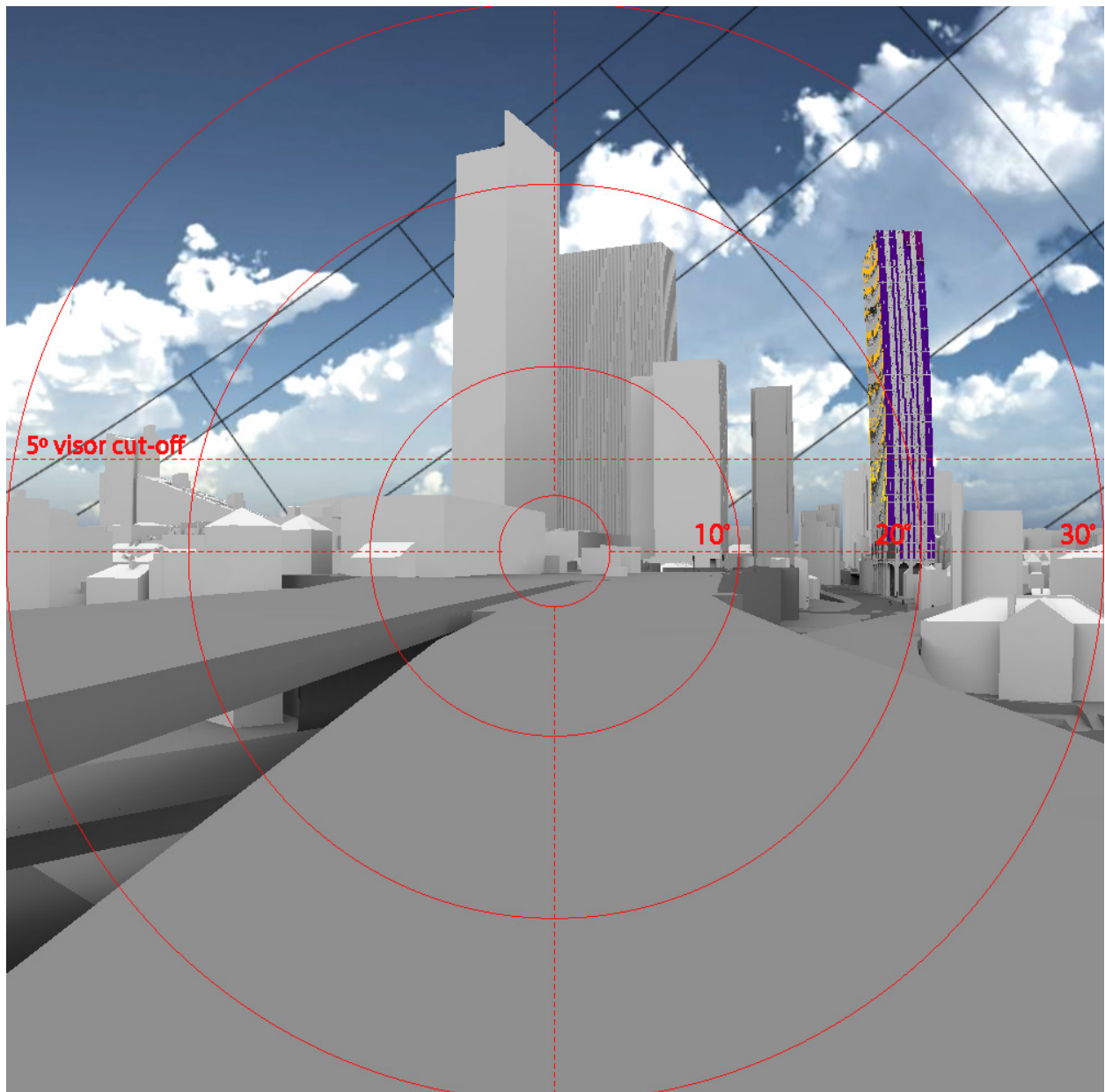
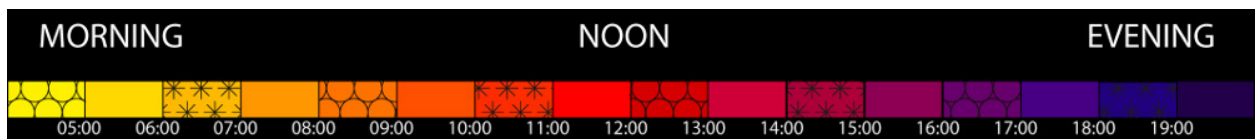


Fig. 40: Solar reflections



60° Field Of View: SeASOn

ViewPOinT TRAM 6 - eASTBOUnd TO deAnSGATe- CASTLeFieLd

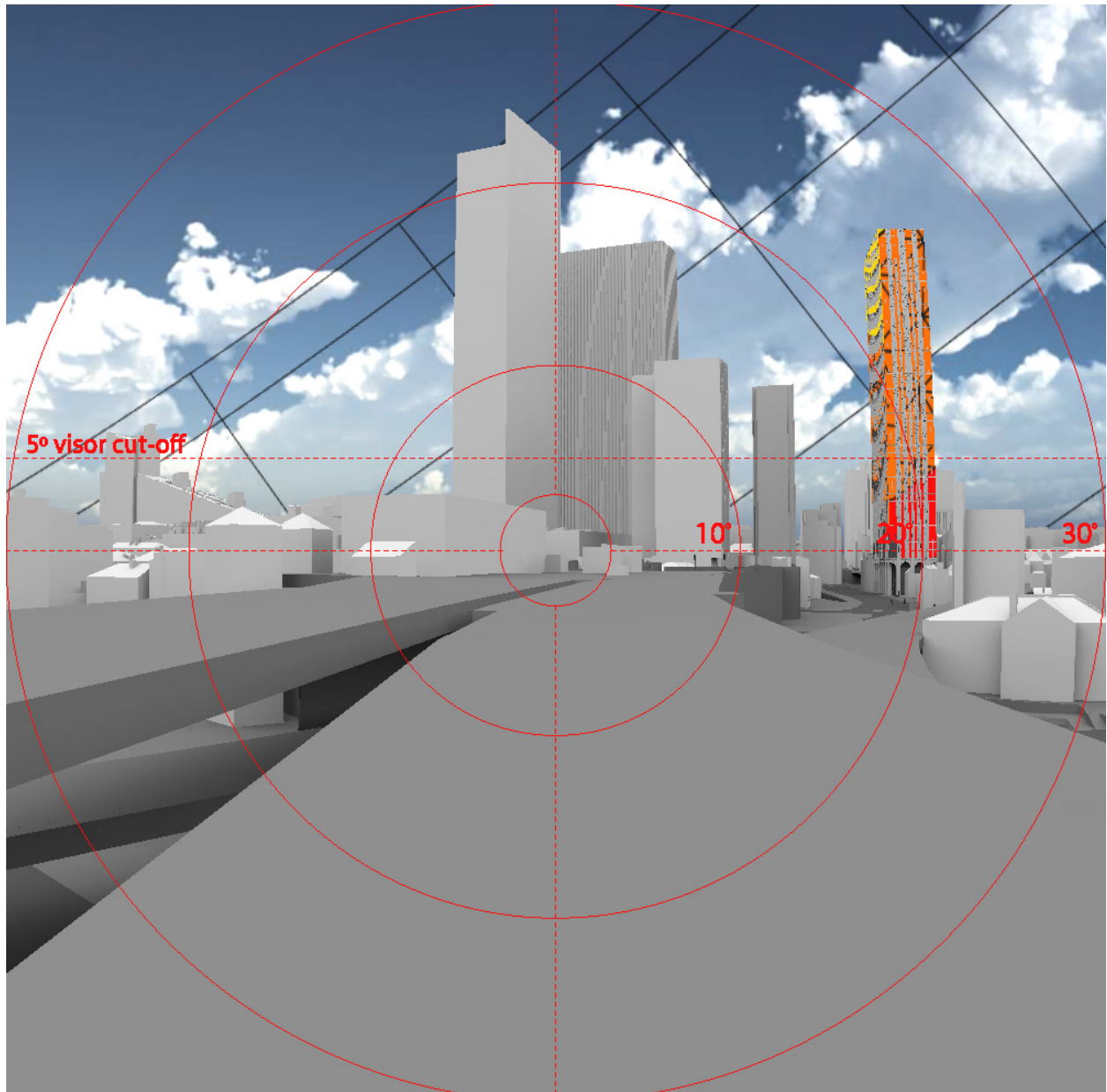


Fig. 41: Solar reflections



60° Field Of View: Time Of day
ViewPoint T RAIL 1- Westbound TO deAnSGATe

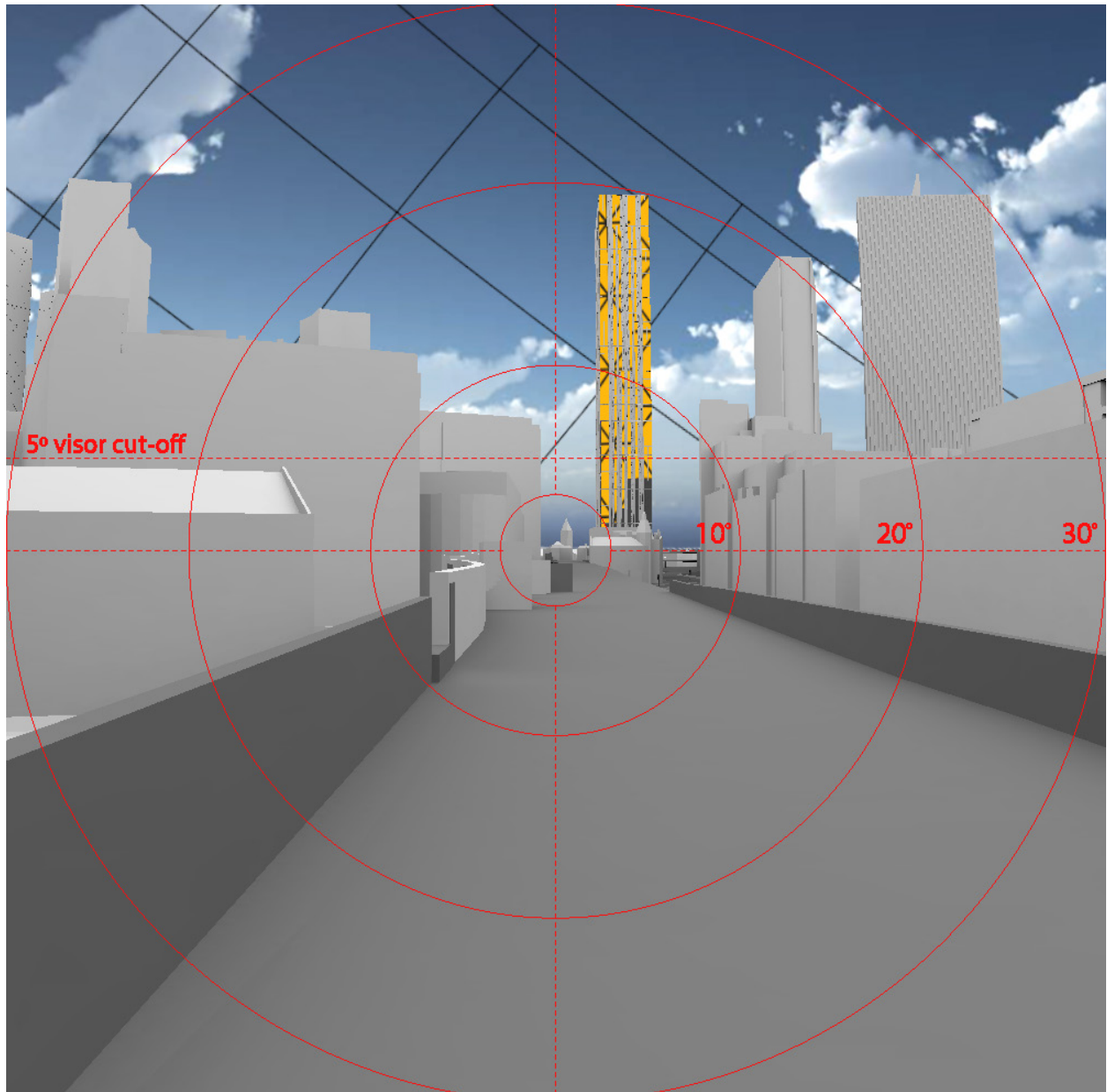
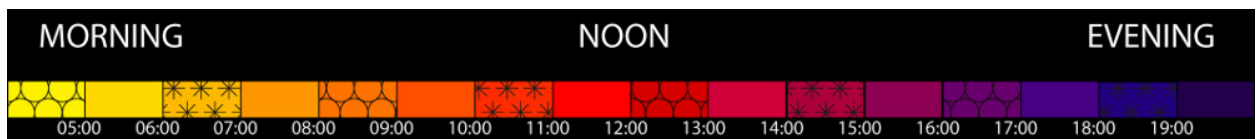


Fig. 42: Solar reflections



60° Field Of View: SeASOn
ViewPOinT RAIL 1- WeSTBOUnd TO deAnSGATe

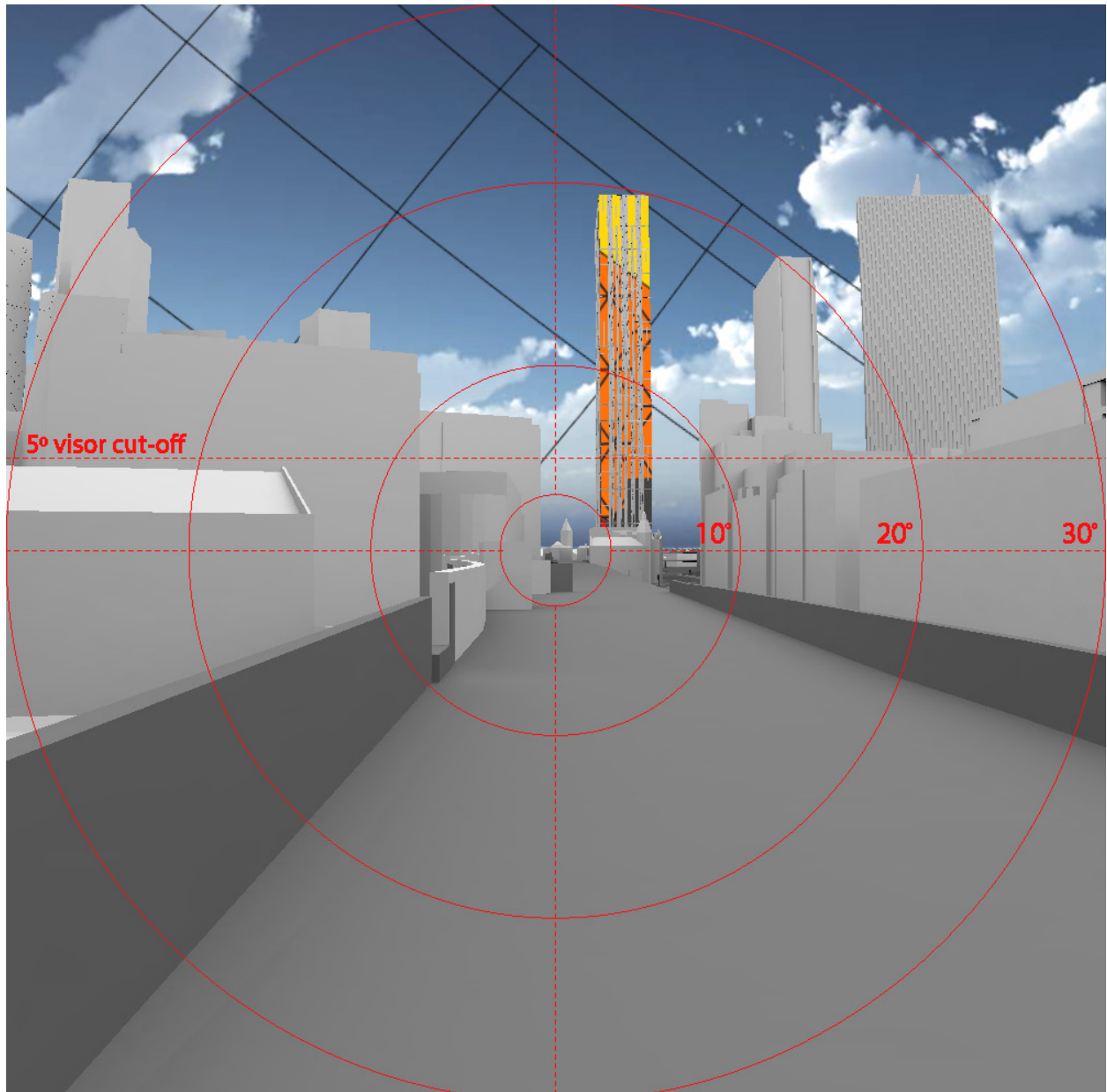


Fig. 43: Solar reflections



60° Field OF View: TIME OF dAY
ViewPOint T RAIL 2 - WeSTBOUnd TO deAnSGATe

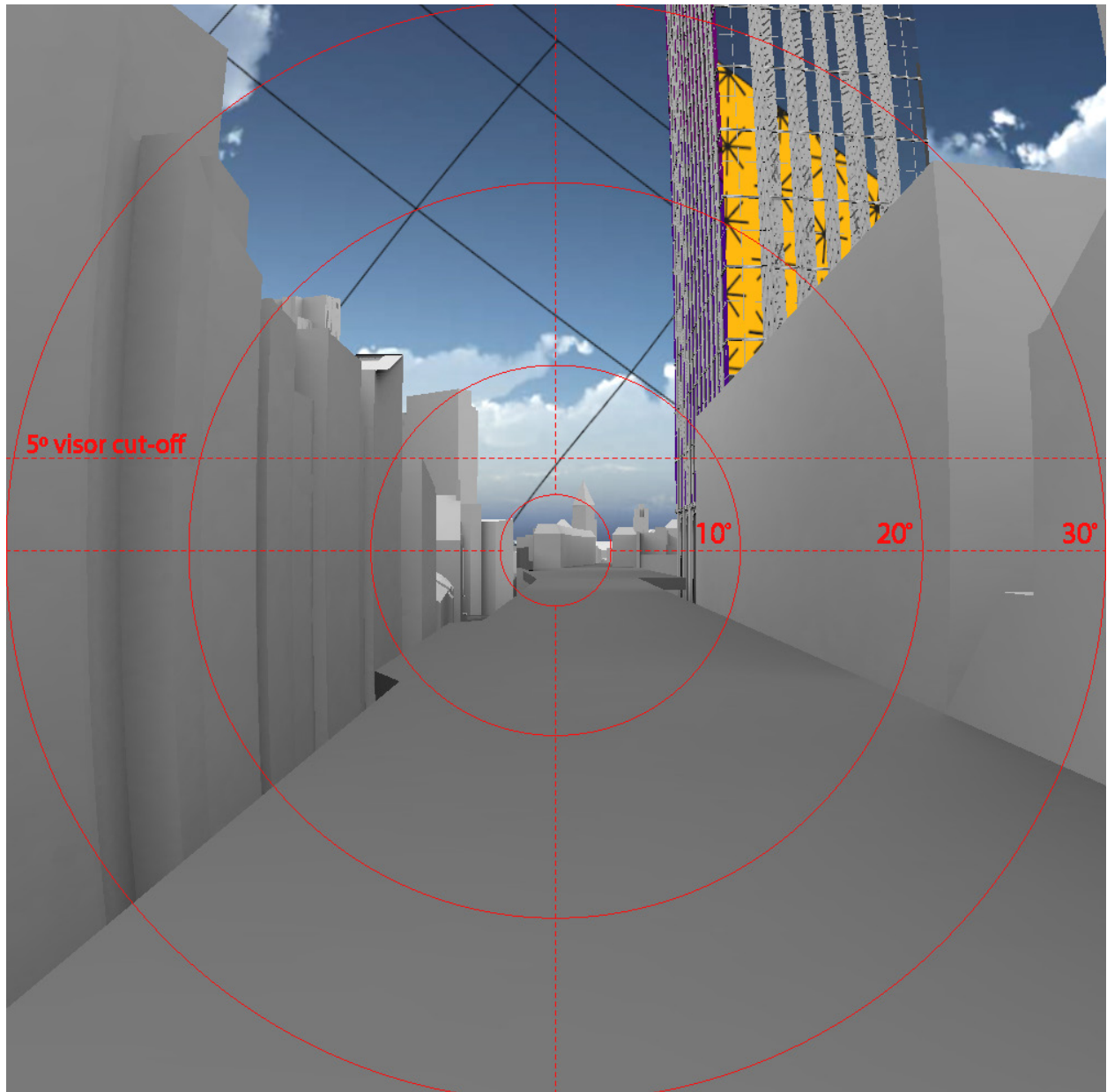
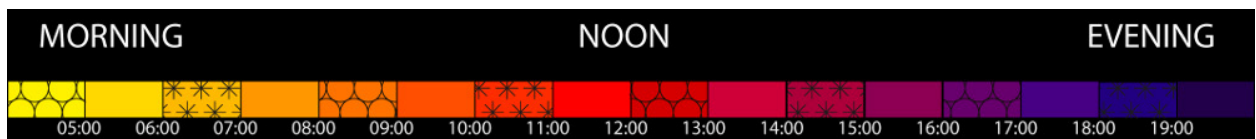


Fig. 44: Solar reflections



60° Field Of View: SeASOn
ViewPOinT RAIL 2 - WeSTBOUnd TO deAnSGATe

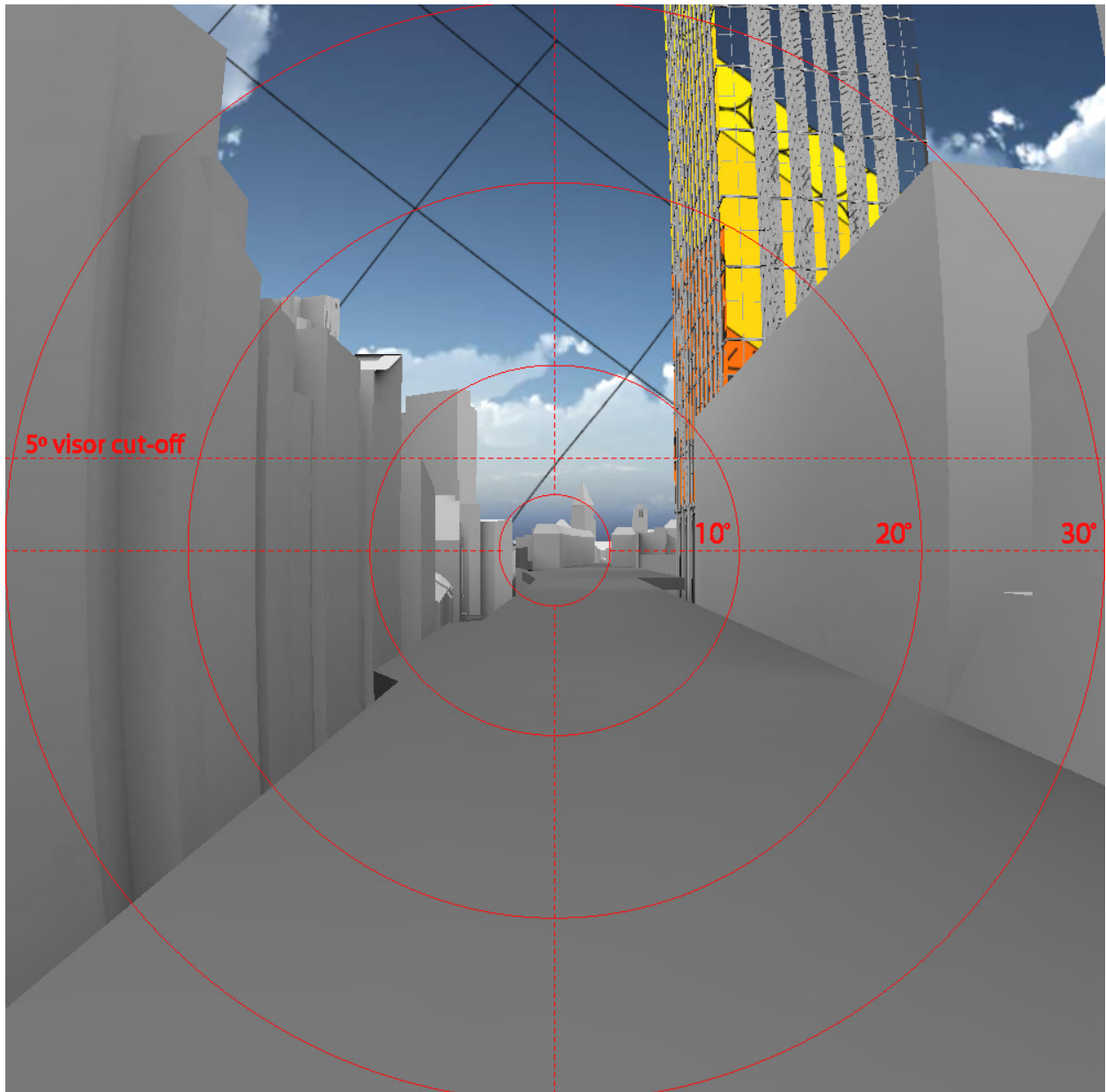


Fig. 45: Solar reflections



60° Field OF View: Time OF dAY
ViewPOint T RAIL 3 - eASTBOUND TO deAn SGATe

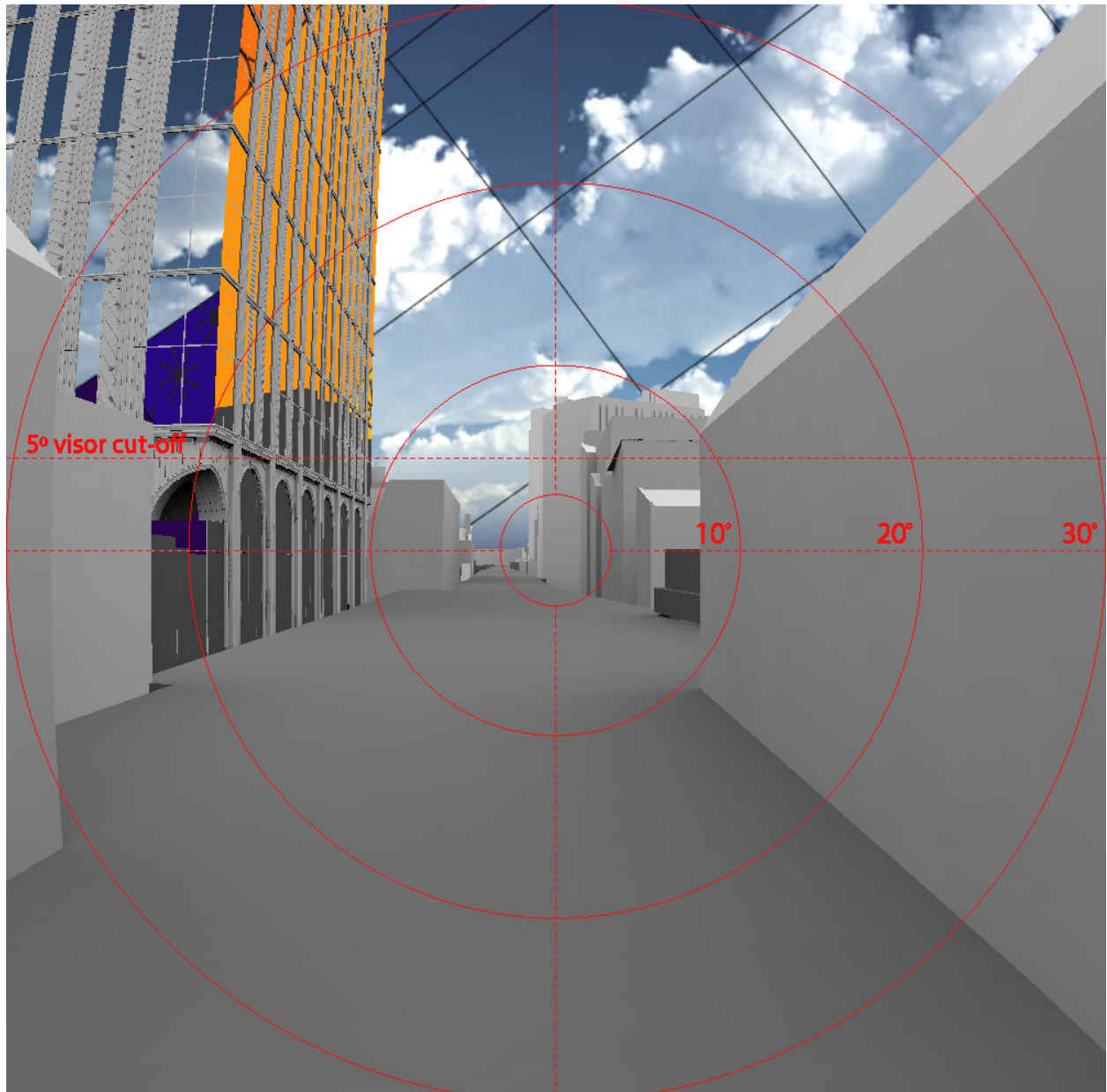
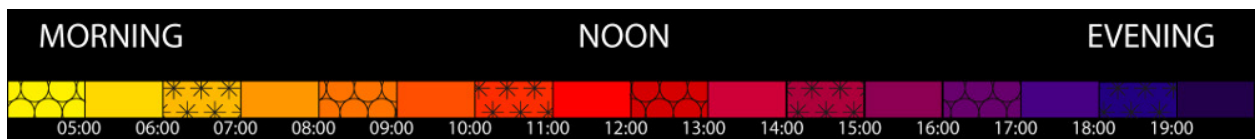


Fig. 46: Solar reflections



60° Field Of View: SeASOn
ViewPOinT RAIL 3 - eASTBOUnD TO deAnSGATe

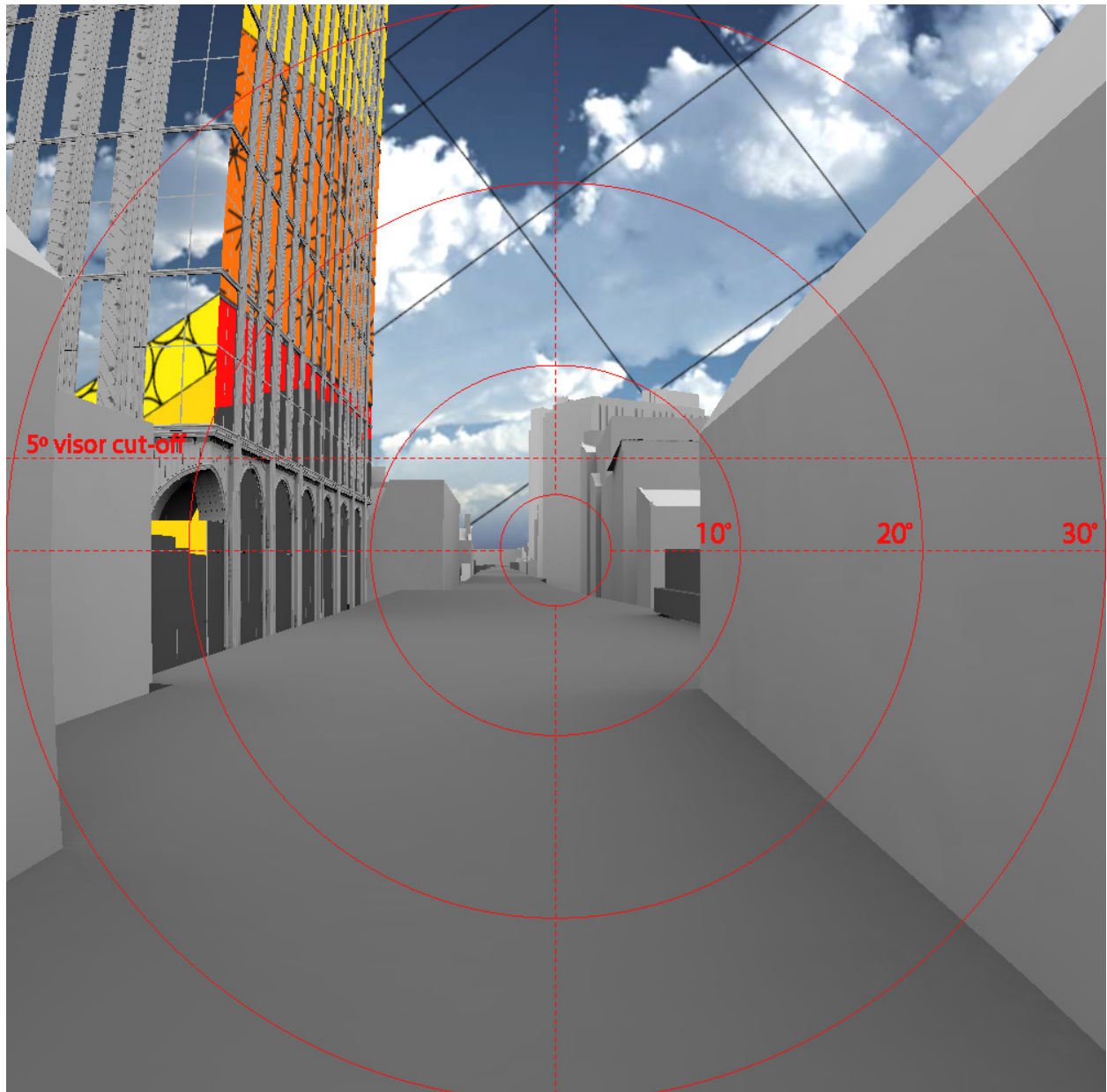


Fig. 47: Solar reflections



60° Field OF View: Time OF day
ViewPOint RAIL 4 - eASTBOUnd TO deAn SGATe

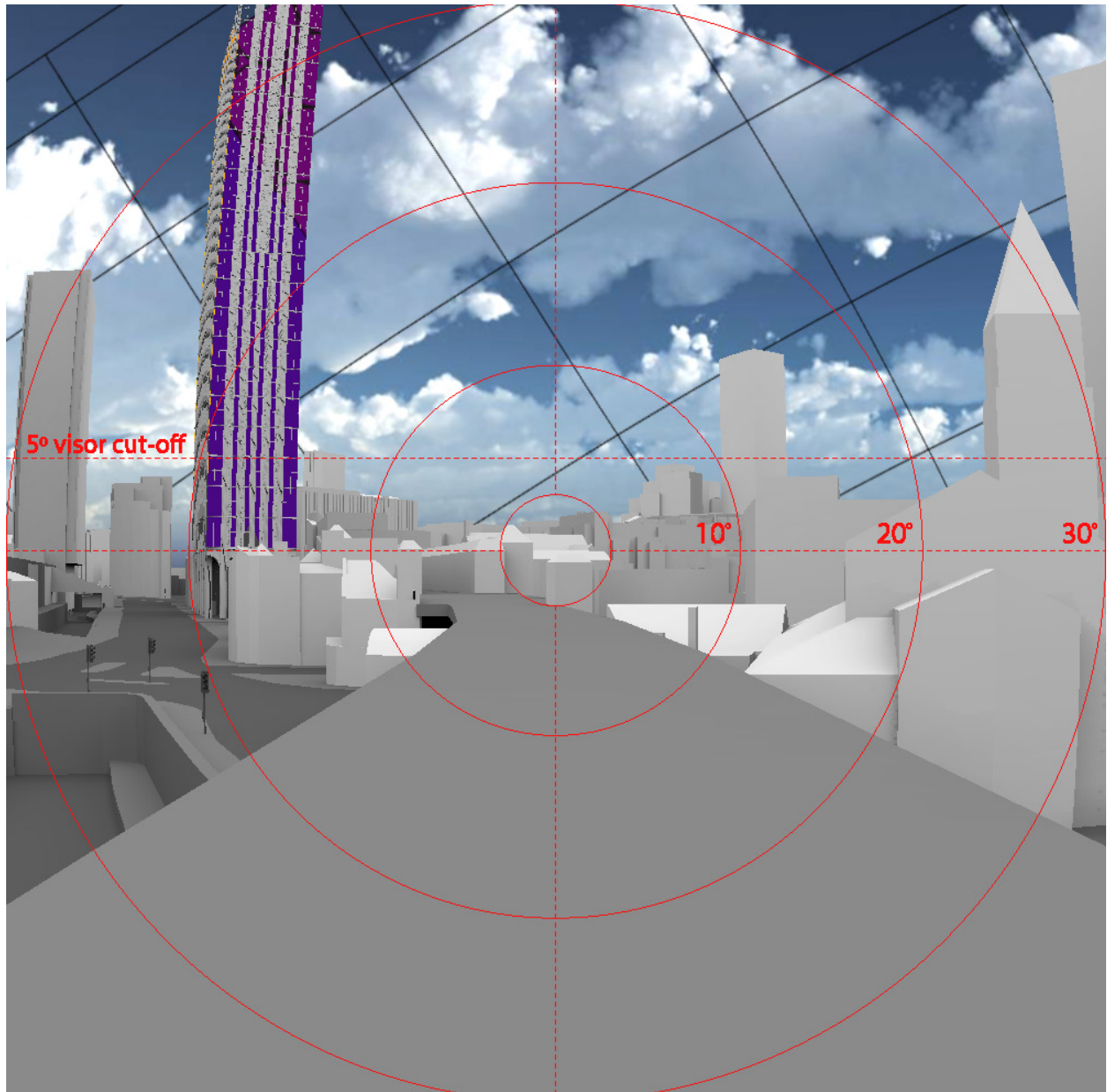
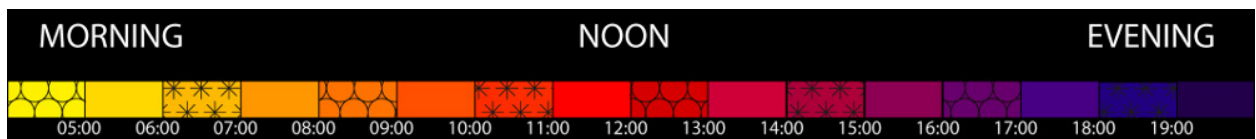


Fig. 48: Solar reflections



60° Field Of View: SeASON
ViewPOint T RAIL 4 - eASTBOUnd TO deAn SGATe

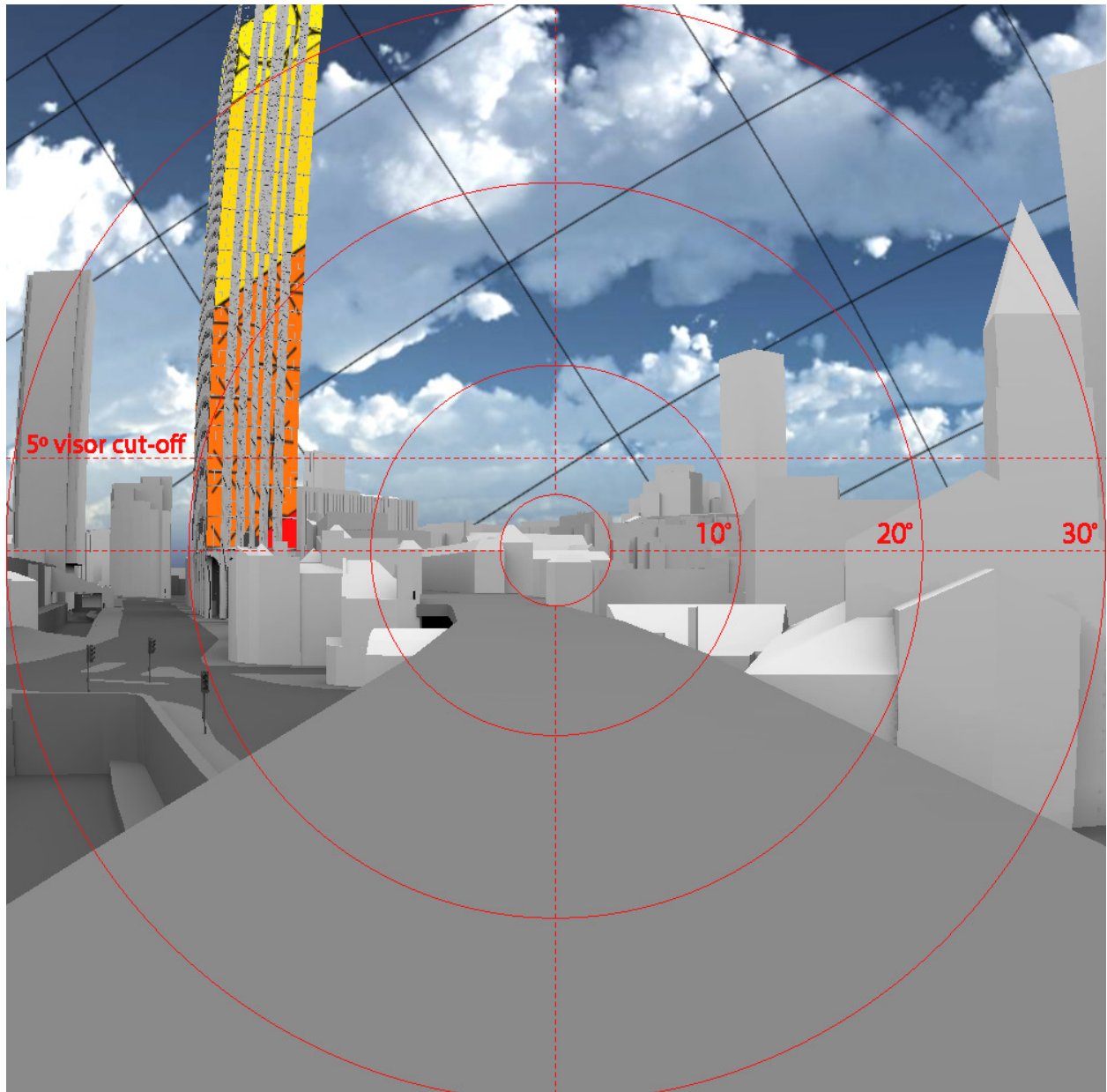


Fig. 49: Solar reflections



60° Field Of View: Time Of day
Viewpoint RAIL 5 - eastbound to deAnSGATe

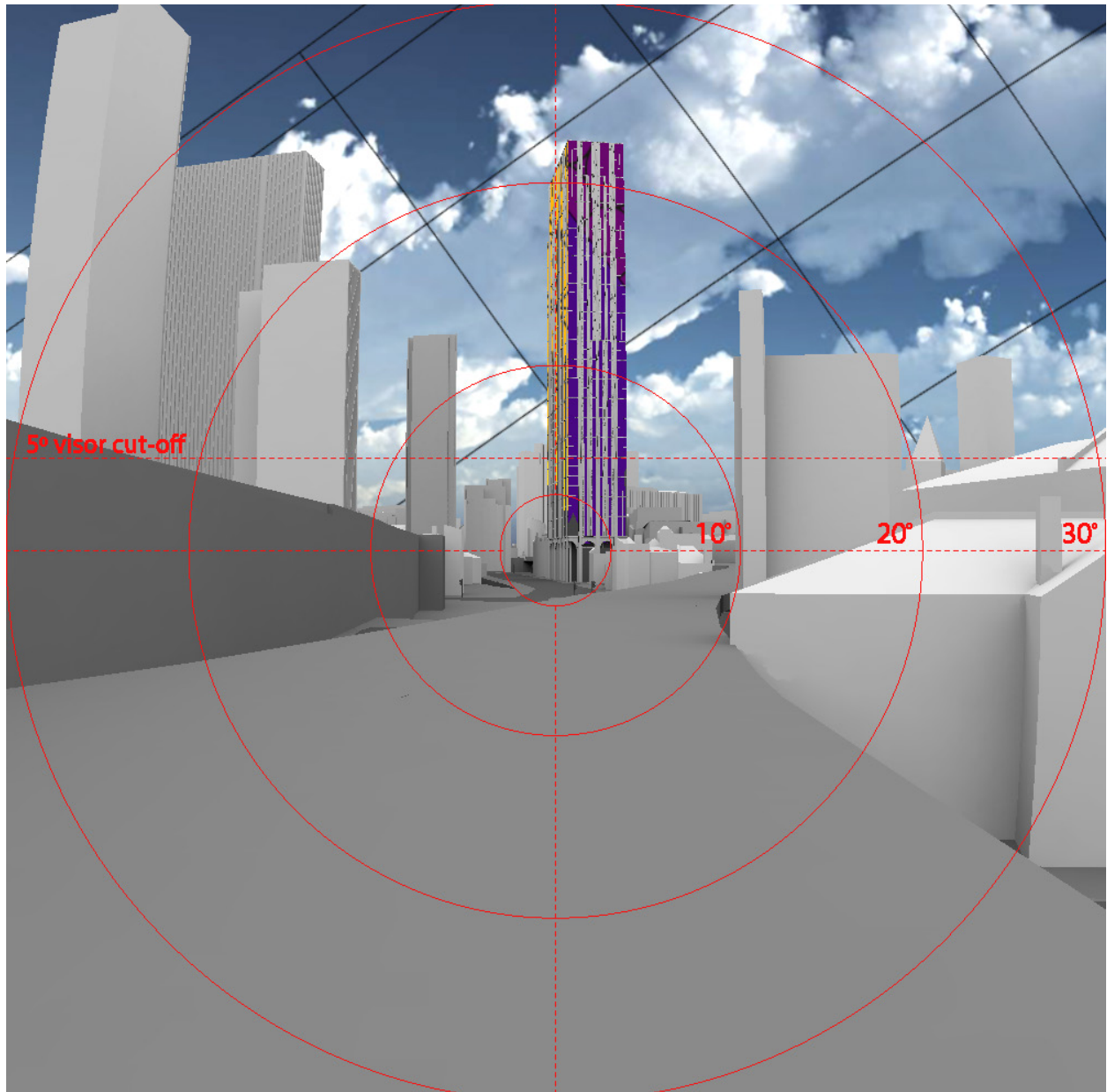
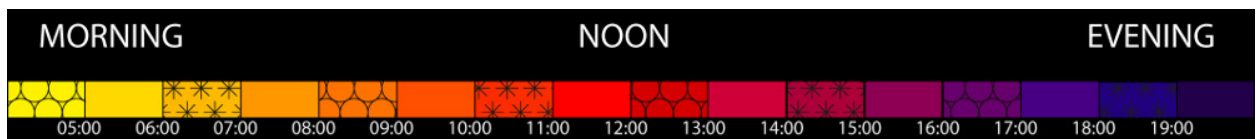


Fig. 50: Solar reflections



60° Field Of View: SeASOn
ViewPOint RAIL 5 - eASTBOUnd TO deAnSGATe

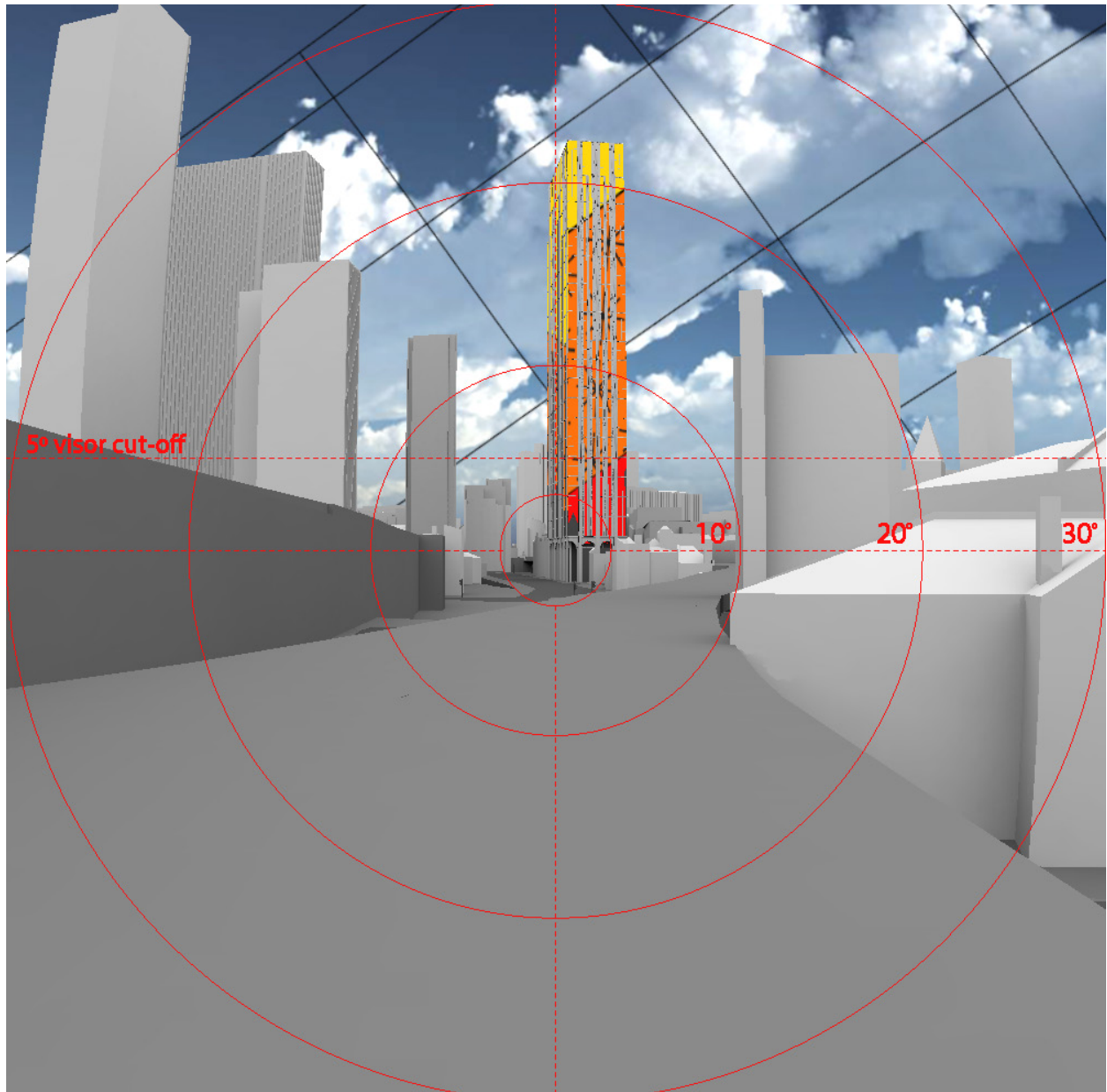


Fig. 51: Solar reflections



60° Field OF View: Time OF dAY
ViewPOint RAIL 6 - eASTBOUnd TO deAnSGATe

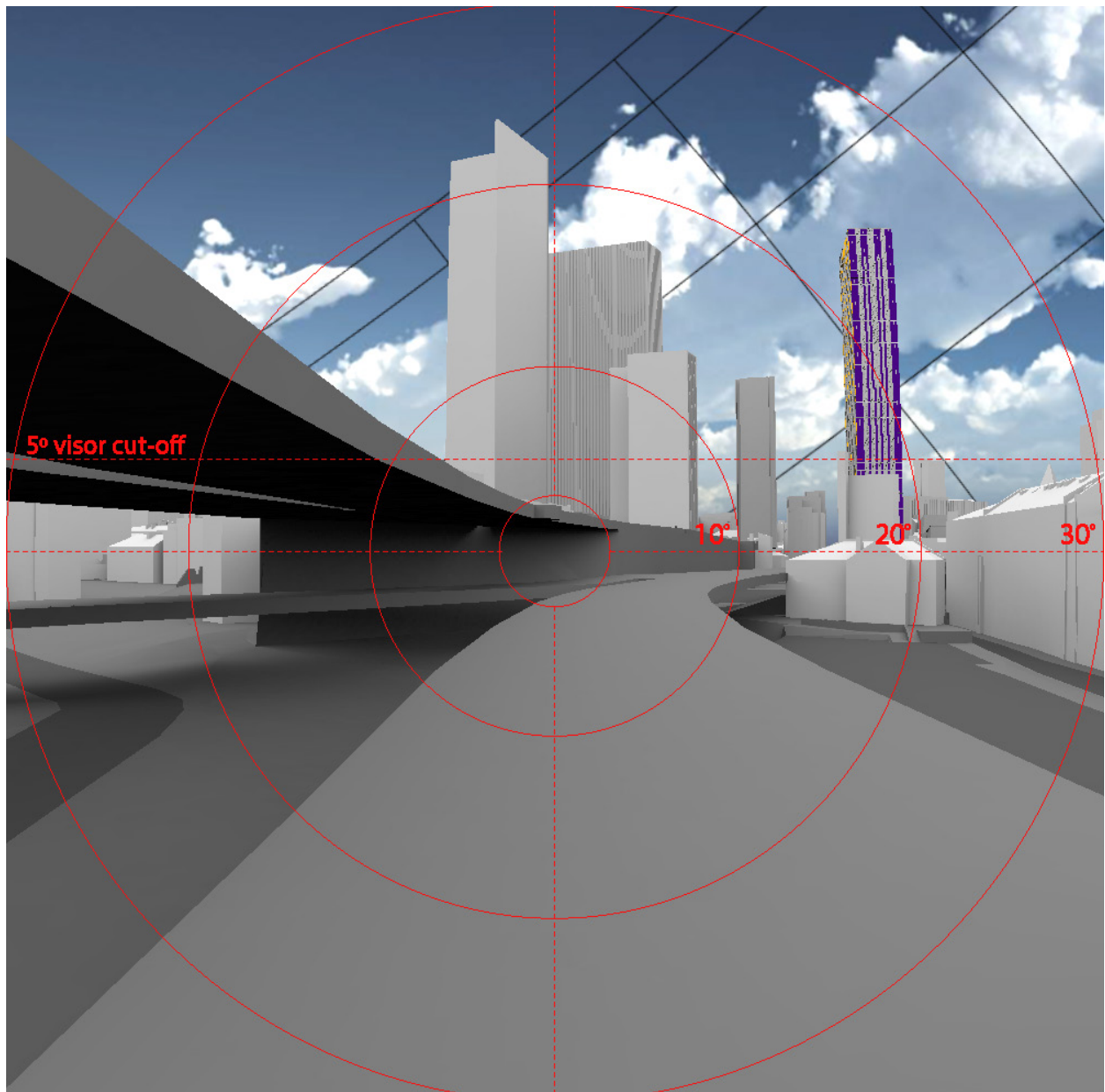
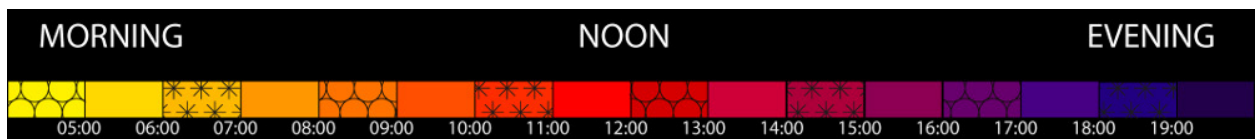


Fig. 52: Solar reflections



60° Field Of View: SeASOn
ViewpOinT RAIL 6 - eASTBOUnd TO deAnSGATe

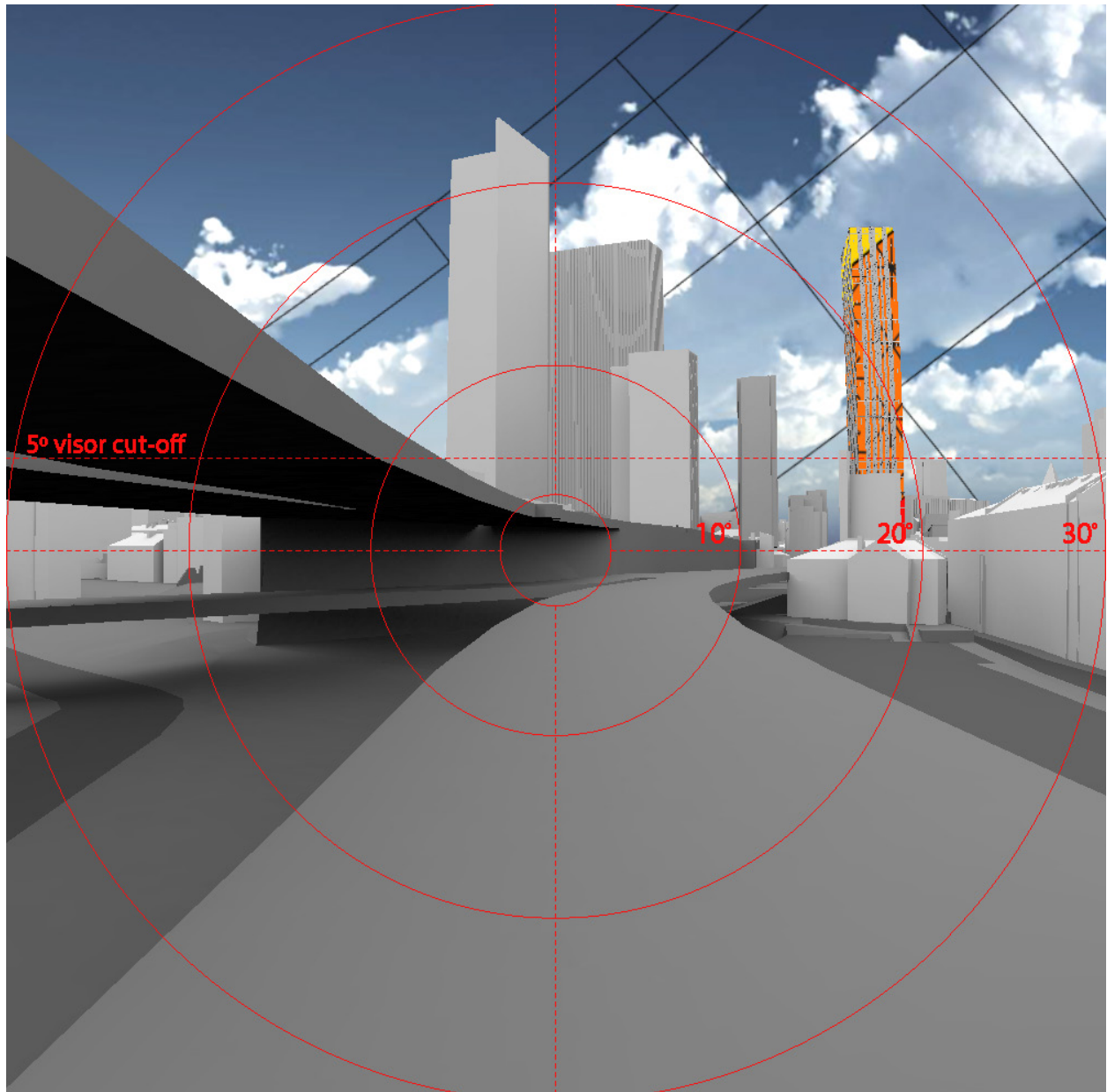


Fig. 53: Solar reflections



60° Field OF View: Time OF day
ViewPOint RAIL 7 - eASTBOUnd TO deAnSGATe

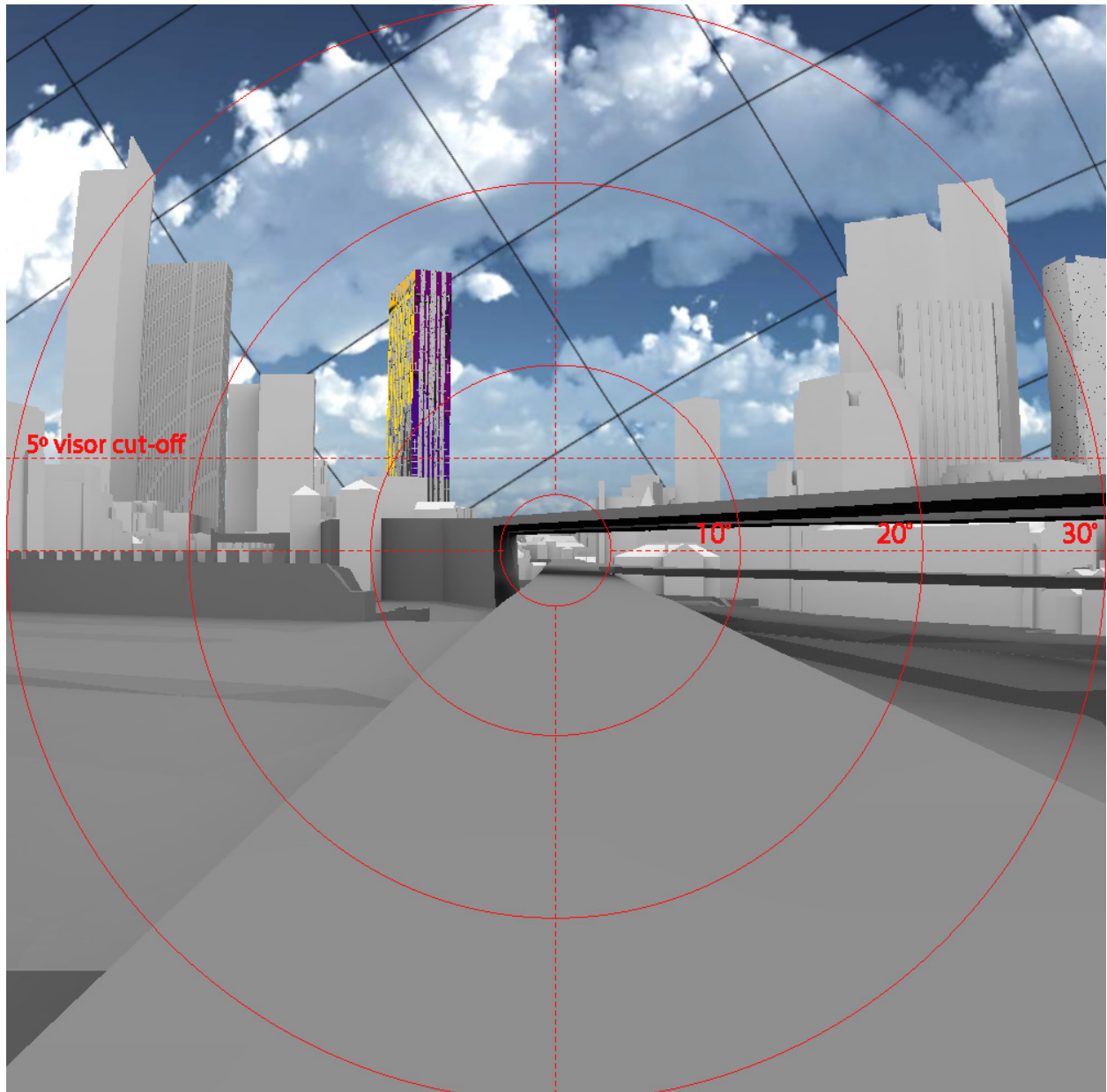
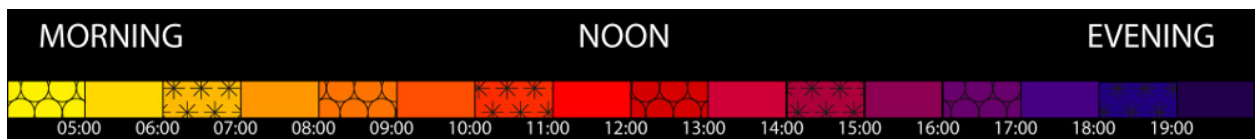


Fig. 54: Solar reflections



60° Field Of View: SeASOn
ViewPOinT RAIL 7 - eASTBOUnd TO deAnSGATe

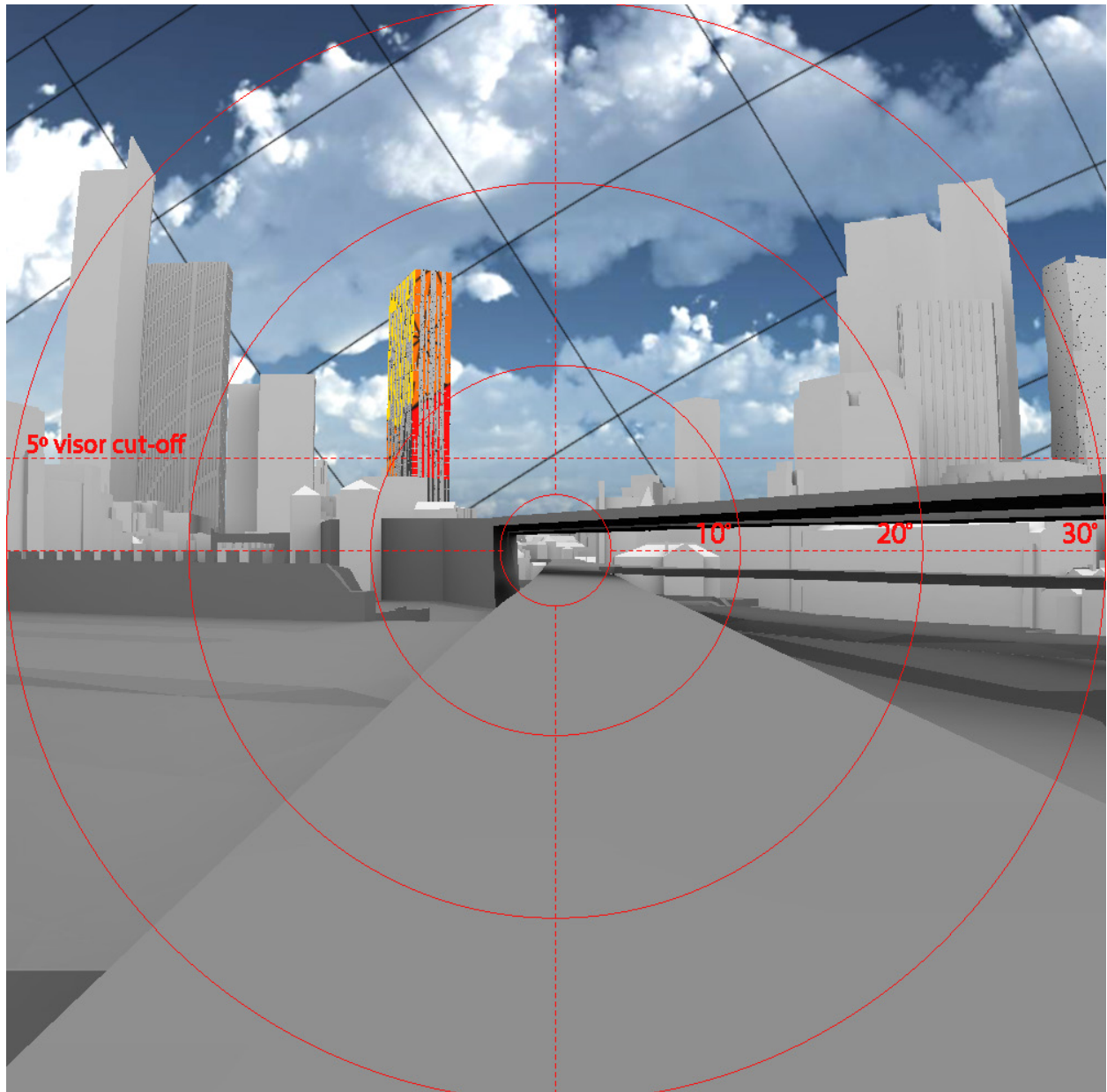


Fig. 55: Solar reflections





What we do:

Building Surveying

Daylight & Sunlight

Light Obstruction Notices

Measured Surveys

Party Wall & Neighbourly Matters

Rights of Light

Solar PV

Wind Analysis

Where we are:

Belfast

Birmingham

Bristol

Dublin

London

Manchester