



Unlocking potential for a better built environment

APPENDIX 11.2

SOLAR GLARE ASSESSMENT

Stocktons Site

12 December 2024

GIA No: **19504**

PROJECT DATA:

Client **Liquid Business (Manchester) Limited**
Architect **Simpson Hough**
Project Title **Stocktons Site**
Project Number **19504**

REPORT DATA:

Report Title **Solar Glare Assessment**
GIA Department **Appendix 11.2**
Dated **12 December 2024**

Prepared by **RL / CN**
Checked by **KST**
Type **ES Chapter**

Revisions	No:	Date:	Notes:	Signed:

DISCLAIMER:

N.B This report has been prepared for Liquid Business (Manchester) Limited by GIA as their appointed Daylight & Sunlight consultants. This report is intended solely for Liquid Business (Manchester) Limited and may contain confidential information. No part or whole of its contents may be disclosed to or relied upon by any Third Parties without the express written consent of GIA. It is accurate as at the time of publication and based upon the information we have been provided with as set out in the report. It does not take into account changes that have taken place since the report was written nor does it take into account private information on internal layouts and room uses of adjoining properties unless this information is publicly available.

SOURCES OF INFORMATION:

Information Received **IR-08-19504**
Release Number **Rel_02_19504_DSD**
Issue Number **01**
Site Photos **GIA**
3D models **VU.CITY**
OS Data **FIND Maps**



CONTENTS

1	SCENARIO OVERVIEW	2
2	LOCATION OF SENSITIVE JUNCTIONS	4
3	SOLAR GLARE ASSESSMENT	6

1 SCENARIO OVERVIEW

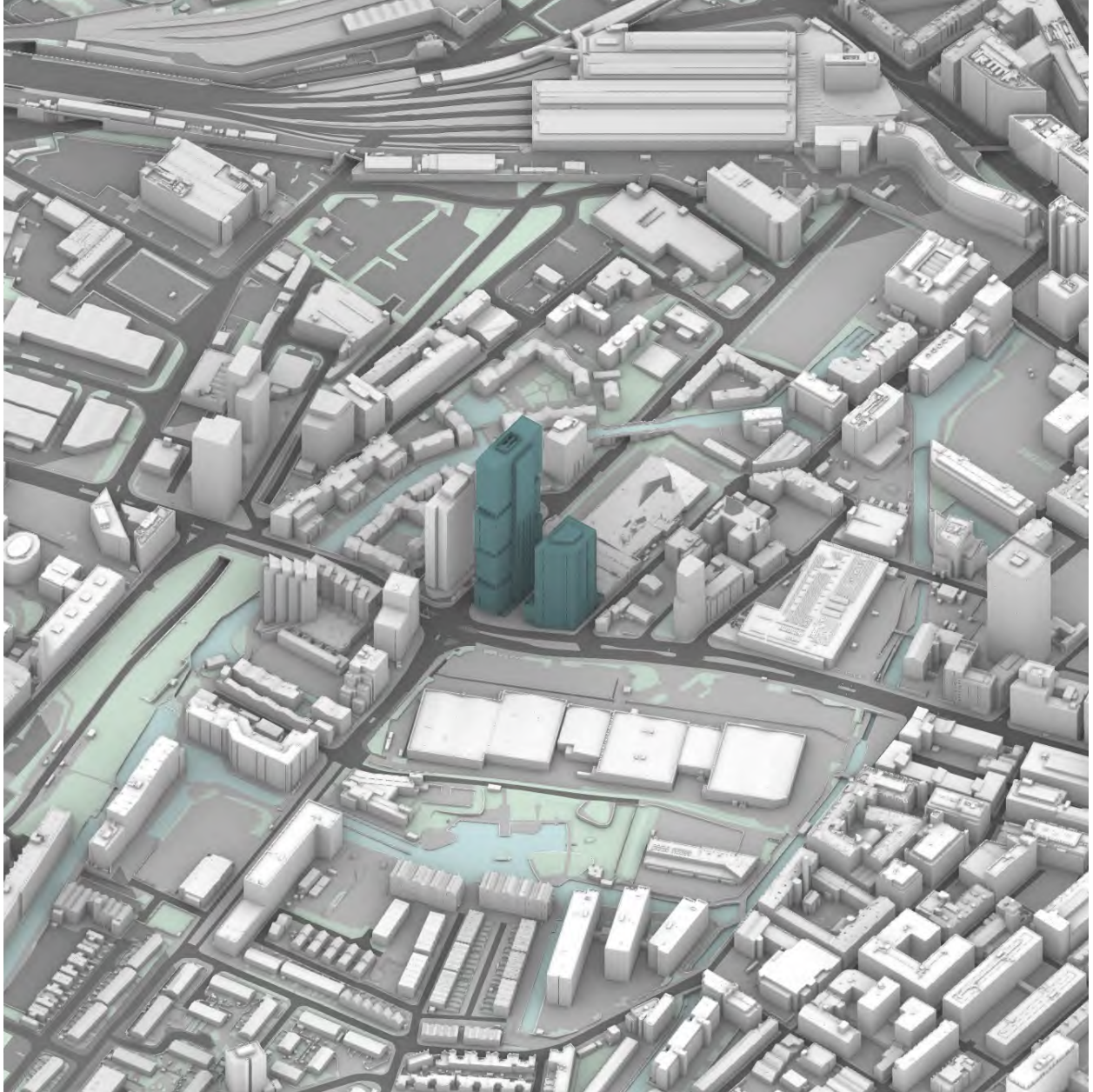


Fig. 01: Site Overview Perspective

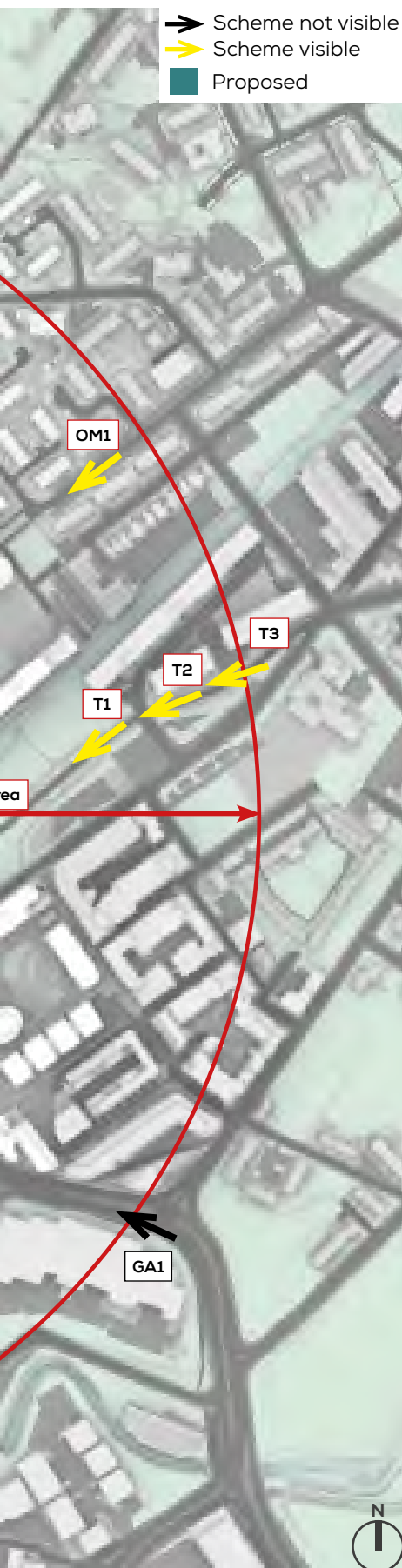


Fig. 02: Site Plan - Viewpoints

2 LOCATION OF SENSITIVE JUNCTIONS



Fig. 03: Site Overview Perspective



Viewpoint Key

WS - Woodward Street junction with Weybridge Road/New Islington (page 06-07)

RS - Radium Street junction with Redhill Street (not assessed)

BS - Bengal Street junction with Redhill Street (page 08-09)

MS1 - Murray Street junction with Jersey Street (page 10-11)

MS2 - Murray Street junction with Redhill Street (page 12-13)

HS - Henry Street junction with Redhill Street (page 14-15)

PfS - Pickford Street junction with Redhill Street (page 16-17)

HwS1 - Houldsworth Street junction with Newton Street (page 18-19)

HwS2 - Houldsworth Street junction with Dean Street (page 20-21)

HwS3 - Houldsworth Street junction with Port Street (not assessed)

PS - Postal Street junction with Dean Street (not assessed)

TS - Tarrif Street junction with Laystall Street (not assessed)

LS - Laystall Street junction with Great Ancoats Street (not assessed)

SS1 - Store Street pedestrian crossing (page 22-23)

SS2 - Store Street junction with Great Ancoats Street (page 24-25)

OM1 - Old Mill Street junction with Weybridge Street (page 26-27)

OM2 - Old Mill Street pedestrian crossing (page 28-29)

OM3 - Old Mill Street junction with Great Ancoats Street (page 30-33)

GA1 - Great Ancoats Street pedestrian crossing (not assessed)

GA2 - Great Ancoats Street junction with Adair Street (page 34-37)

GA3 - Great Ancoats Street junction with Pollard Street (page 38-41)

GA4 - Great Ancoats Street junction with Store Street/Old Mill (page 42-45)

GA5 - Great Ancoats Street junction with Newton Street (page 46-49)

GA6 - Great Ancoats Street junction with pedestrian crossing (page 50-53)

GA7 - Great Ancoats Street pedestrian crossing (page 54-57)

GA8 - Great Ancoats Street junction with Laystall Street (page 58-61)

GA9 - Great Ancoats Street junction with Old Mill Street (not assessed)

T1 - Tram view (page 62-63)

T2 - Tram view (page 64-65)

T3 - Tram view (page 66-67)

3 SOLAR GLARE ASSESSMENT

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT WS - LOOKING FORWARD

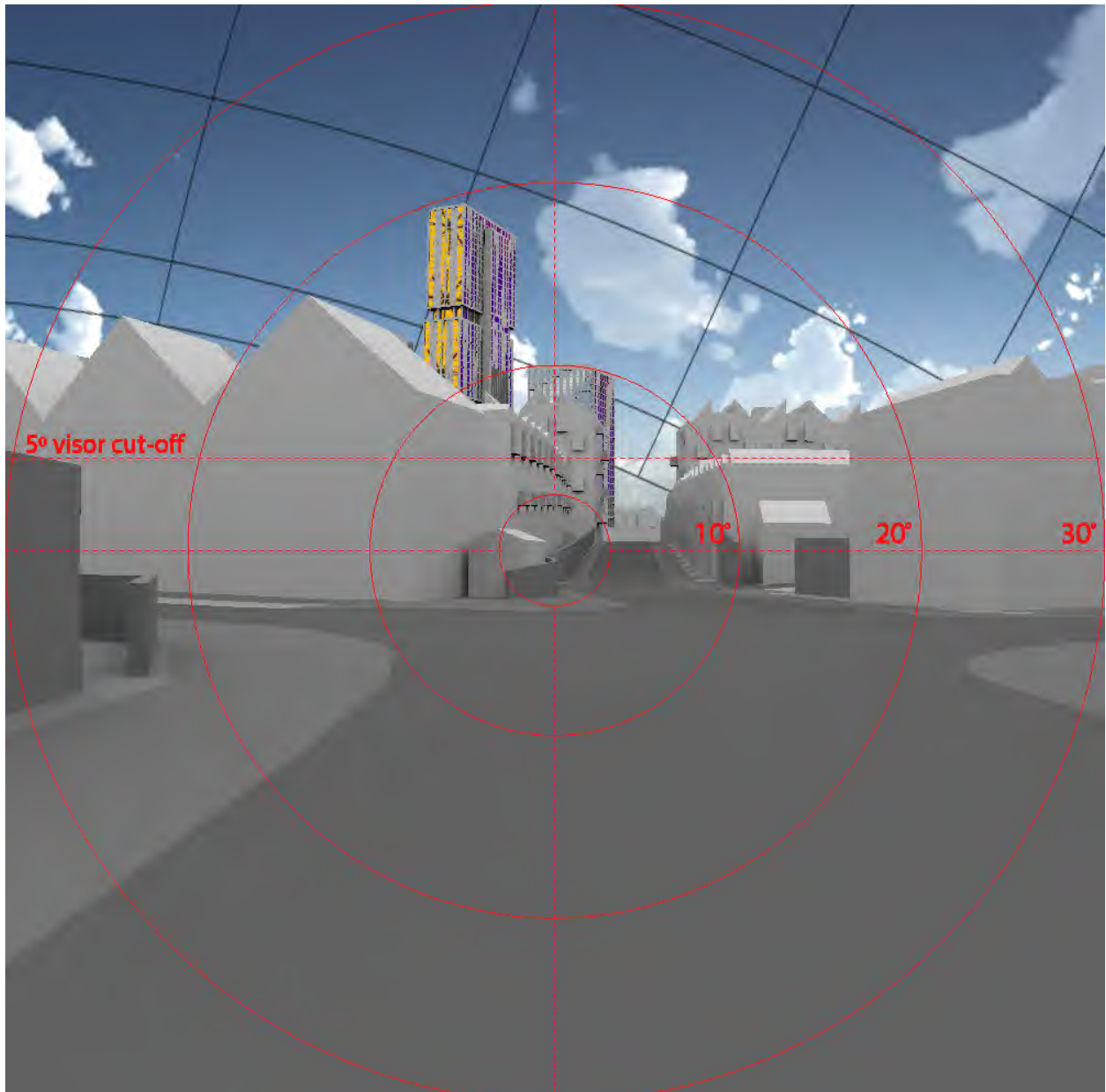
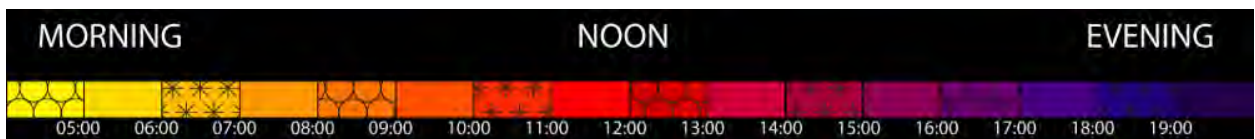


Fig. 04: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT WS - LOOKING FORWARD

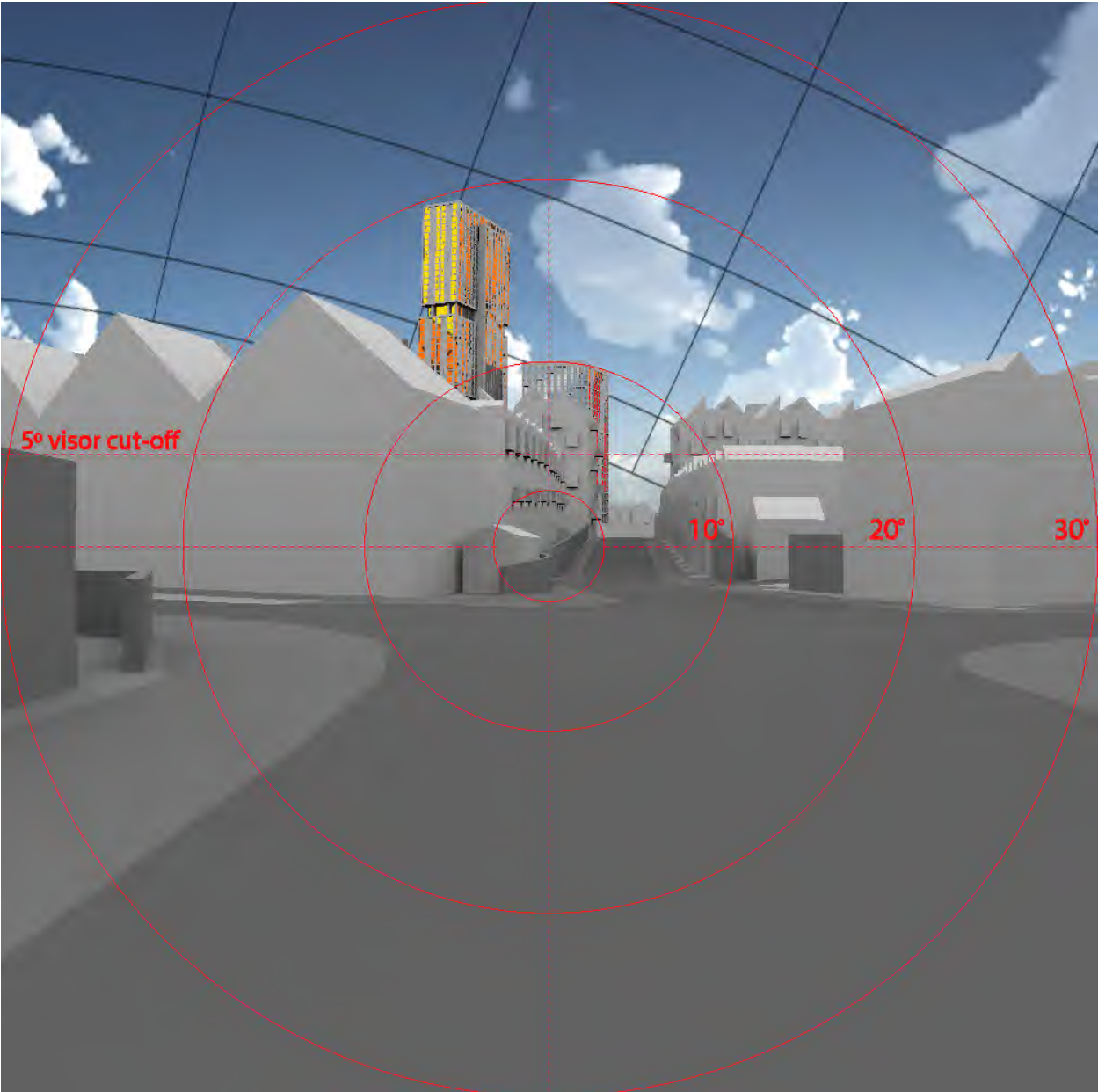


Fig. 05: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT BS - LOOKING FORWARD

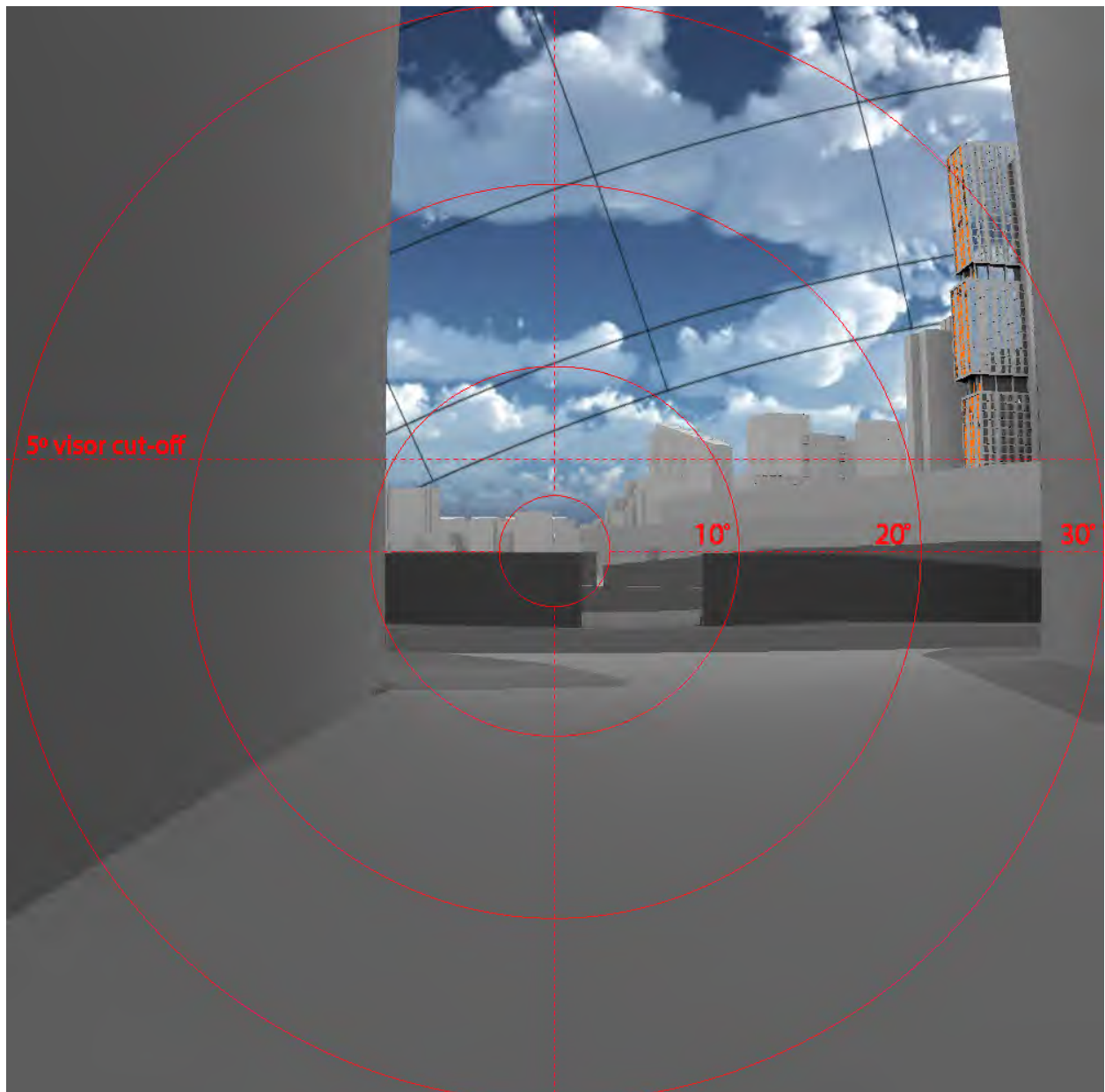
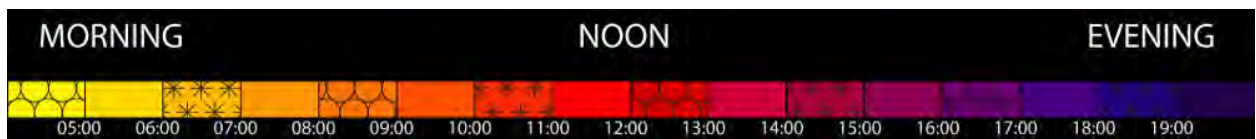


Fig. 06: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT BS - LOOKING FORWARD

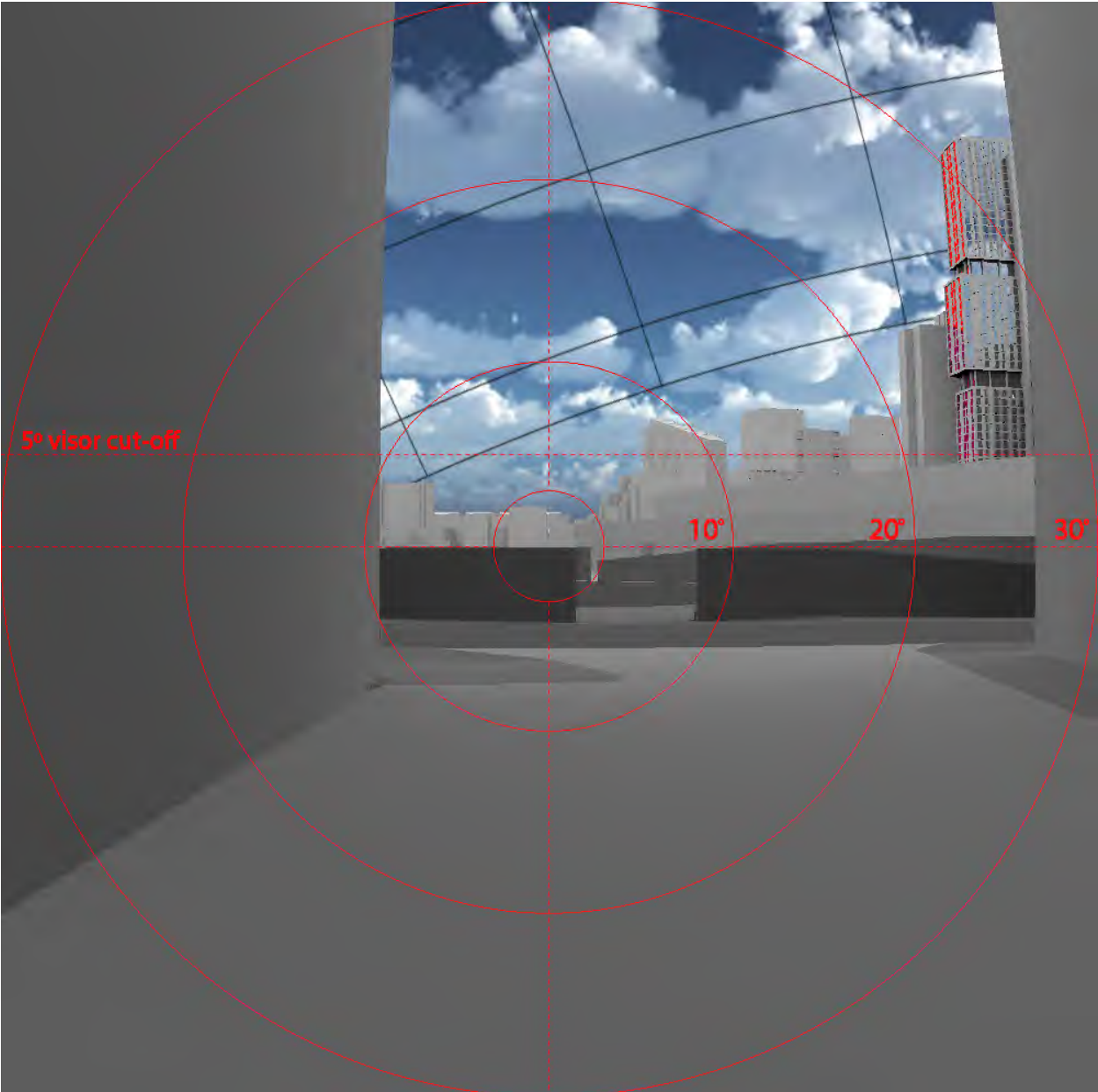


Fig. 07: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MS1 - LOOKING FORWARD

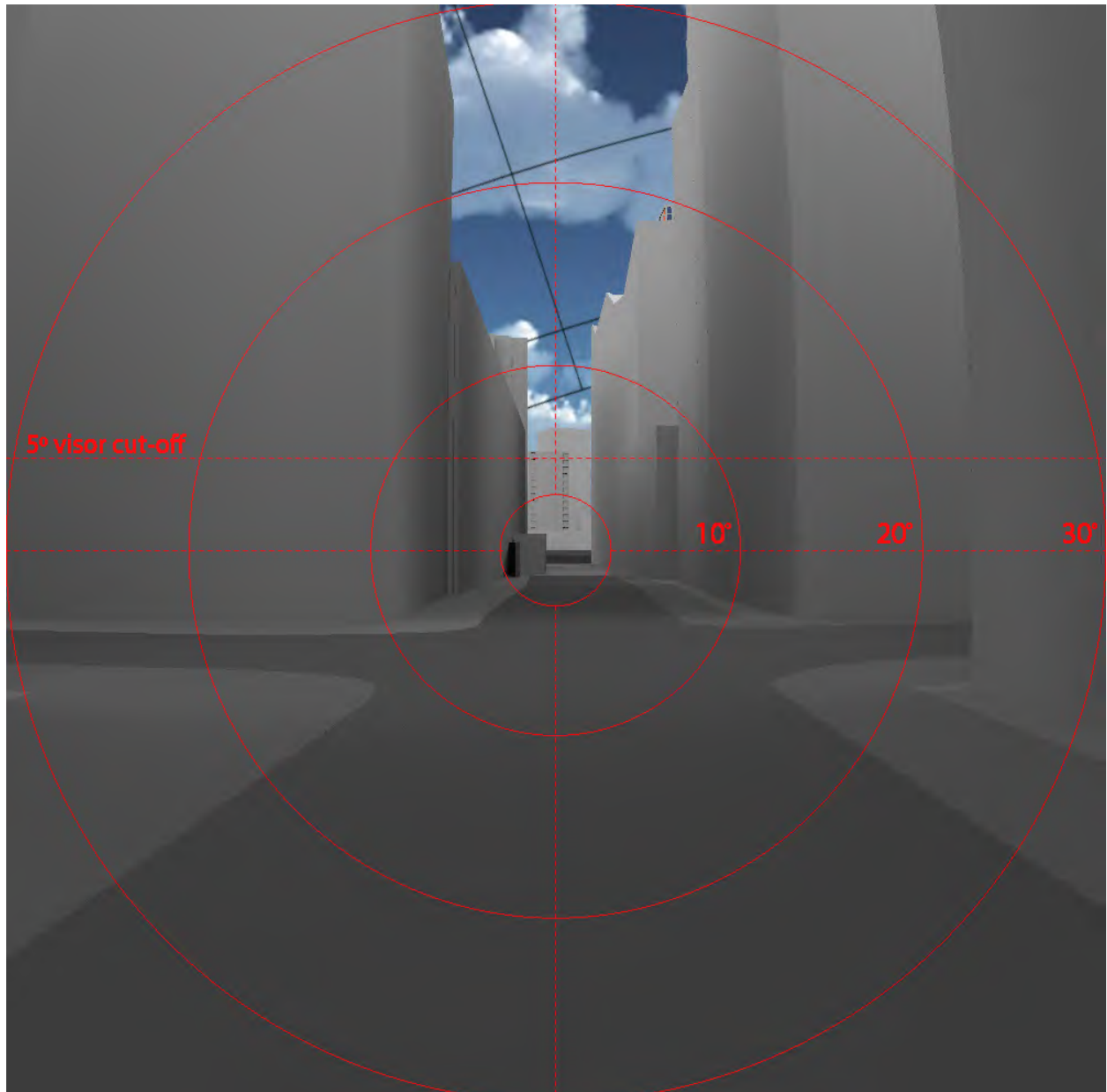
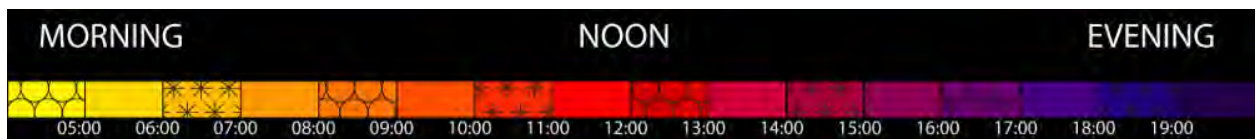


Fig. 08: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MS1 - LOOKING FORWARD

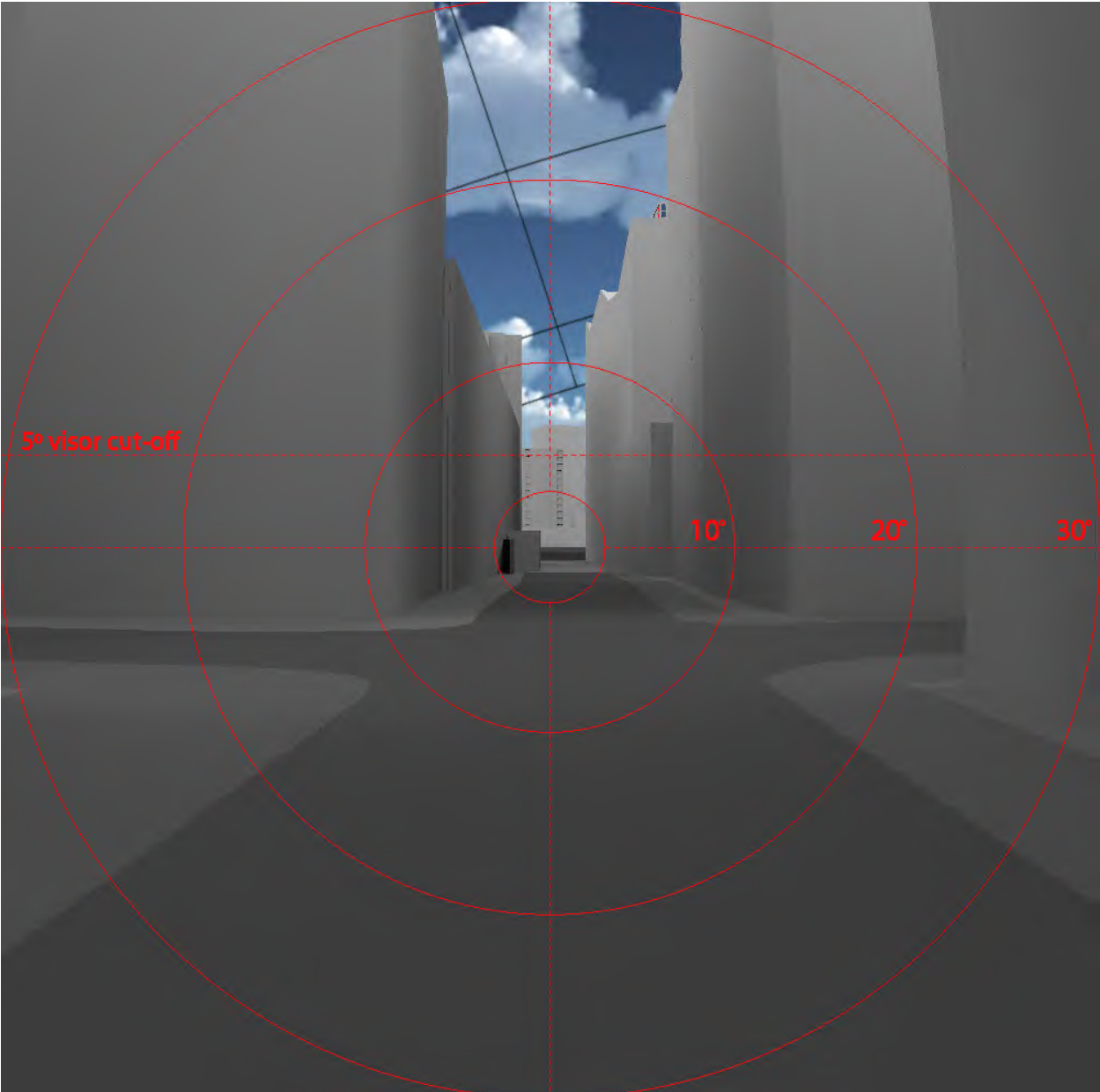


Fig. 09: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MS2 - LOOKING FORWARD

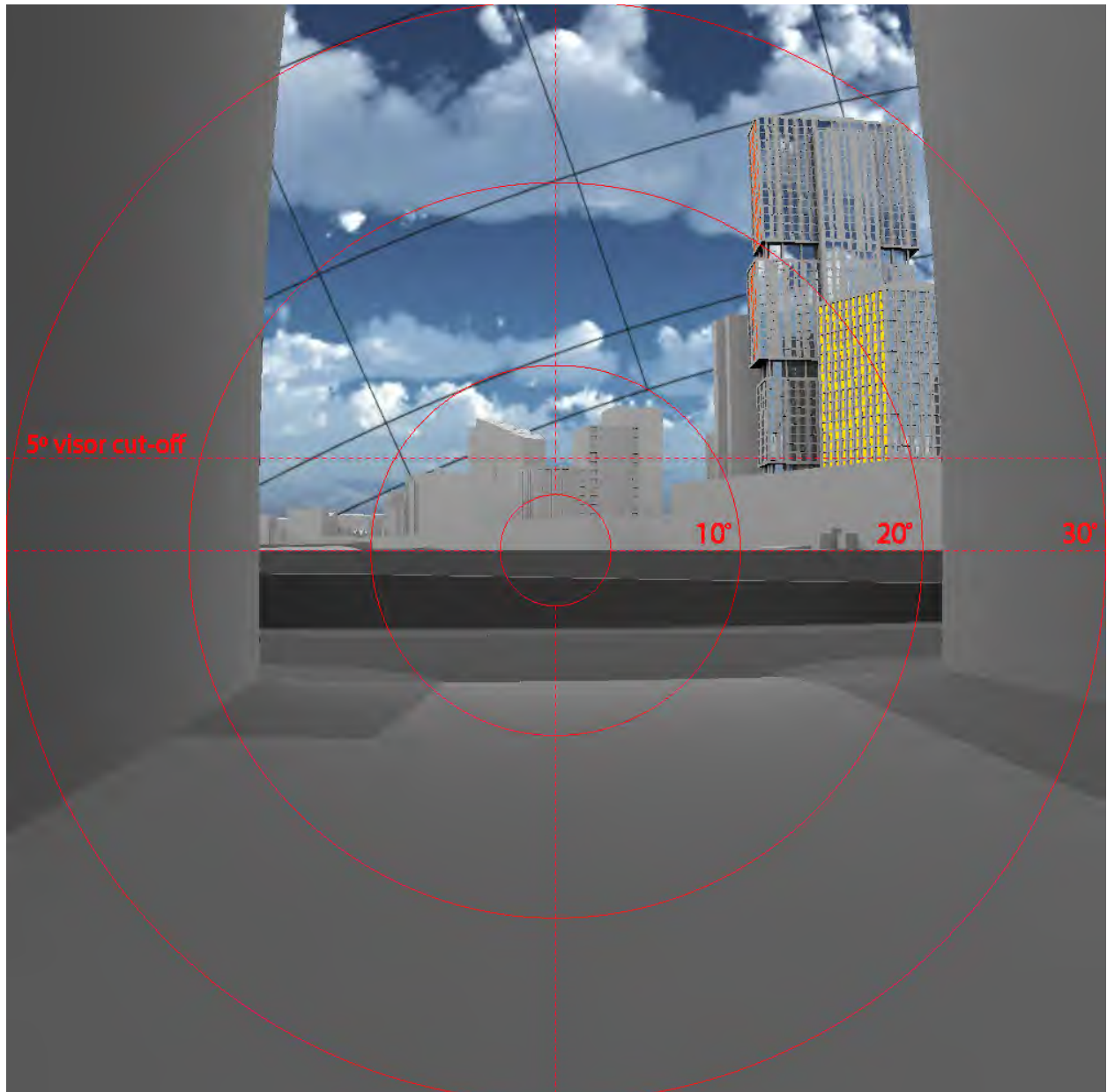
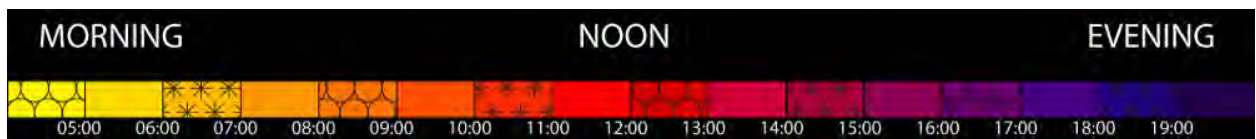


Fig. 10: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MS2 - LOOKING FORWARD

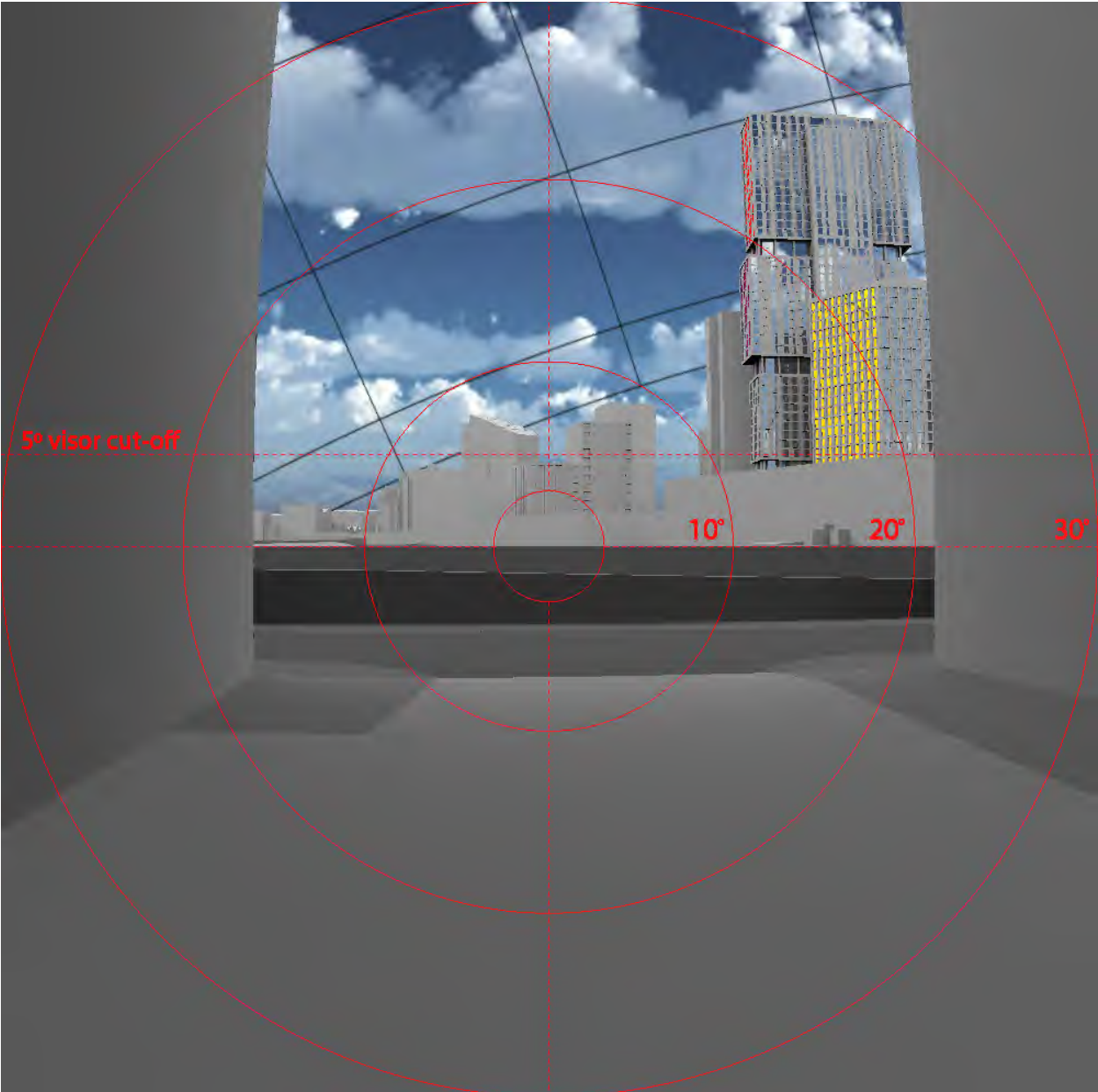


Fig. 11: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT HS - LOOKING FORWARD

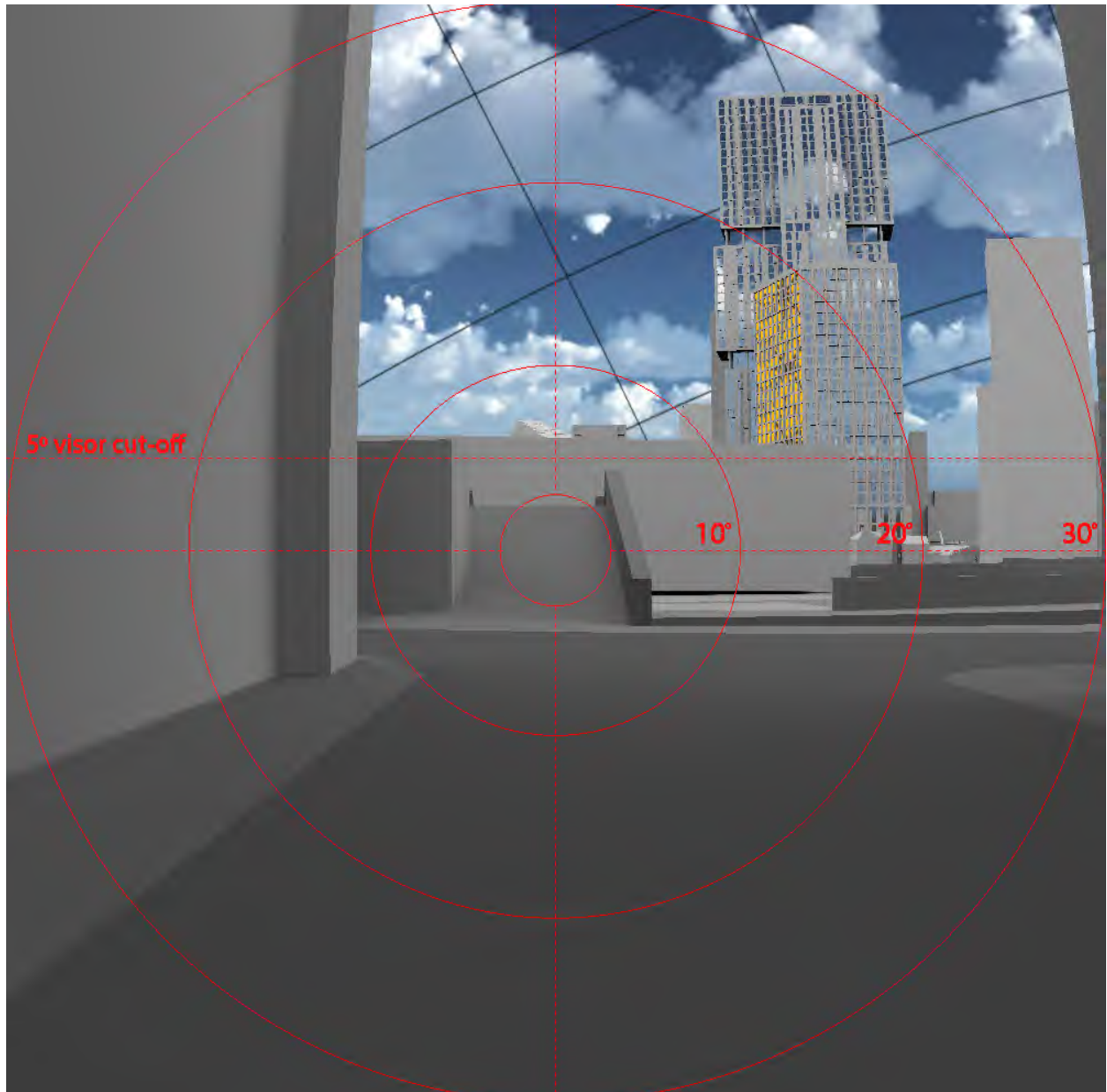
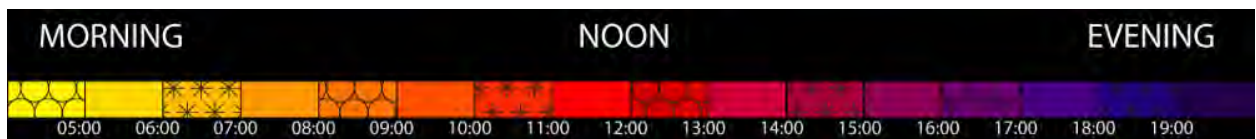


Fig. 12: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT HS - LOOKING FORWARD

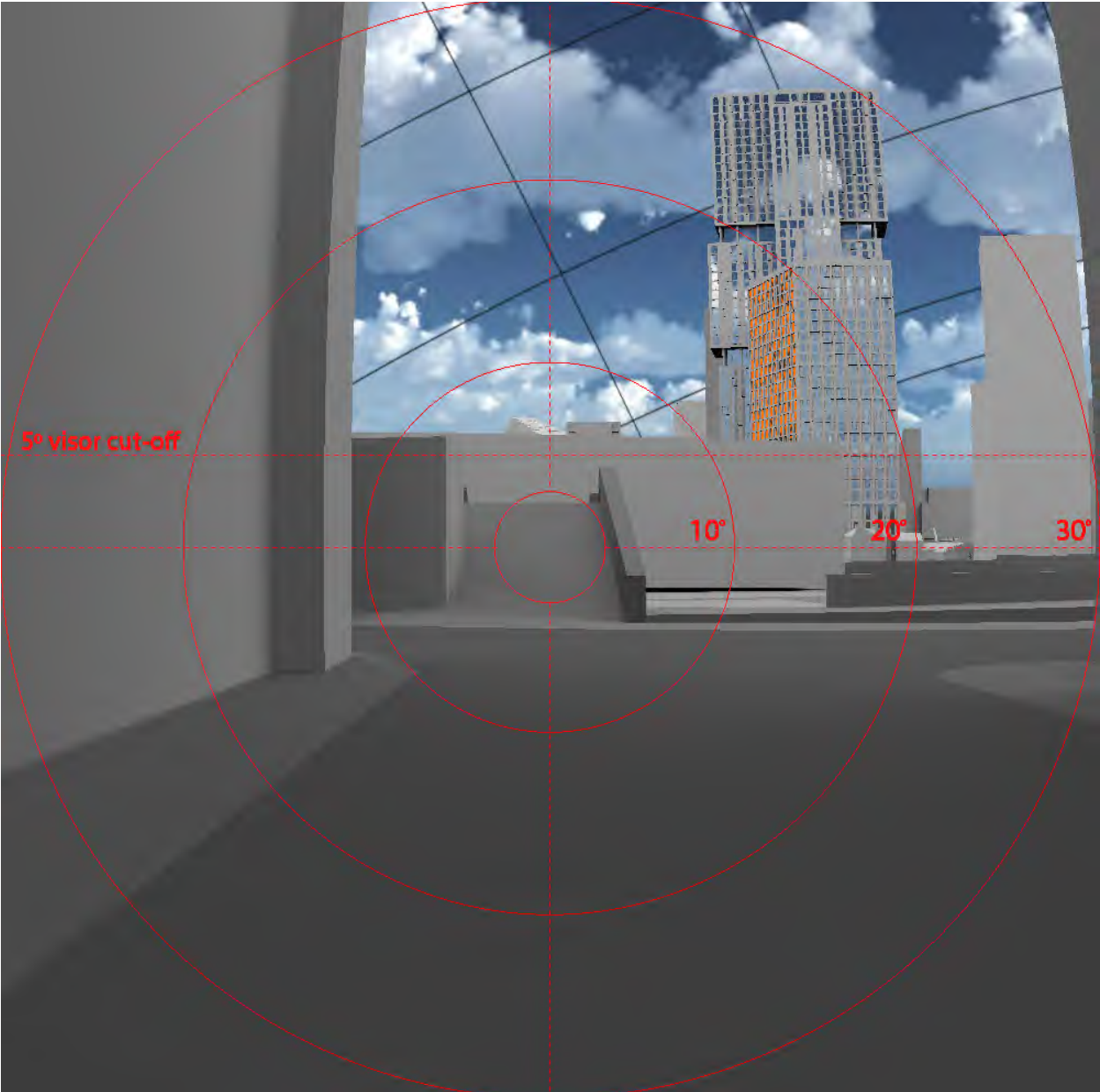


Fig. 13: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT PFS - LOOKING FORWARD

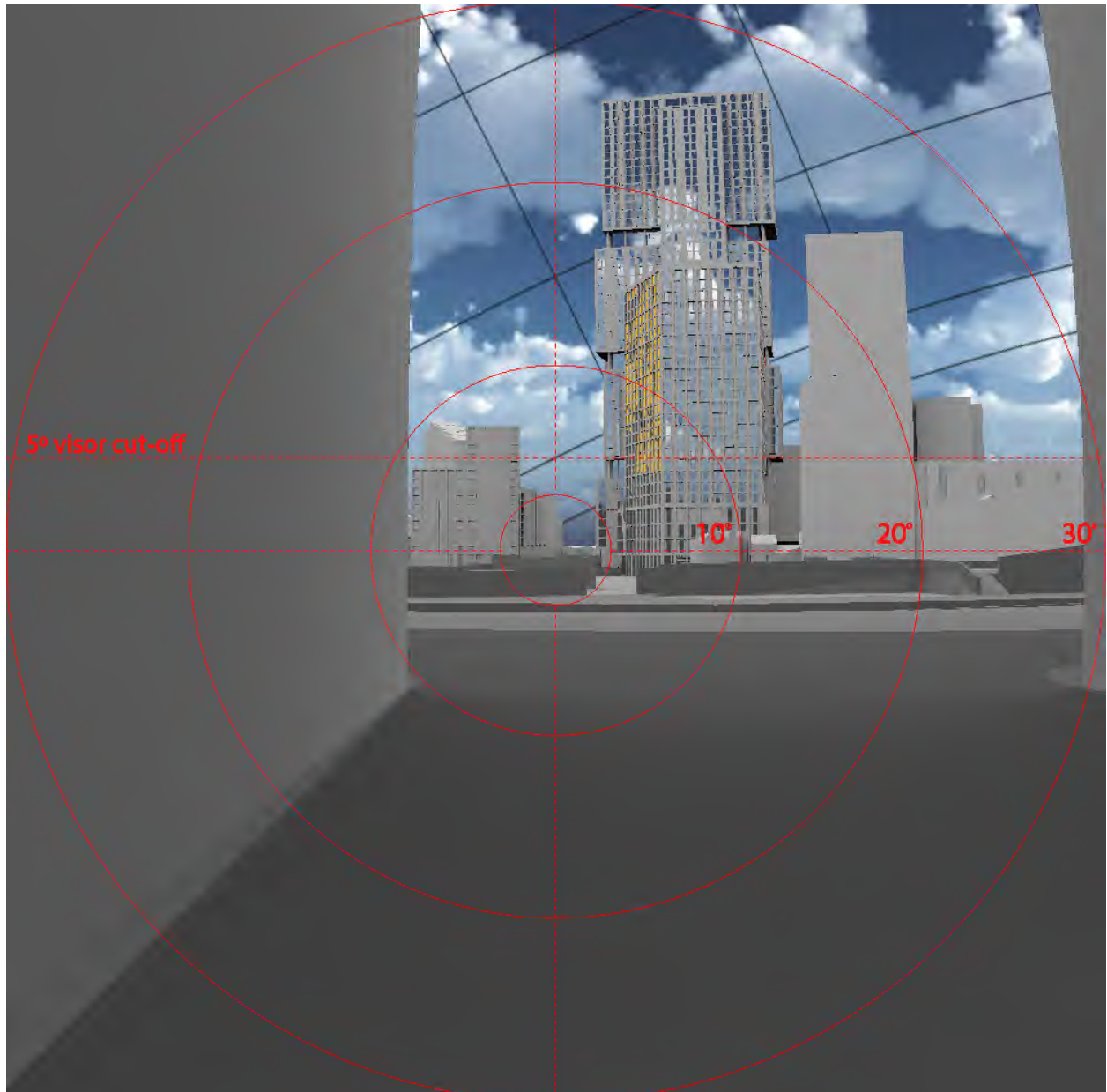
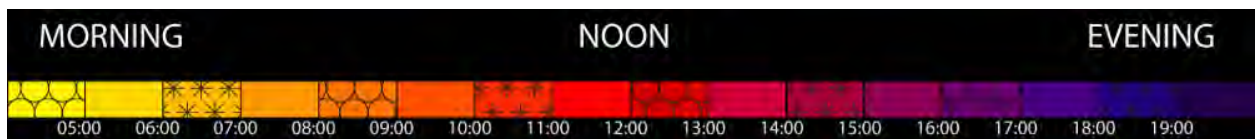


Fig. 14: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT PFS - LOOKING FORWARD

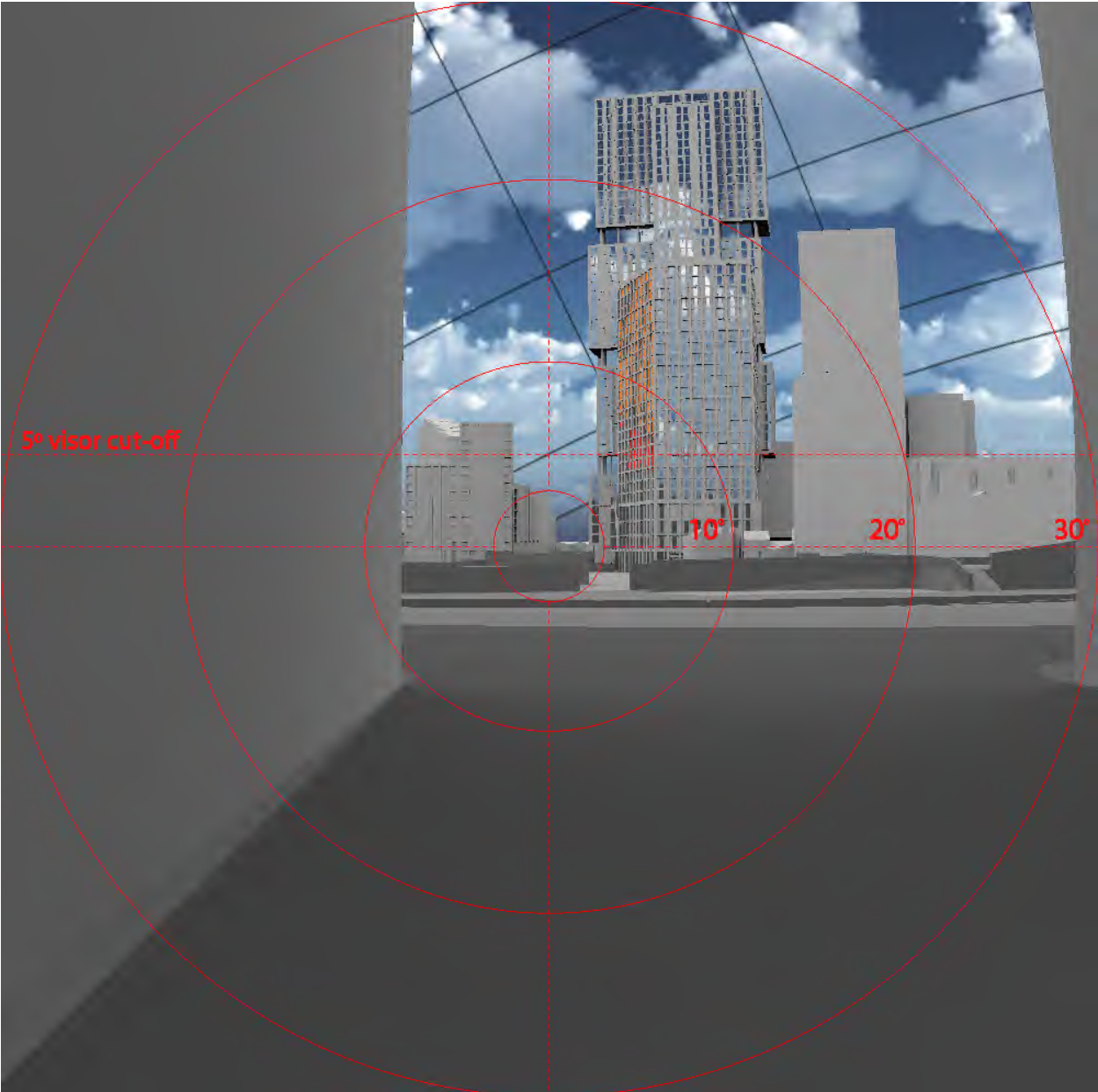


Fig. 15: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT HWS1 - LOOKING FORWARD

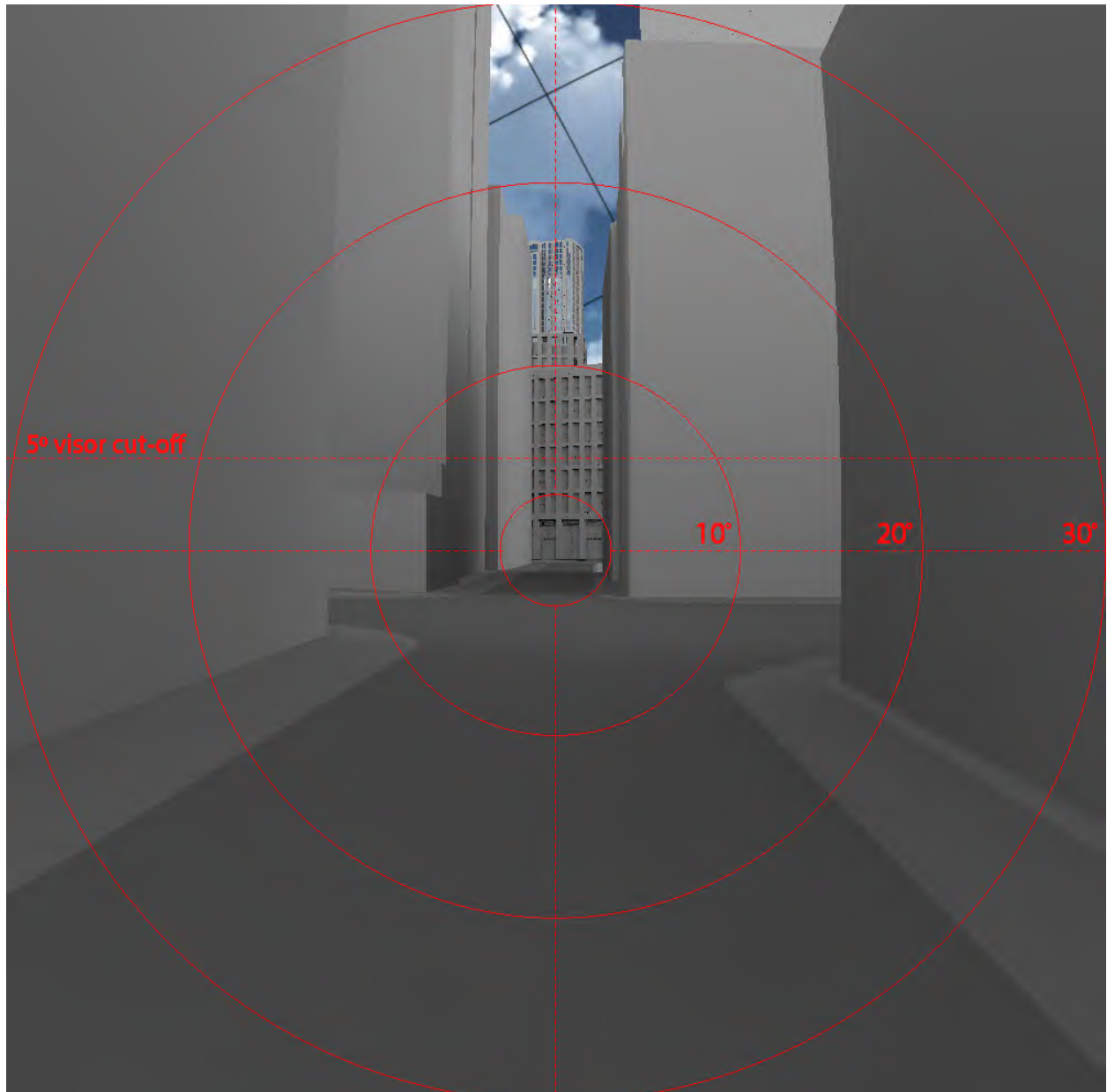
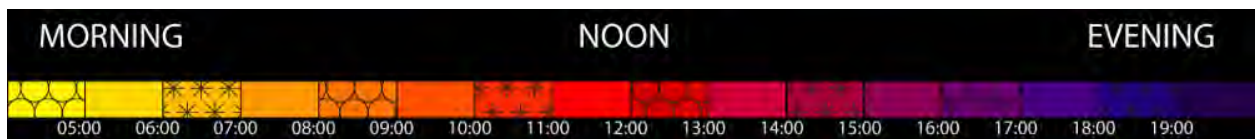


Fig. 16: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT HWS1 - LOOKING FORWARD

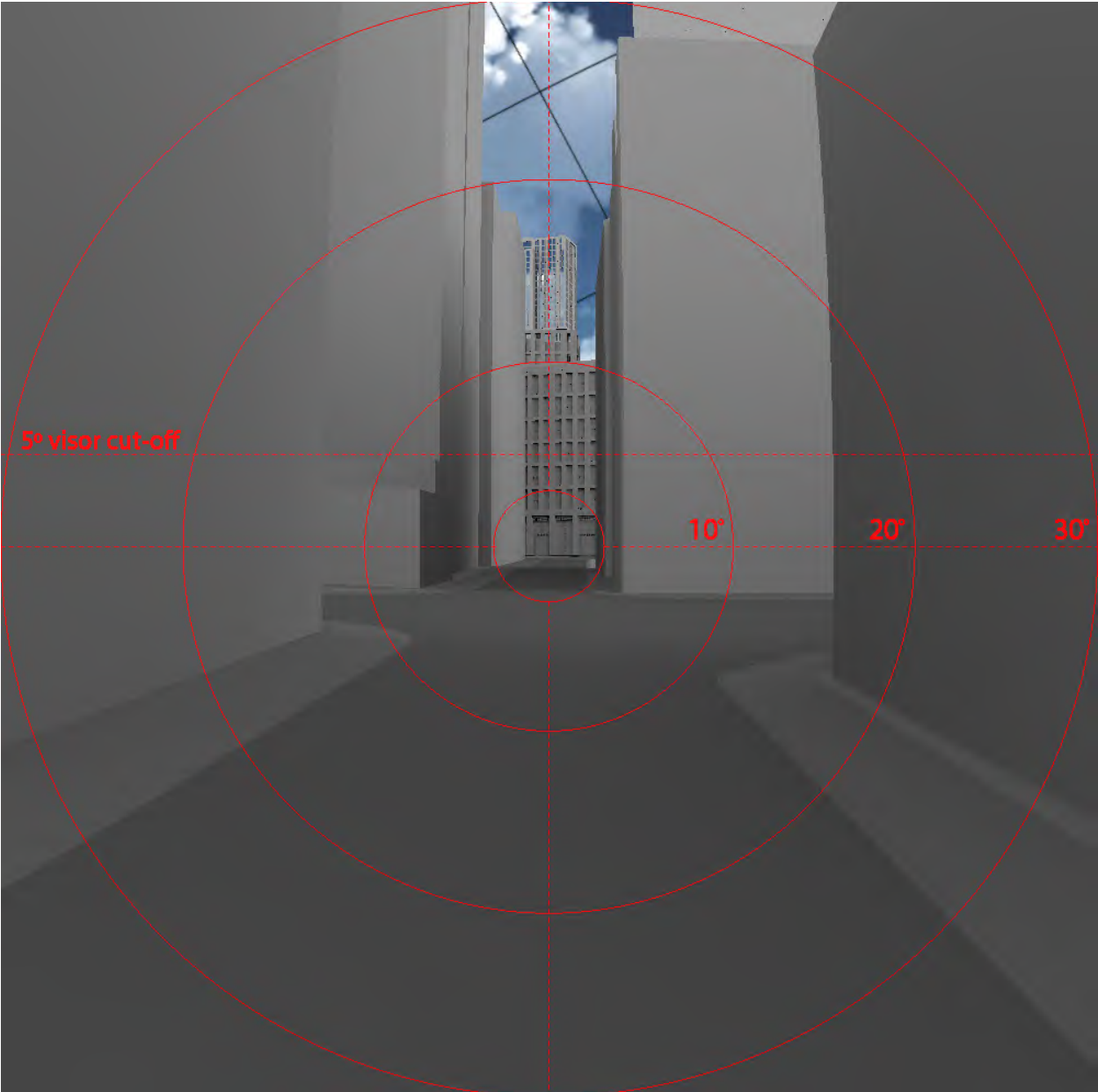


Fig. 17: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT HWS2 - LOOKING FORWARD

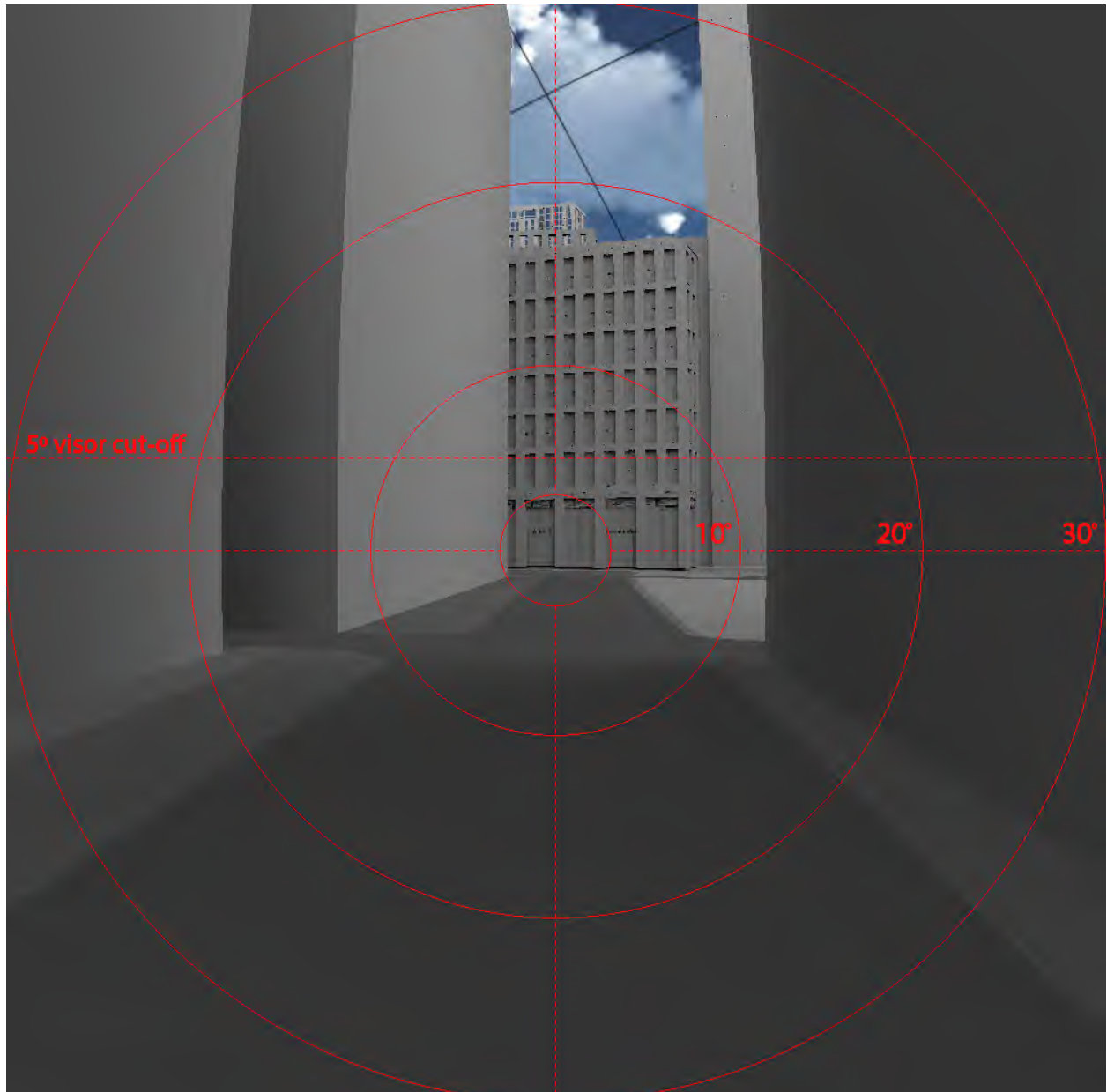
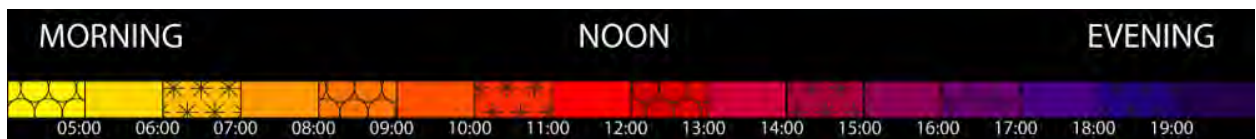


Fig. 18: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT HWS2 - LOOKING FORWARD

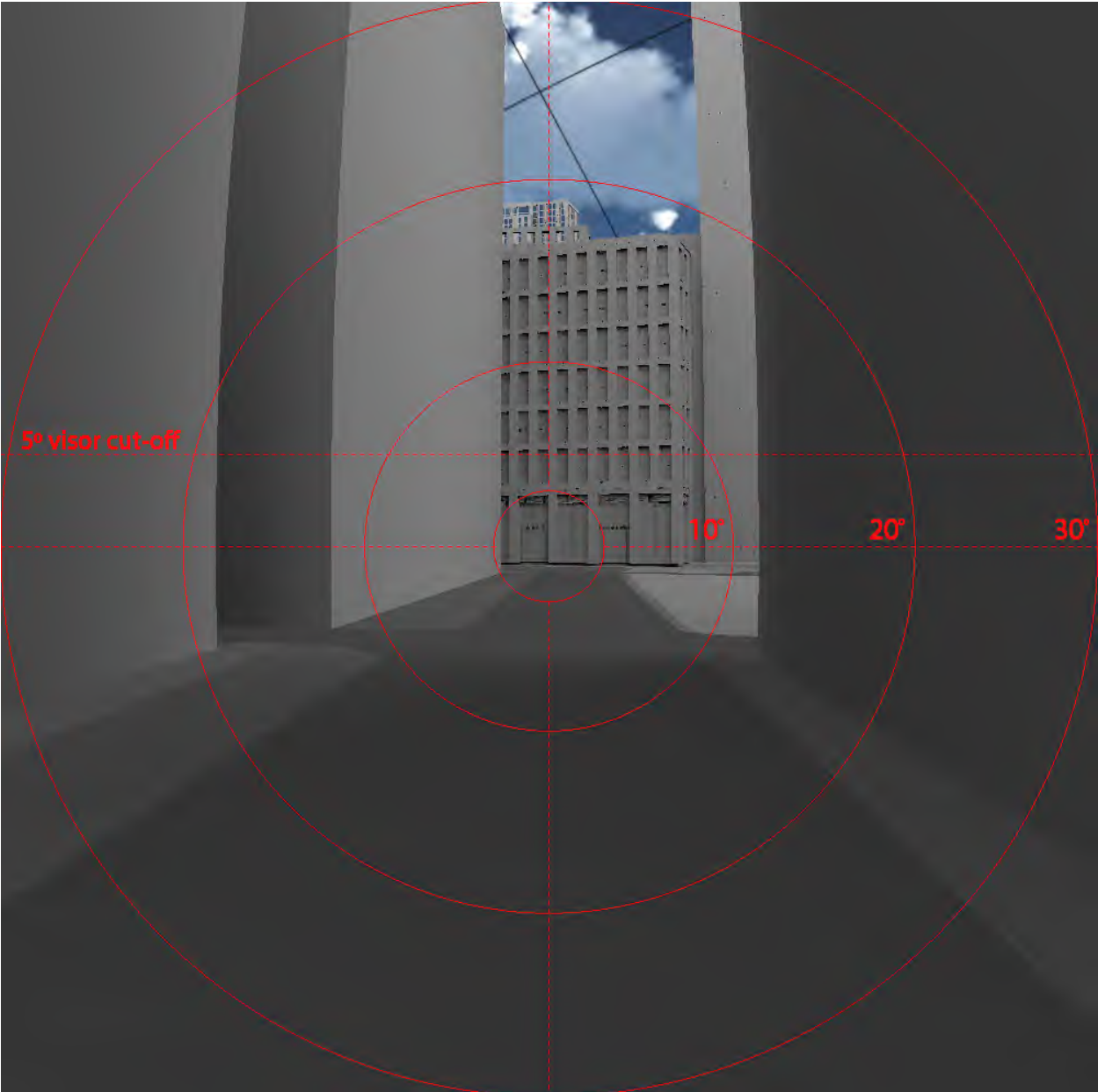


Fig. 19: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT SS1 - LEFT LANE, LOOKING AT TRAFFIC LIGHT

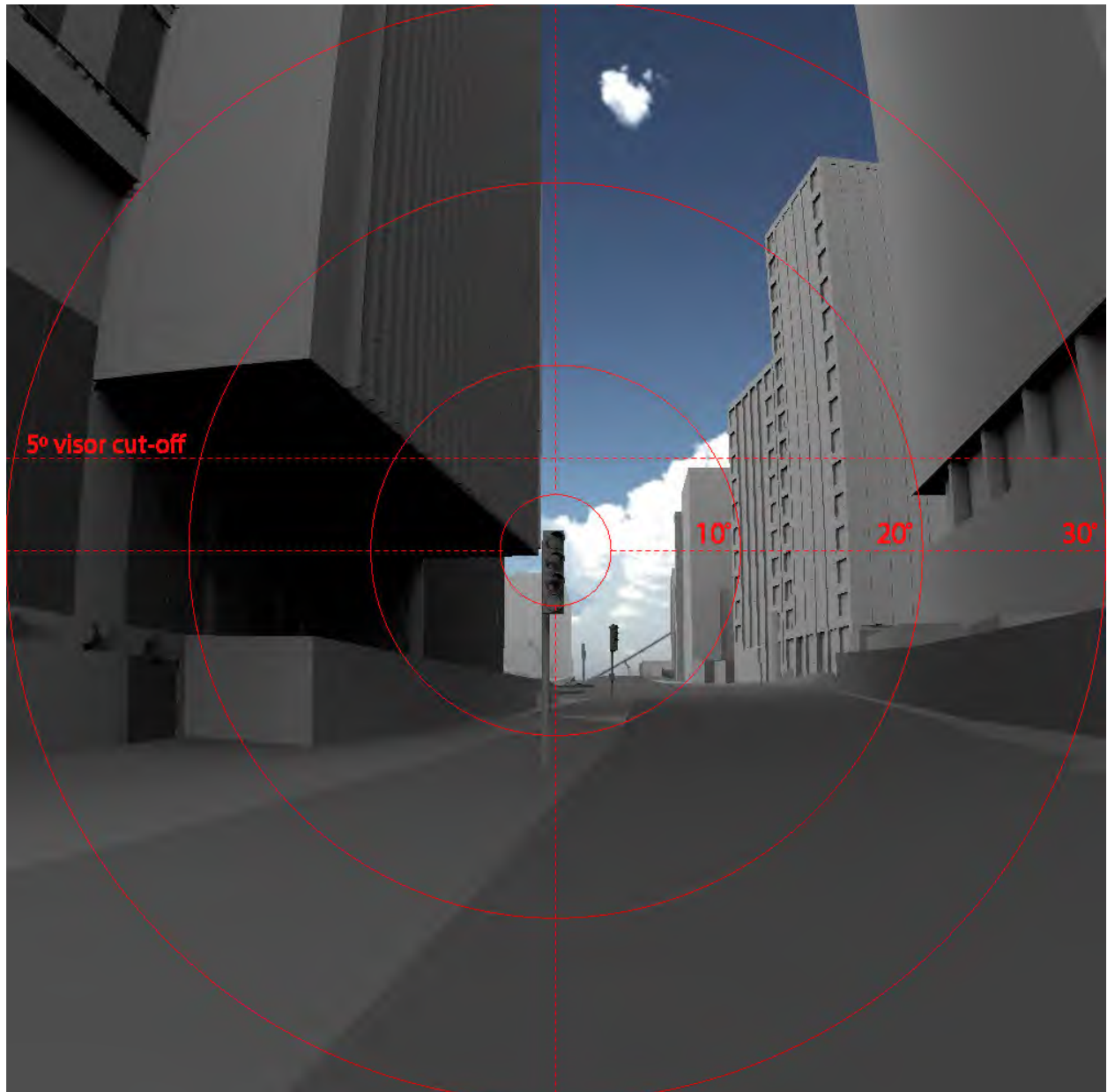
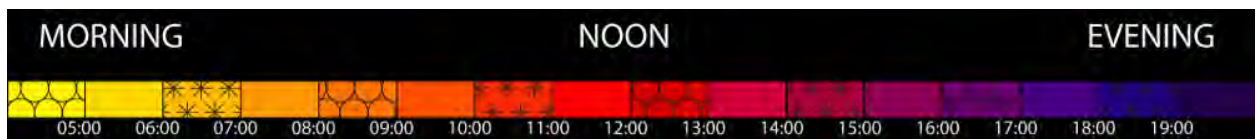


Fig. 20: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT SS1 - LEFT LANE, LOOKING AT TRAFFIC LIGHT

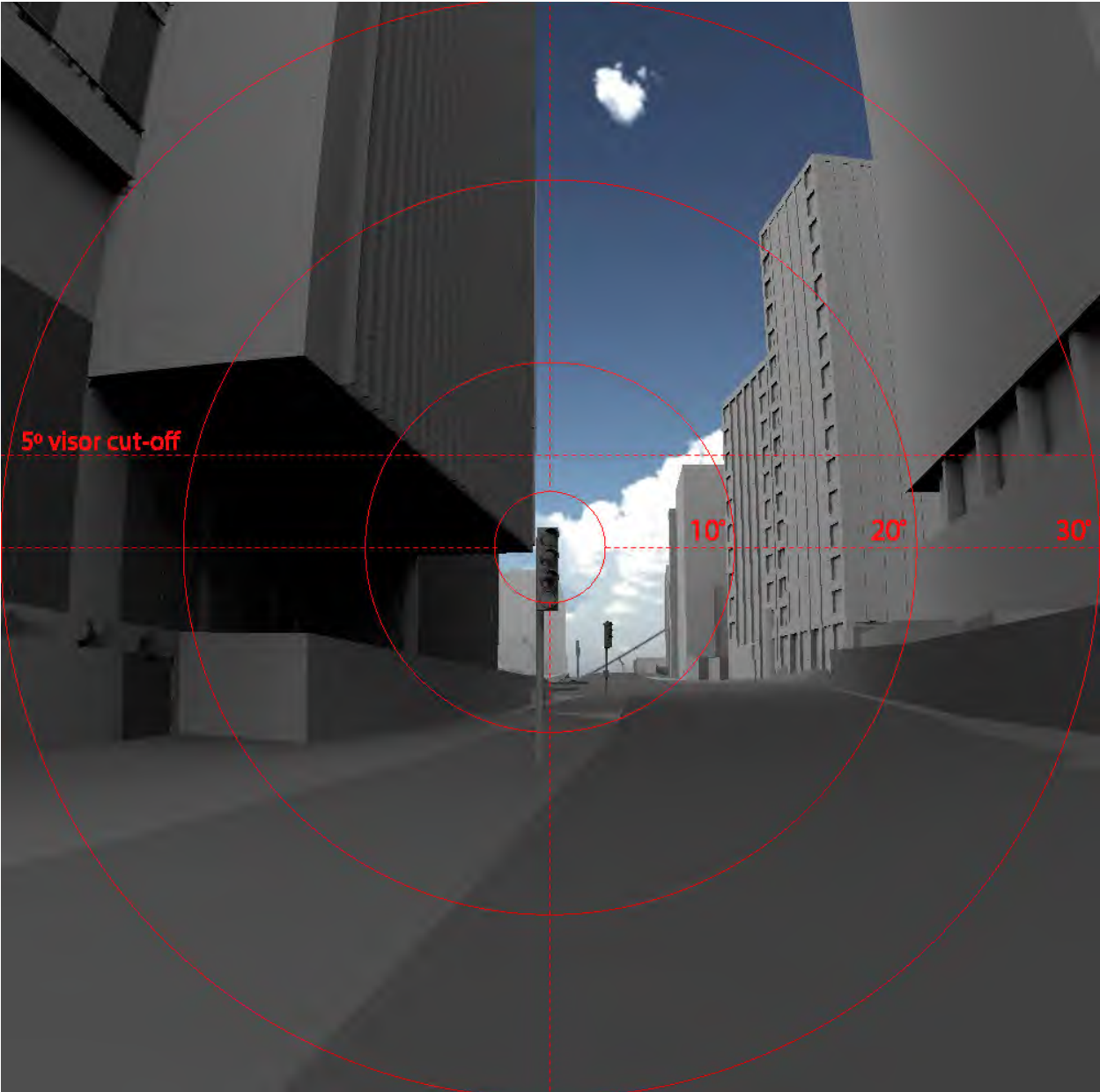


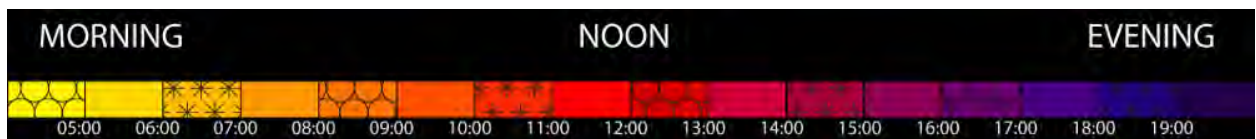
Fig. 21: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT SS2 - LEFT LANE, LOOKING AT TRAFFIC LIGHT



Fig. 22: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT SS2 - LEFT LANE, LOOKING AT TRAFFIC LIGHT



Fig. 23: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT OM1 - LOOKING FORWARD

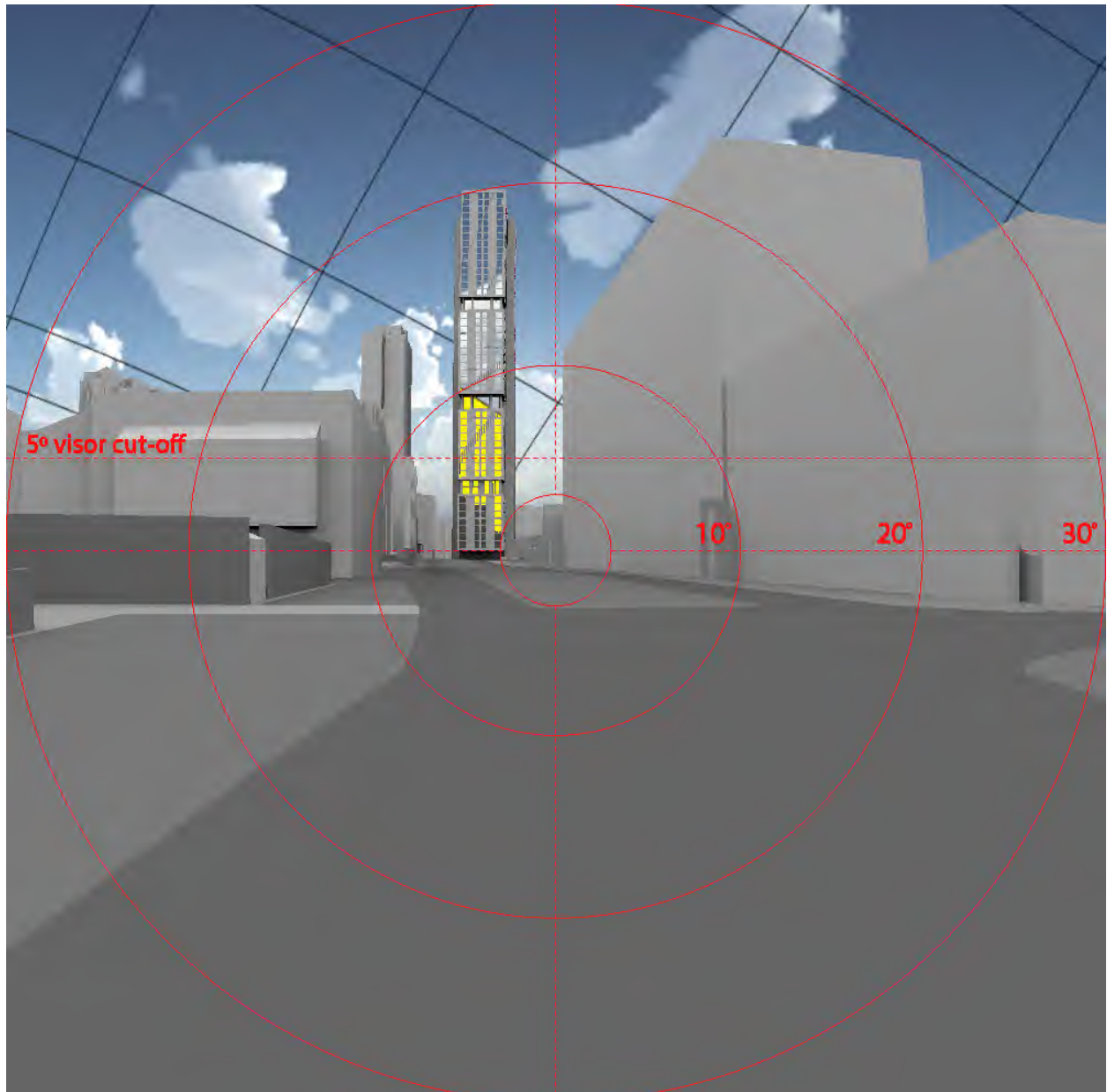
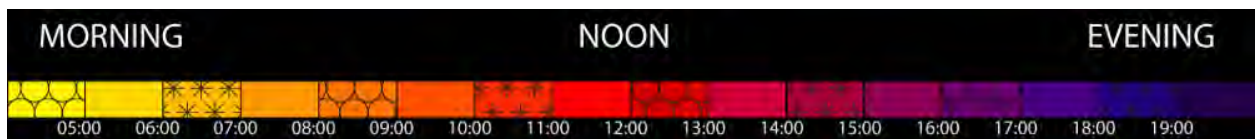


Fig. 24: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT OM1 - LOOKING FORWARD

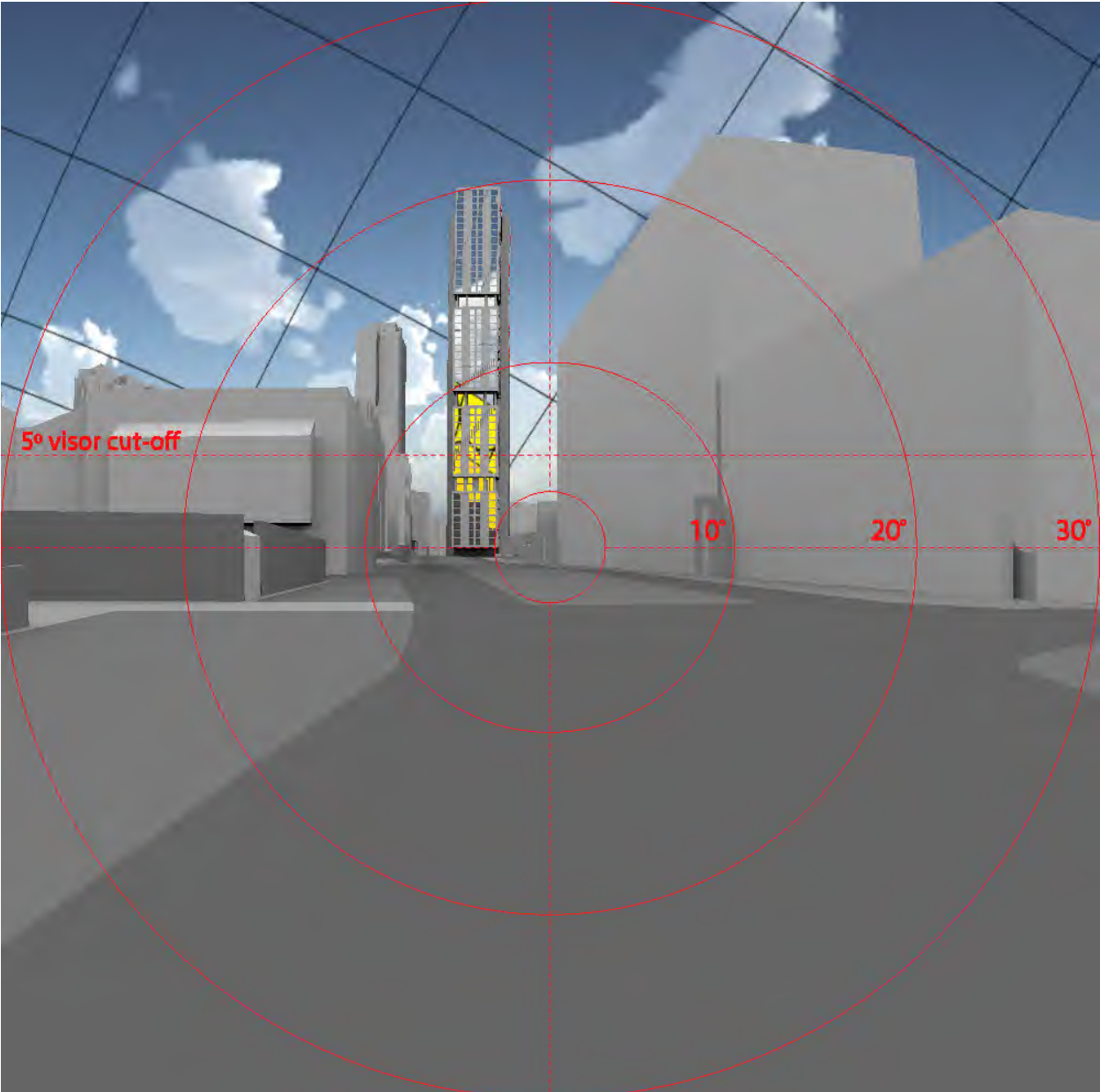


Fig. 25: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT OM2 - LOOKING FORWARD

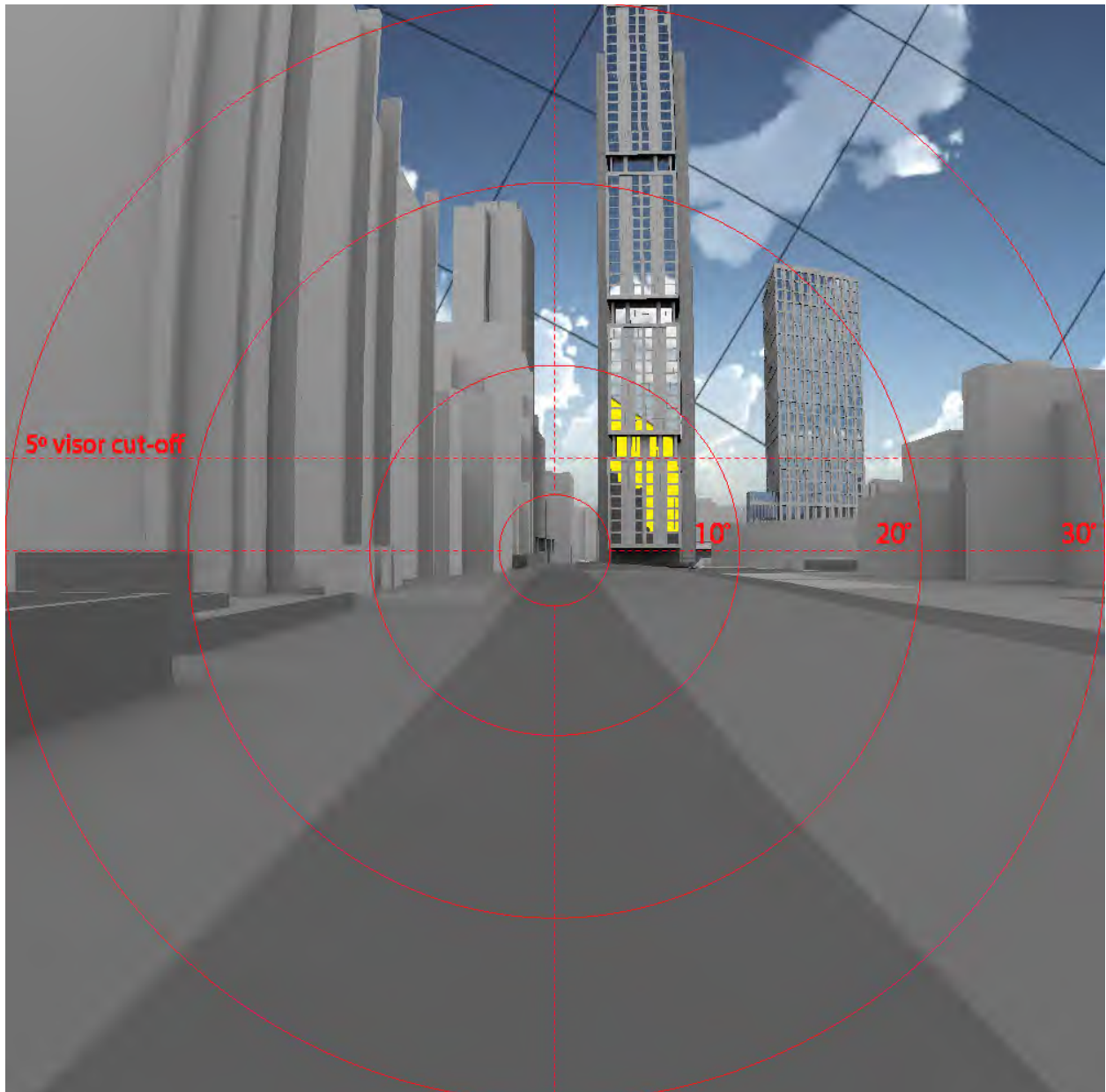
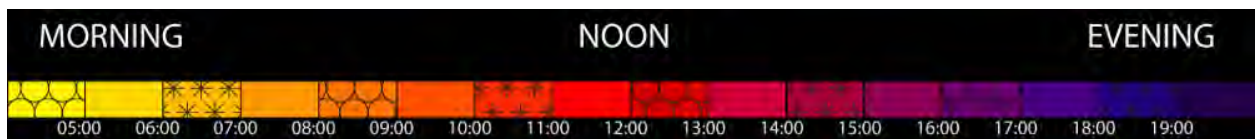


Fig. 26: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT OM2 - LOOKING FORWARD

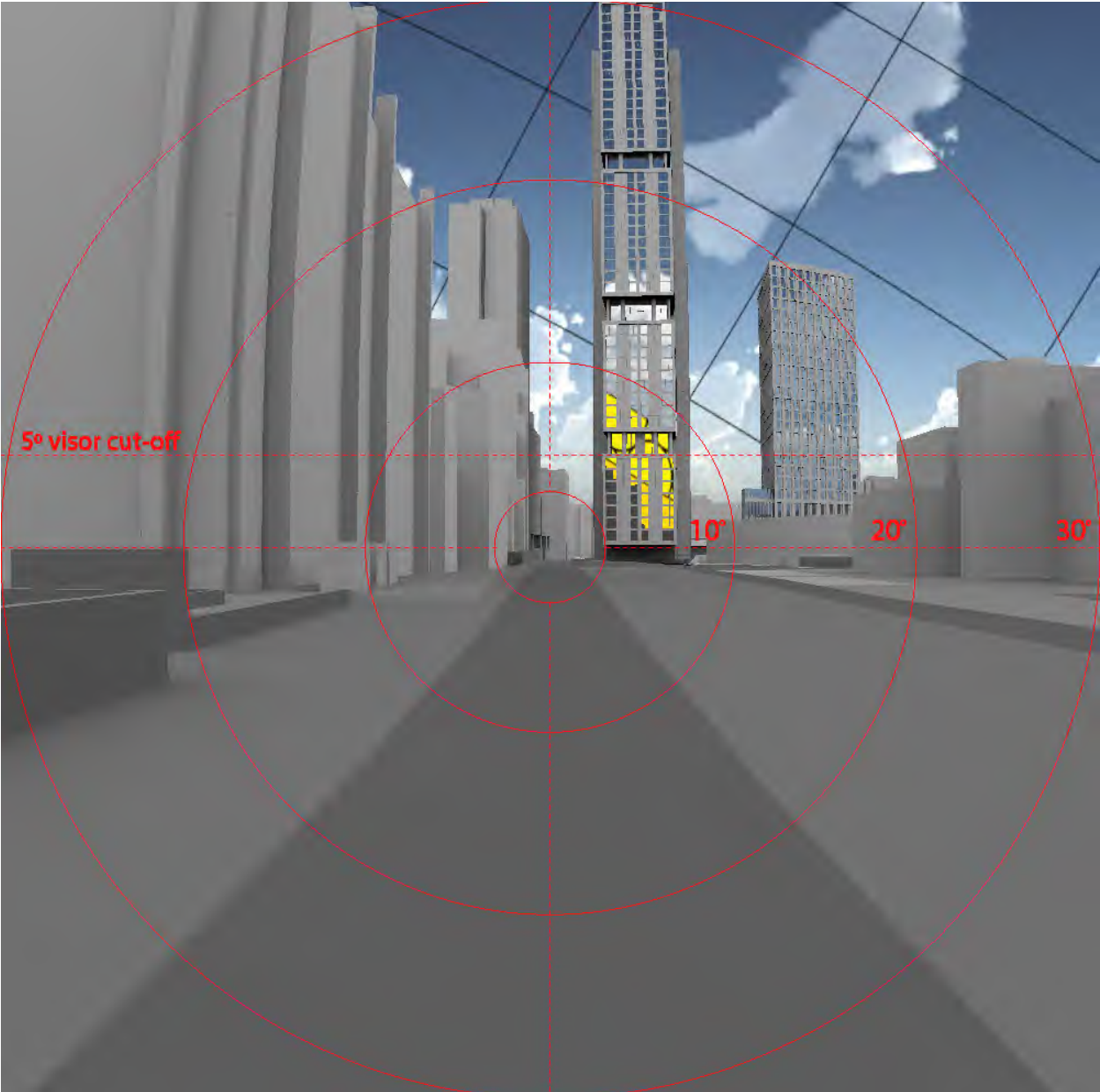


Fig. 27: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT OM3c - RIGHT LANE, LOOKING FORWARD

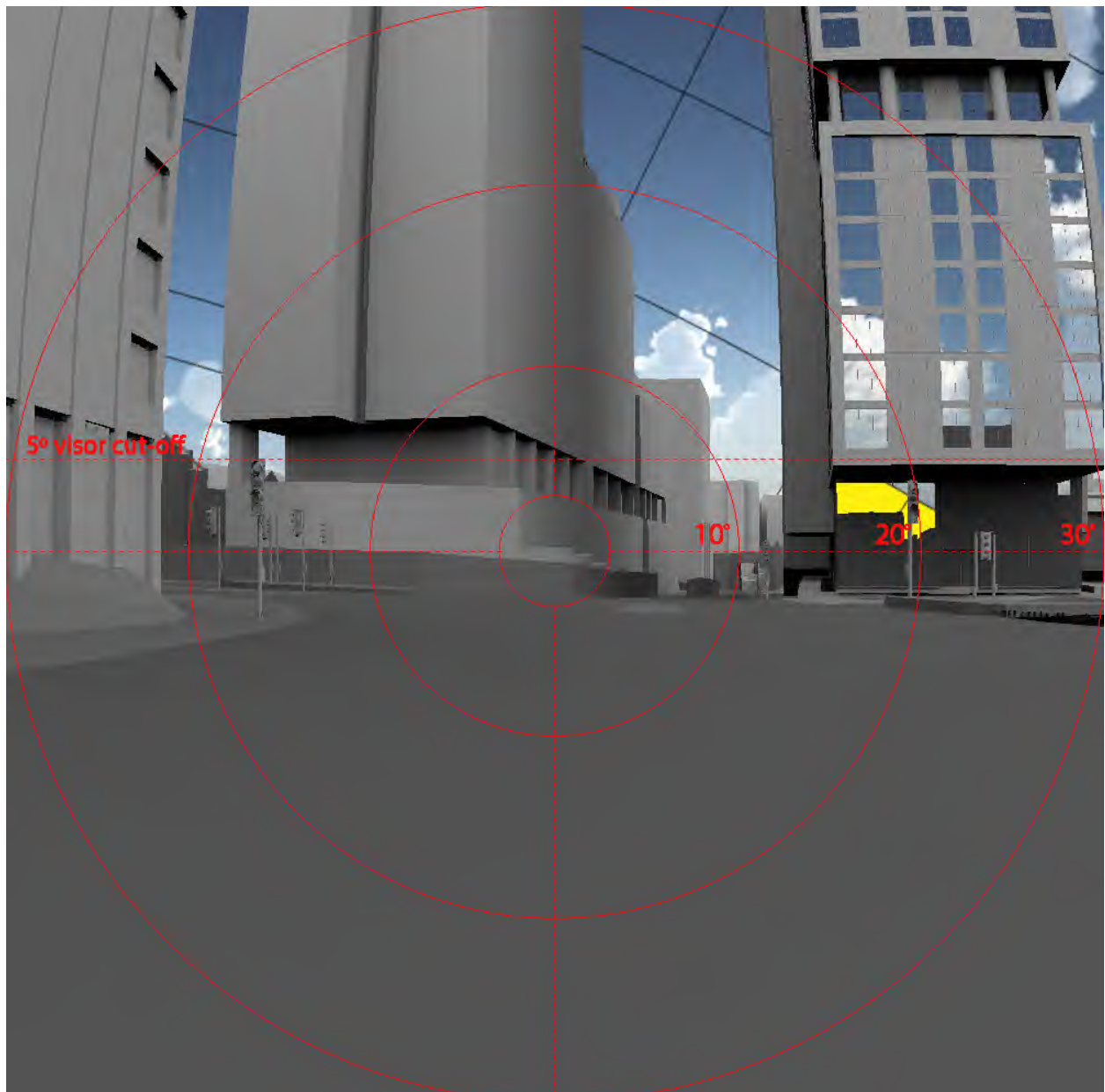
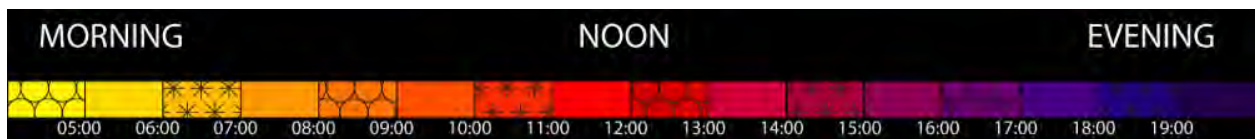


Fig. 28: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT OM3c - RIGHT LANE, LOOKING FORWARD

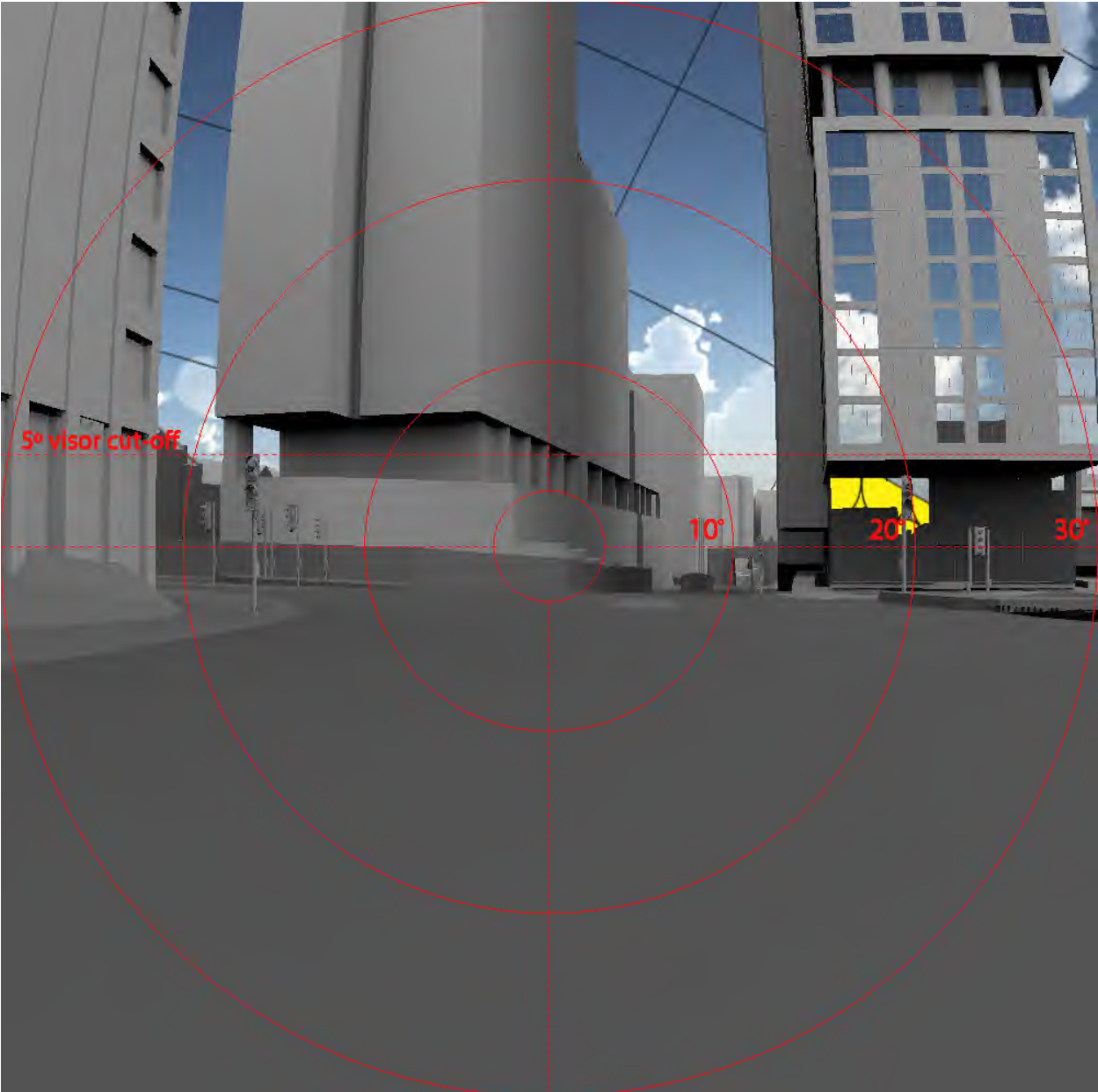


Fig. 29: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT OM3d - RIGHT LANE, LOOKING AT TRAFFIC LIGHT

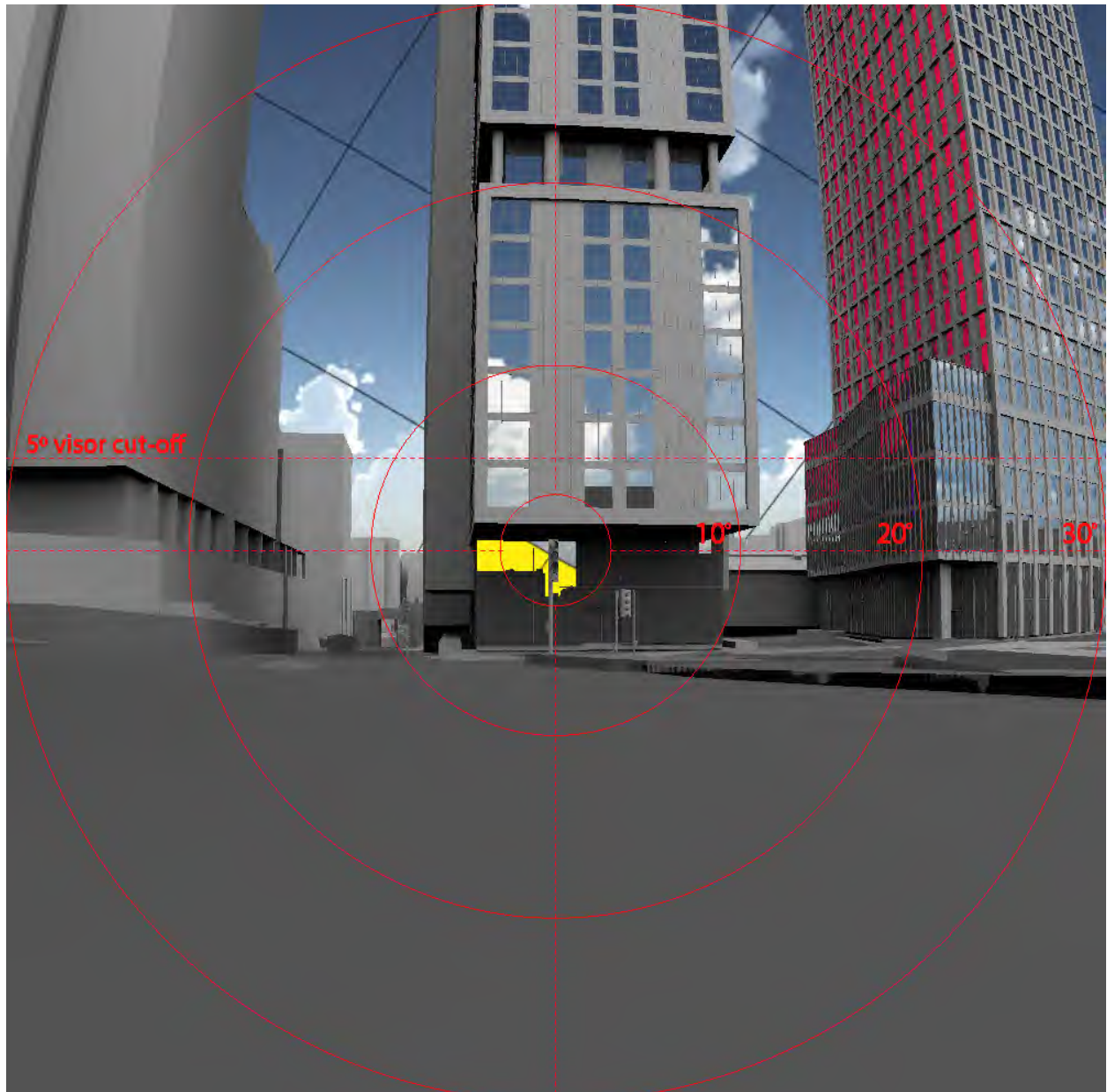
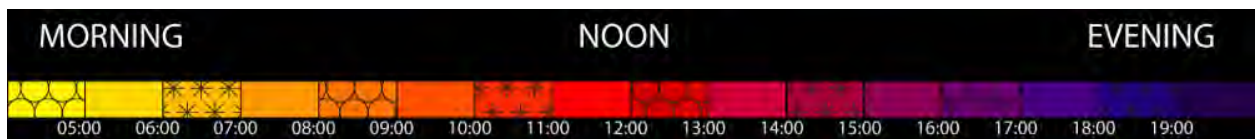


Fig. 30: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT OM3d - RIGHT LANE, LOOKING AT TRAFFIC LIGHT

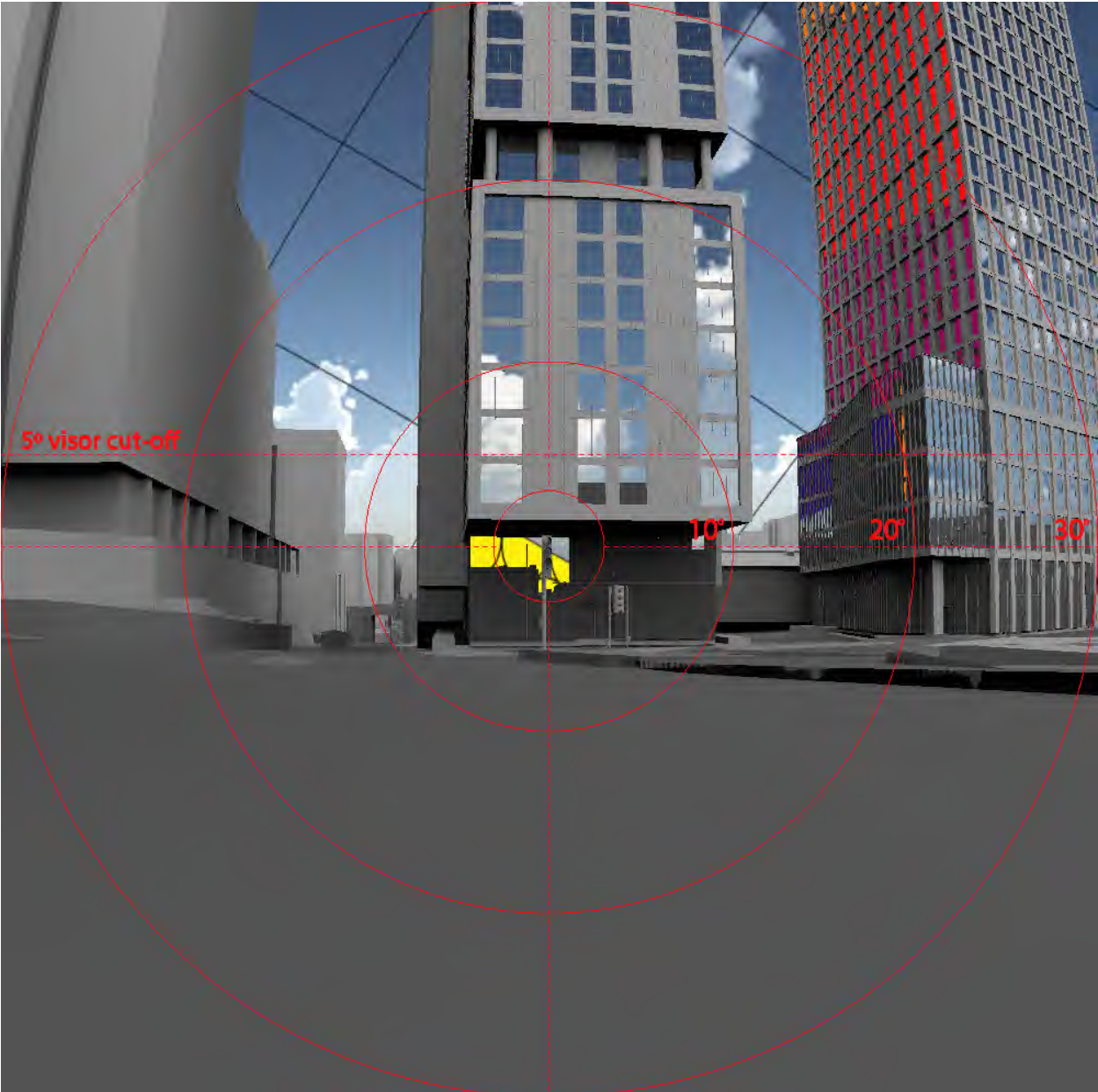


Fig. 31: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA2a - RIGHT LANE, LOOKING FORWARD

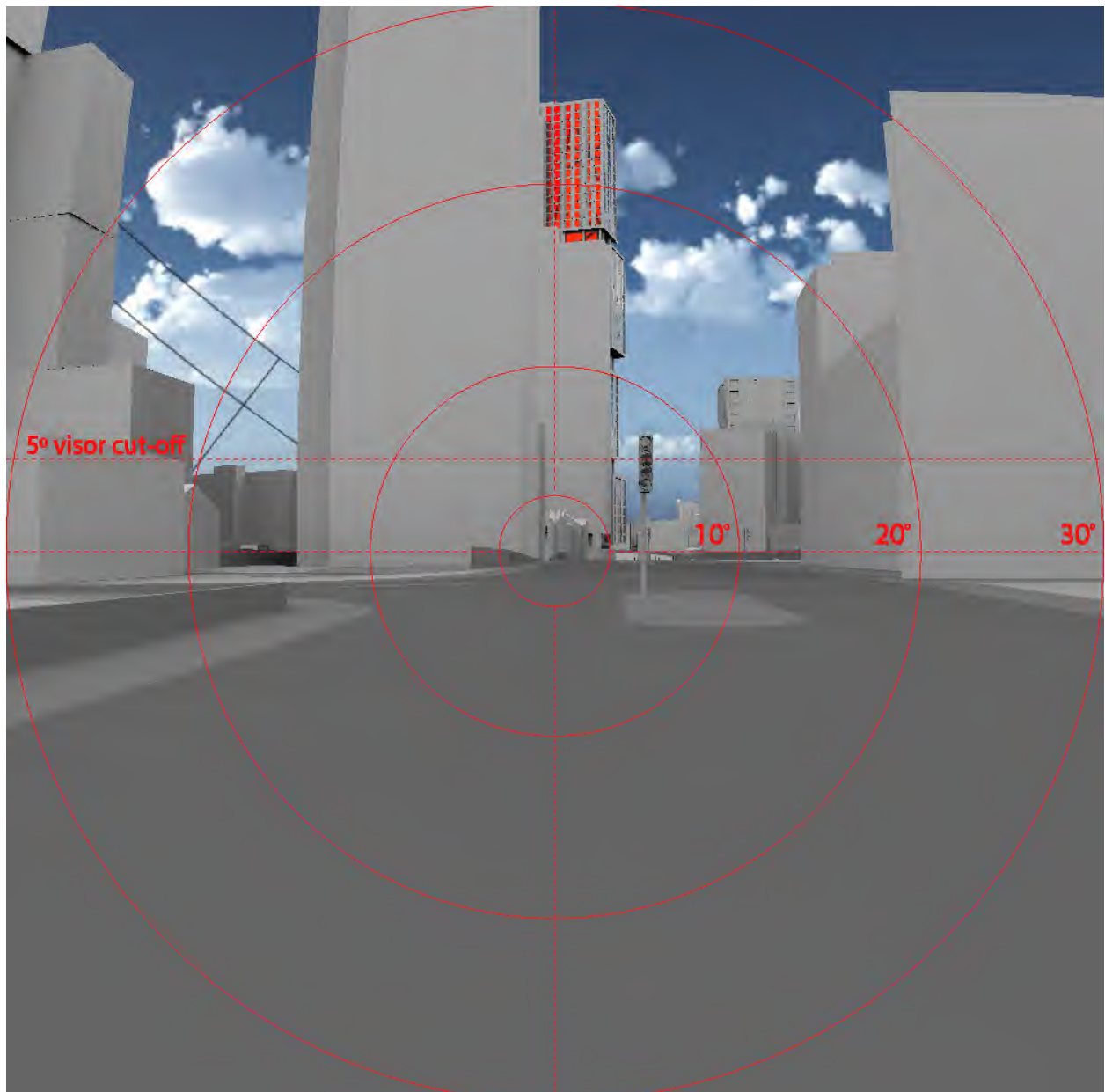
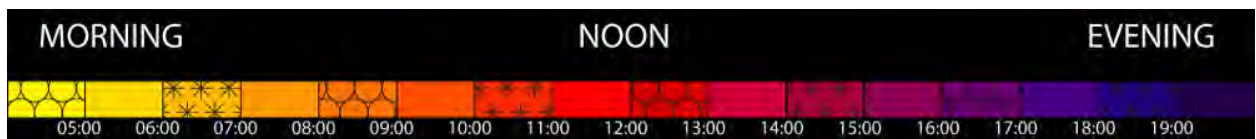


Fig. 32: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA2a - RIGHT LANE, LOOKING FORWARD

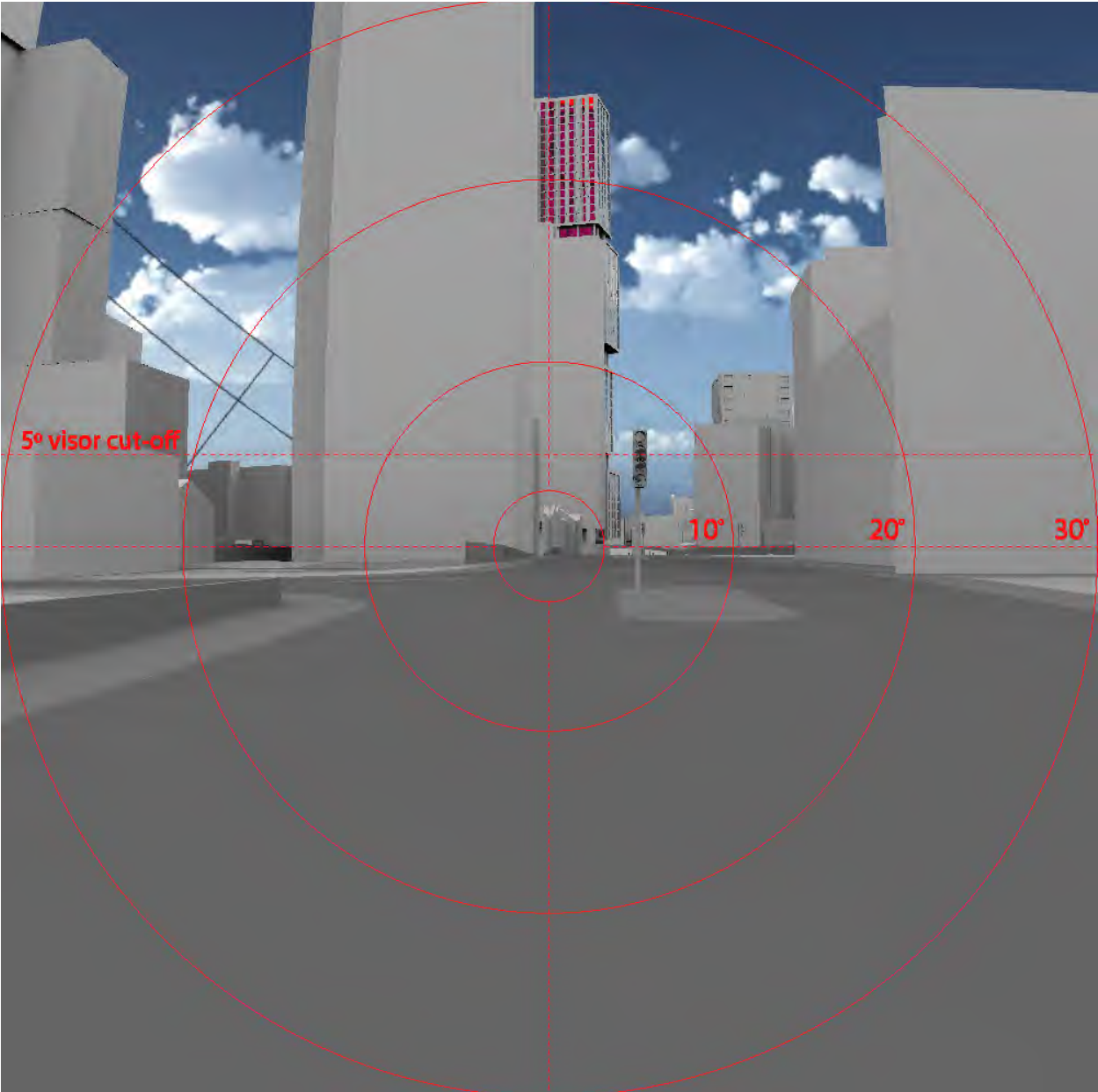


Fig. 33: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA2b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

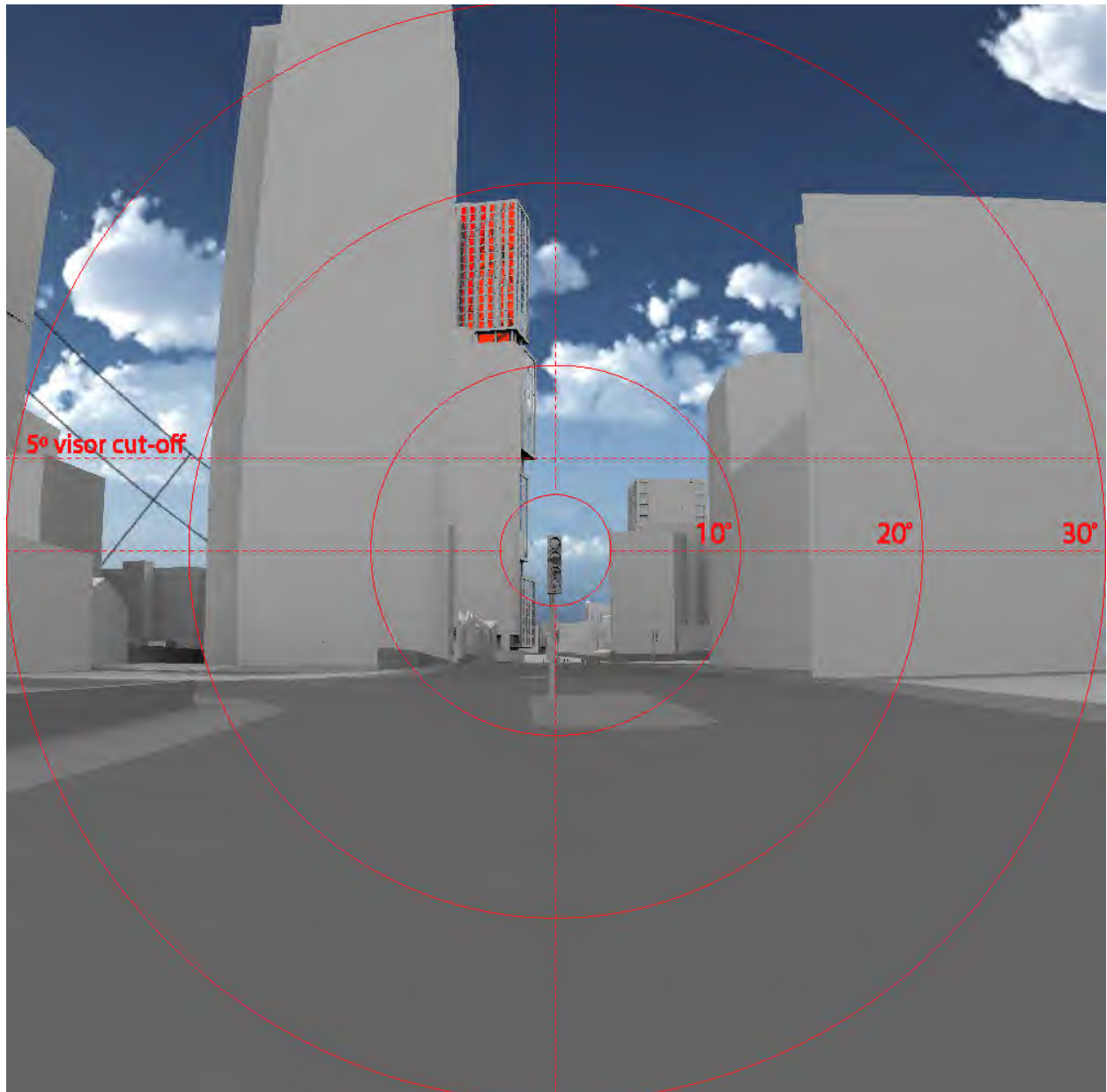
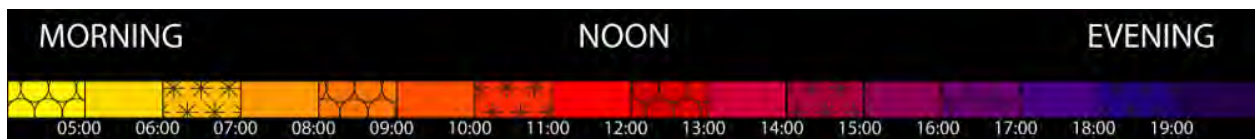


Fig. 34: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA2b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

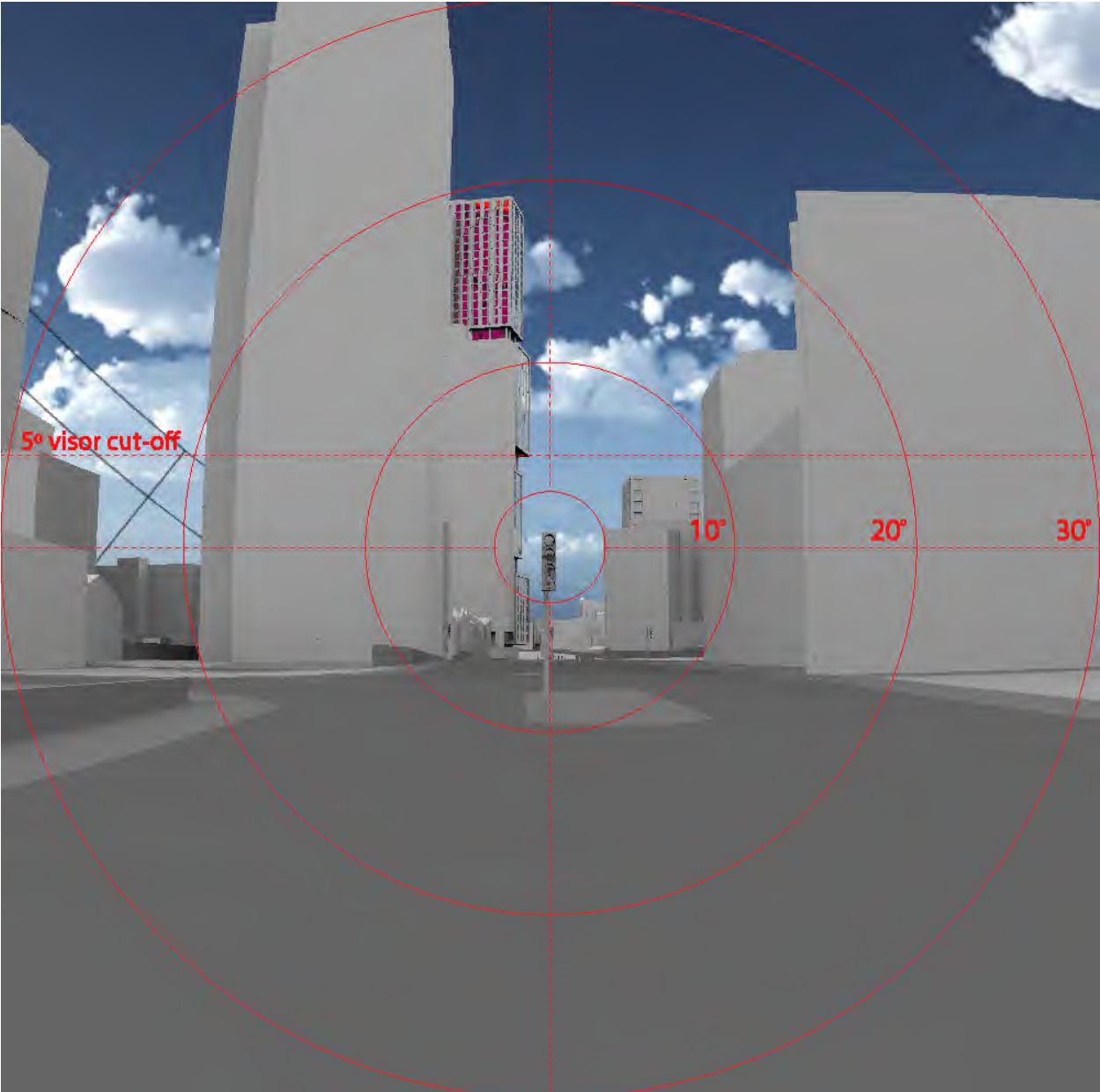


Fig. 35: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA3a - LEFT LANE, LOOKING AT TRAFFIC LIGHTS

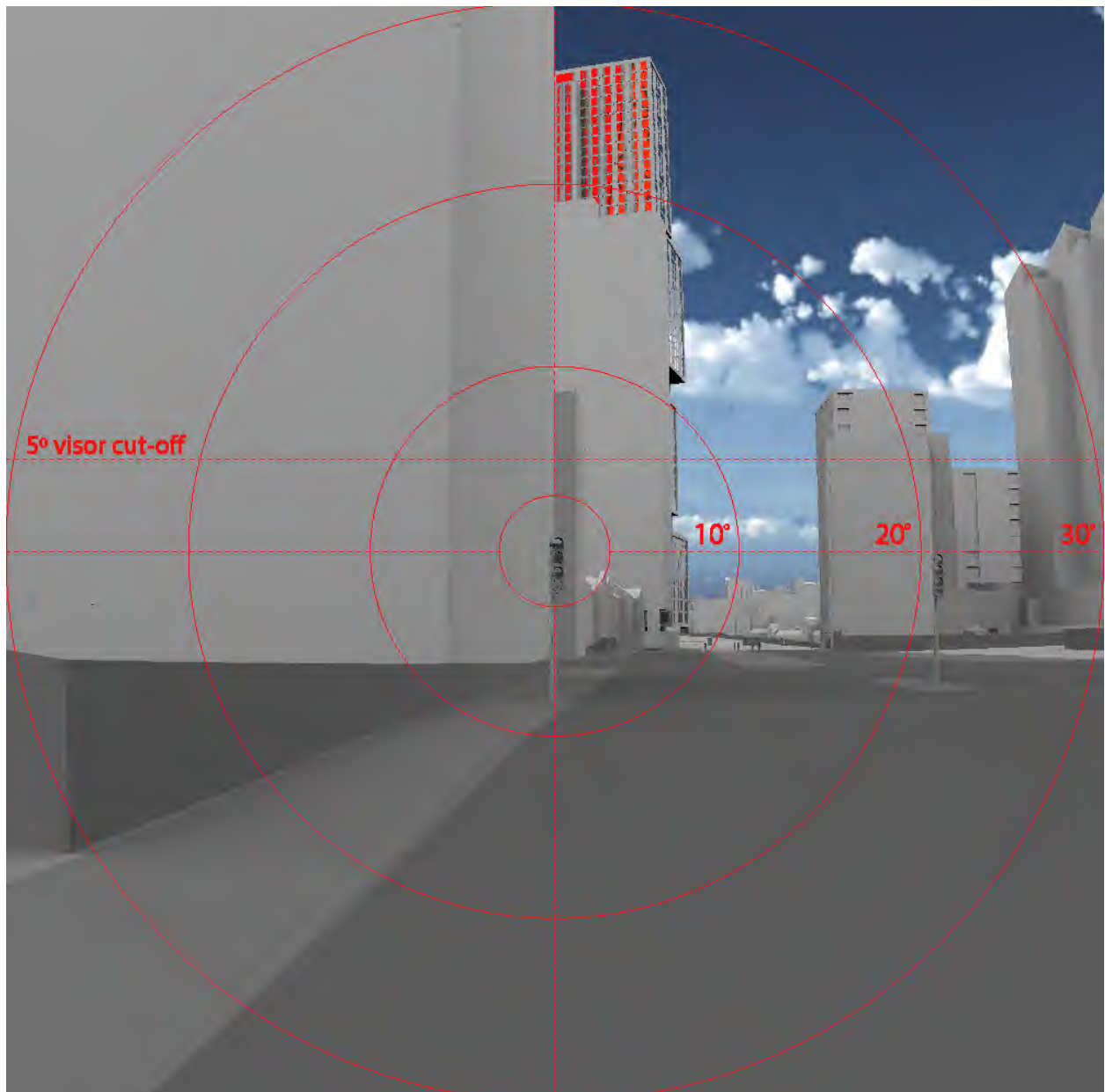
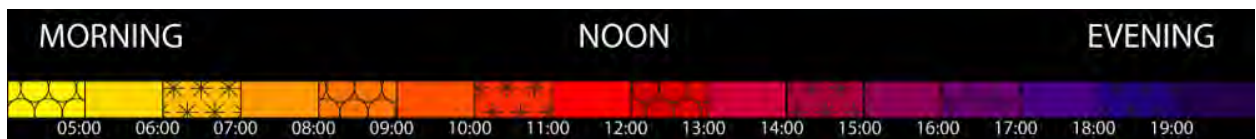


Fig. 36: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA3a - LEFT LANE, LOOKING AT TRAFFIC LIGHTS

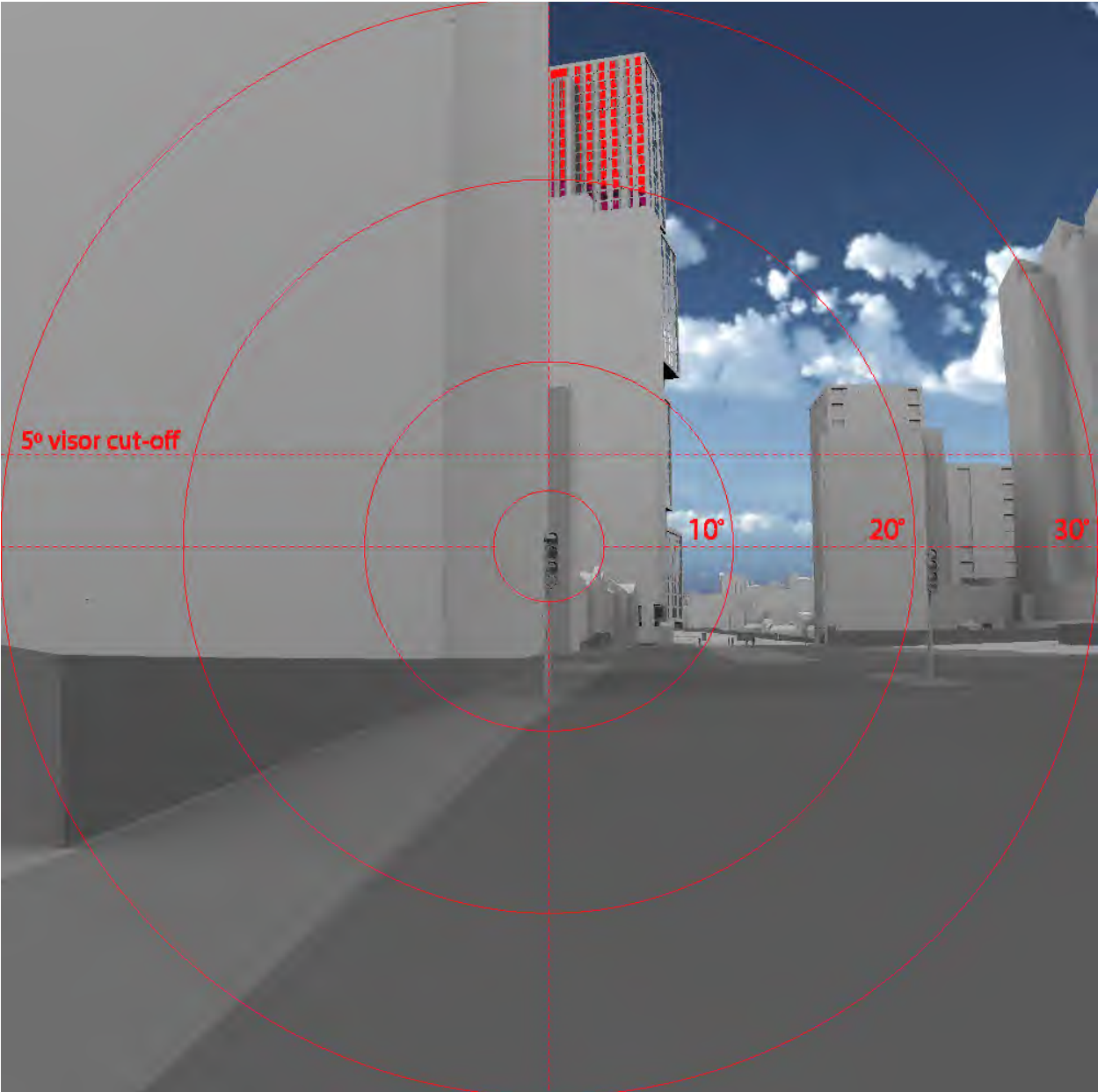


Fig. 37: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA3b - LEFT LANE, LOOKING FORWARD

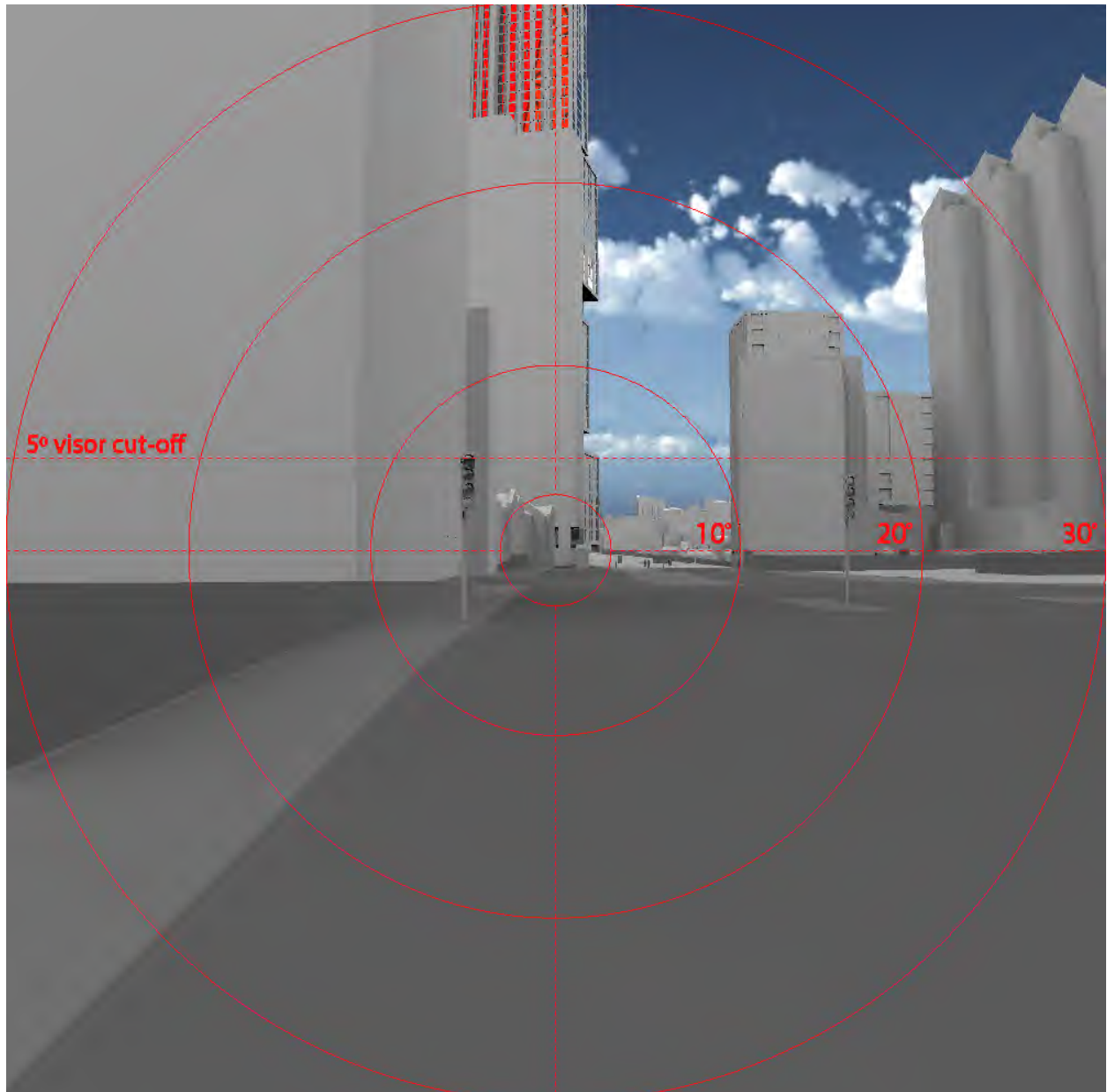
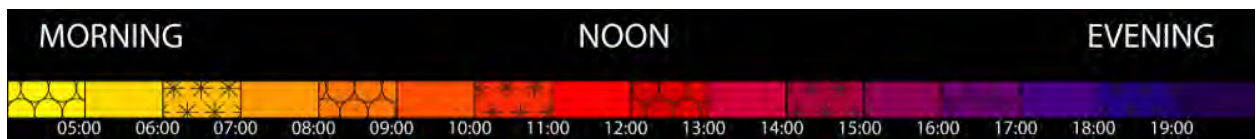


Fig. 38: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA3b - LEFT LANE, LOOKING FORWARD

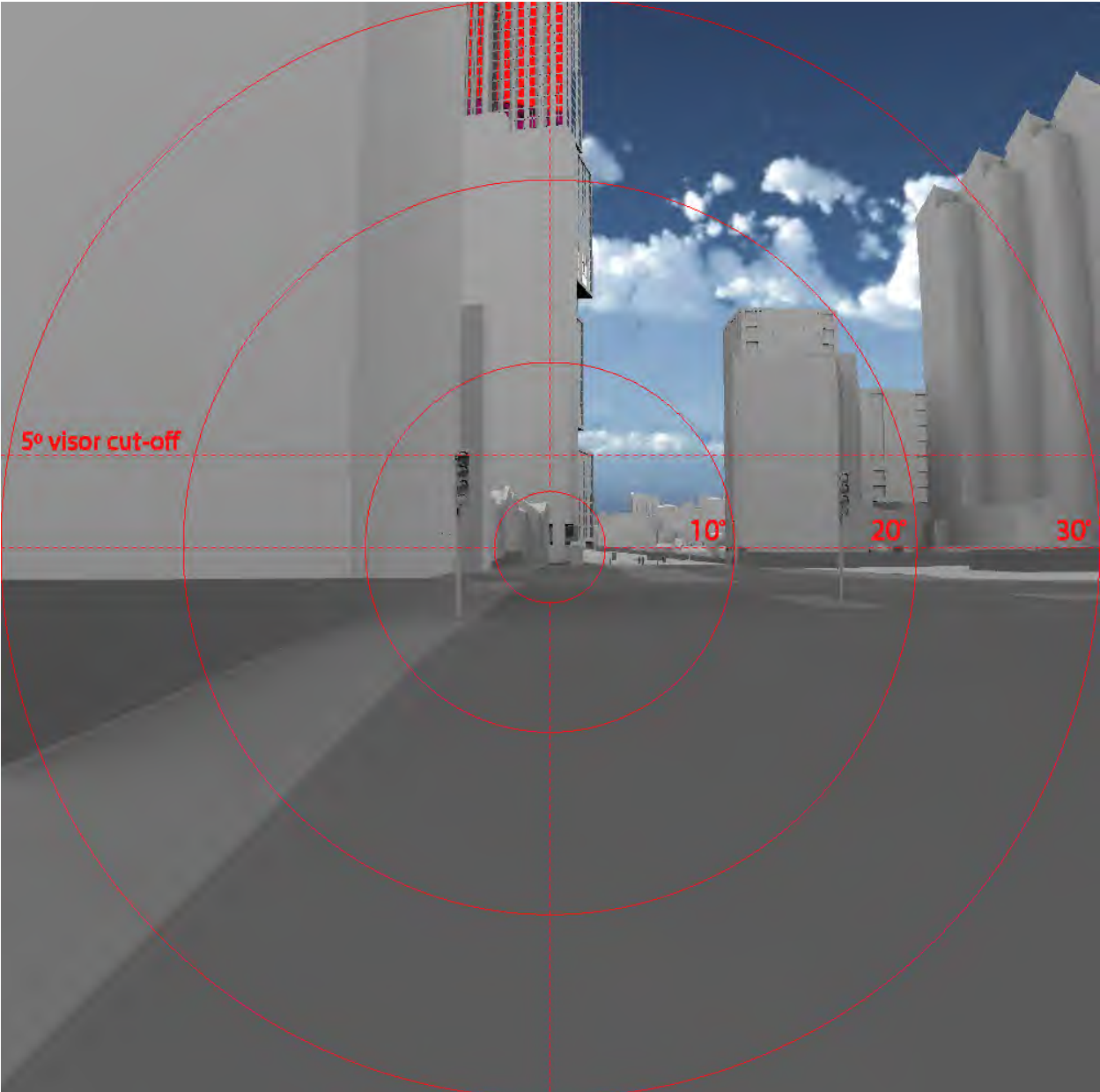


Fig. 39: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA4a - LEFT LANE, LOOKING AT TRAFFIC LIGHTS

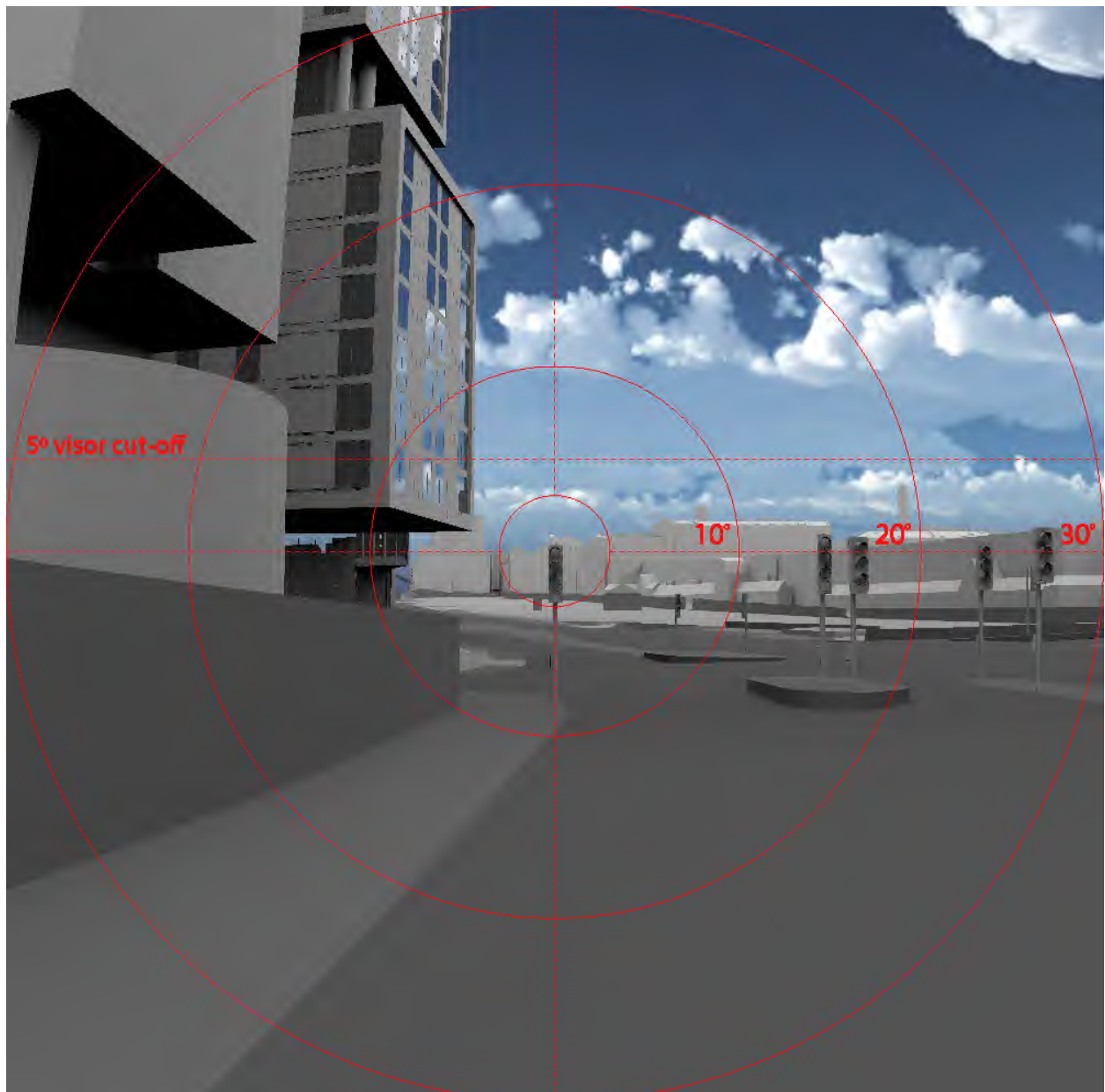
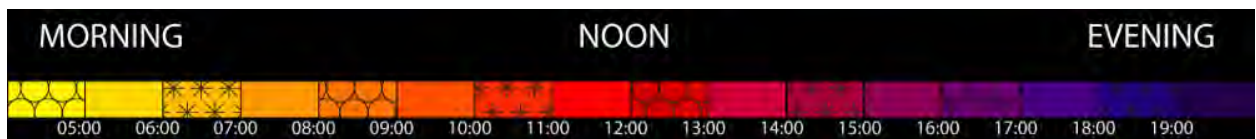


Fig. 40: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA4a - LEFT LANE, LOOKING AT TRAFFIC LIGHTS

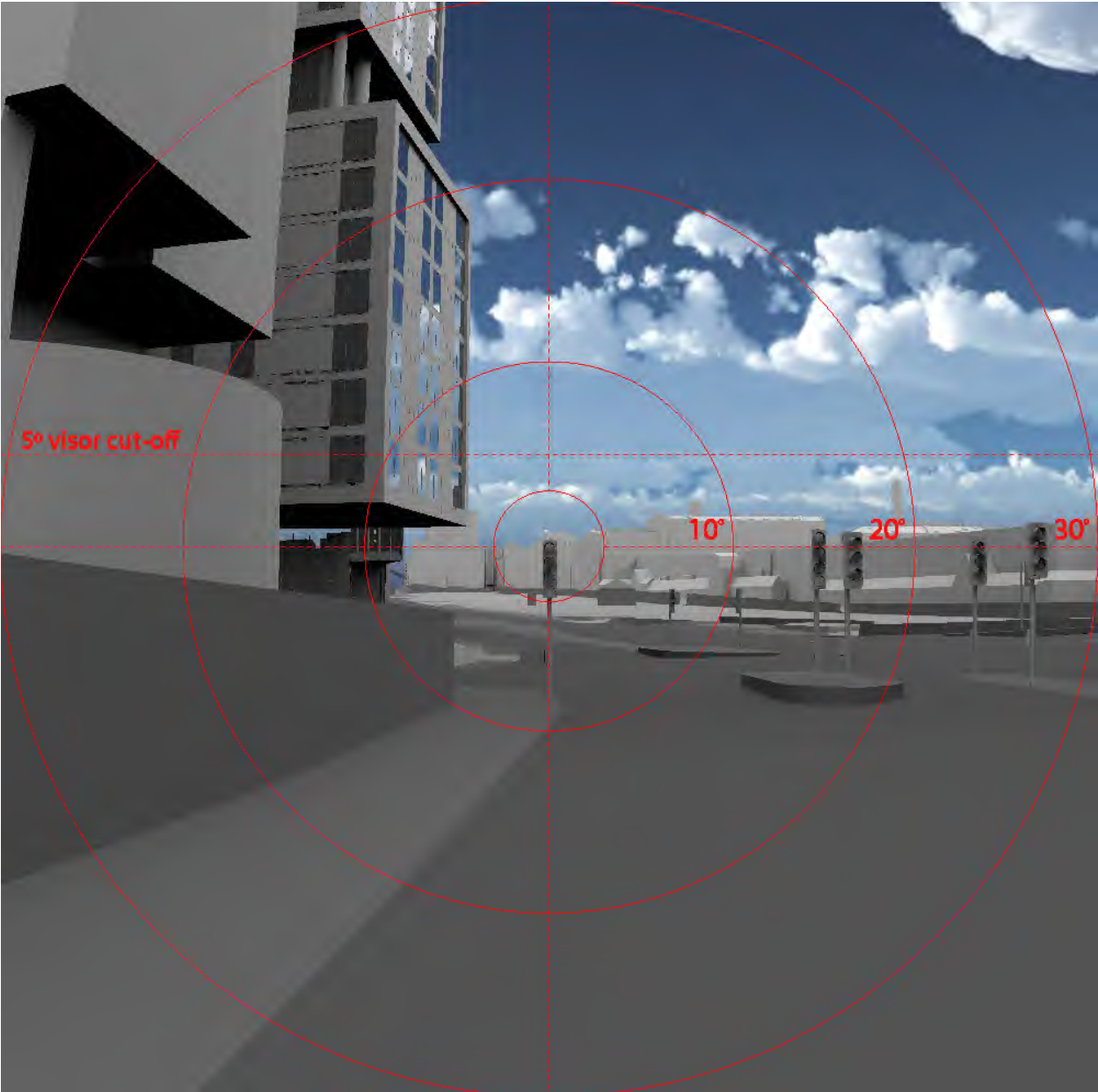


Fig. 41: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA4b - LEFT LANE, LOOKING FORWARD

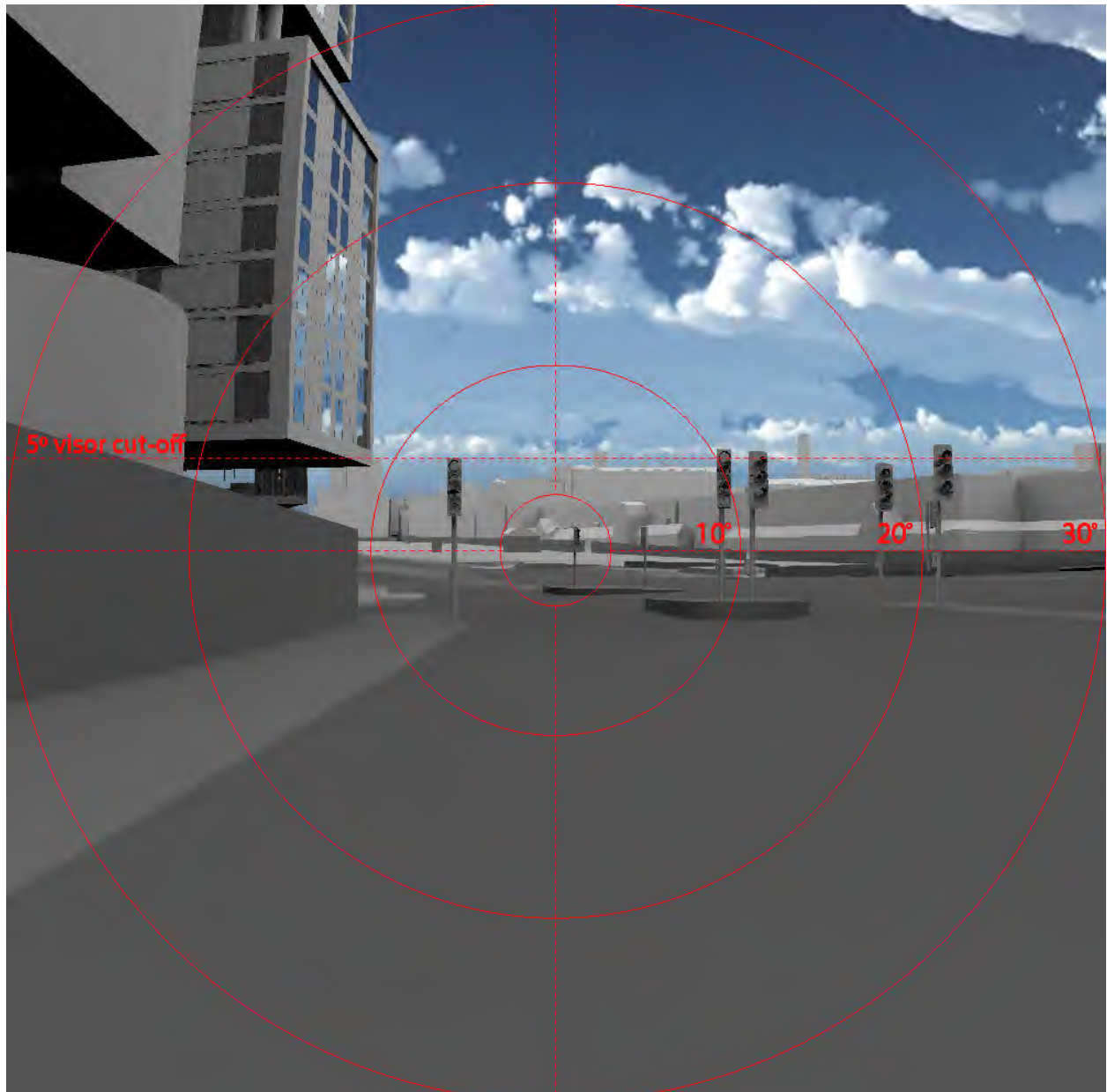
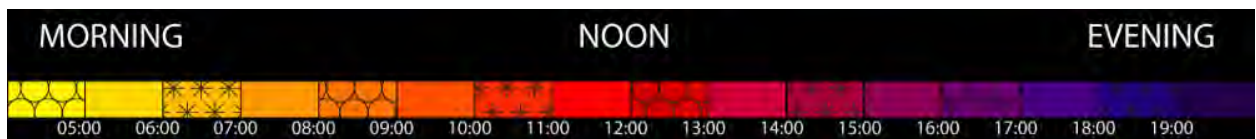


Fig. 42: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA4b - LEFT LANE, LOOKING FORWARD

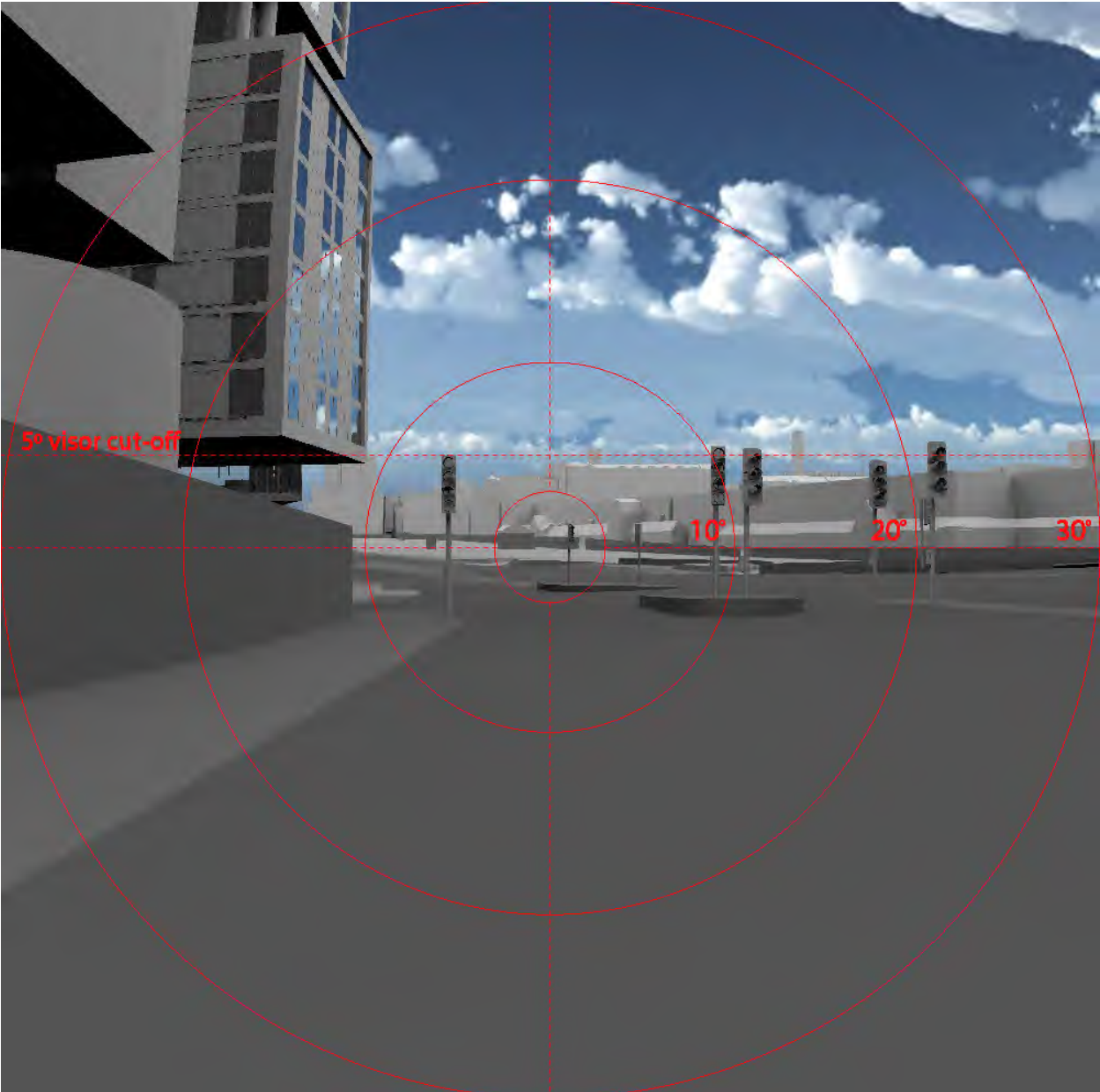


Fig. 43: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA5a - RIGHT LANE, LOOKING FORWARD

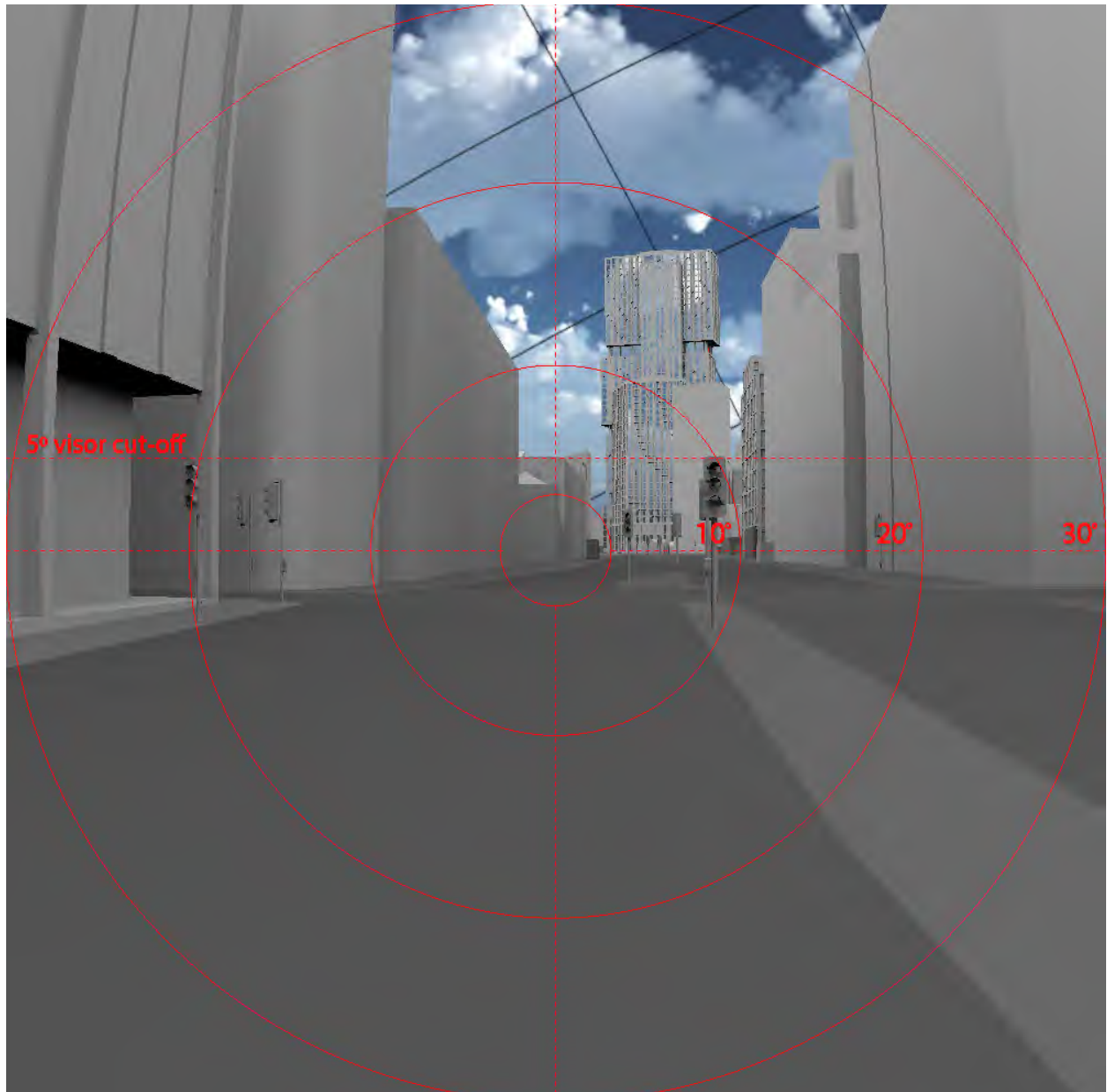
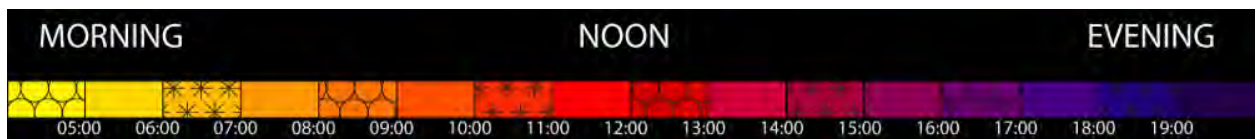


Fig. 44: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA5a - RIGHT LANE, LOOKING FORWARD

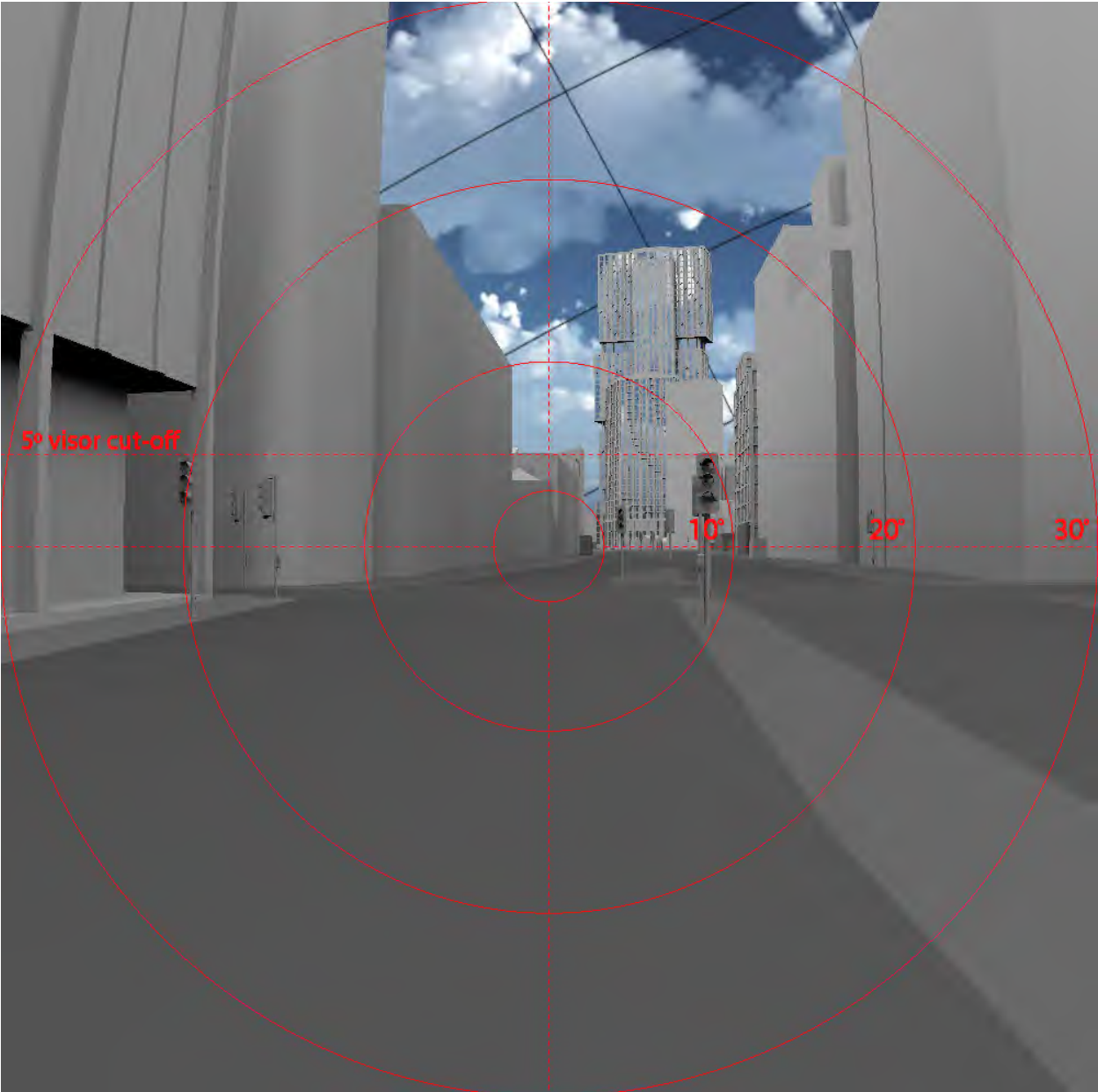


Fig. 45: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA5b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

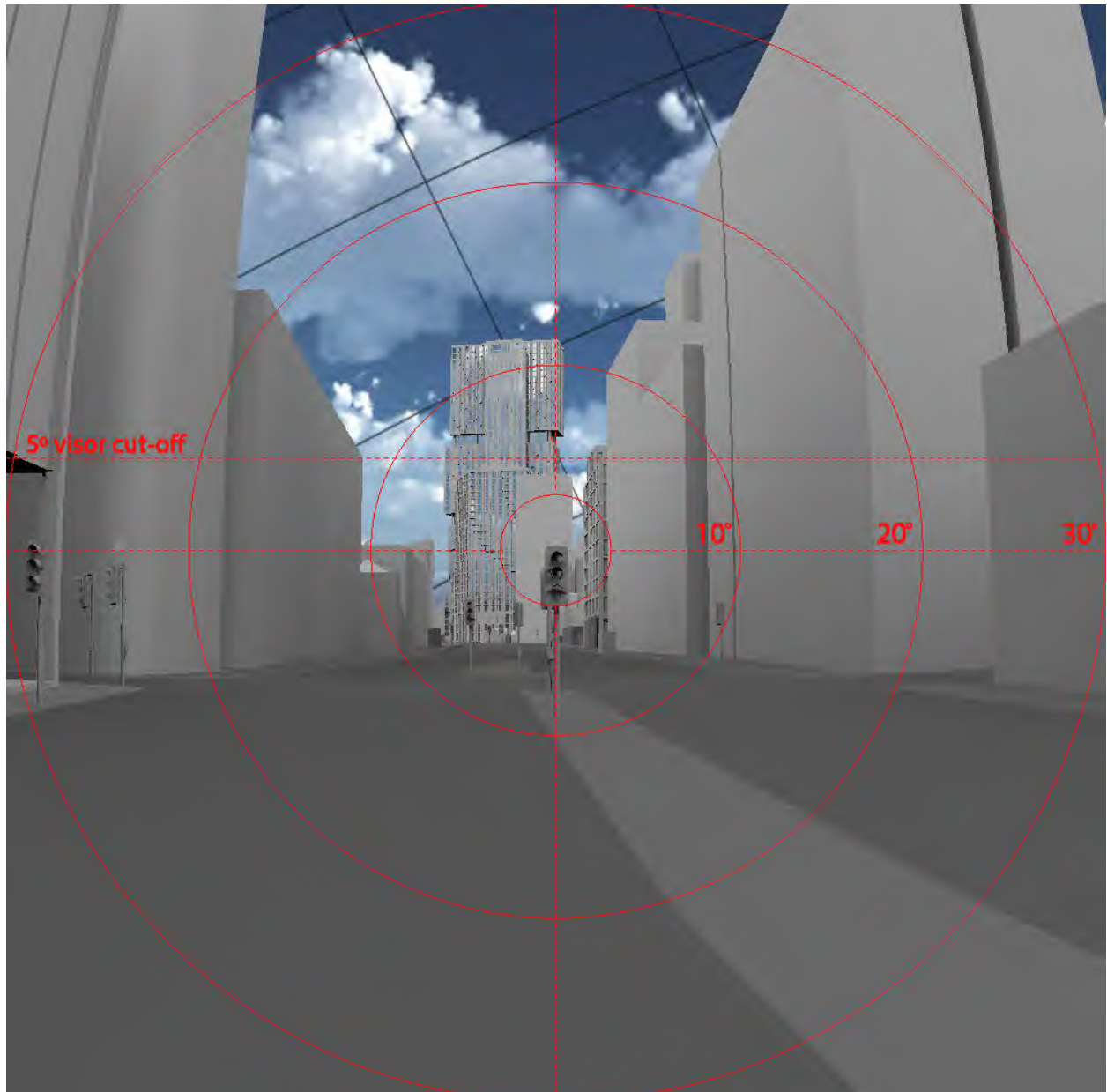
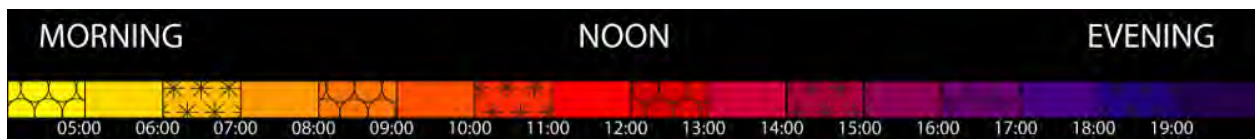


Fig. 46: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA5b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

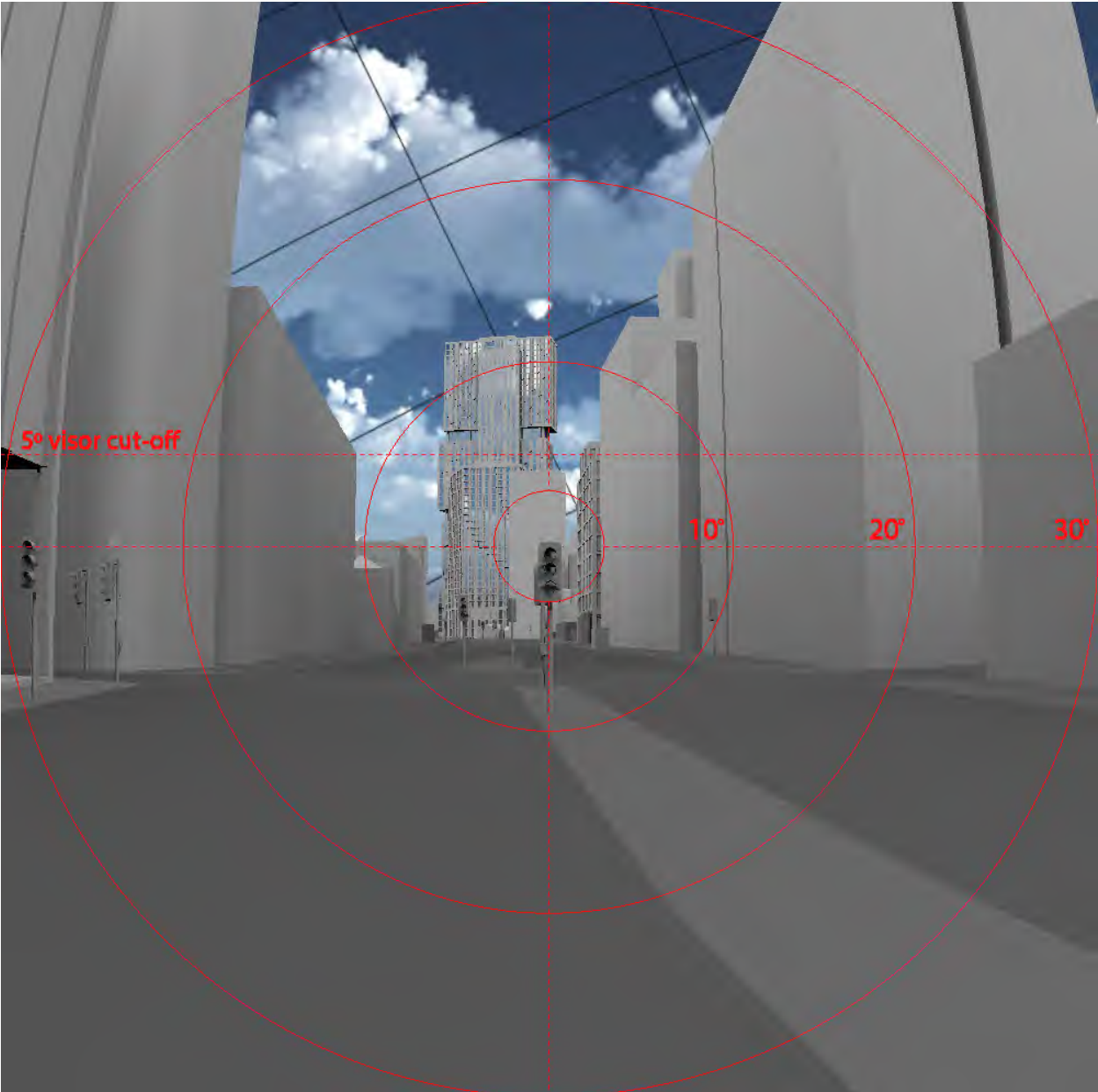


Fig. 47: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA6a - RIGHT LANE, LOOKING FORWARD

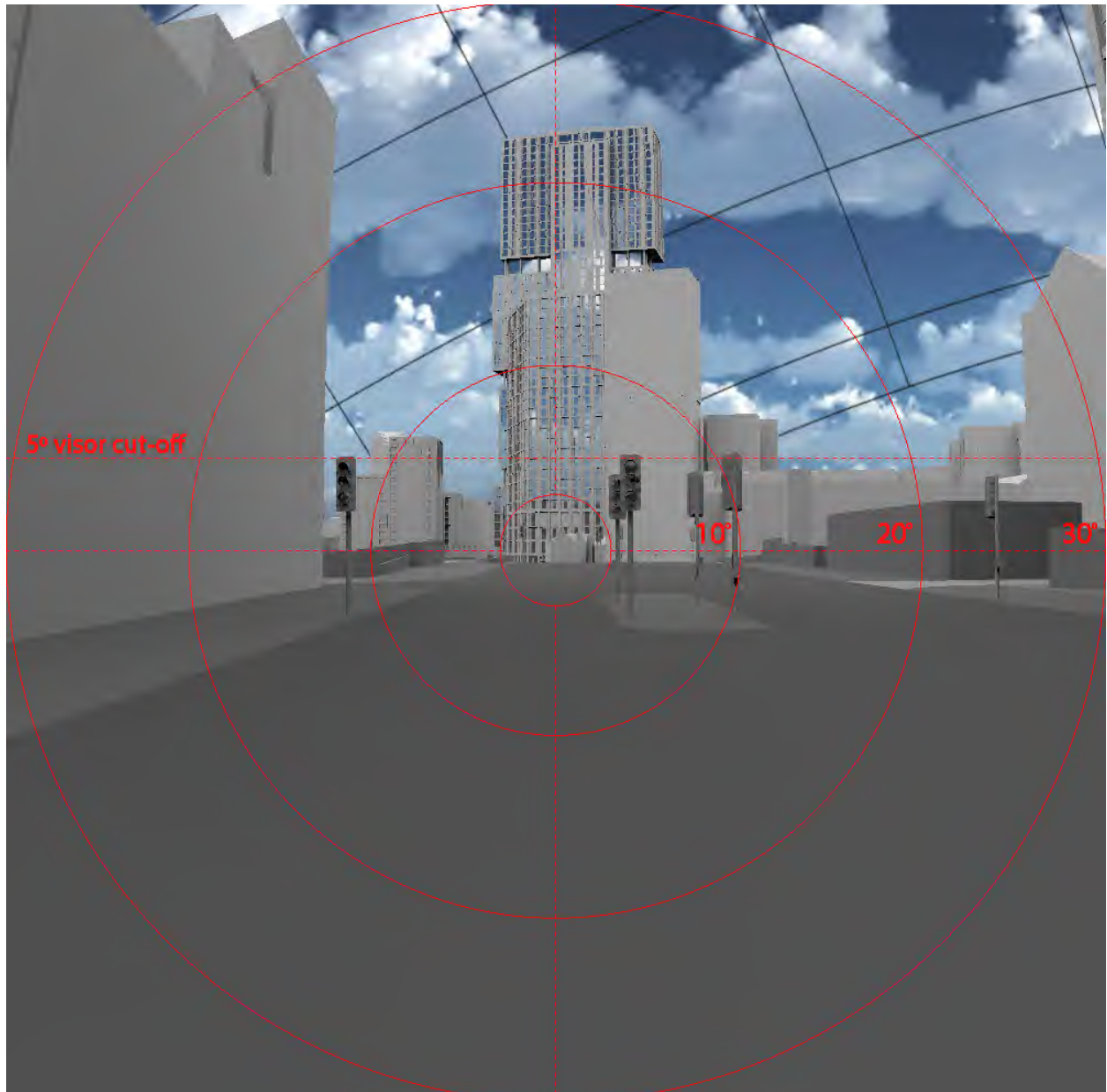
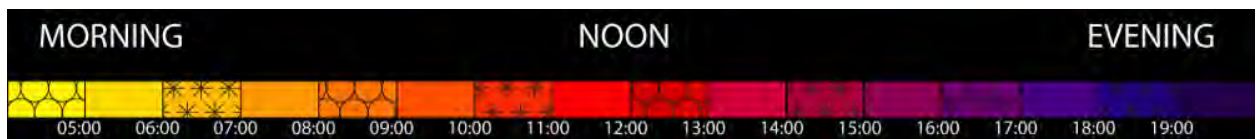


Fig. 48: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA6a - RIGHT LANE, LOOKING FORWARD

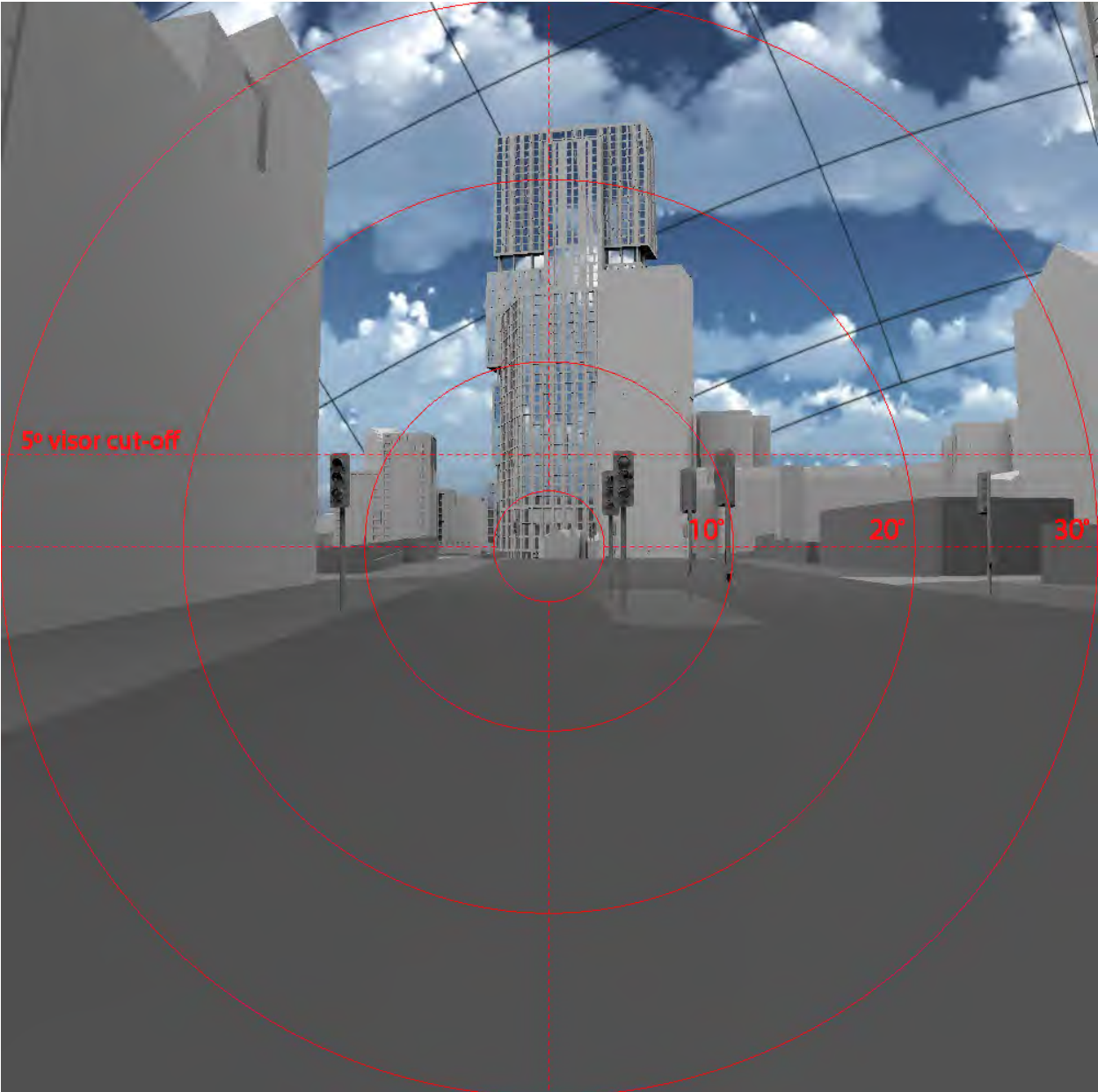


Fig. 49: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA6b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

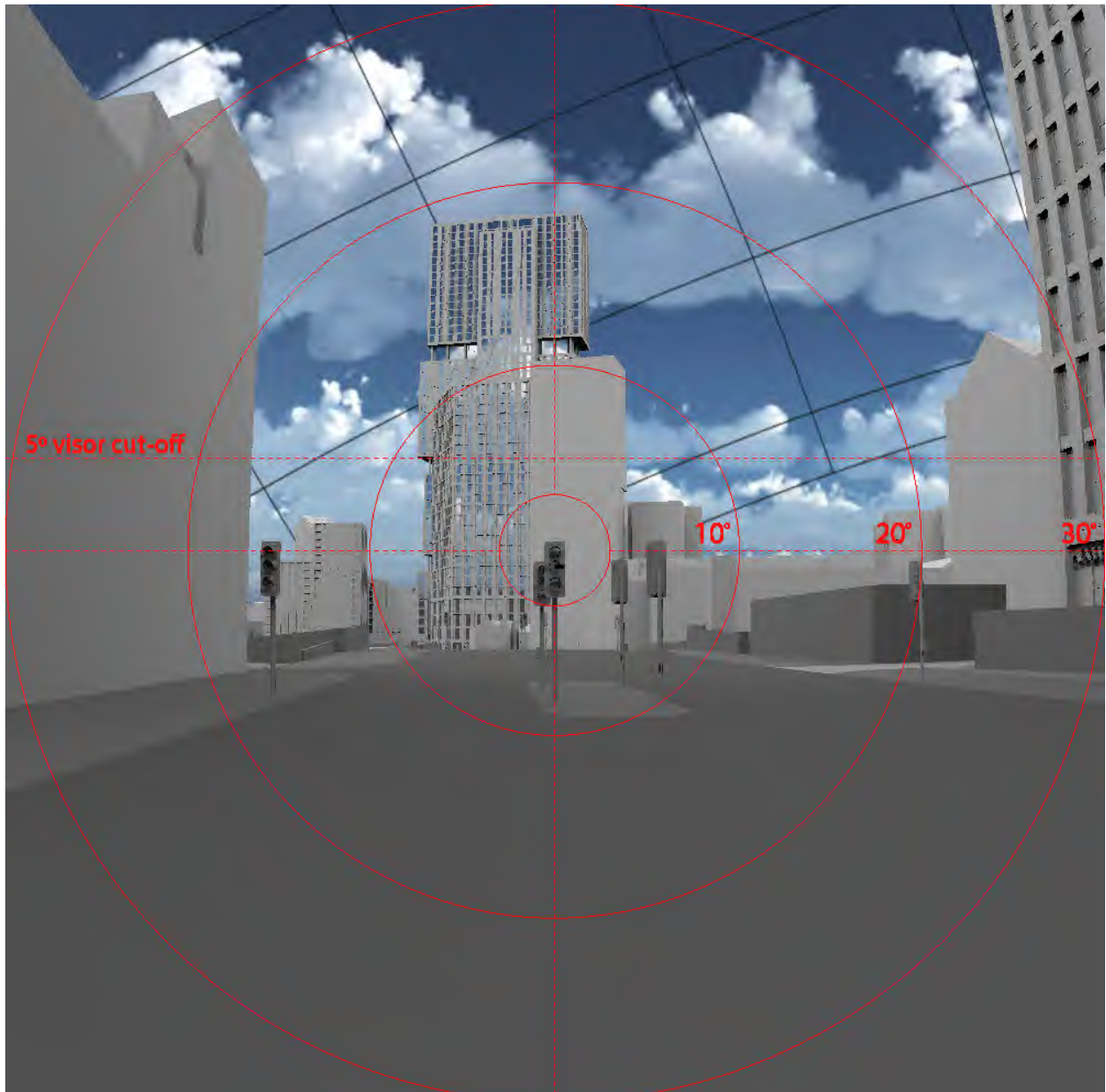
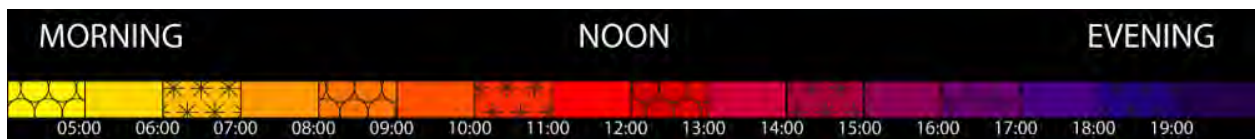


Fig. 50: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA6b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

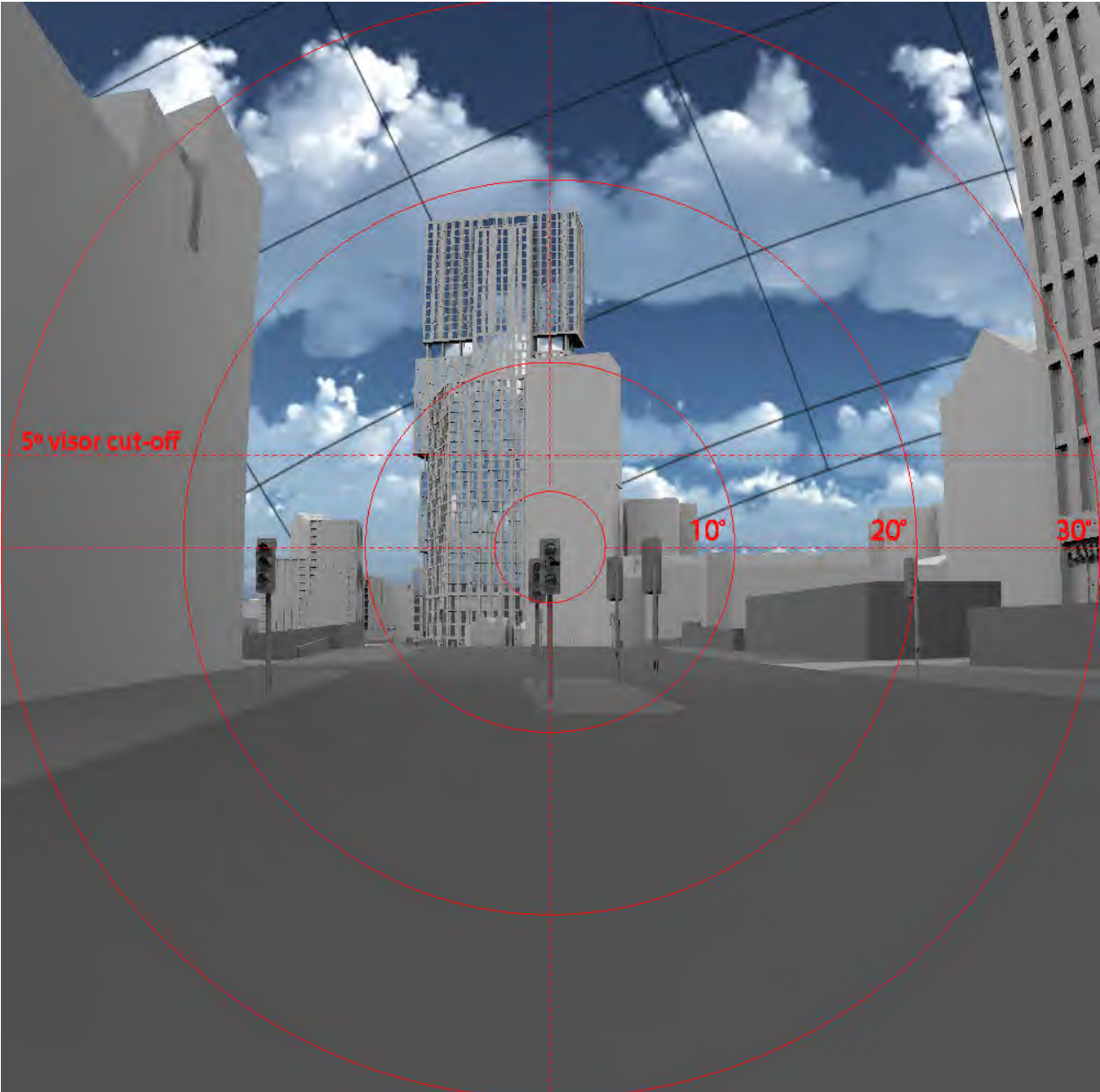


Fig. 51: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA7a - RIGHT LANE, LOOKING FORWARD

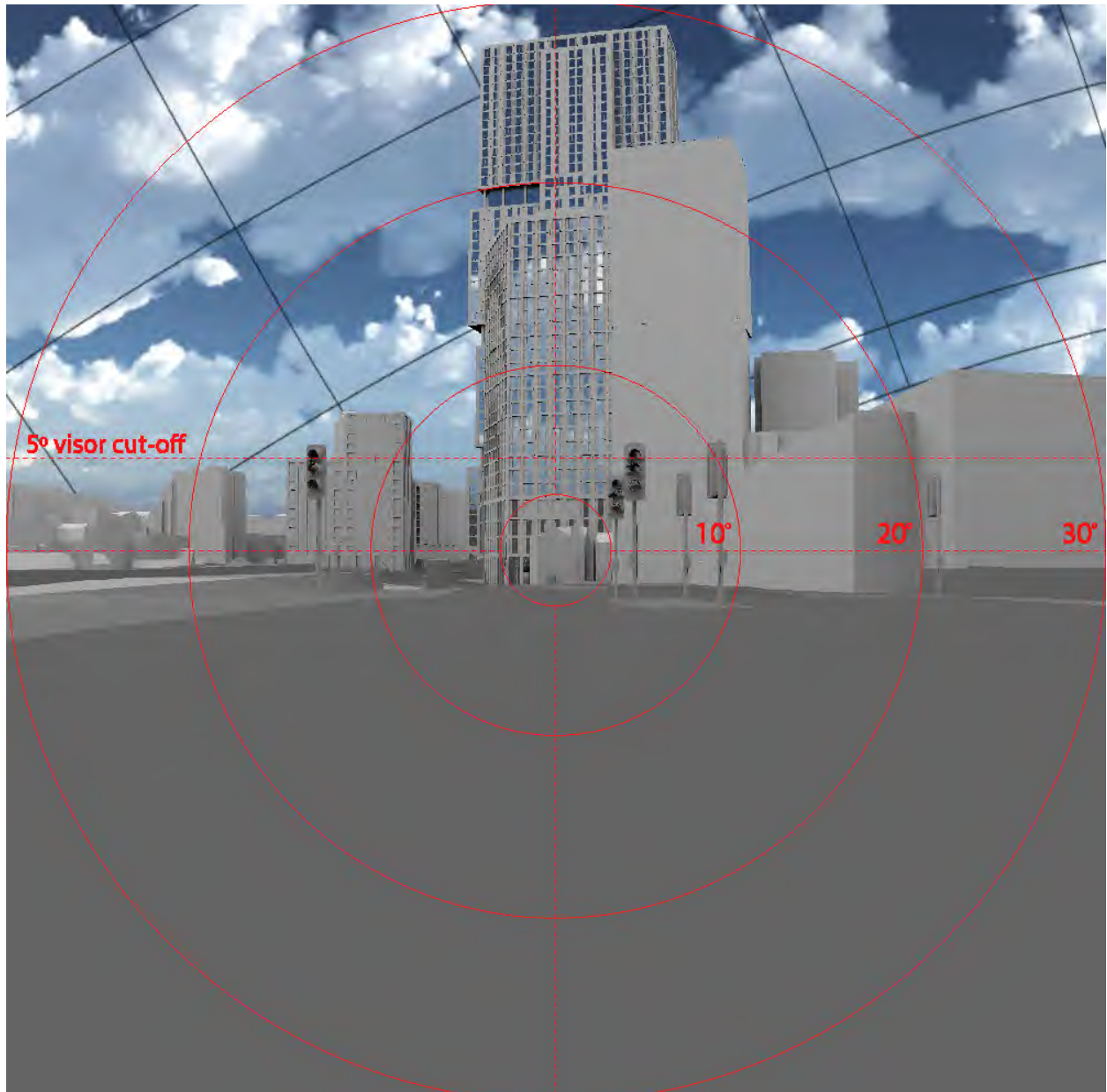
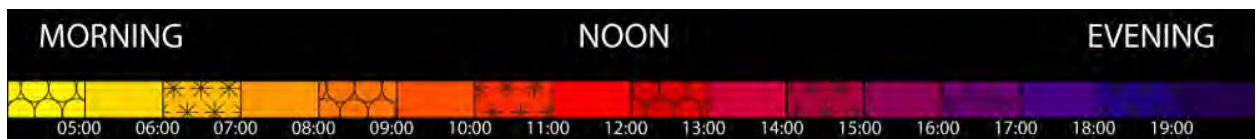


Fig. 52: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA7a - RIGHT LANE, LOOKING FORWARD

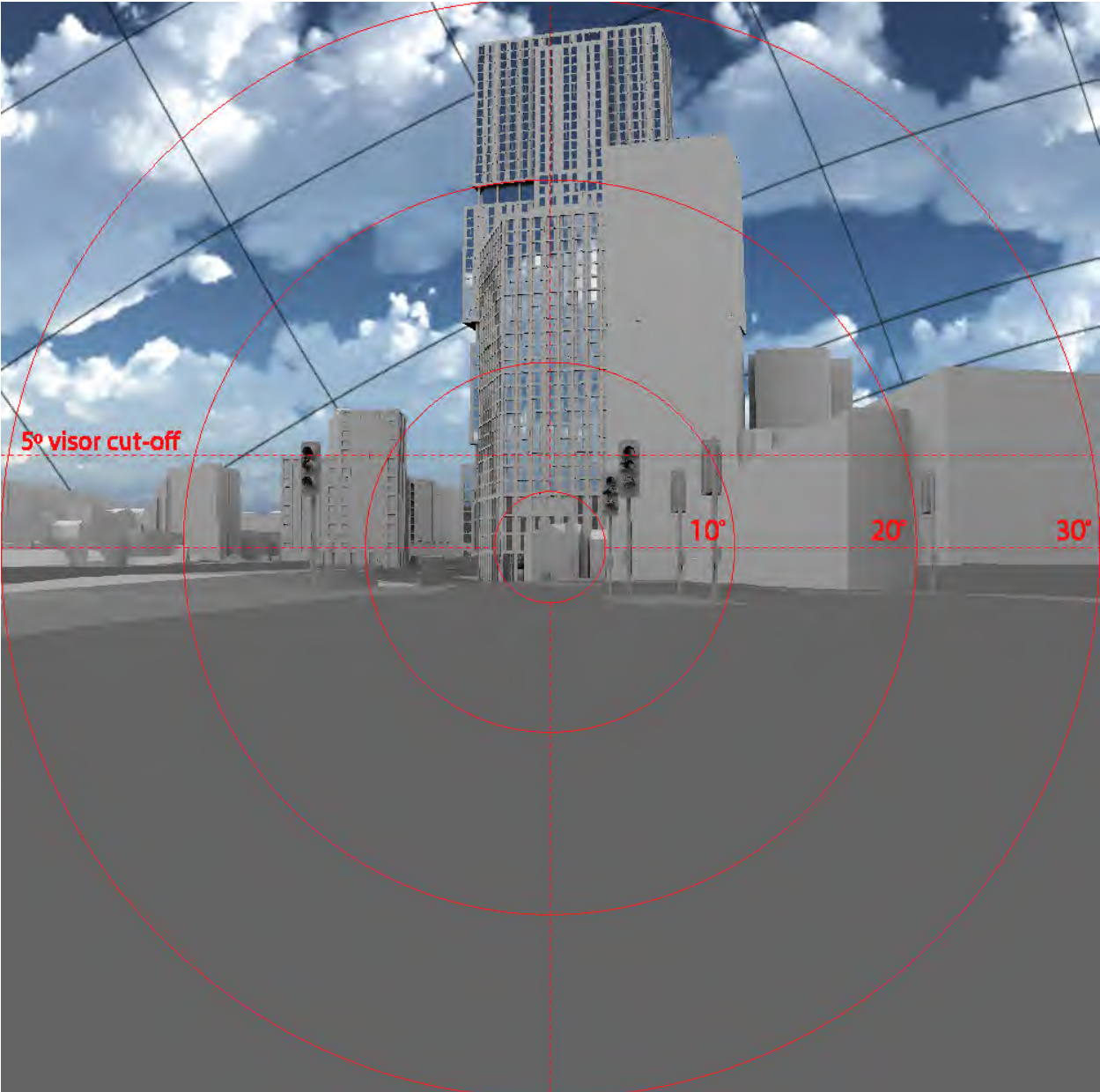


Fig. 53: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA7b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

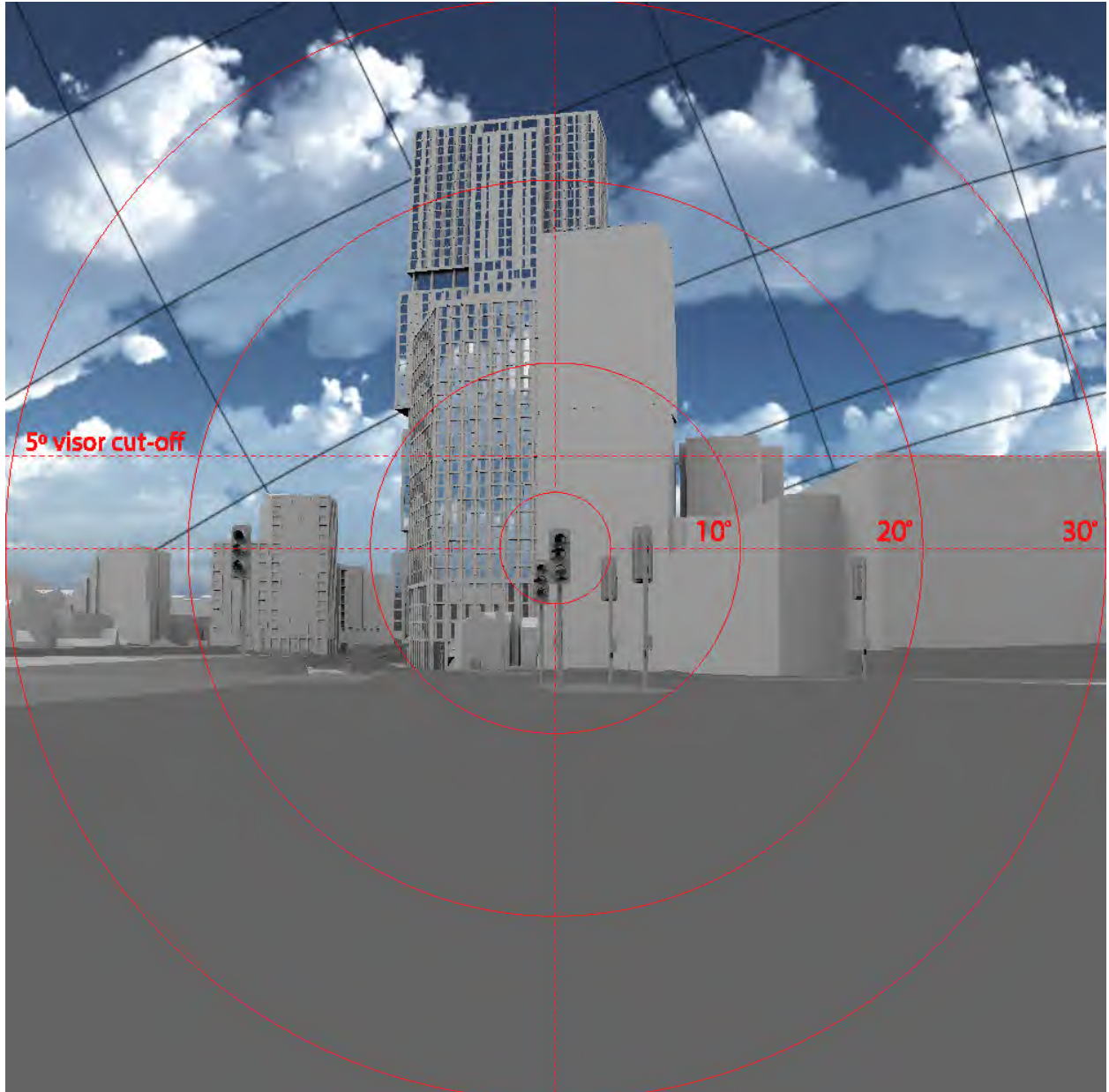
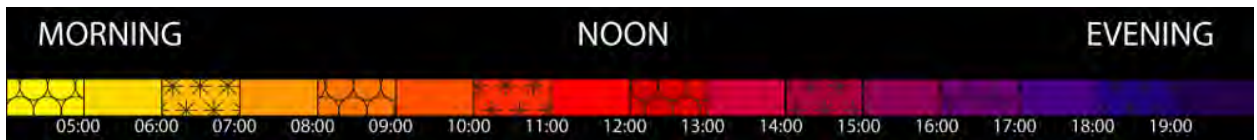


Fig. 54: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA7b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

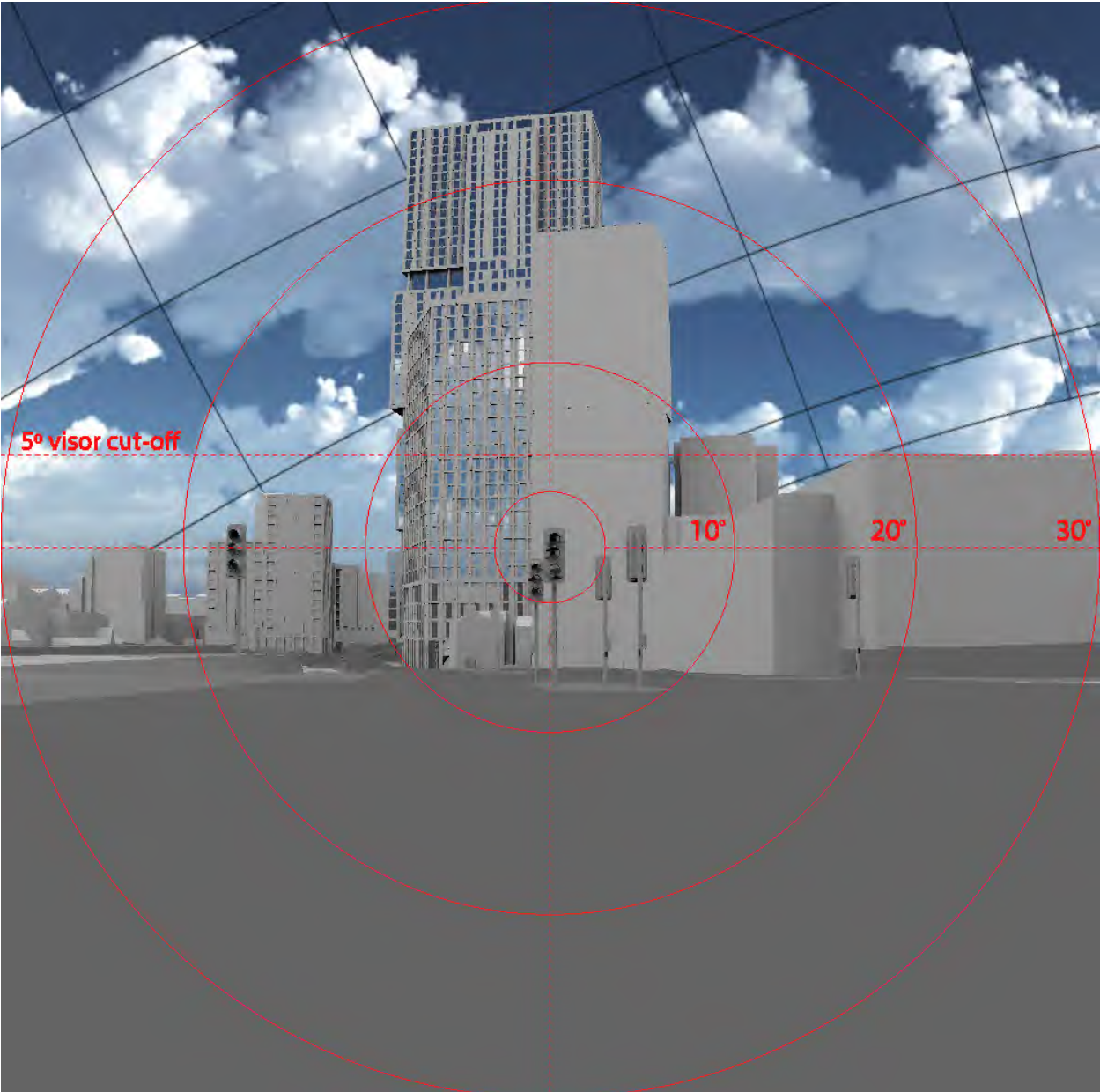


Fig. 55: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA8a - RIGHT LANE, LOOKING FORWARD

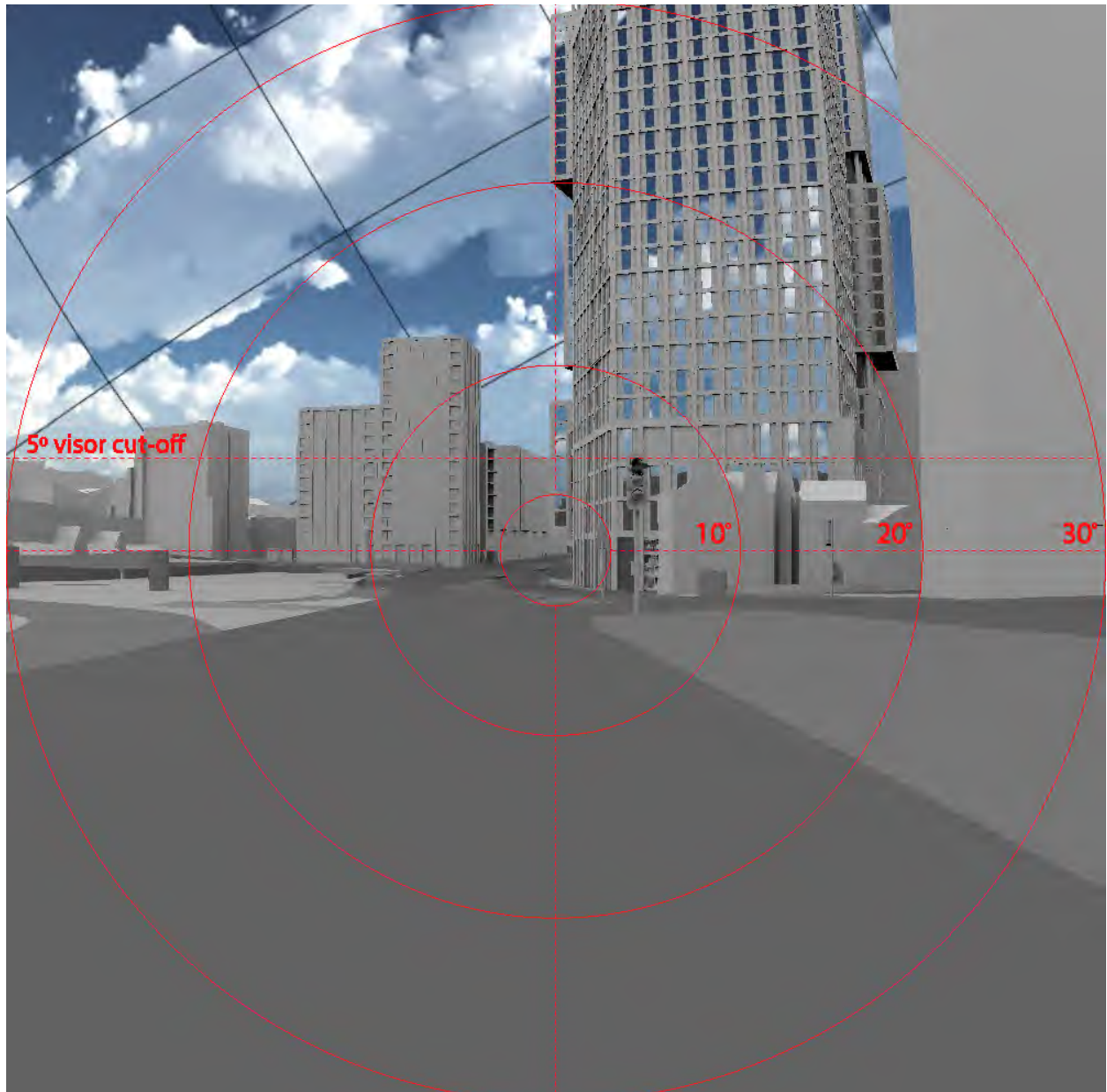
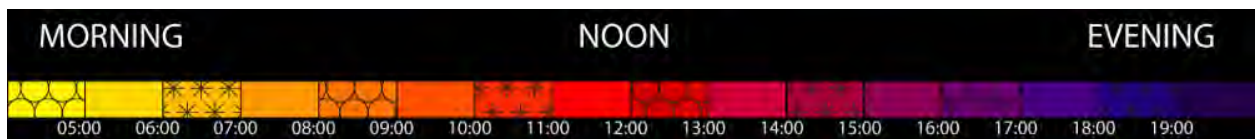


Fig. 56: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA8a - RIGHT LANE, LOOKING FORWARD

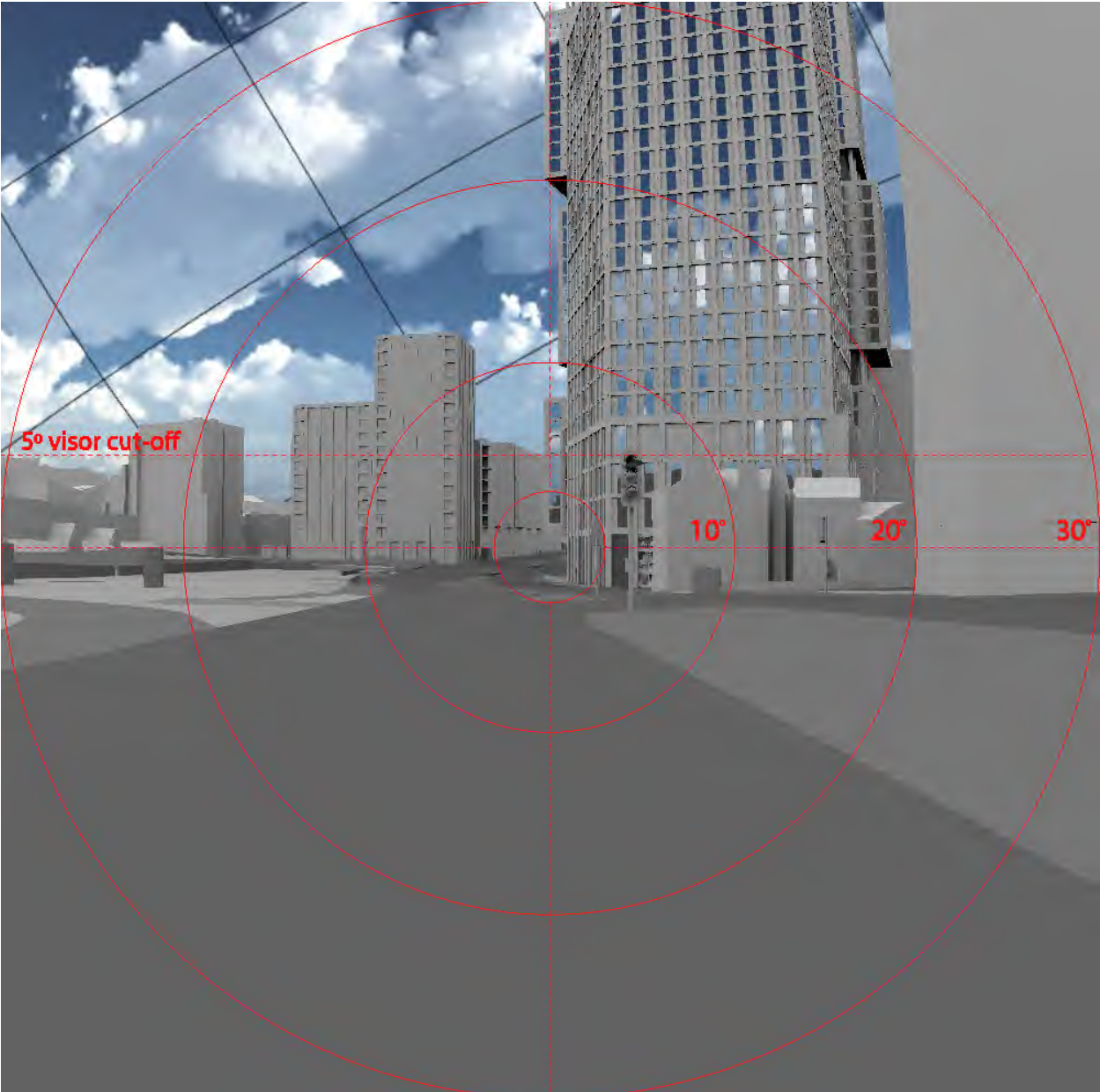


Fig. 57: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GA8b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

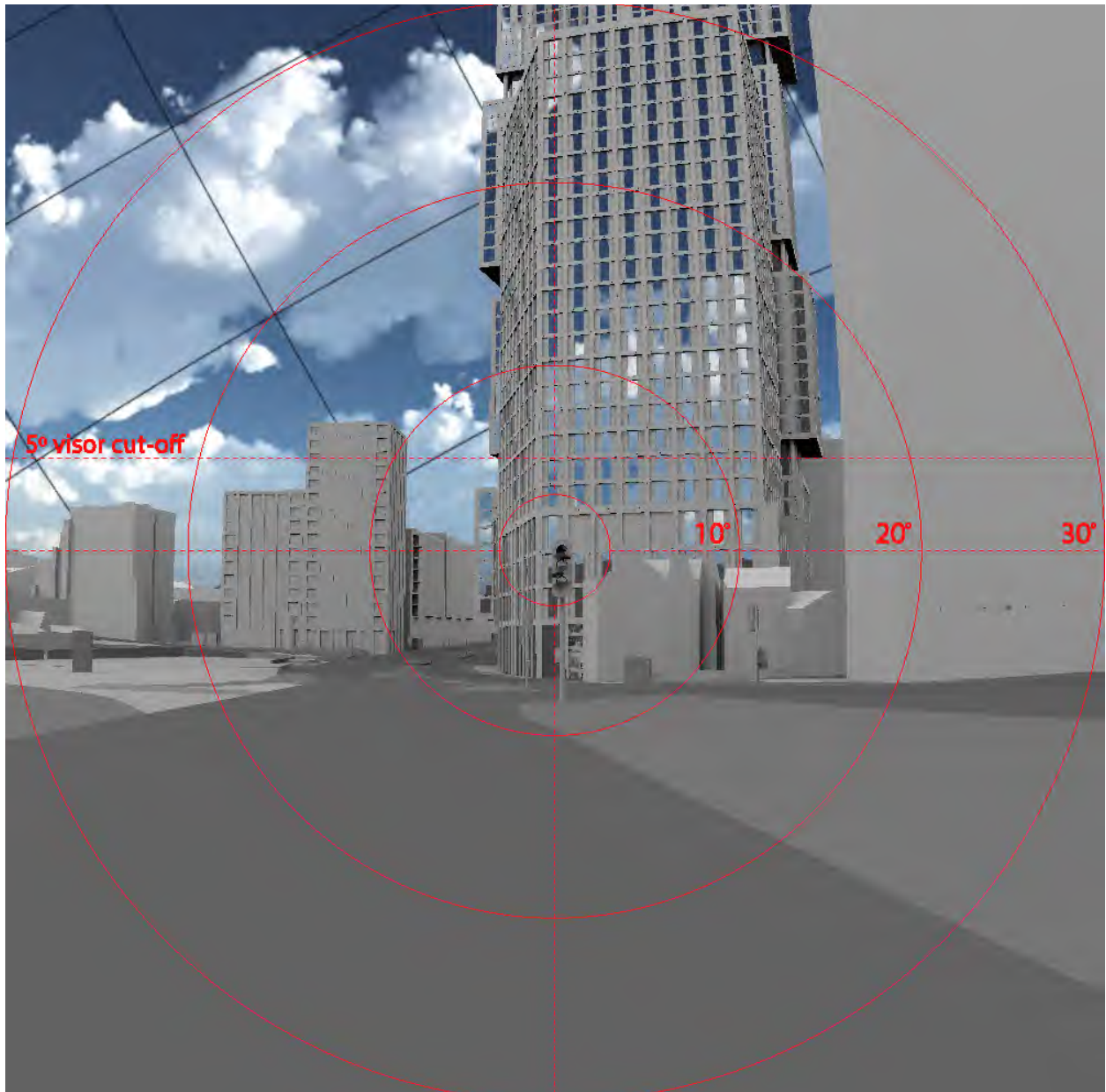
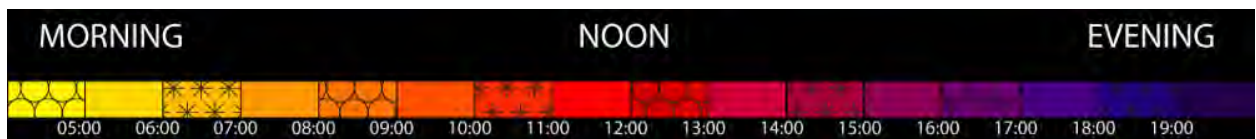


Fig. 58: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GA8b - RIGHT LANE, LOOKING AT TRAFFIC LIGHTS

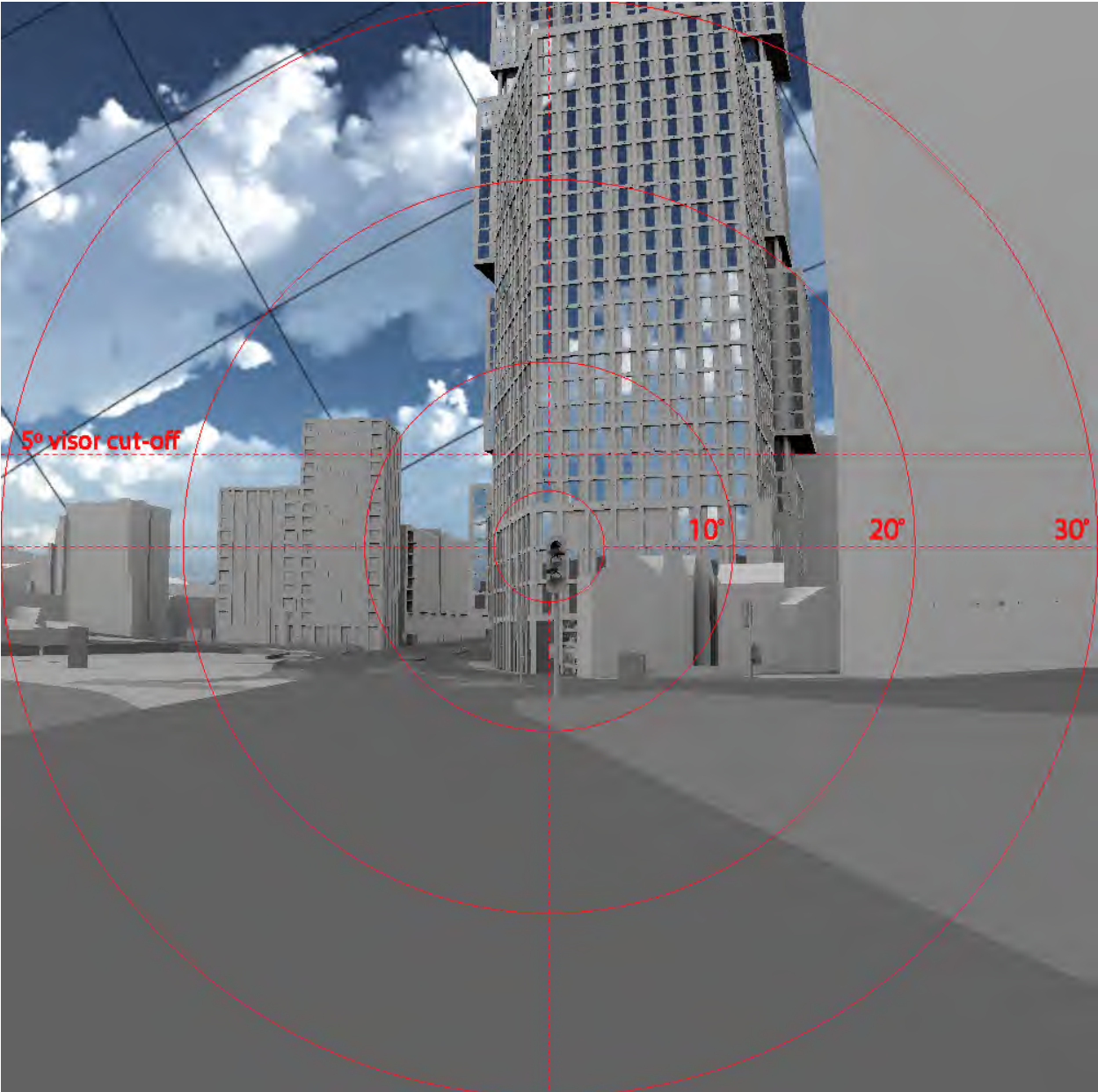


Fig. 59: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT T1 - LOOKING FORWARD

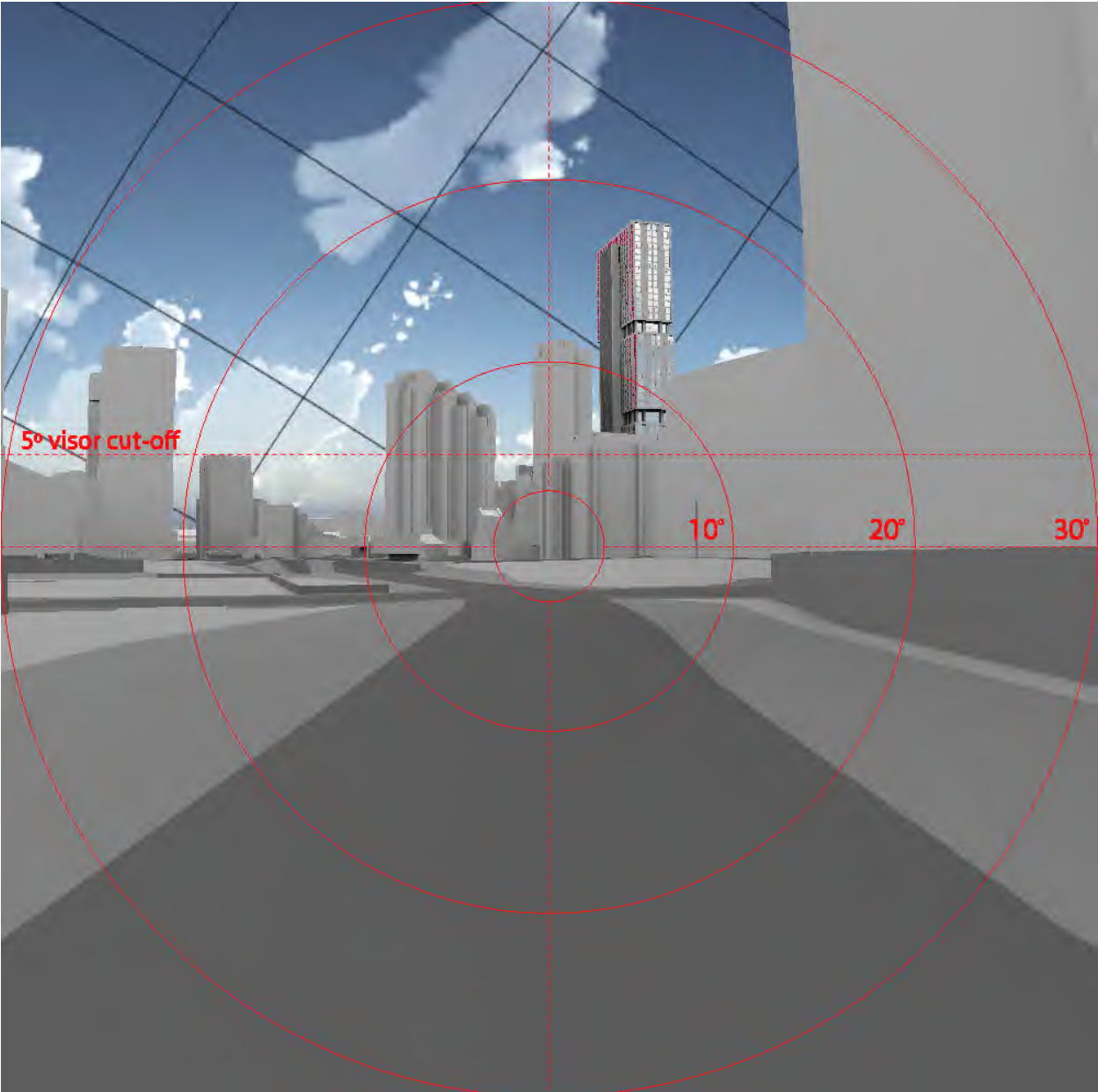
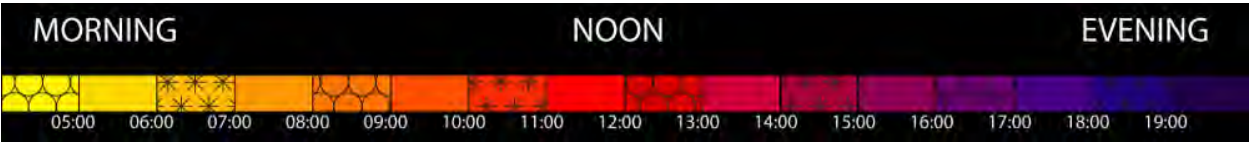


Fig. 60: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT T1 - LOOKING FORWARD

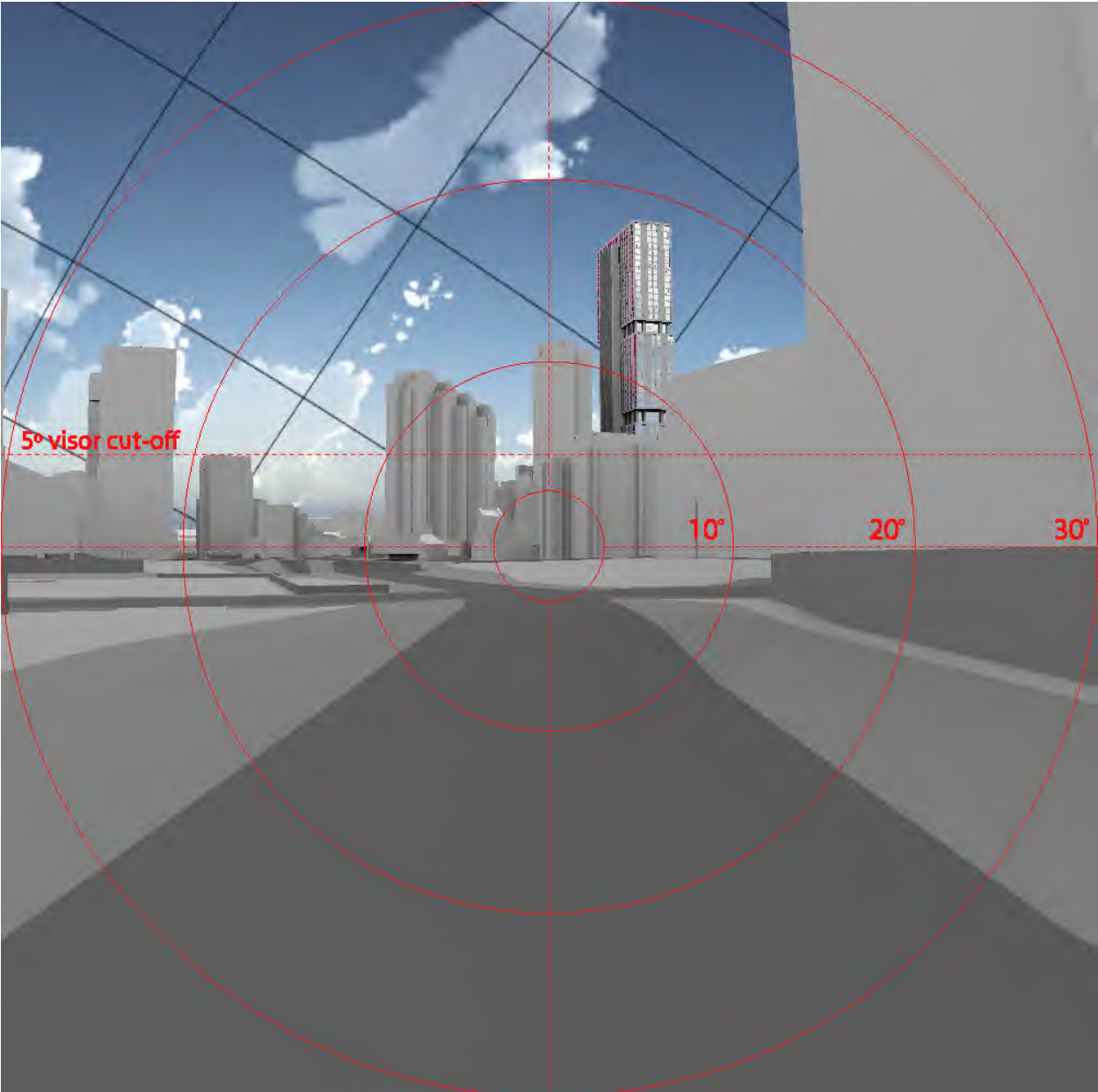


Fig. 61: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT T2 - LOOKING FORWARD

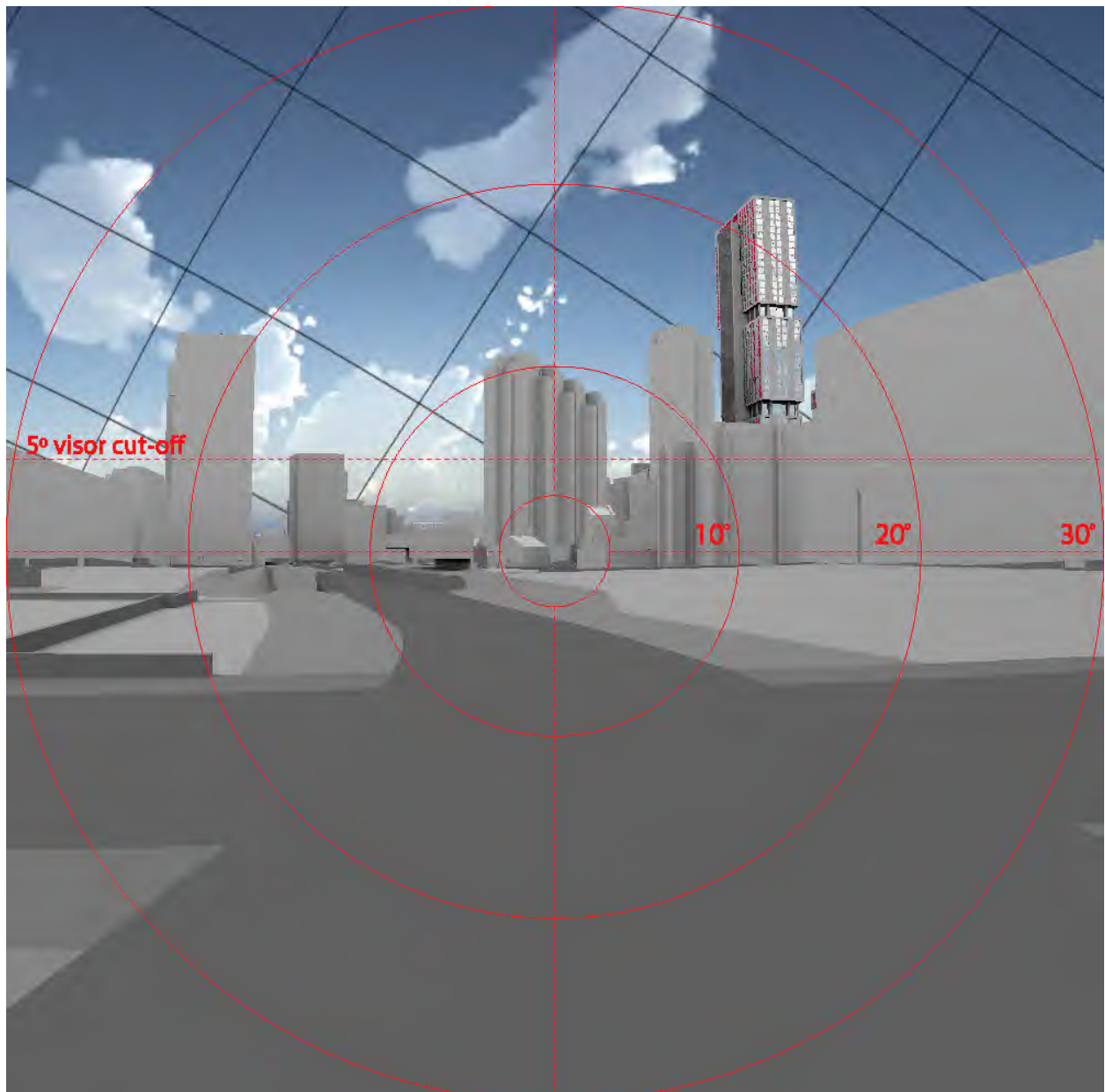
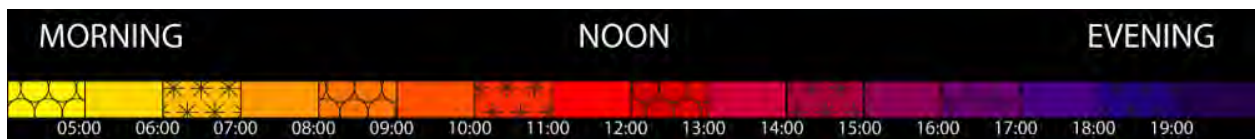


Fig. 62: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT T2 - LOOKING FORWARD

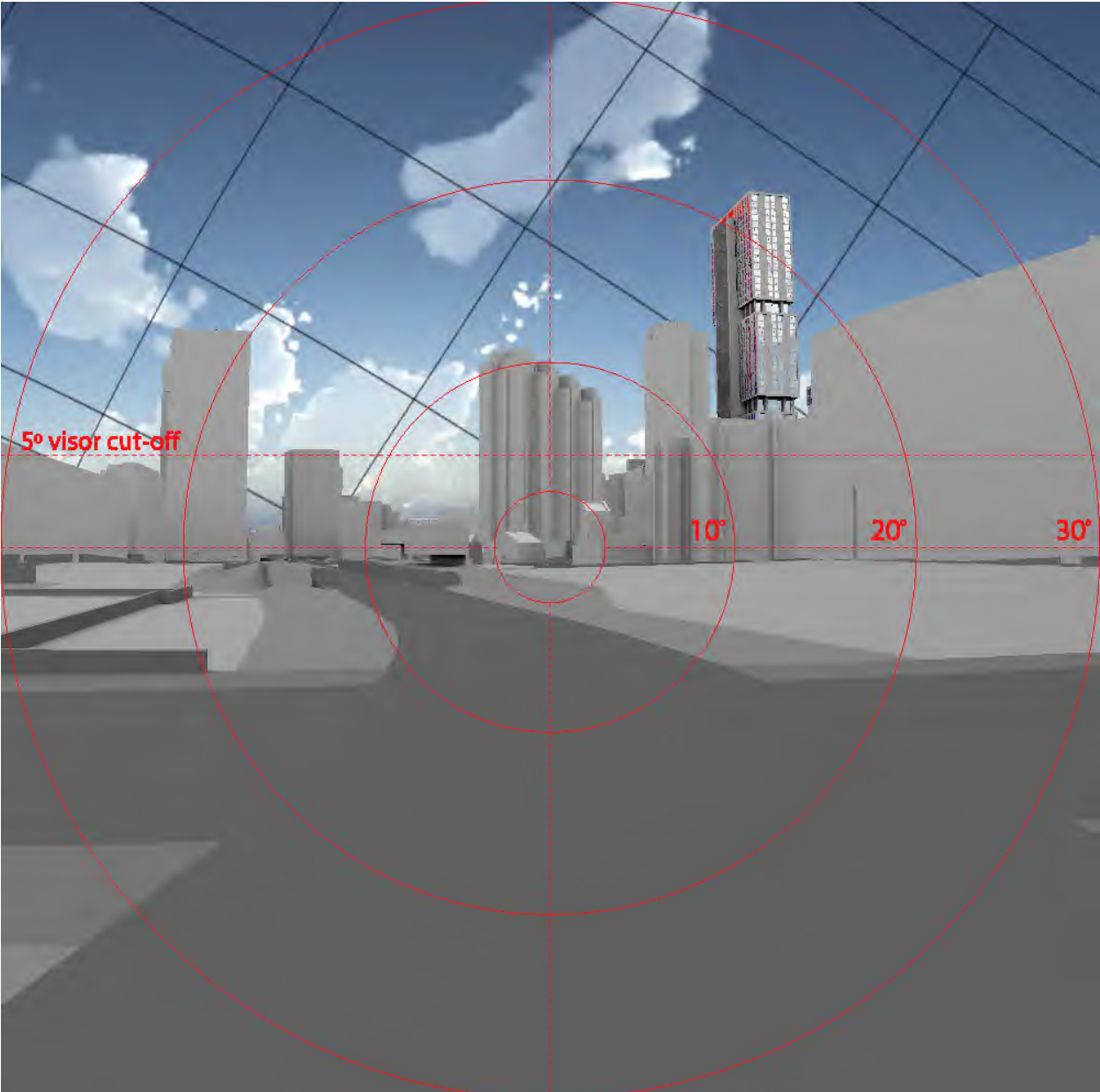


Fig. 63: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT T3 - LOOKING FORWARD

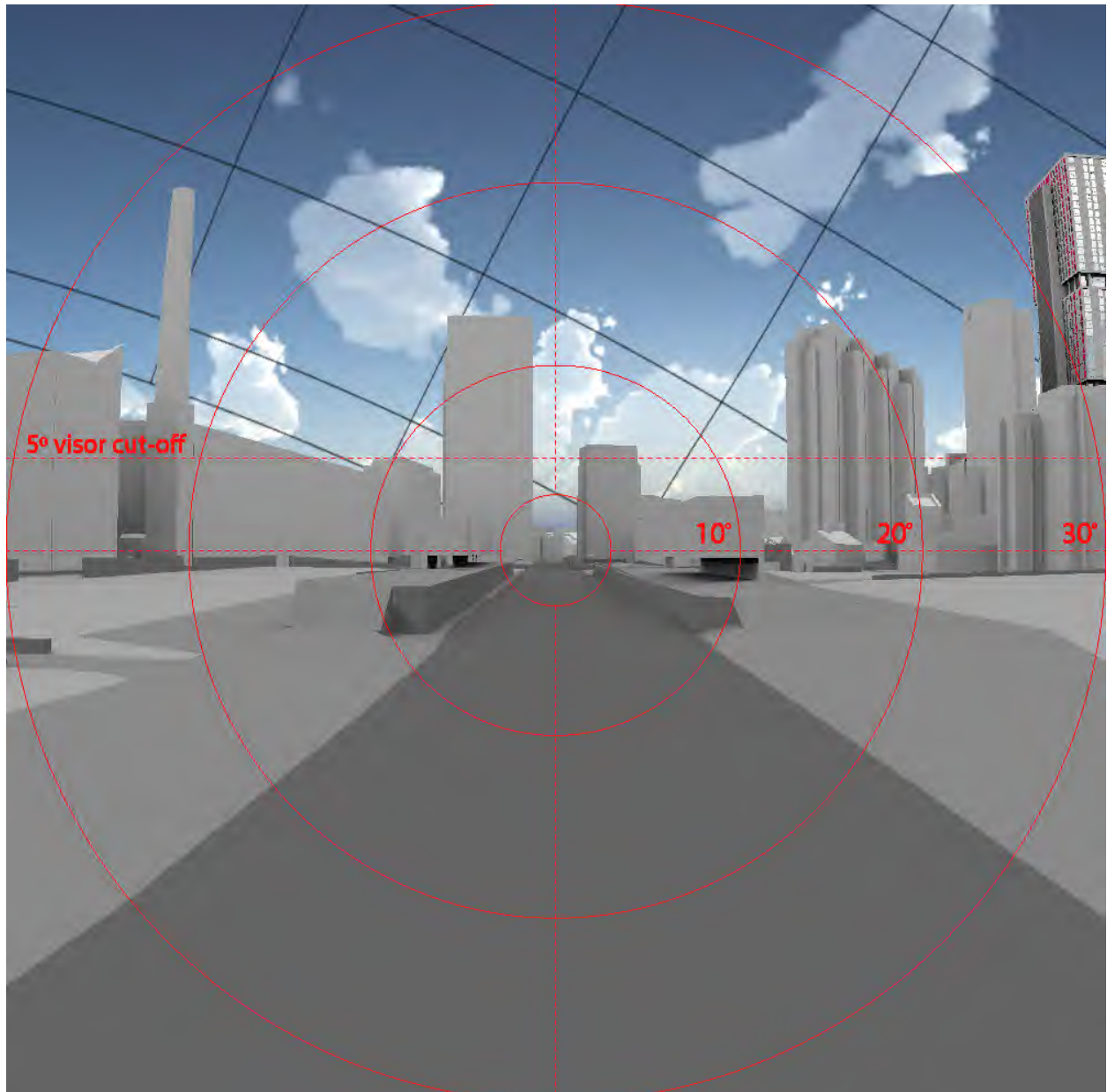
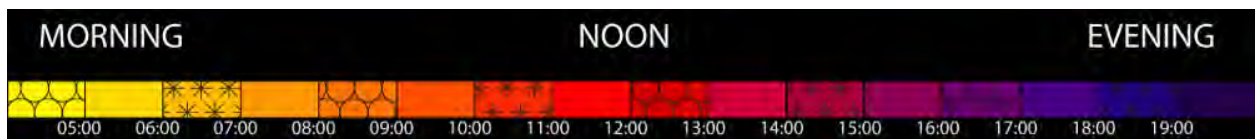


Fig. 64: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT T3 - LOOKING FORWARD

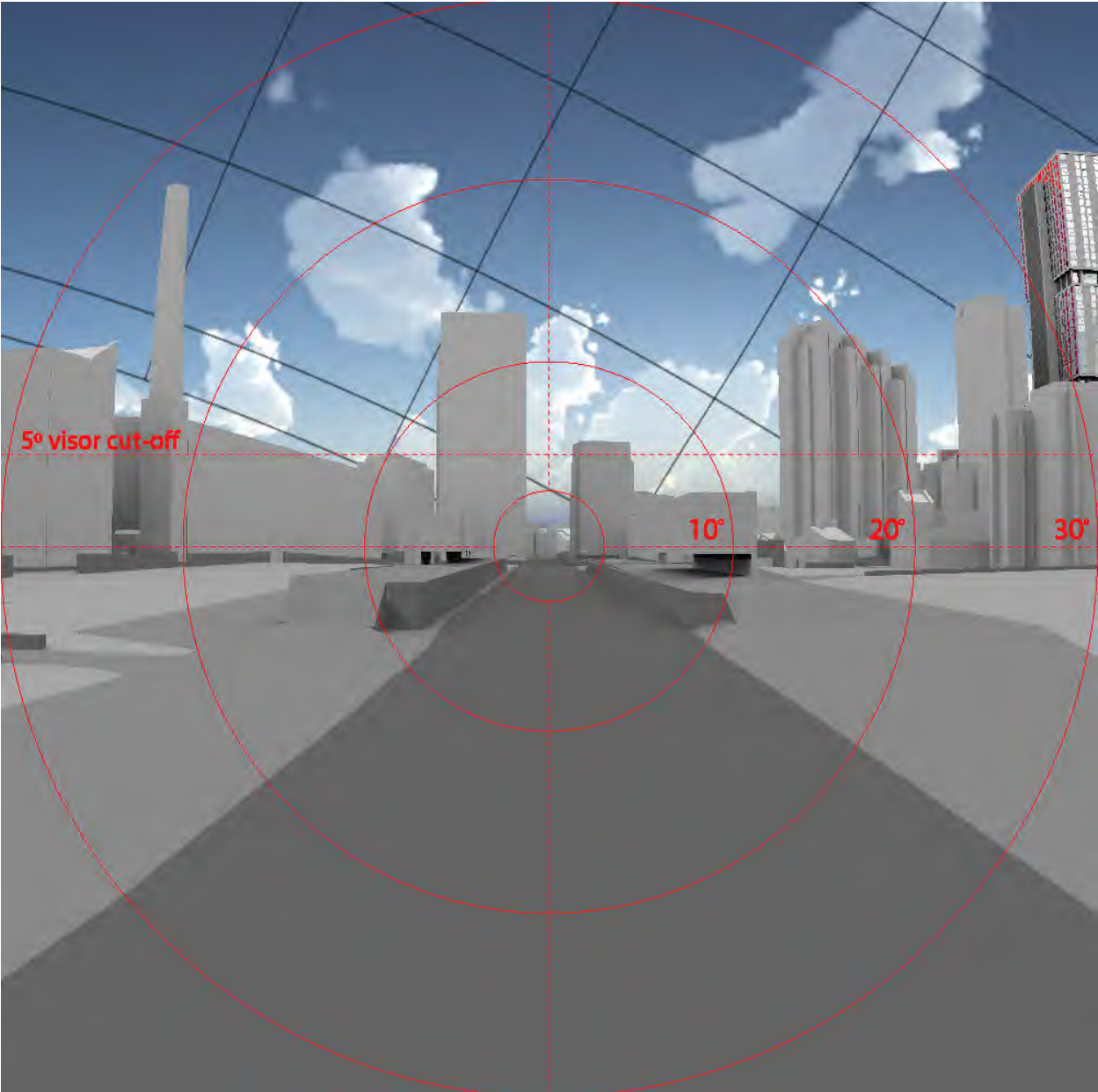


Fig. 65: Solar reflections





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