

Total Solar Resource Fraction (TSRF)

Contents

Annual Solar Values	1
Roof Summary	2
Roof Facets	4
Lengths	40
Pitch (Degrees)	41
Pitch (on 12)	42
Rafters	43
Azimuth	44
Area	45
Roof Obstructions	46
Imagery	47
Roofing Report Summary	50

This report can be used for roofing and solar installations. Roof Report Summary page is at the end of the report

Property Address

123 Main Street,
City, State 00000

Measurements

Area:	4,538 sq ft
Roof Facets:	20
Predominant Pitch:	27°
Number of Stories:	<=1
Ridges/Hips:	281 ft
Valleys:	218 ft
Rakes:	208 ft
Eaves:	187 ft
Estimated Attic:	4,059 sq ft
Roof Obstructions:	17
Roof Obstructions Perimeter:	98 ft
Roof Obstructions Area:	43 sq ft

See an overview of all major measurements before you open the report

Prepared for

EagleView Sample
Eagleview Solar Training
10900 NE 4th St Ste 800
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(855) 984-6590

Notes

Definitions for the shade report values used in the report

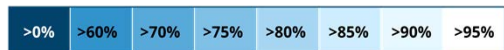
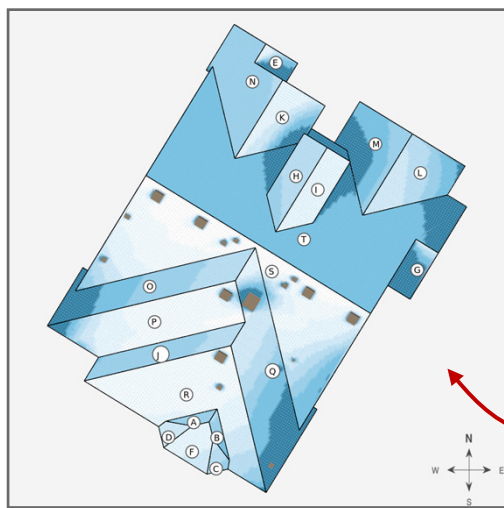
Solar Access Value (SAV) - The percentage of the energy that can be captured after taking into account the impact of shading.

Tilt and Orientation Factor (TOF) - The percentage of the energy that can be captured based on the roof plane orientation and pitch. This does not account for shading.

Total Solar Resource Fraction (TSRF) - The percentage of energy that can be captured taking into account both the roof plane tilt and orientation, and the impact of shading. This is the most useful value for calculating solar production.

Shade data (pages 2-39) are only in the Inform Advanced report, not included in Essentials +

Annual Solar Values



TSRF

Roof ID	SAV %	TSRF %
A	93	73
B	78	71
C	78	77
D	92	83
E	52	47
F	88	86
G	32	31
H	95	75
I	96	88
J	93	74
K	85	77
L	83	76
M	76	60

Roof ID	SAV %	TSRF %
N	93	73
O	82	65
P	88	86
Q	71	65
R	89	88
S	86	84
T	87	62

3D model of the home with a TSRF heat map overlay. Each roof facet is identified with a letter for reference throughout the report

Reference the color key for the TSRF value range. Lighter portions of the roof have the best sun access values

Table gives annual average solar values for each facet. Values are calculated using a data point every 6" across the roof

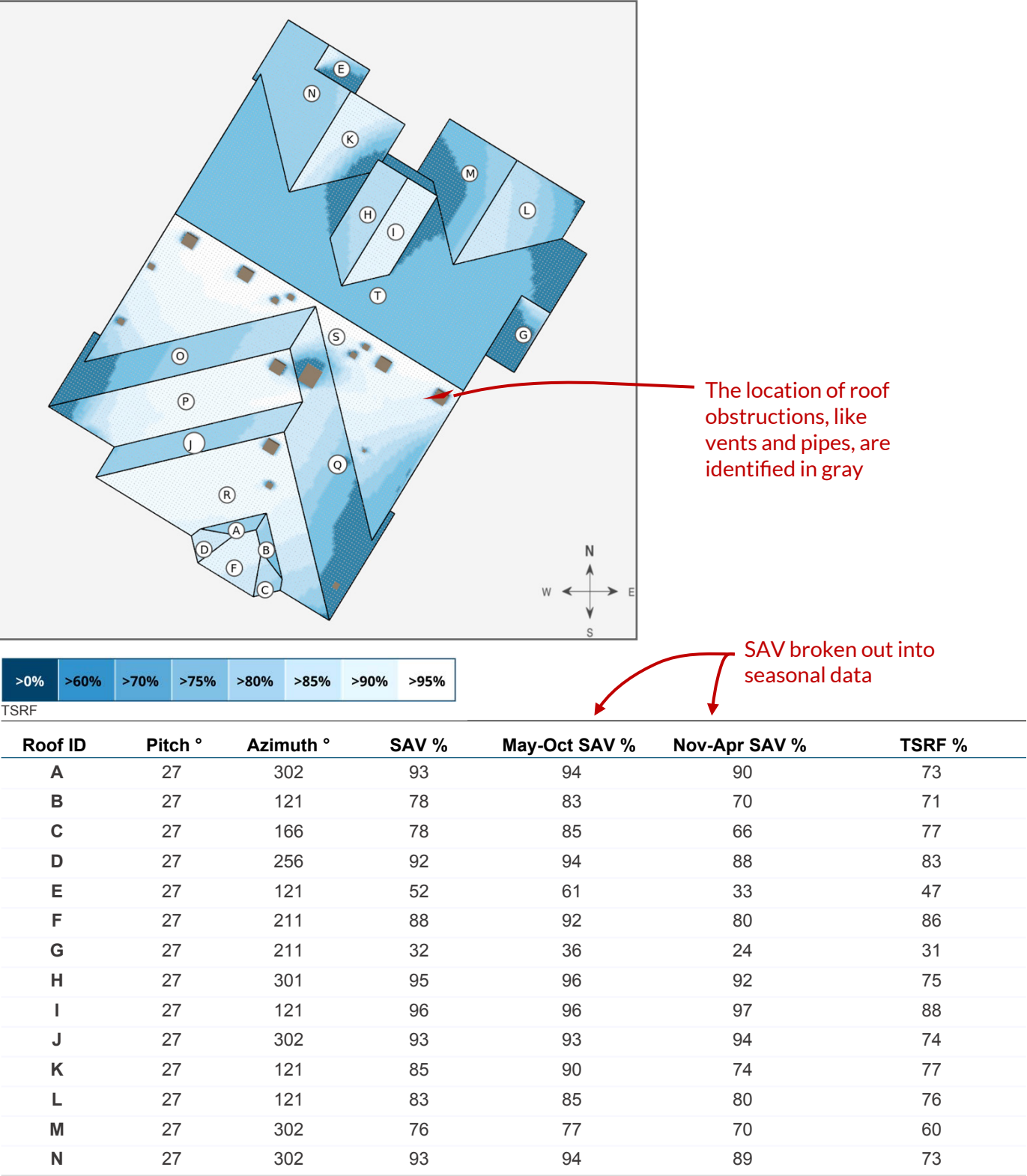
Property address and report number listed on the bottom of every page

October 28, 2021
 Property Address:
 123 Main Street, City, State 00000
 Report: 43108022



Roof Summary

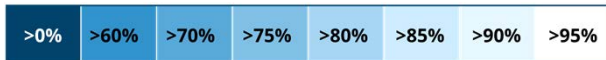
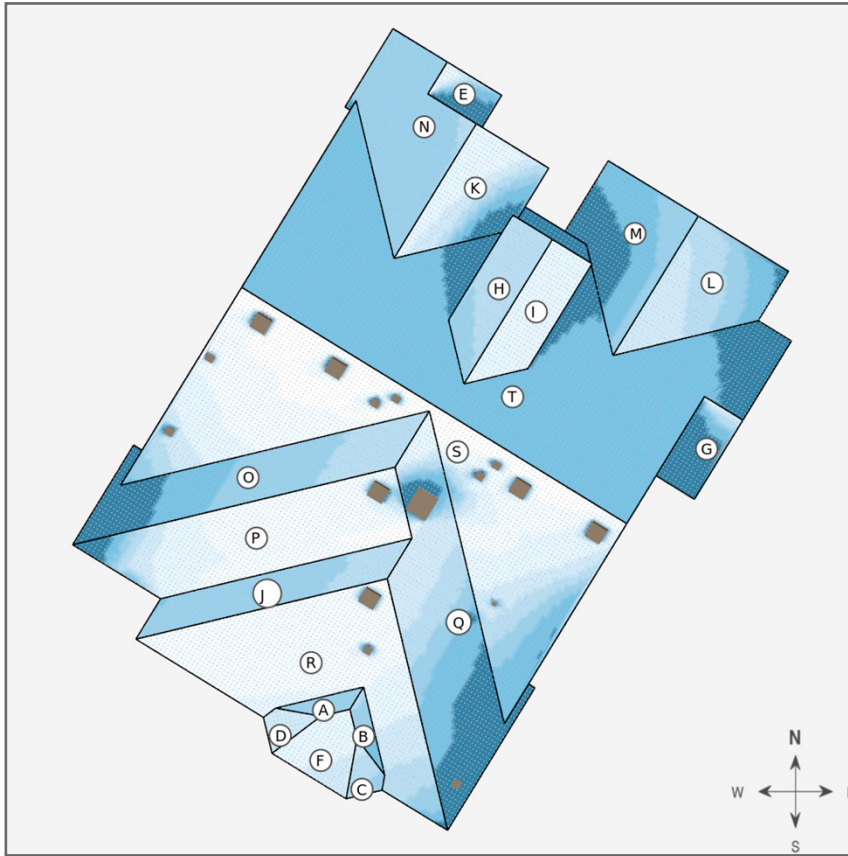
The TSRF heatmap has been overlaid on the image. This page is meant as a tool to enable module level design.



October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022

Summaries of pitch and azimuth give you useful data before you page through the report





TSRF

Roof ID	Pitch °	Azimuth °	SAV %	May-Oct SAV %	Nov-Apr SAV %	TSRF %
O	27	302	82	82	81	65
P	27	211	88	87	89	86
Q	27	121	71	75	63	65
R	27	211	89	92	85	88
S	27	211	86	88	83	84
T	27	32	87	88	82	62

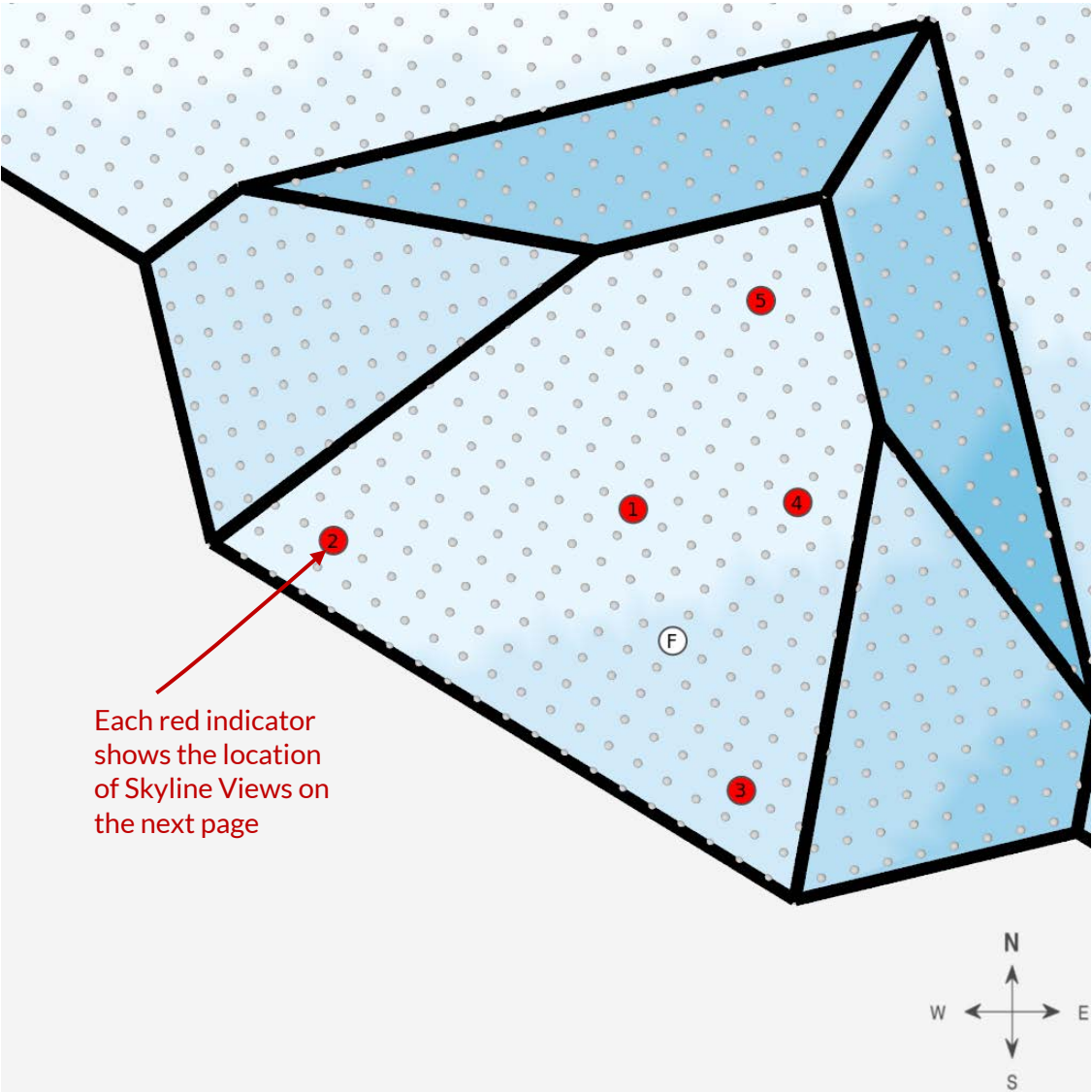
October 28, 2021
 Property Address:
 123 Main Street, City, State 00000
 Report: 43108022



Roof Facets

Detail page for each roof facet over 50 sq. ft

FACET F DETAIL



Each red indicator shows the location of Skyline Views on the next page

>0%	>60%	>70%	>75%	>80%	>85%	>90%	>95%
-----	------	------	------	------	------	------	------

TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	69	95	66
February	82	97	80
March	92	98	90
April	94	98	92
May	93	100	93
June	93	100	93

See definitions of terms on the cover page

Month	SAV %	TOF %	TSRF %
July	93	100	92
August	94	98	92
September	93	98	91
October	87	98	85
November	76	97	73
December	65	96	63

October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022

Monthly solar values for the facet



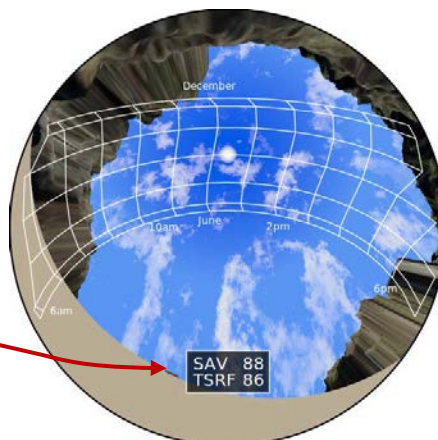
Skyline views correspond to red indicators on previous page

Facet F - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

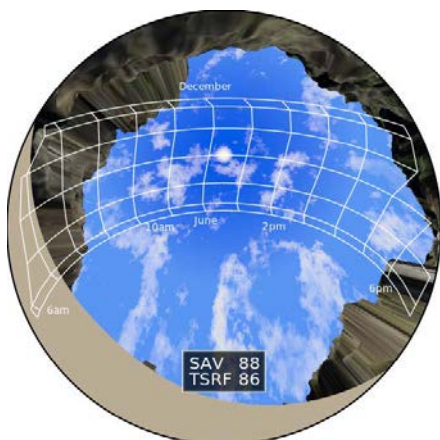
SAV & TSRF shown for this location on the roof

FACET F, VIEW 1

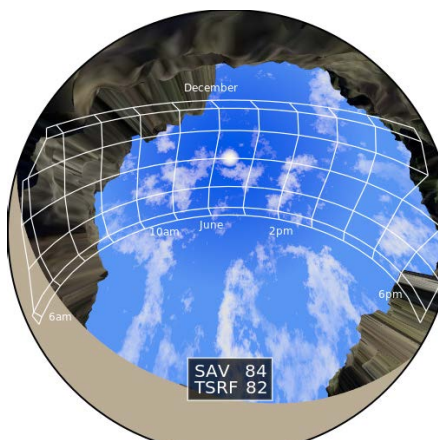


Synthetic skylines show the 360 view from a specific spot on the roof to visualize shade causing obstructions

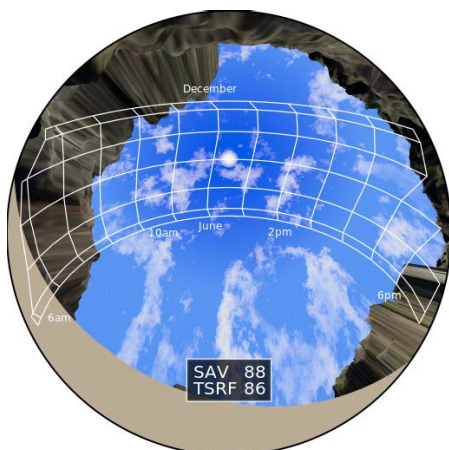
FACET F, VIEW 2



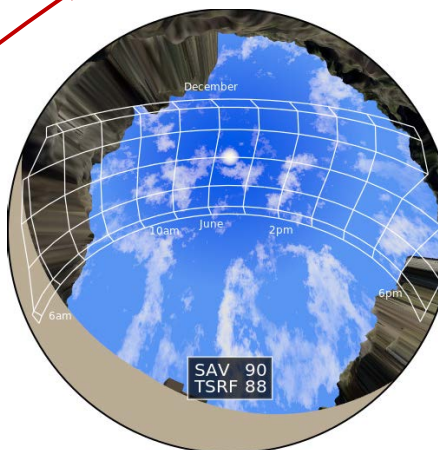
FACET F, VIEW 3



FACET F, VIEW 4



FACET F, VIEW 5



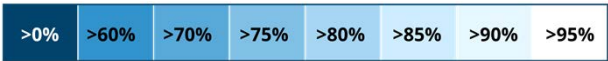
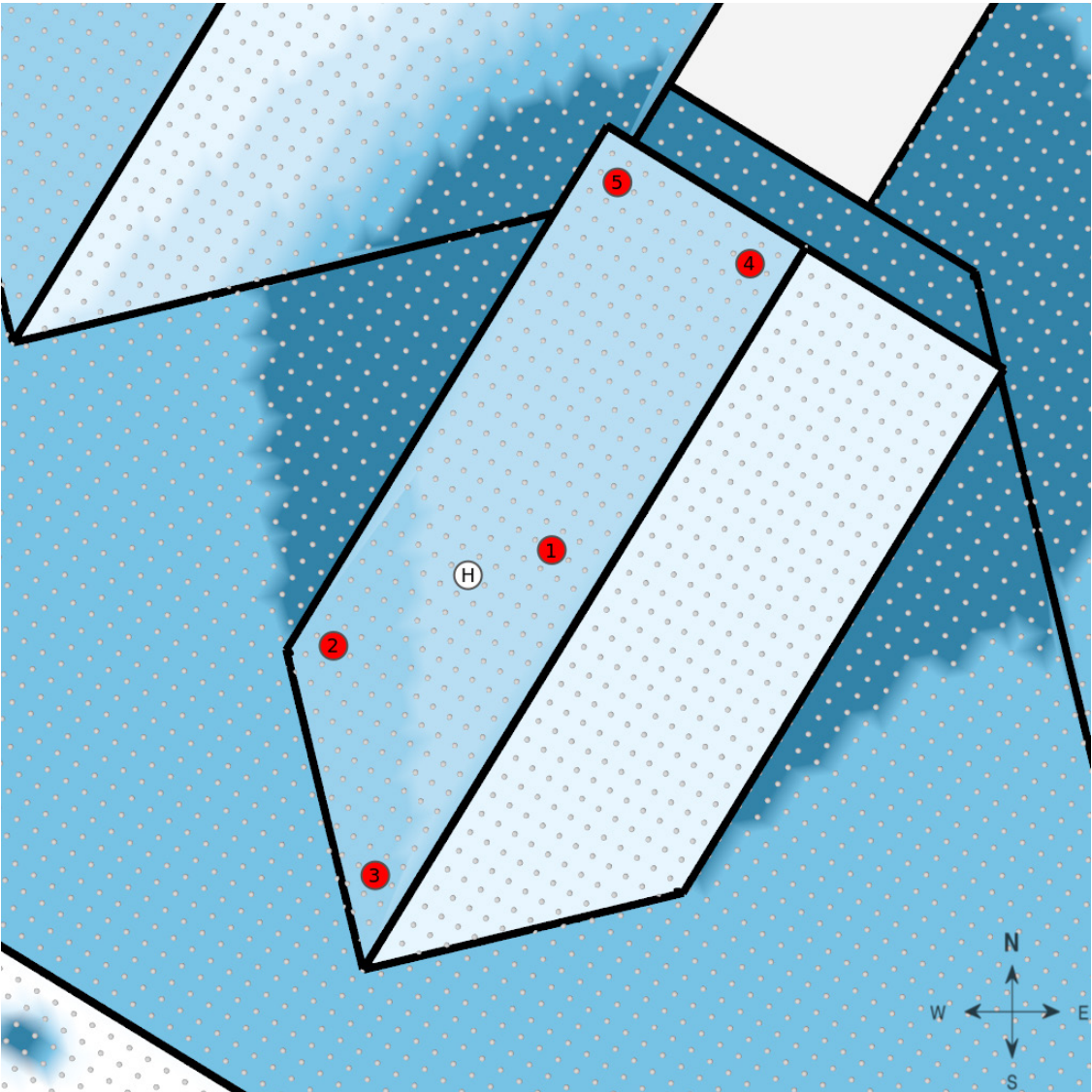
The roof is gray, roof obstructions on the roof itself are black, and the shapes along the border are trees and buildings surrounding the home

October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET H DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	90	53	48
February	92	64	59
March	96	74	71
April	97	85	83
May	97	98	95
June	97	100	97

Month	SAV %	TOF %	TSRF %
July	97	99	95
August	97	88	86
September	96	78	74
October	94	66	62
November	90	57	51
December	88	52	46

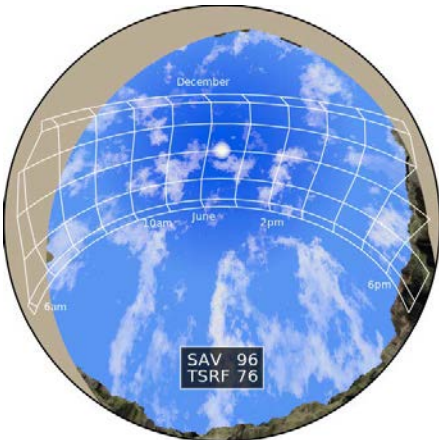
October 28, 2021
 Property Address:
 123 Main Street, City, State 00000
 Report: 43108022



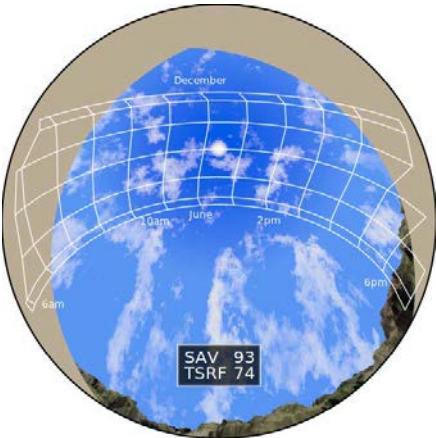
Facet H - skyline views

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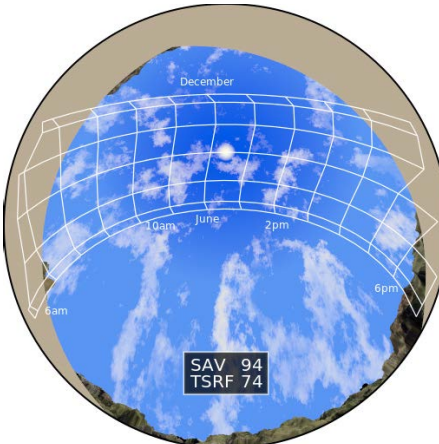
FACET H, VIEW 1



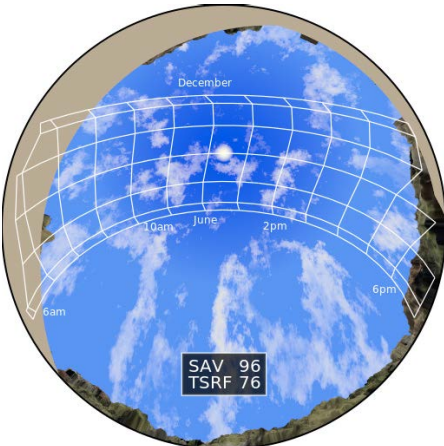
FACET H, VIEW 2



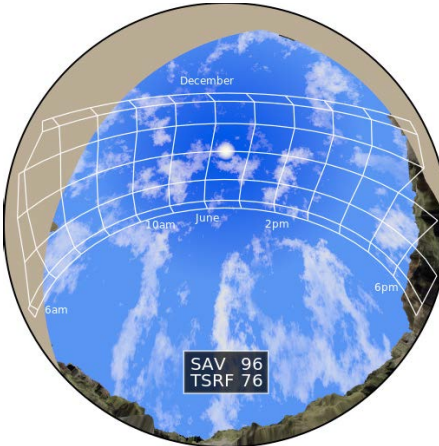
FACET H, VIEW 3



FACET H, VIEW 4



FACET H, VIEW 5

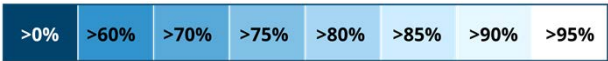
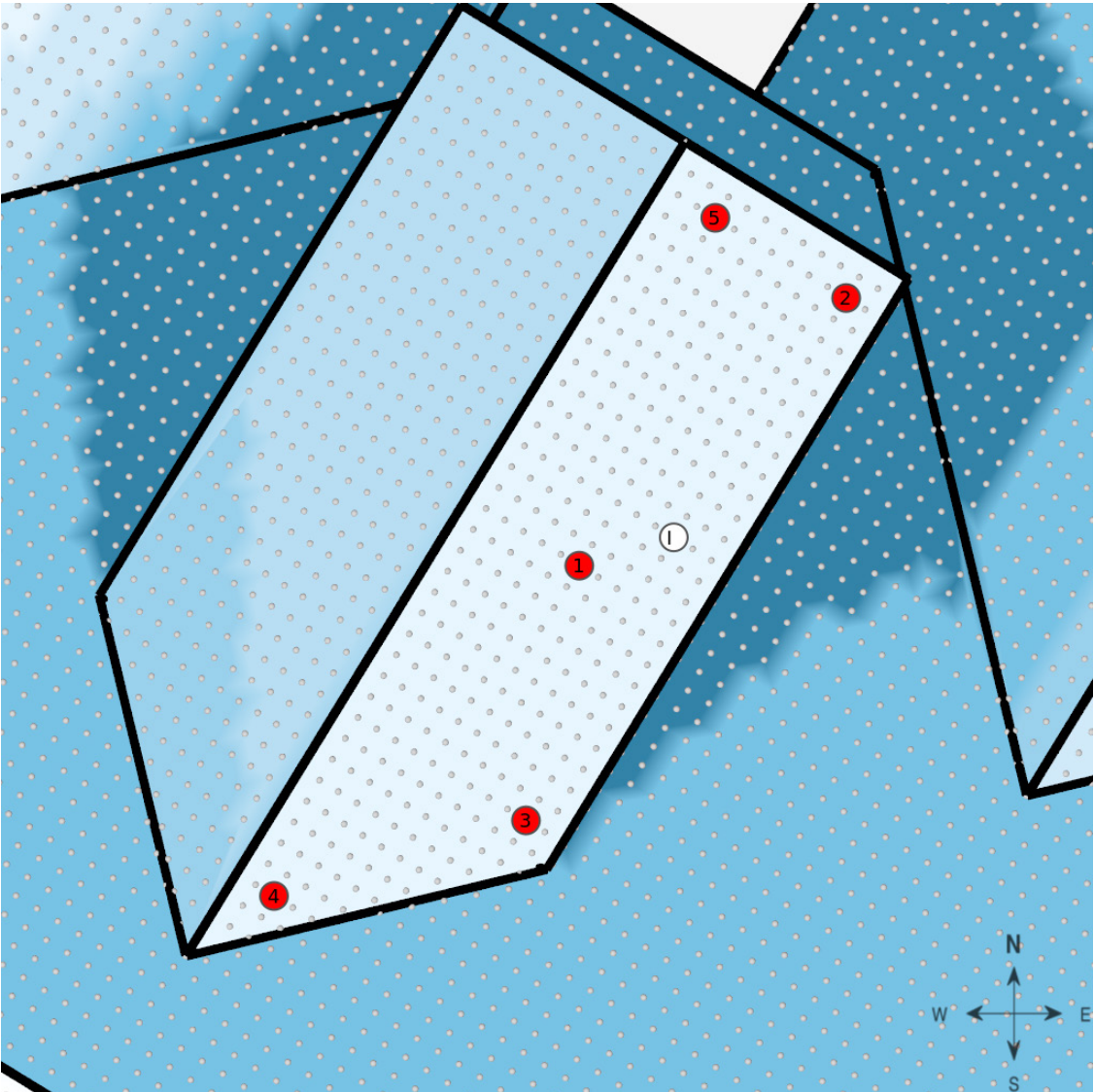


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET I DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	97	85	82
February	98	88	86
March	98	89	87
April	97	94	91
May	95	96	91
June	96	98	94

Month	SAV %	TOF %	TSRF %
July	94	98	93
August	94	97	91
September	98	91	89
October	98	86	84
November	97	84	82
December	96	83	80

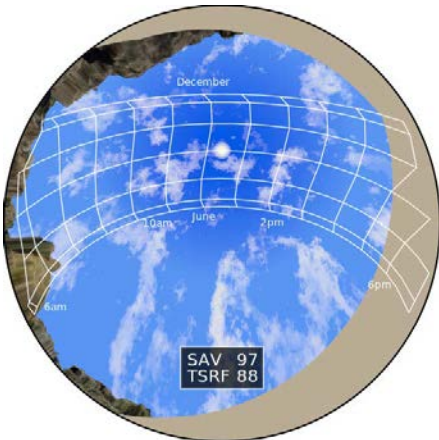
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



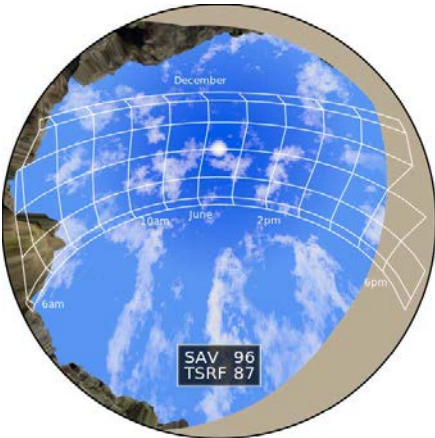
Facet I - skyline views

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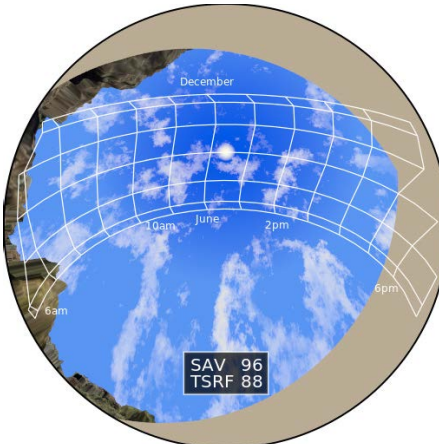
FACET I, VIEW 1



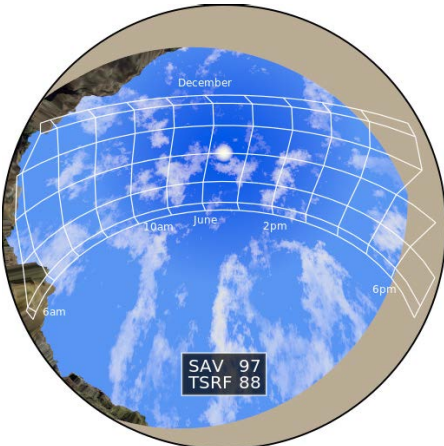
FACET I, VIEW 2



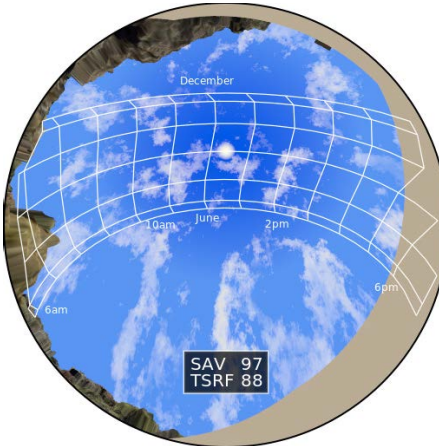
FACET I, VIEW 3



FACET I, VIEW 4



FACET I, VIEW 5

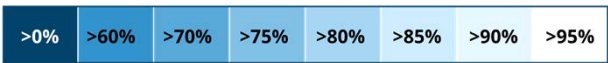
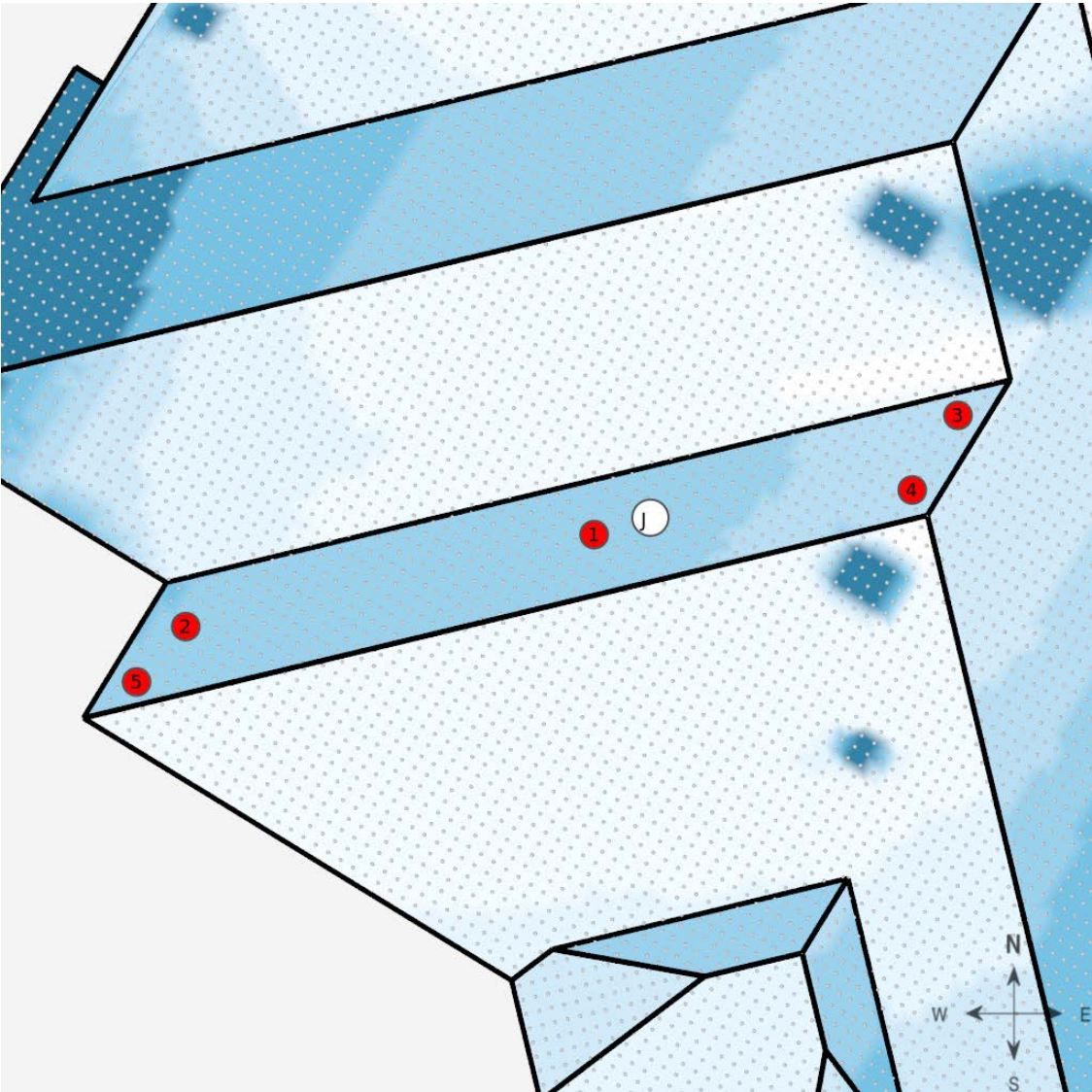


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET J DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	92	53	49
February	94	64	60
March	97	74	72
April	95	85	81
May	92	98	90
June	91	100	91

Month	SAV %	TOF %	TSRF %
July	91	99	90
August	94	88	83
September	96	78	75
October	95	66	63
November	93	57	53
December	91	52	47

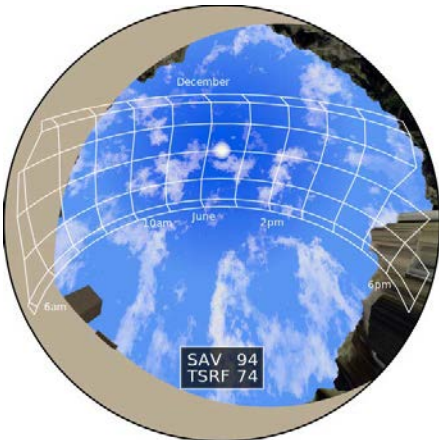
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



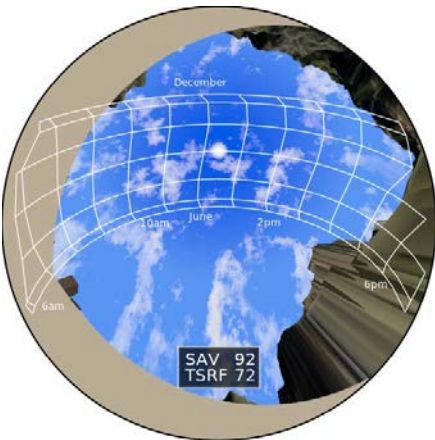
Facet J - skyline views

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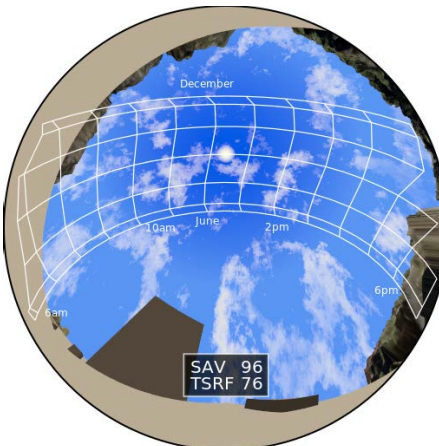
FACET J, VIEW 1



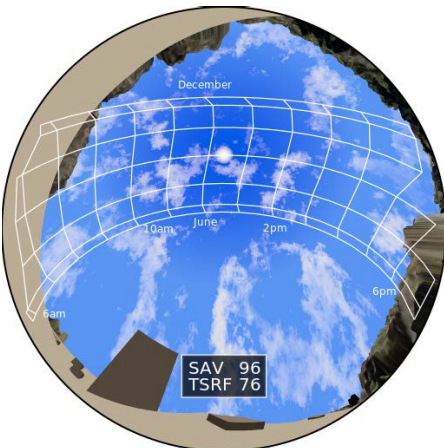
FACET J, VIEW 2



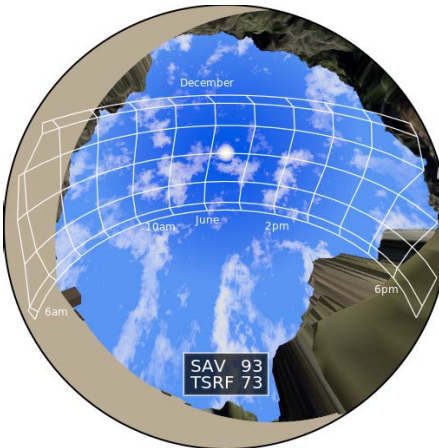
FACET J, VIEW 3



FACET J, VIEW 4



FACET J, VIEW 5

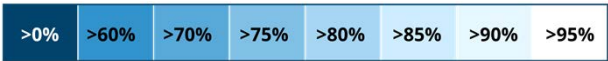
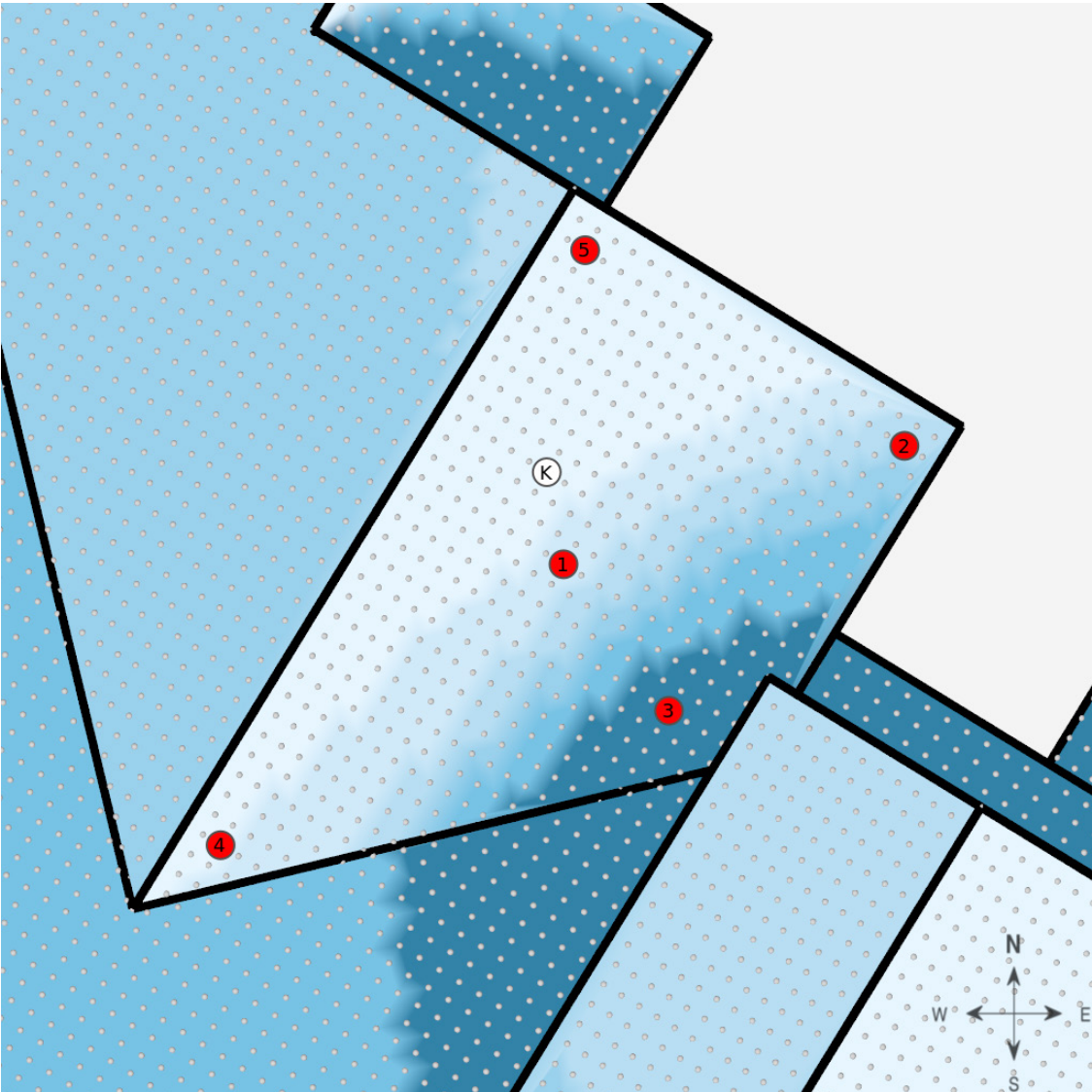


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET K DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	65	85	55
February	76	88	67
March	83	89	74
April	89	94	84
May	95	96	91
June	96	98	94

Month	SAV %	TOF %	TSRF %
July	95	98	93
August	92	97	89
September	85	91	77
October	79	86	68
November	69	84	58
December	62	83	51

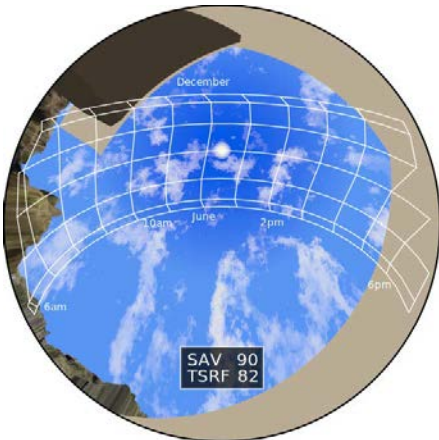
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



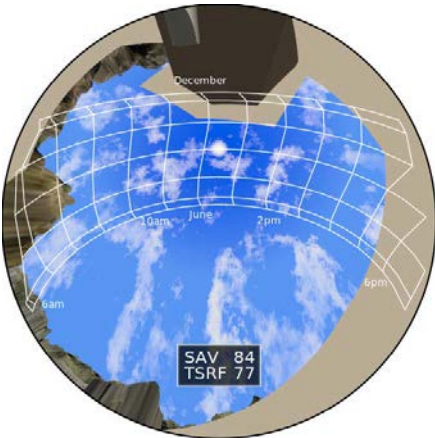
Facet K - skyline views

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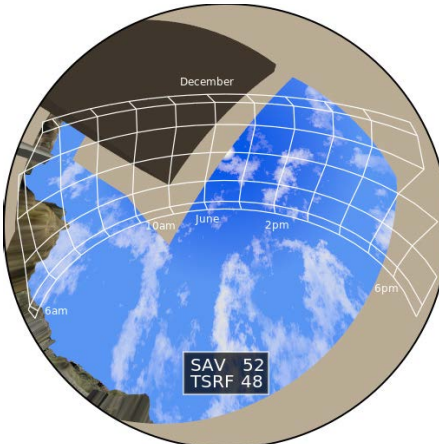
FACET K, VIEW 1



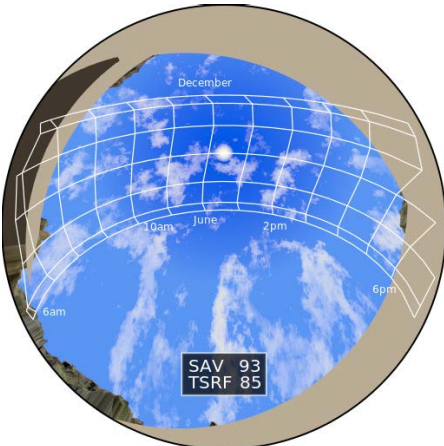
FACET K, VIEW 2



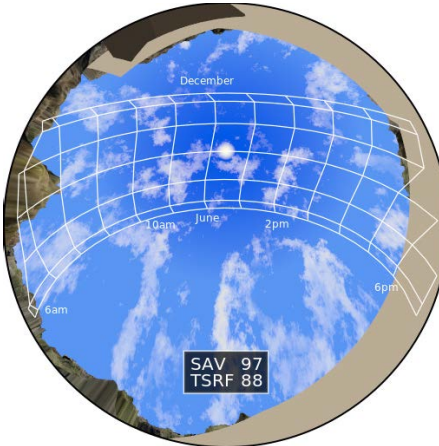
FACET K, VIEW 3



FACET K, VIEW 4



FACET K, VIEW 5

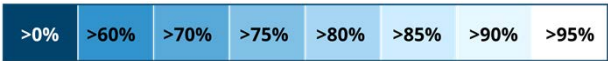
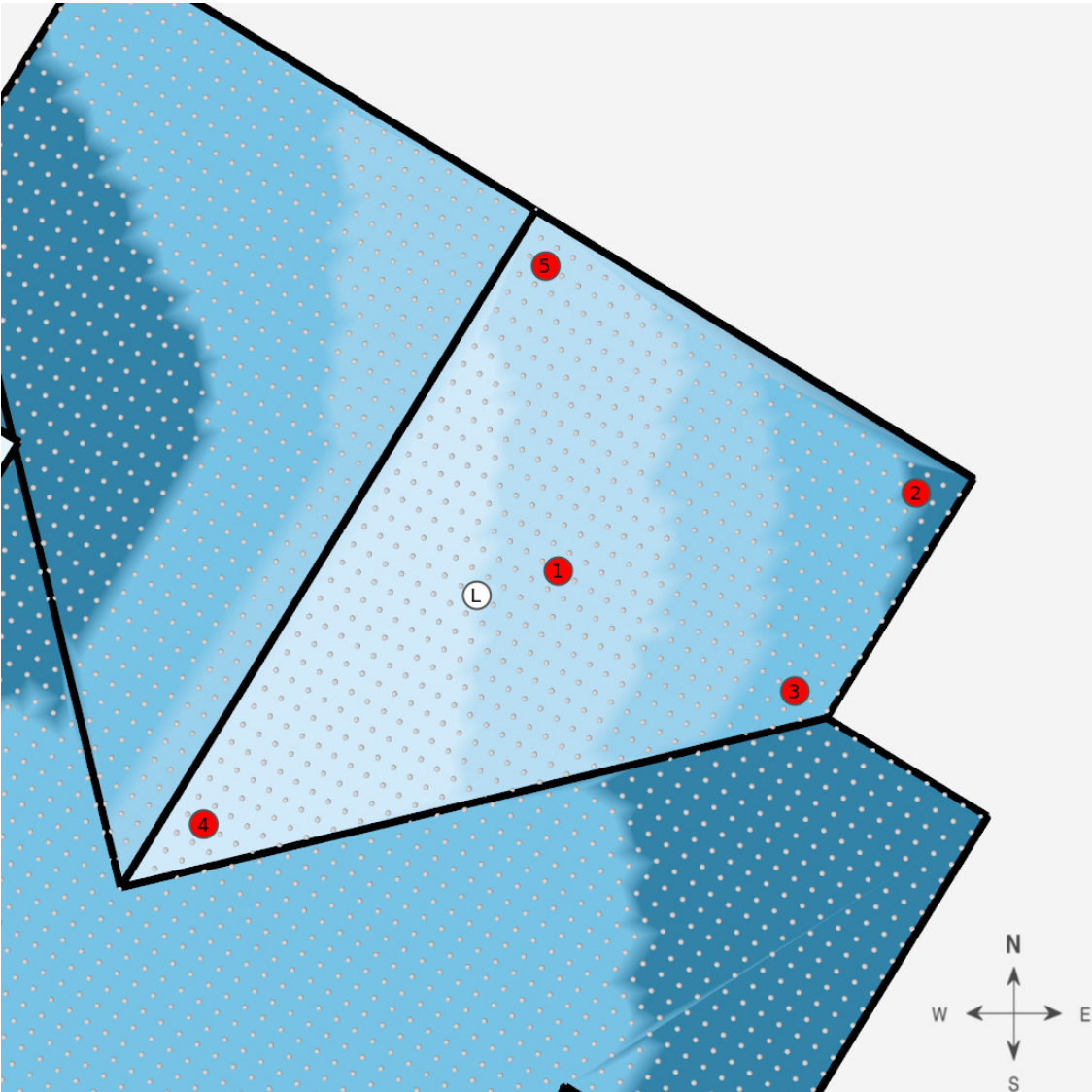


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET L DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	73	85	62
February	81	88	71
March	87	89	78
April	89	94	84
May	85	96	82
June	82	98	81

Month	SAV %	TOF %	TSRF %
July	82	98	81
August	86	97	83
September	89	91	81
October	83	86	71
November	76	84	64
December	72	83	59

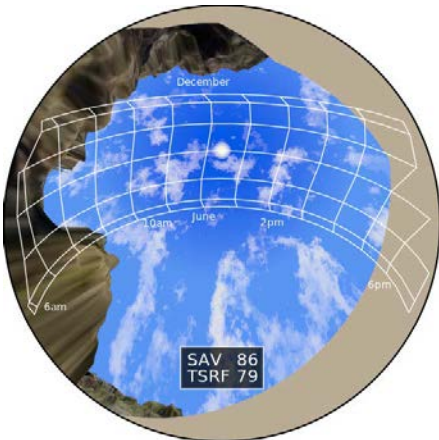
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



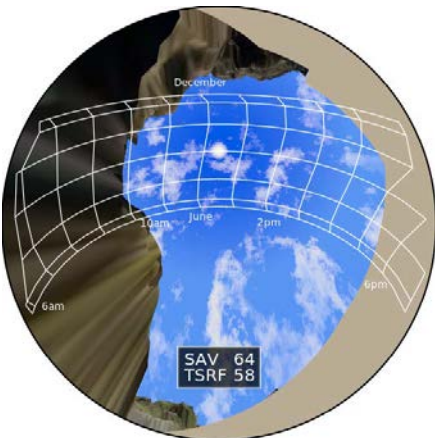
Facet L - skyline views

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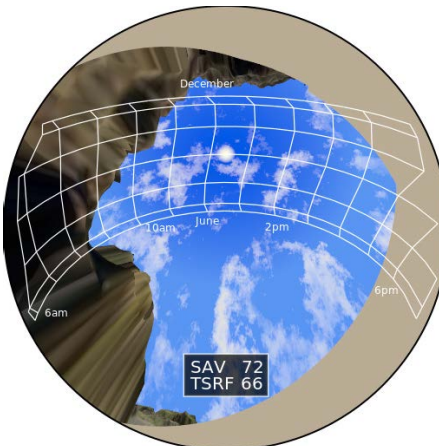
FACET L, VIEW 1



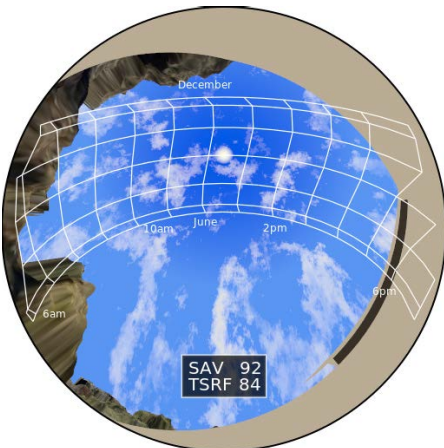
FACET L, VIEW 2



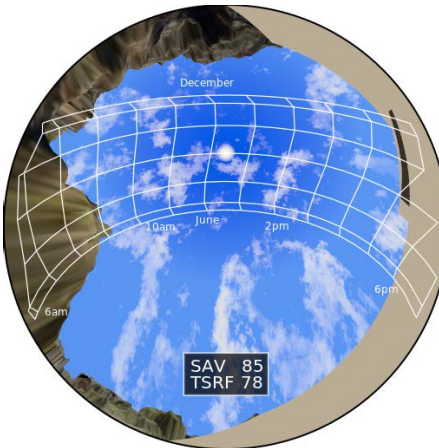
FACET L, VIEW 3



FACET L, VIEW 4



FACET L, VIEW 5

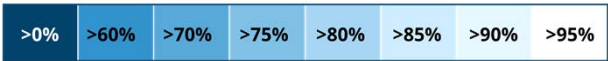
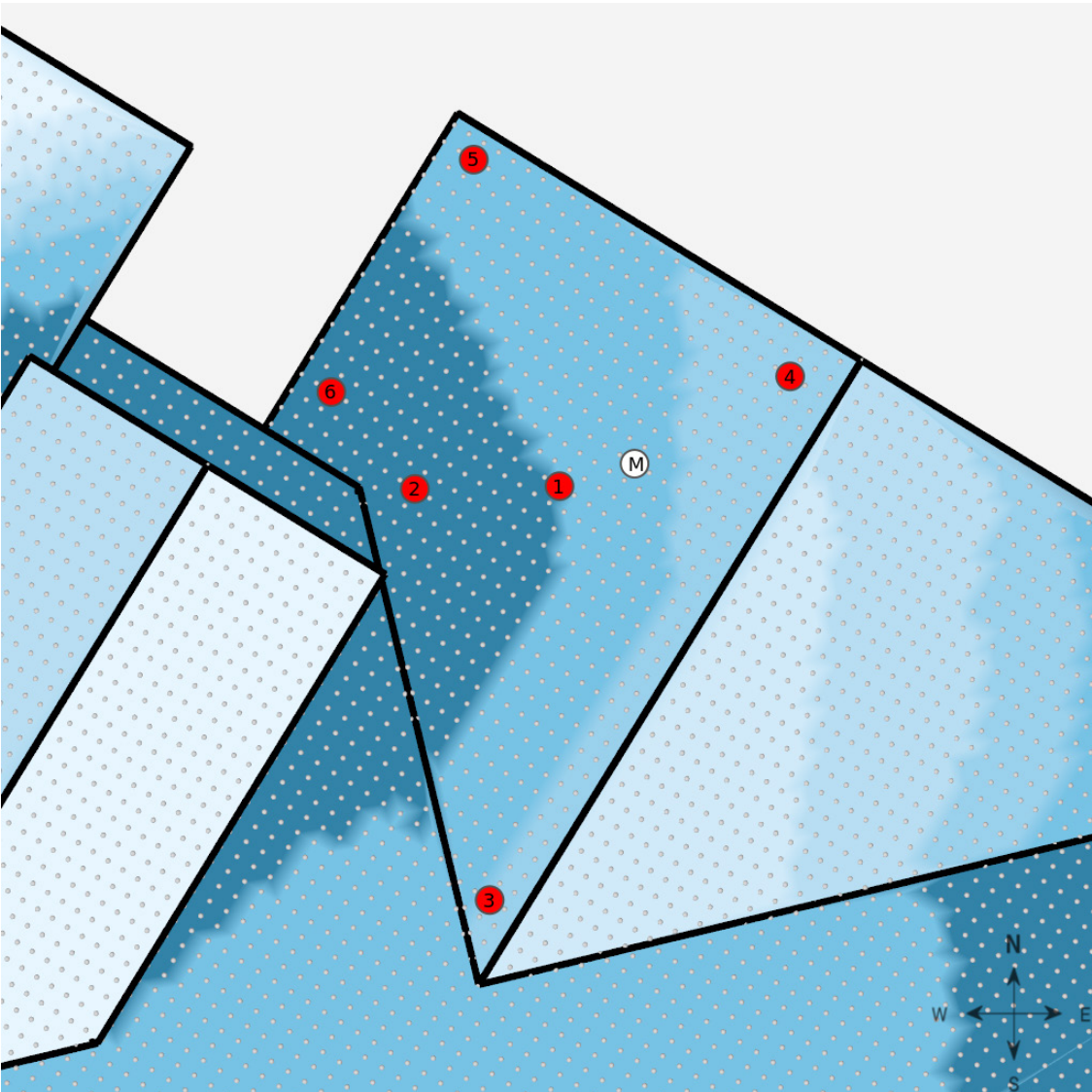


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET M DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	70	53	37
February	69	64	44
March	71	74	53
April	77	85	66
May	80	98	78
June	82	100	82

Month	SAV %	TOF %	TSRF %
July	81	99	80
August	78	88	69
September	73	78	57
October	68	66	45
November	68	57	39
December	68	52	36

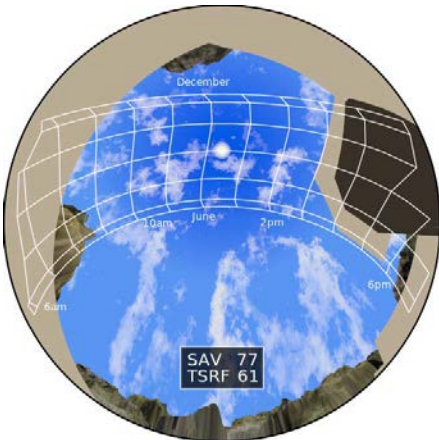
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



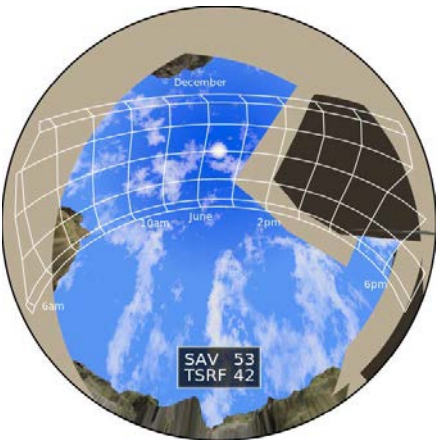
Facet M - skyline views

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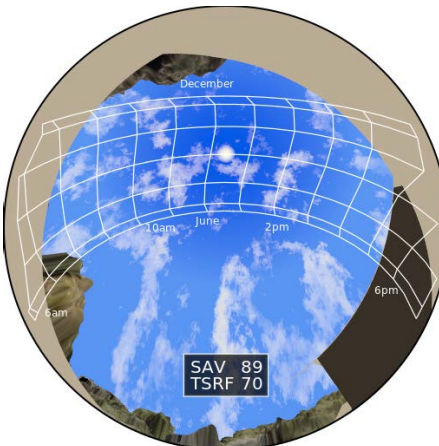
FACET M, VIEW 1



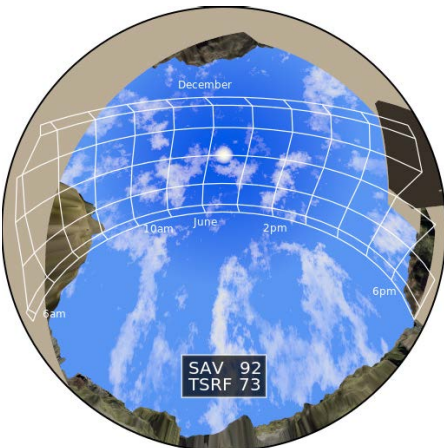
FACET M, VIEW 2



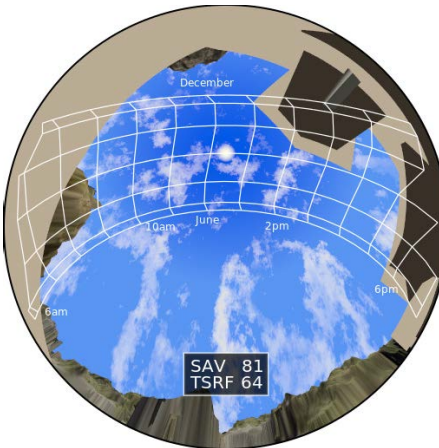
FACET M, VIEW 3



FACET M, VIEW 4



FACET M, VIEW 5



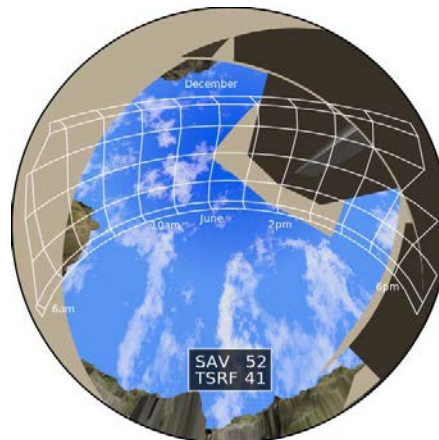
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Facet M - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

FACET M, VIEW 6



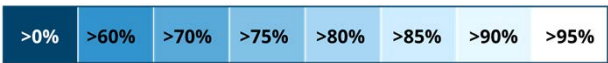
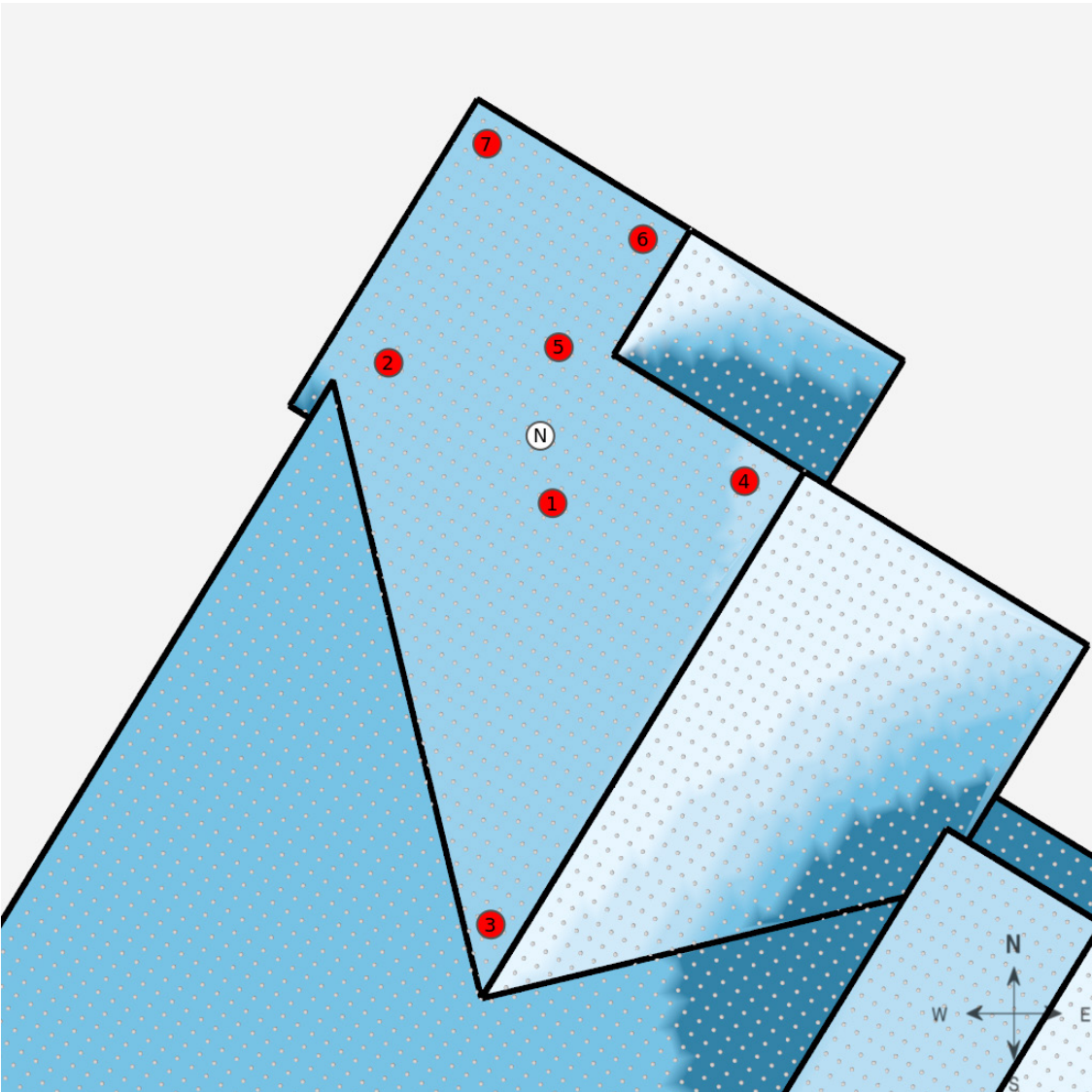
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Other Patents Pending.

Roof Facets

FACET N DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	86	53	46
February	89	64	57
March	92	74	69
April	95	85	81
May	95	98	93
June	96	100	96

Month	SAV %	TOF %	TSRF %
July	95	99	94
August	95	88	84
September	93	78	72
October	90	66	59
November	86	57	49
December	83	52	43

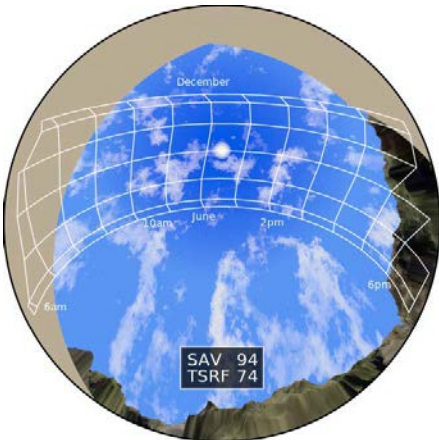
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Report: 43108022



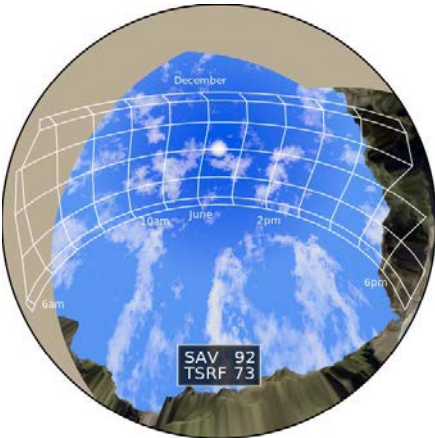
Facet N - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

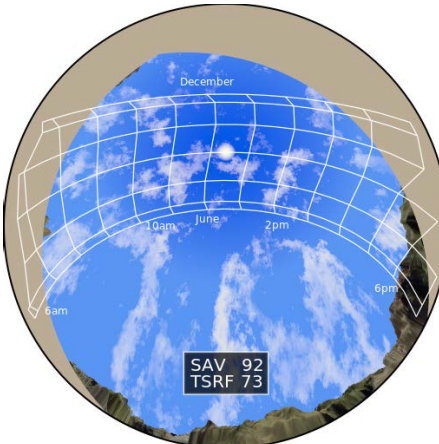
FACET N, VIEW 1



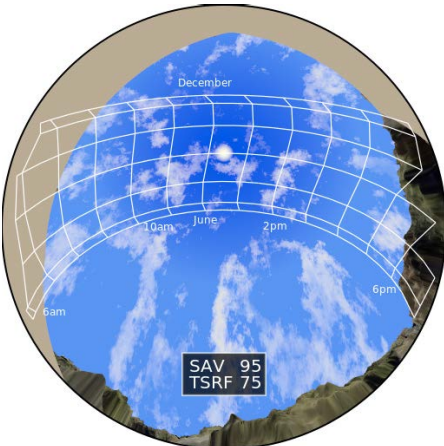
FACET N, VIEW 2



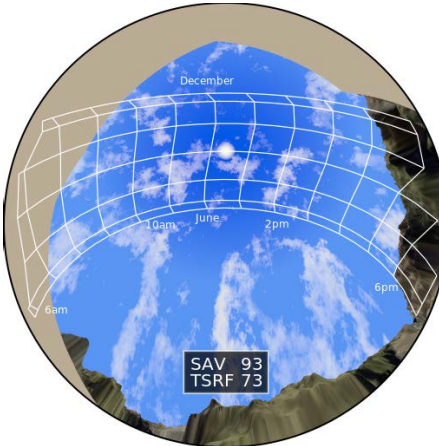
FACET N, VIEW 3



FACET N, VIEW 4



FACET N, VIEW 5



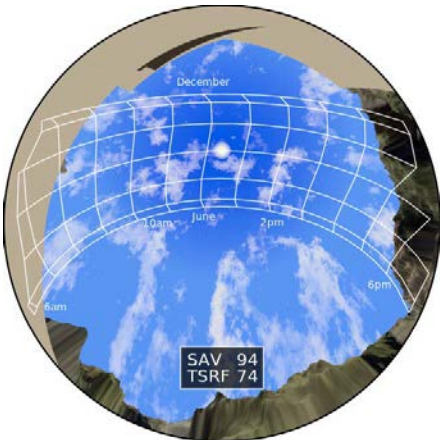
October 28, 2021
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123 Main Street, City, State 00000
Report: 43108022



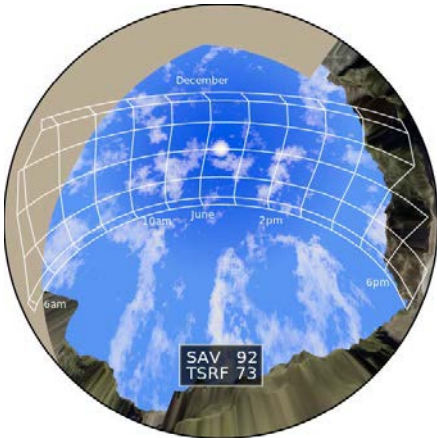
Facet N - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

FACET N, VIEW 6

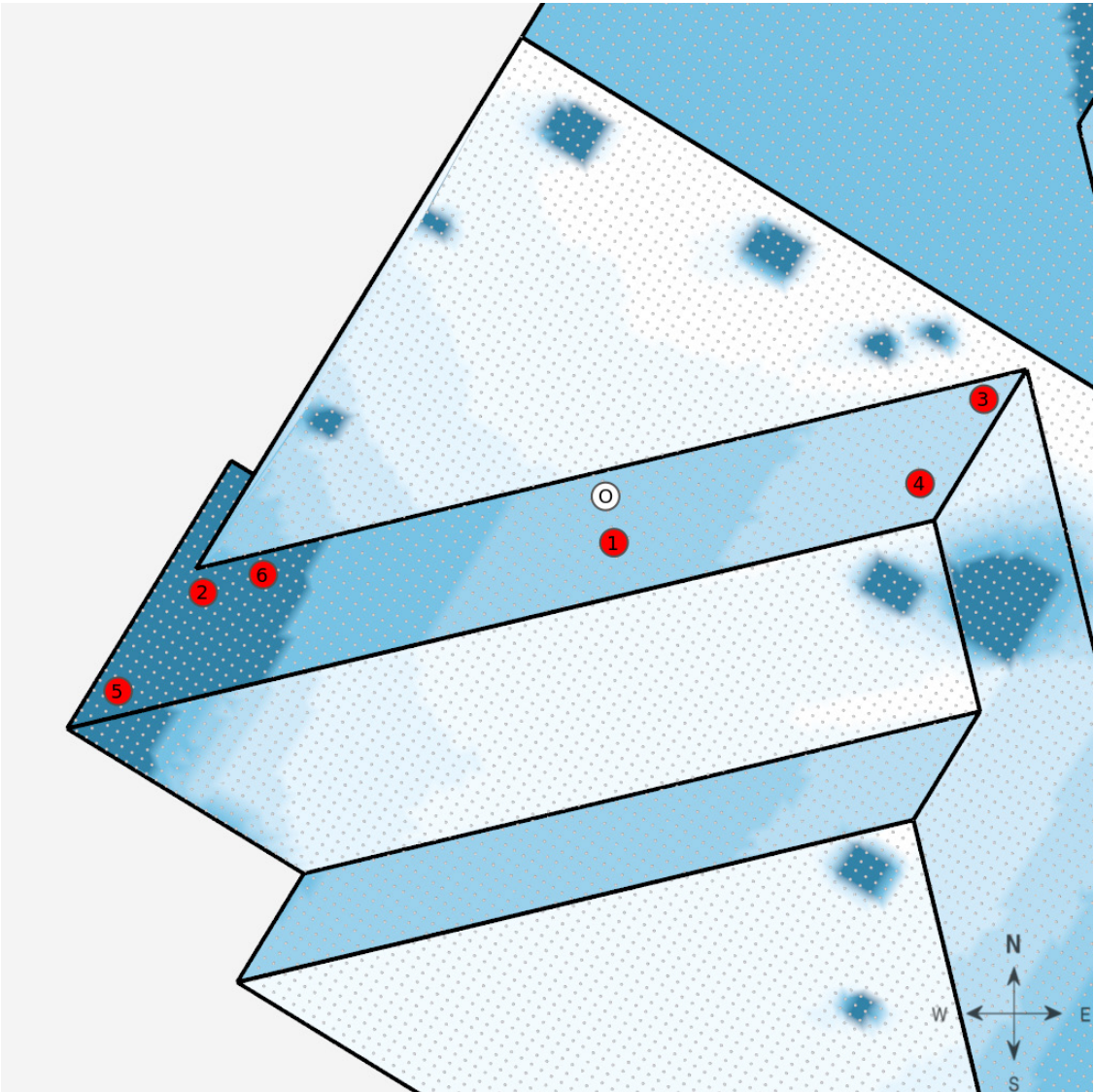


FACET N, VIEW 7



Roof Facets

FACET O DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	81	53	43
February	82	64	52
March	80	74	60
April	83	85	71
May	83	98	81
June	83	100	83

Month	SAV %	TOF %	TSRF %
July	83	99	82
August	82	88	73
September	80	78	62
October	81	66	53
November	81	57	46
December	81	52	42

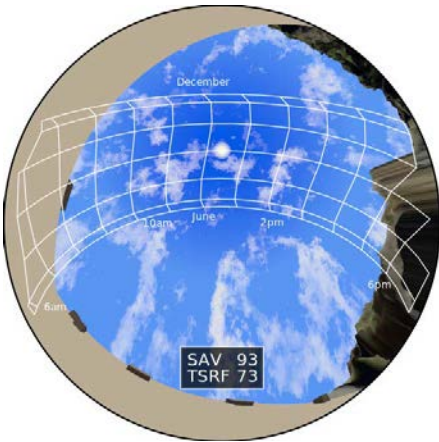
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



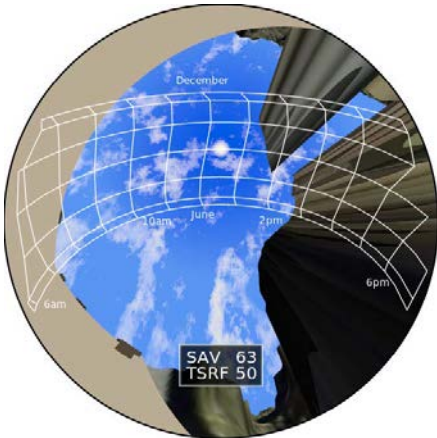
Facet O - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

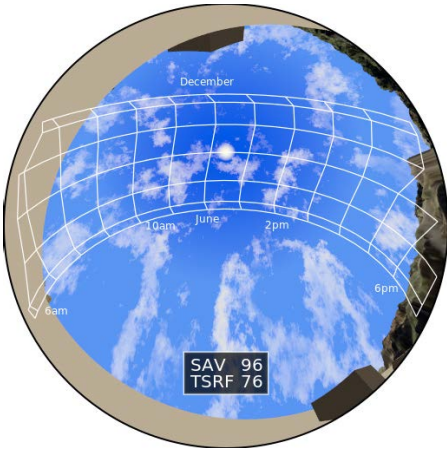
FACET O, VIEW 1



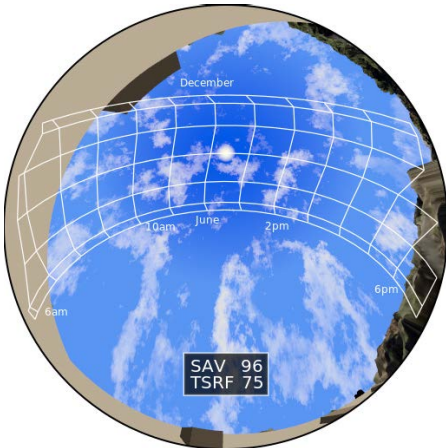
FACET O, VIEW 2



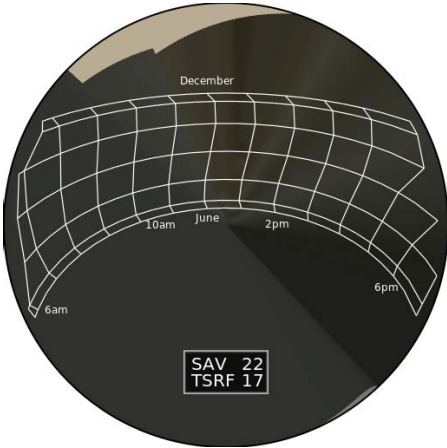
FACET O, VIEW 3



FACET O, VIEW 4



FACET O, VIEW 5



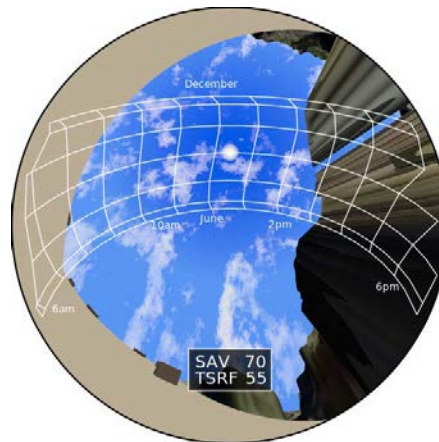
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Property Address:
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Report: 43108022



Facet O - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

FACET O, VIEW 6



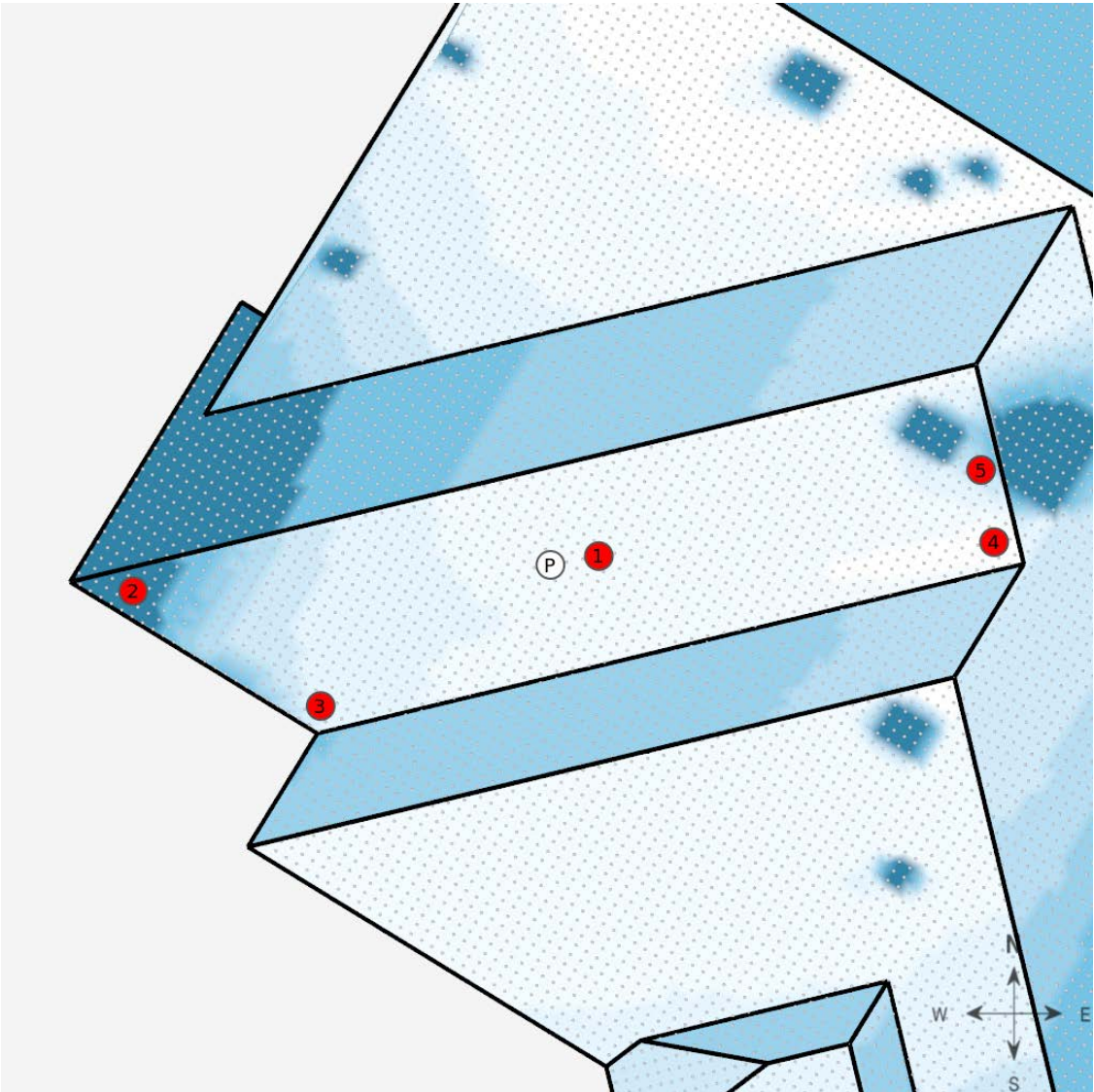
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Other Patents Pending.

Roof Facets

FACET P DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	88	95	83
February	90	97	87
March	90	98	89
April	89	98	87
May	86	100	86
June	86	100	86

Month	SAV %	TOF %	TSRF %
July	86	100	85
August	87	98	86
September	90	98	88
October	90	98	88
November	89	97	86
December	87	96	83

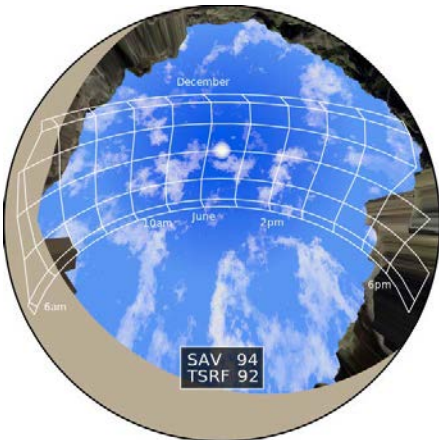
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



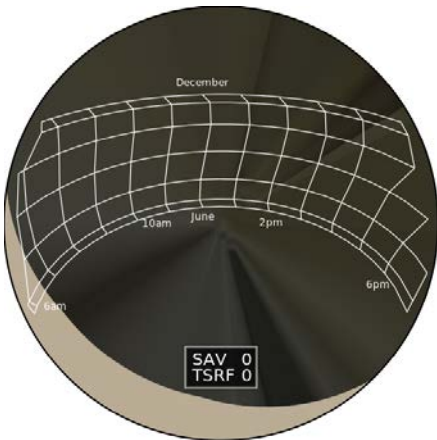
Facet P - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

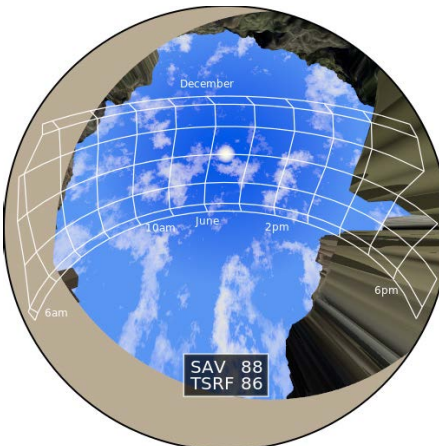
FACET P, VIEW 1



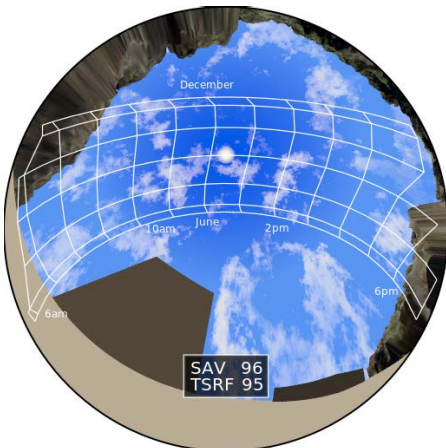
FACET P, VIEW 2



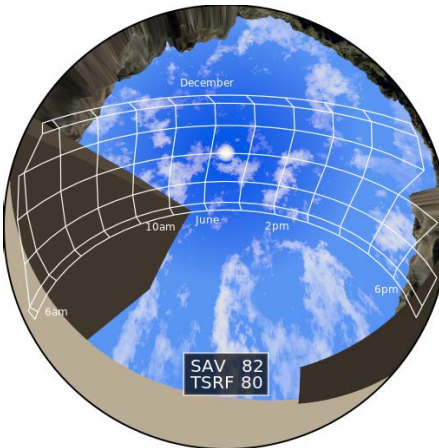
FACET P, VIEW 3



FACET P, VIEW 4



FACET P, VIEW 5

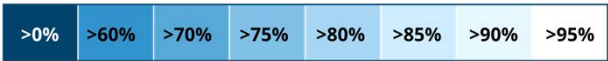
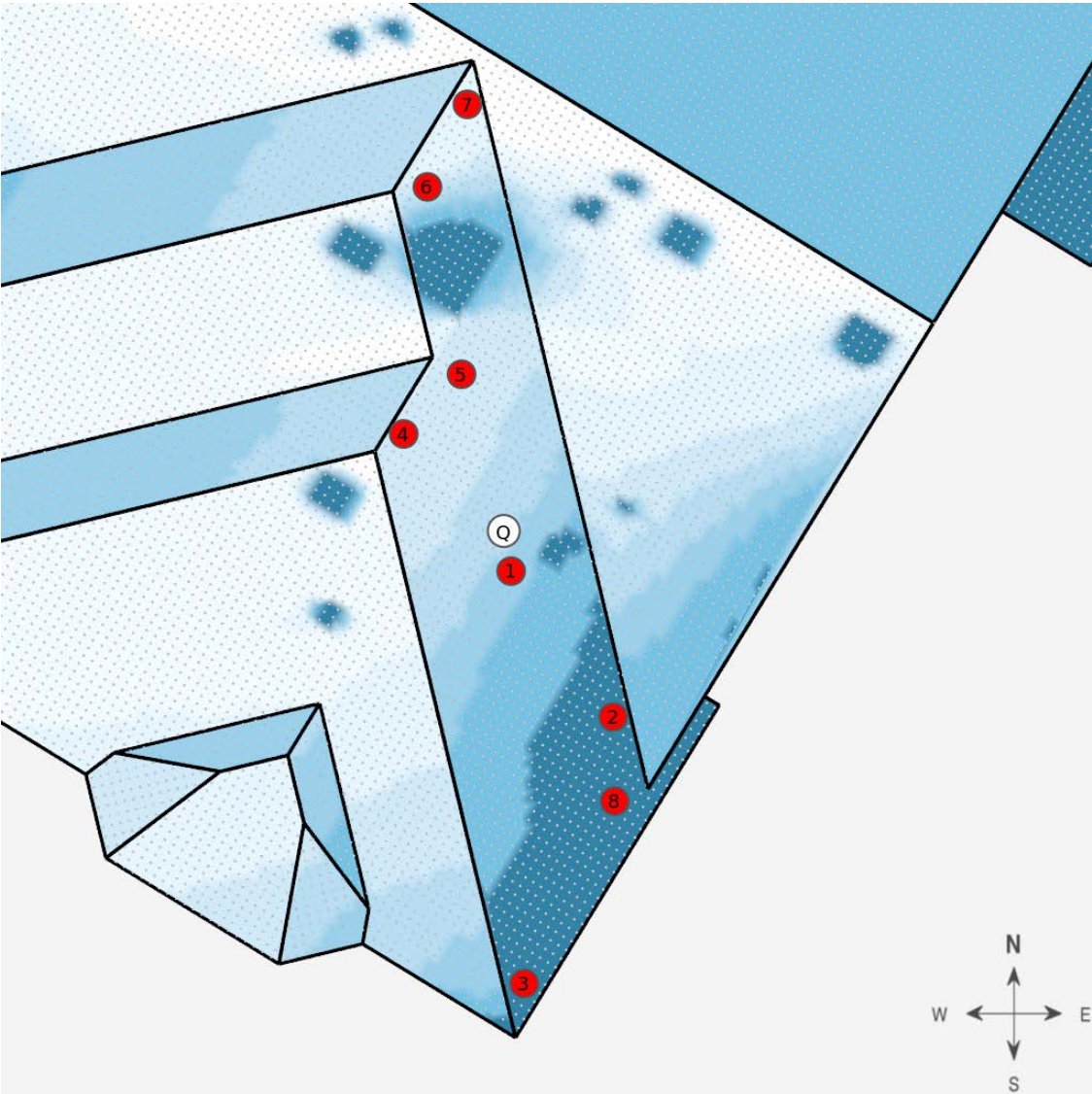


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Facets

FACET Q DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	56	85	47
February	65	88	57
March	71	89	64
April	76	94	71
May	79	96	76
June	79	98	77

Month	SAV %	TOF %	TSRF %
July	78	98	76
August	75	97	73
September	73	91	67
October	67	86	57
November	60	84	50
December	53	83	44

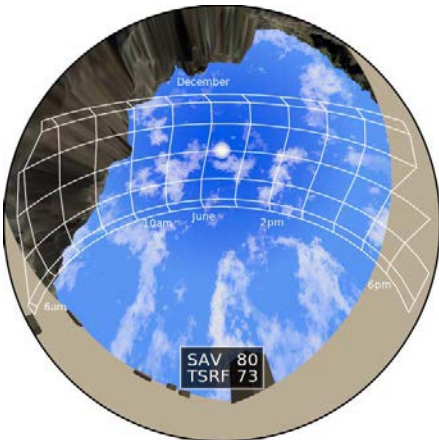
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



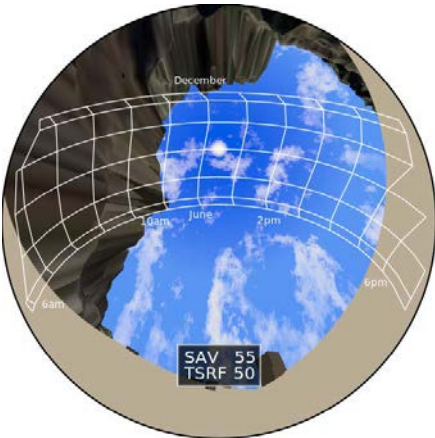
Facet Q - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

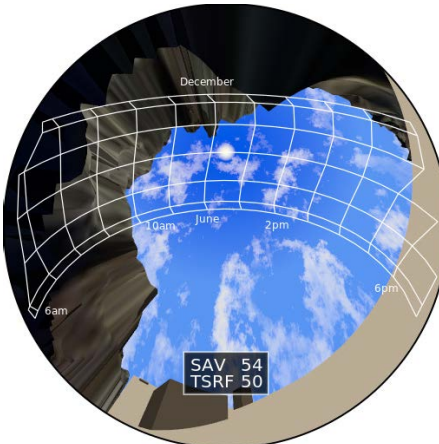
FACET Q, VIEW 1



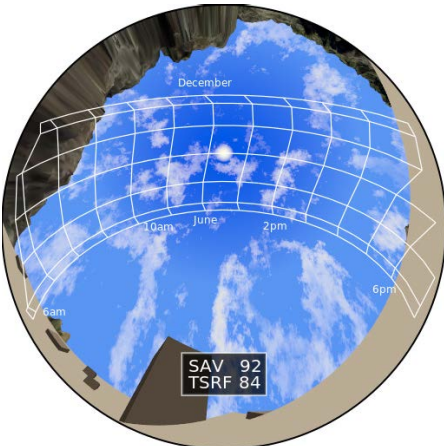
FACET Q, VIEW 2



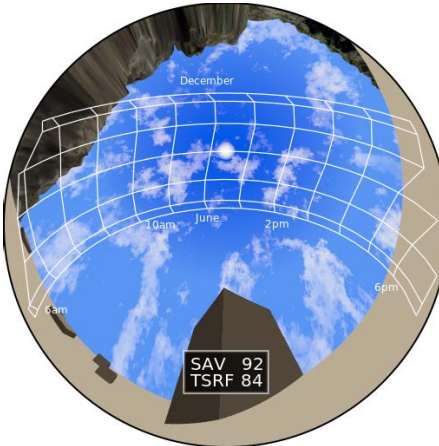
FACET Q, VIEW 3



FACET Q, VIEW 4



FACET Q, VIEW 5



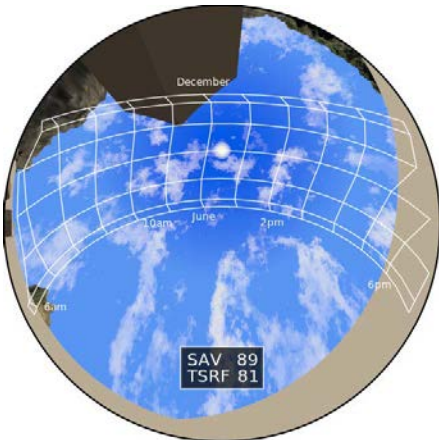
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Report: 43108022



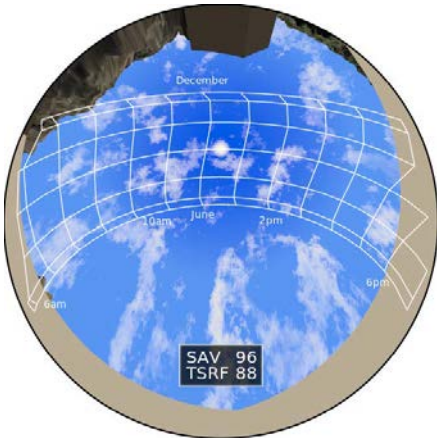
Facet Q - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

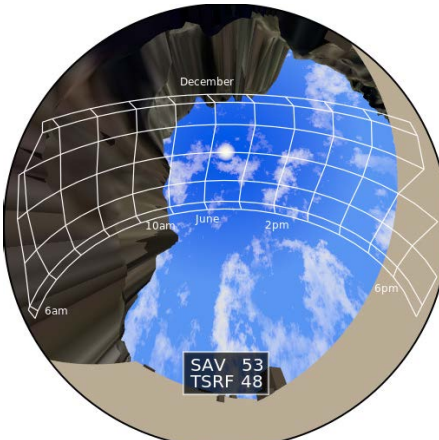
FACET Q, VIEW 6



FACET Q, VIEW 7

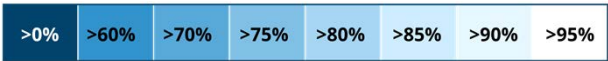
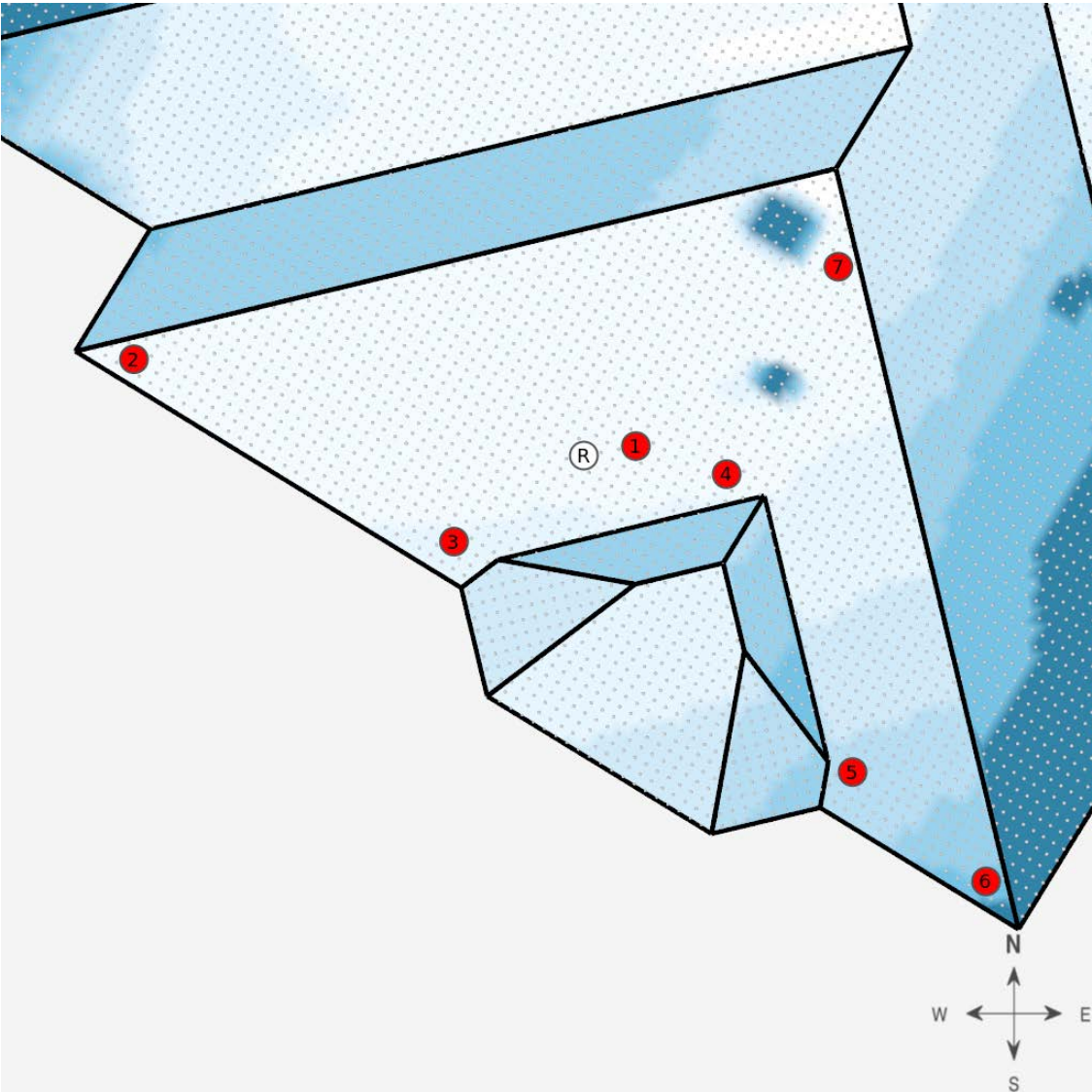


FACET Q, VIEW 8



Roof Facets

FACET R DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	79	95	75
February	86	97	84
March	92	98	90
April	93	98	91
May	92	100	92
June	92	100	92

Month	SAV %	TOF %	TSRF %
July	92	100	92
August	93	98	91
September	92	98	90
October	89	98	87
November	82	97	79
December	76	96	73

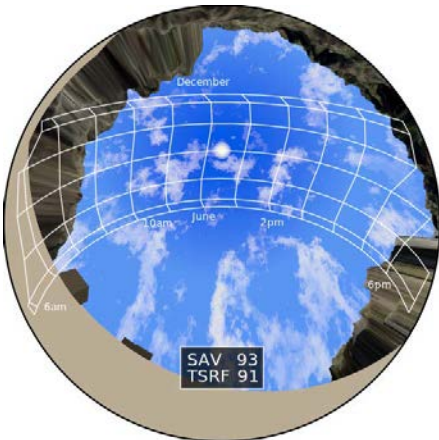
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Facet R - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

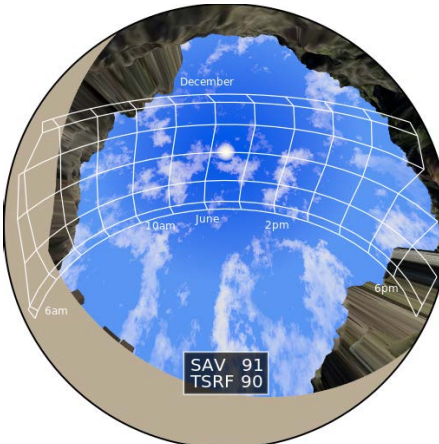
FACET R, VIEW 1



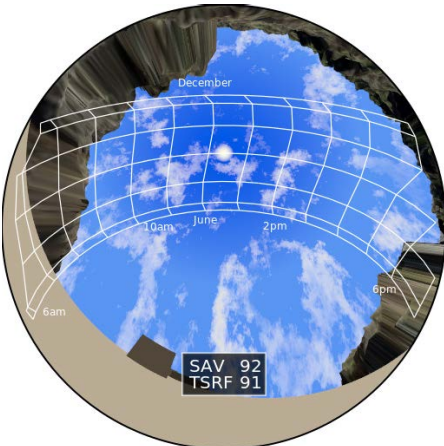
FACET R, VIEW 2



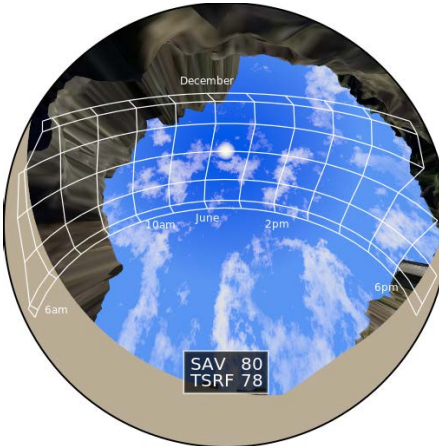
FACET R, VIEW 3



FACET R, VIEW 4



FACET R, VIEW 5



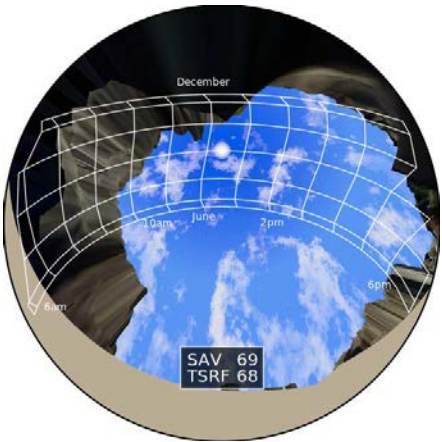
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



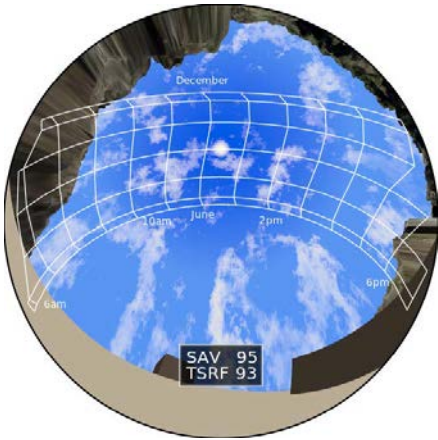
Facet R - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

FACET R, VIEW 6

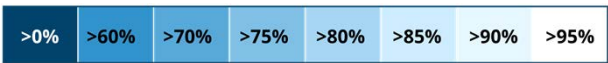
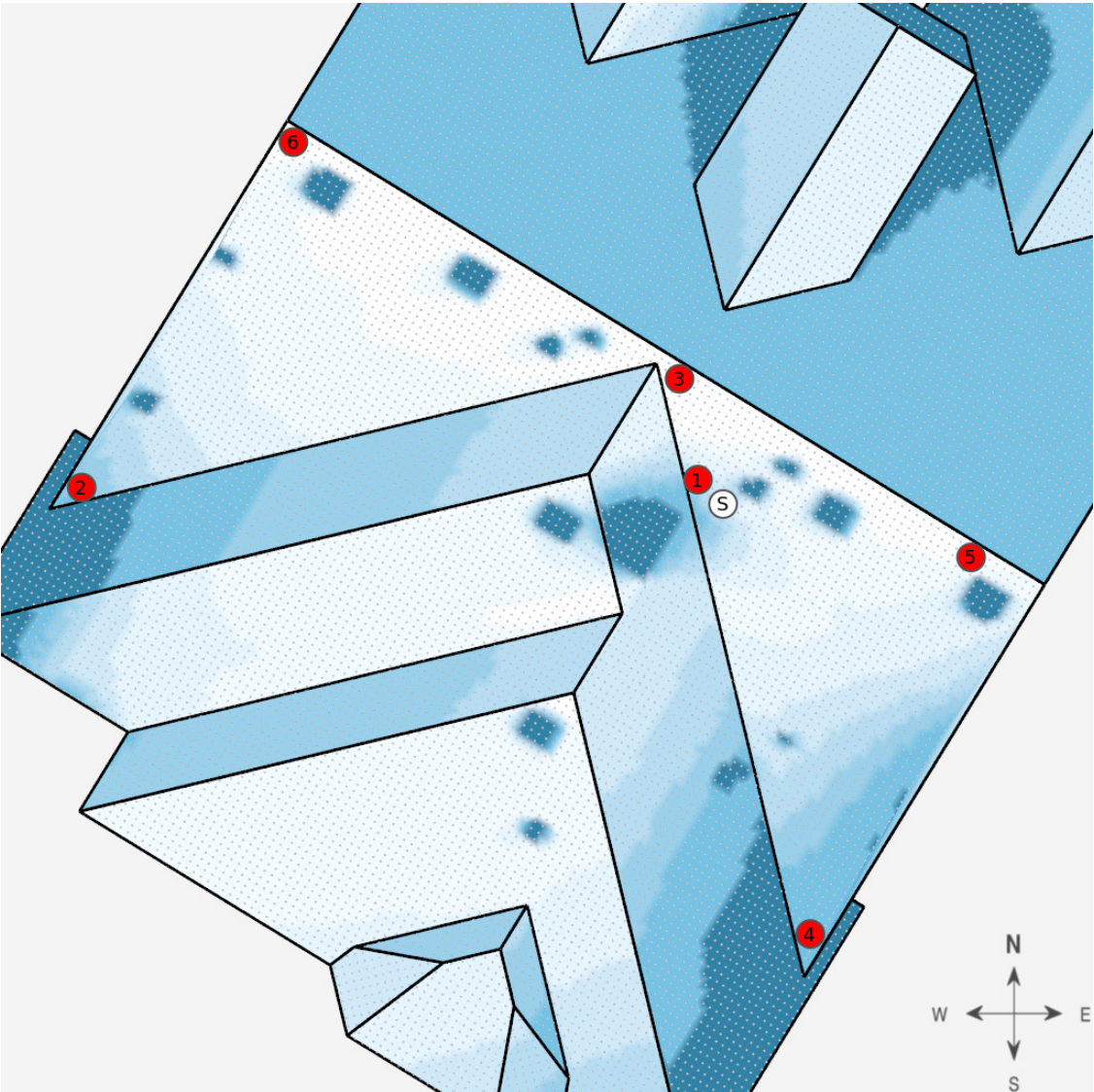


FACET R, VIEW 7



Roof Facets

FACET S DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	79	95	75
February	83	97	80
March	86	98	84
April	89	98	87
May	89	100	89
June	89	100	89

Month	SAV %	TOF %	TSRF %
July	89	100	89
August	89	98	87
September	87	98	85
October	84	98	82
November	81	97	78
December	79	96	75

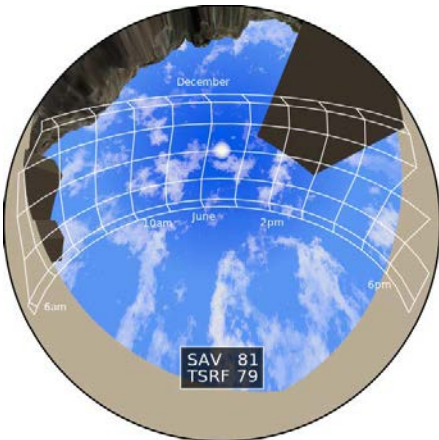
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



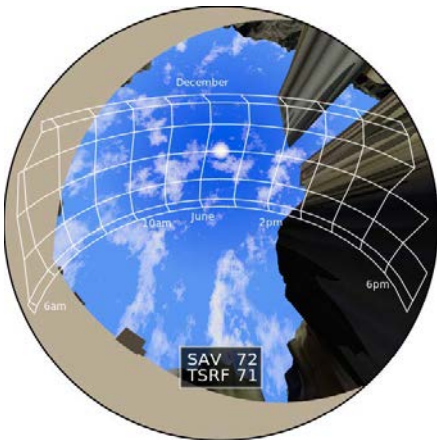
Facet S - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

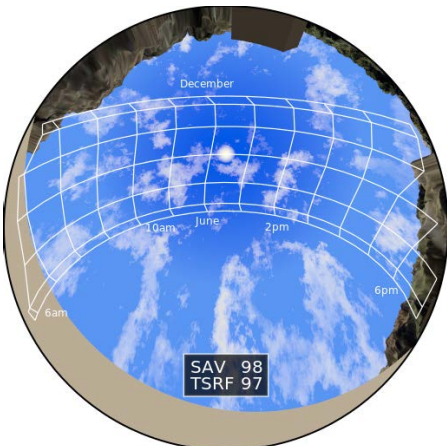
FACET S, VIEW 1



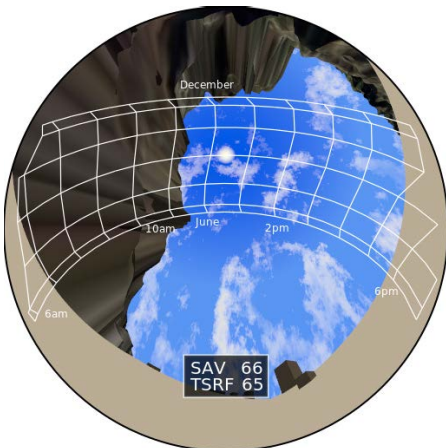
FACET S, VIEW 2



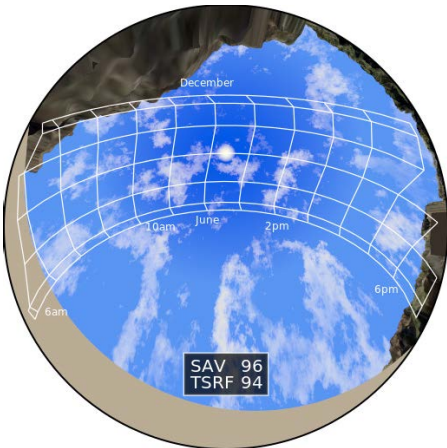
FACET S, VIEW 3



FACET S, VIEW 4



FACET S, VIEW 5



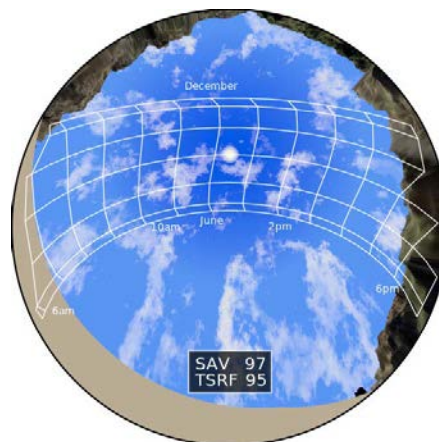
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Facet S - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

FACET S, VIEW 6



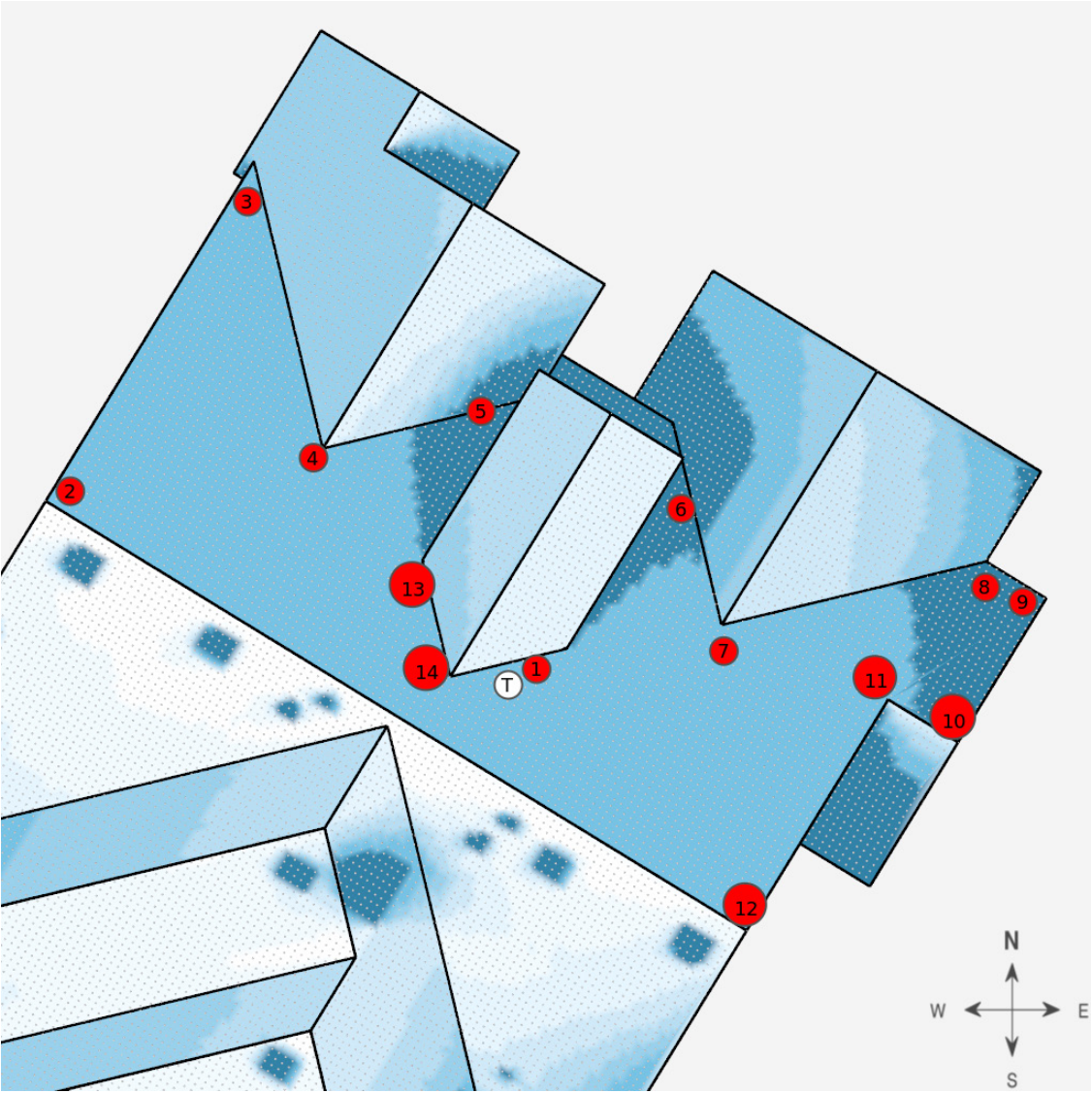
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Other Patents Pending.

Roof Facets

FACET T DETAIL



TSRF. Red indicators refer to skyline views shown on the following page(s).

Month	SAV %	TOF %	TSRF %
January	78	43	33
February	84	53	44
March	86	64	55
April	89	79	70
May	89	92	82
June	90	98	88

Month	SAV %	TOF %	TSRF %
July	89	96	85
August	88	85	75
September	87	70	61
October	85	52	44
November	80	44	35
December	73	39	29

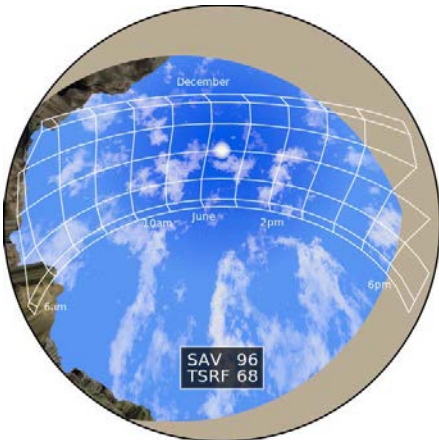
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



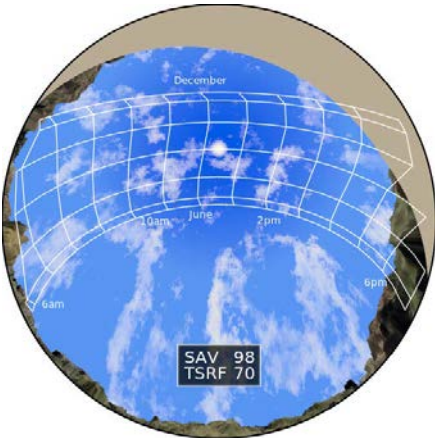
Facet T - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

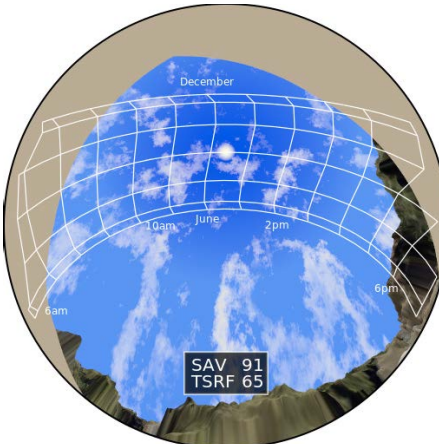
FACET T, VIEW 1



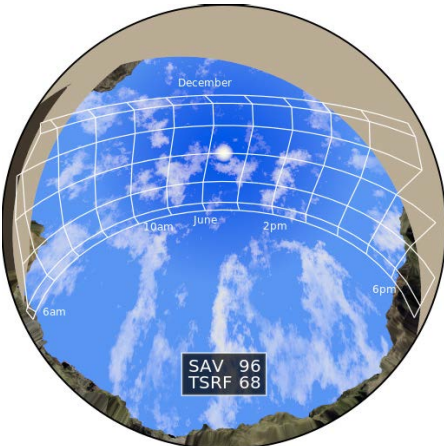
FACET T, VIEW 2



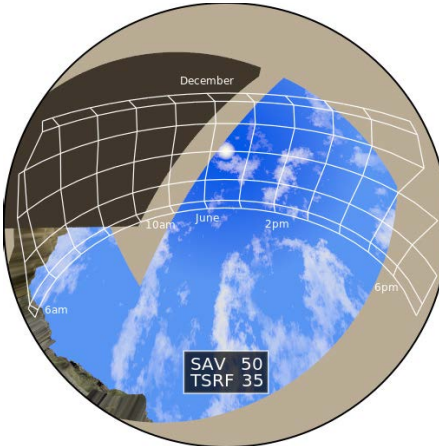
FACET T, VIEW 3



FACET T, VIEW 4



FACET T, VIEW 5



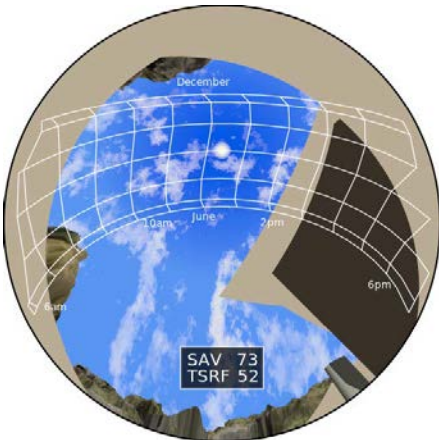
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



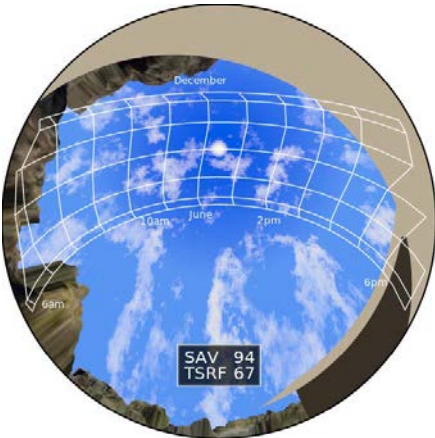
Facet T - skyline views

The images here correspond to the previous facet detail page. They show a view looking out towards the sky to allow you to see any shade causing obstructions that would appear from the roof surface. The label on the images match the locations on the roof facet, allowing you to see obstruction views from the corners, and center point, of each facet.

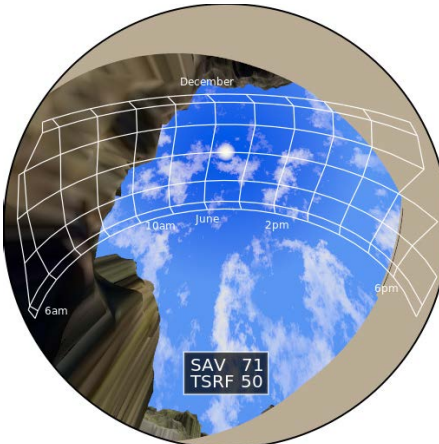
FACET T, VIEW 6



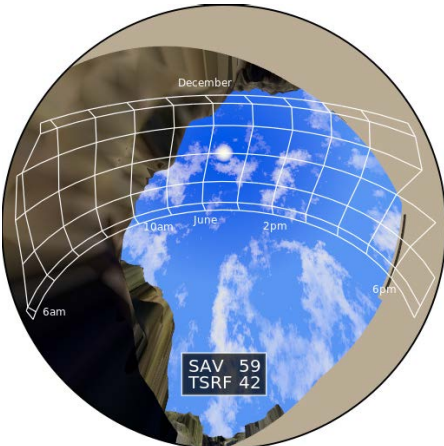
FACET T, VIEW 7



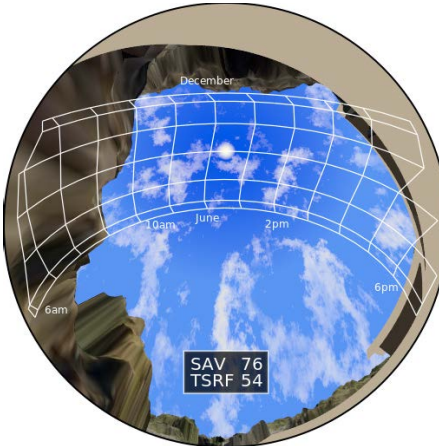
FACET T, VIEW 8



FACET T, VIEW 9



FACET T, VIEW 10



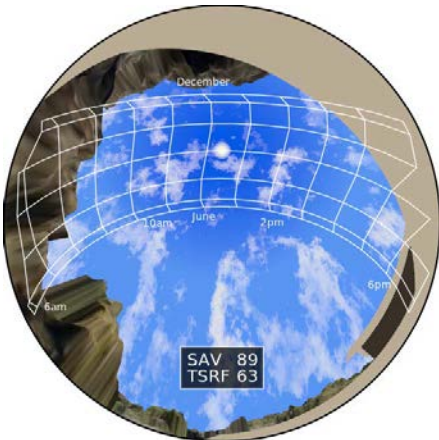
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



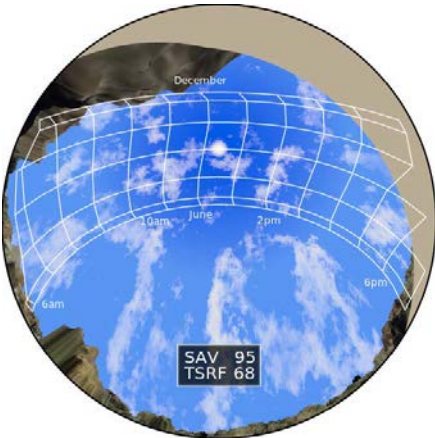
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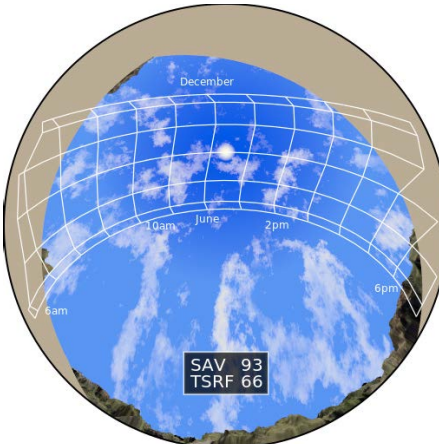
FACET T, VIEW 11



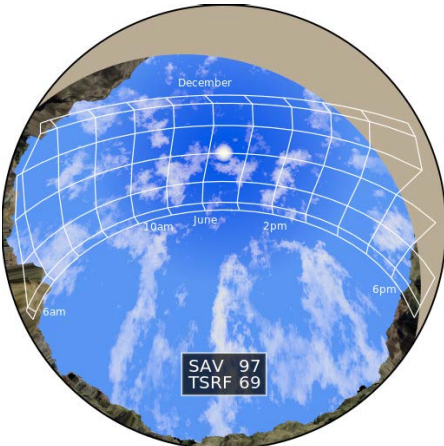
FACET T, VIEW 12



FACET T, VIEW 13



FACET T, VIEW 14



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Report: 43108022



Lengths

Ridges = 134 ft

Hips = 147 ft

Valleys = 218 ft

Rakes = 208 ft

Eaves = 23 ft

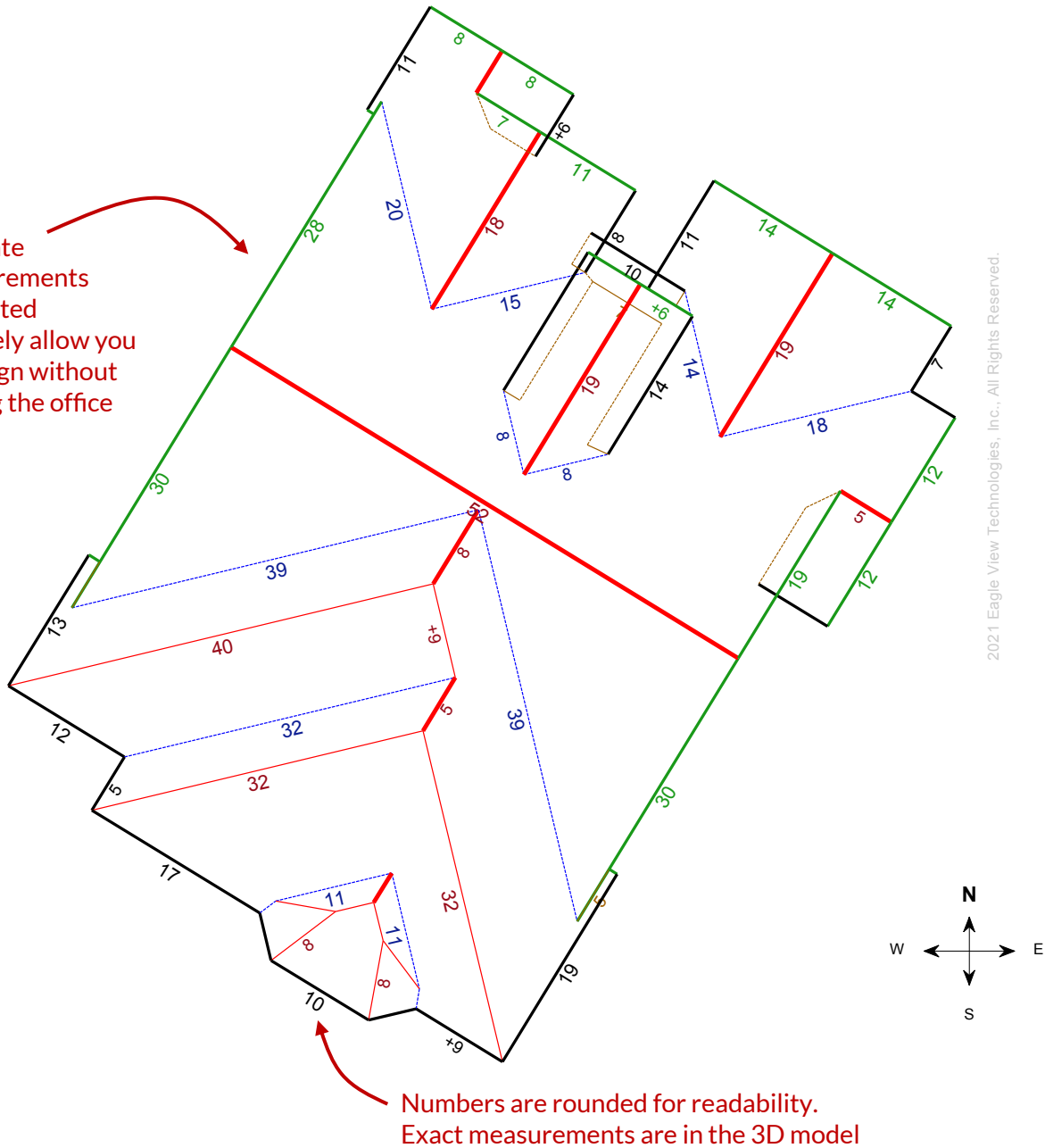
Flashing = 35 ft

Step flashing = 85 ft

Parapets = 0 ft

The length diagram shows all linear measurements, color coded for easy reference

Accurate measurements generated remotely allow you to design without leaving the office



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Report: 43108022



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Other Patents Pending.

Pitch (Degrees)

Pitches are labeled for facet areas larger than 20 square feet. In some cases, pitch labels have been removed for readability. Flat facets are labeled 'F'.



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Accurate roof pitch per facet in degrees

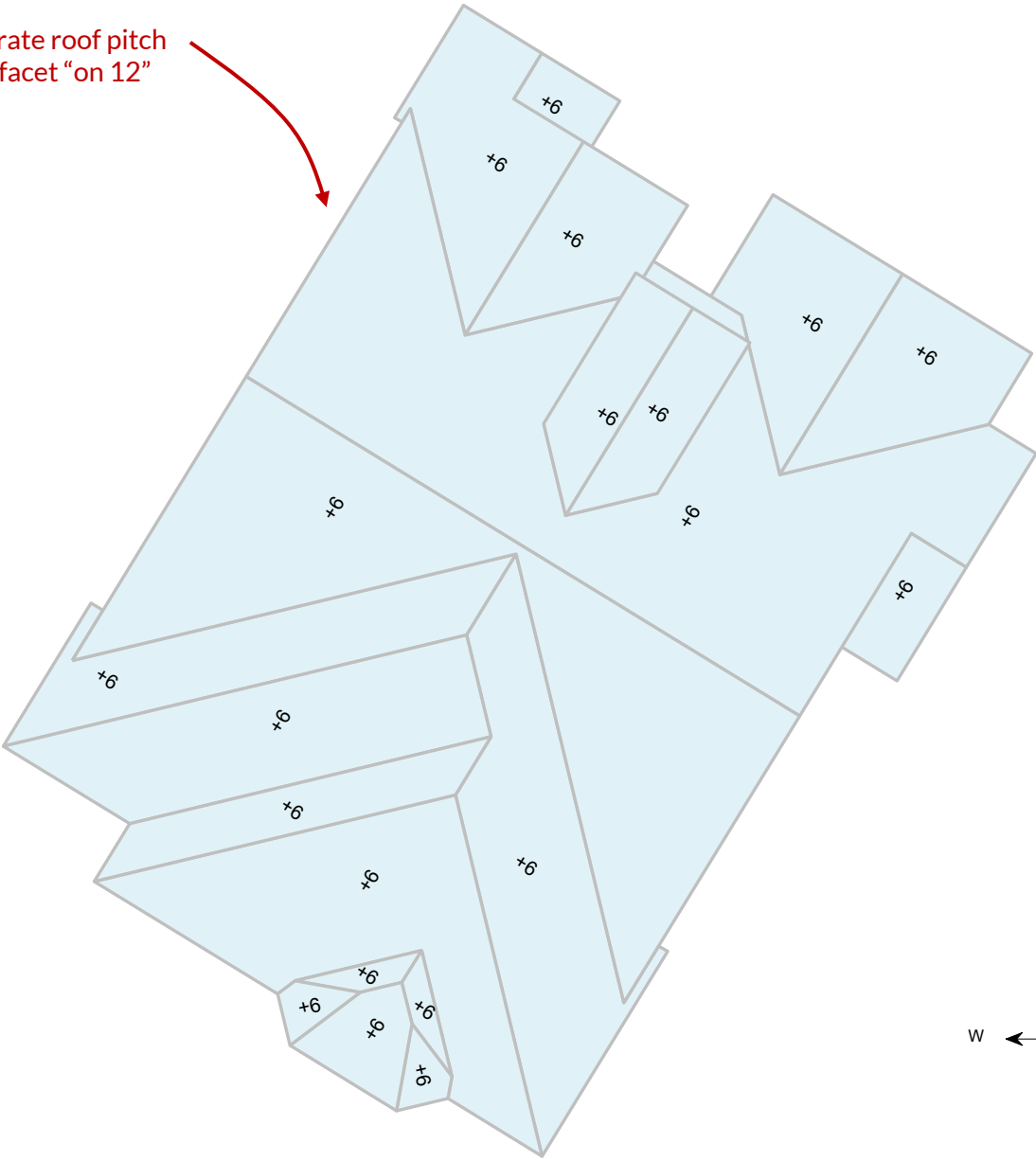
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Property Address:
123 Main Street, City, State 00000
Report: 43108022



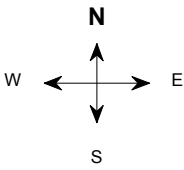
Pitch (on 12)

Pitches are labeled for facet areas larger than 20 square feet. In some cases, pitch labels have been removed for readability. Flat facets are labeled 'F'.

Accurate roof pitch
per facet "on 12"



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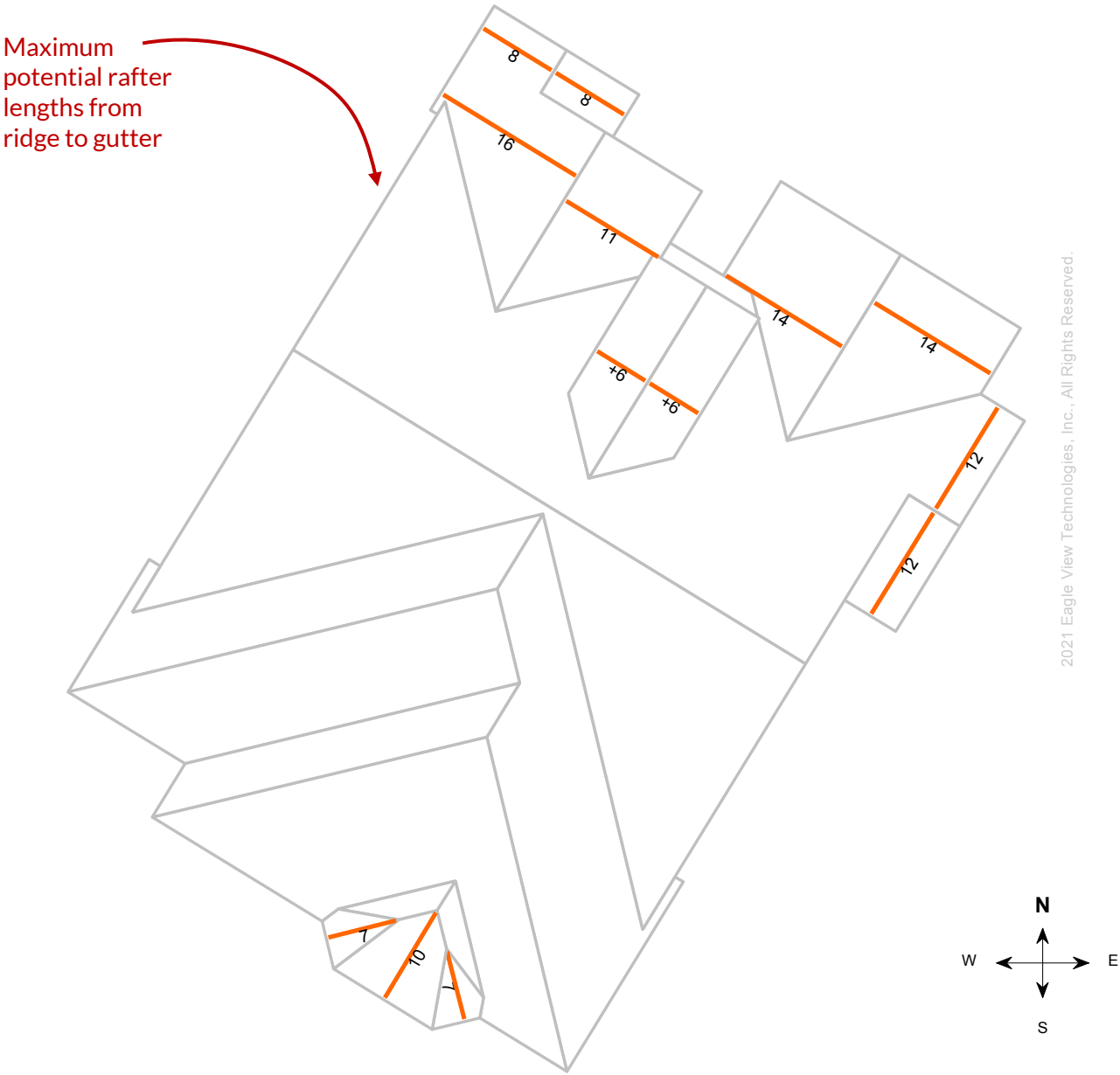


October 28, 2021
Property Address:
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Report: 43108022



Rafters

Rafter lengths (rounded to the nearest whole number) over 5 feet. In some cases, segment labels have been removed for readability. Some numbers are prefaced by “+” signs to avoid confusion when rotated (e.g. +6 and +9).



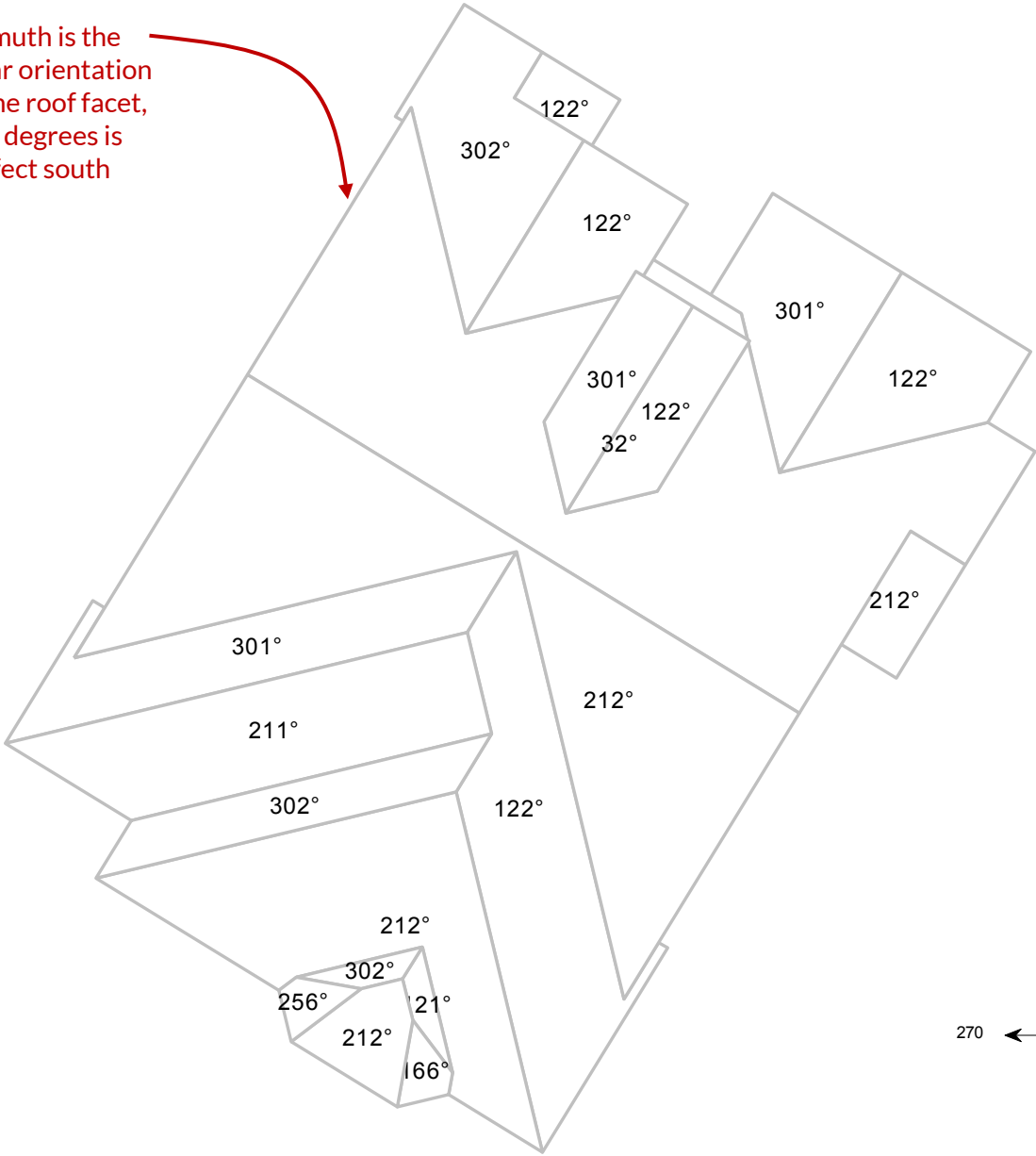
October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



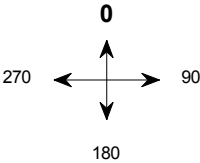
Azimuth

The azimuth is the orientation of the structure to true north. In this diagram roof facet directions are labeled in degrees, with 0° (360°) as true north. Flat facets are labeled as 'F'.

Azimuth is the
polar orientation
of the roof facet,
180 degrees is
perfect south



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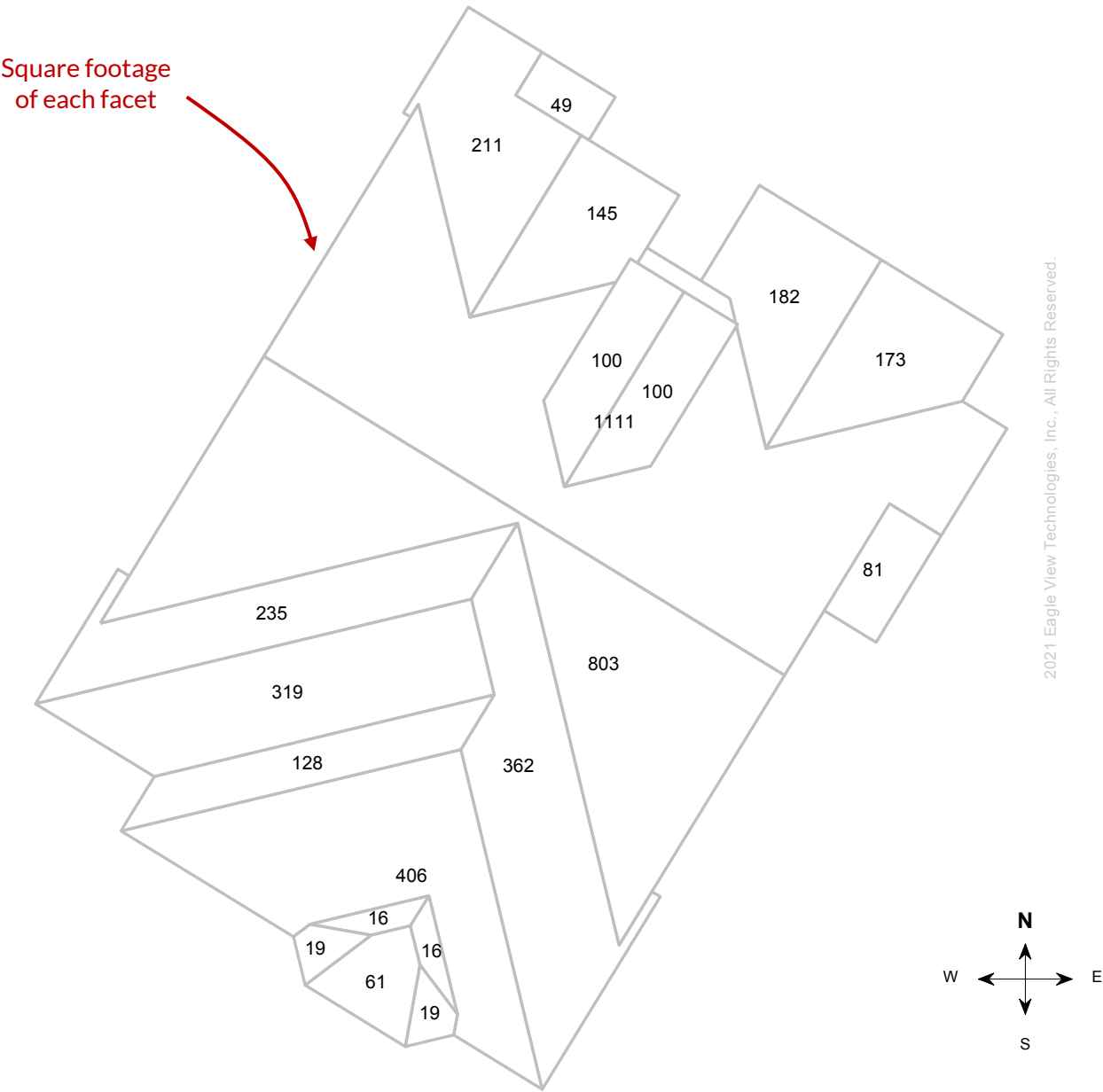


October 28, 2021
Property Address:
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Report: 43108022



Area

The area is measured in square feet per roof facet. The values have been rounded to the nearest foot square.

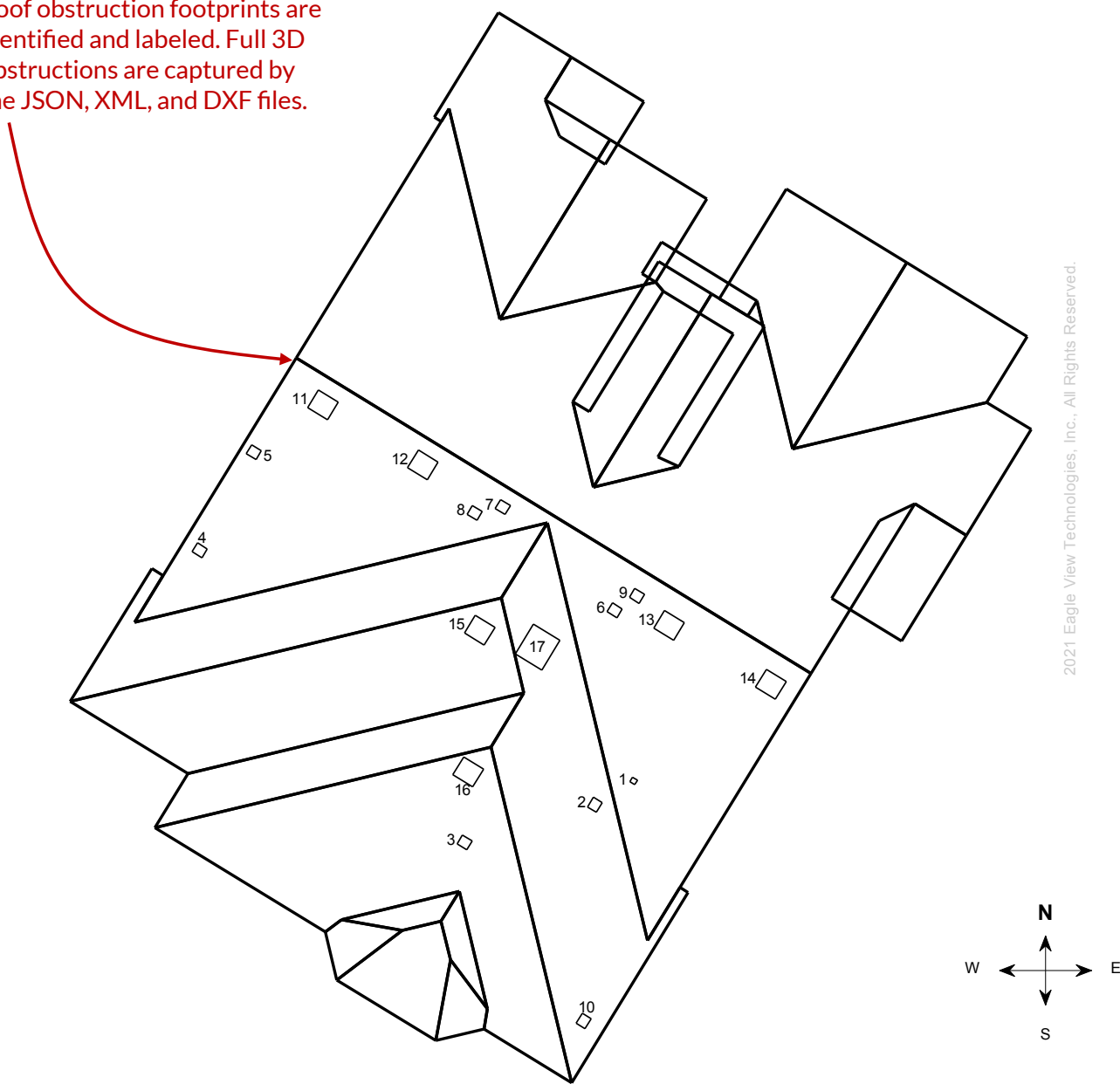


October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Roof Obstructions

Roof obstruction footprints are identified and labeled. Full 3D obstructions are captured by the JSON, XML, and DXF files.



October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



Imagery

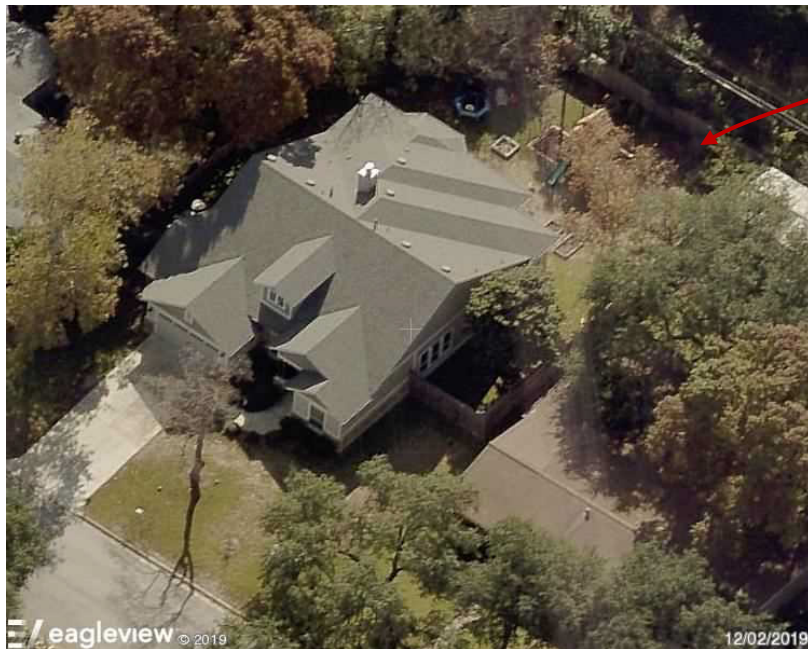
Top-down and side-view aerial imagery gives visual context for the measurements in the report

These are images of the property taken from multiple angles.

TOP VIEW



NORTH SIDE

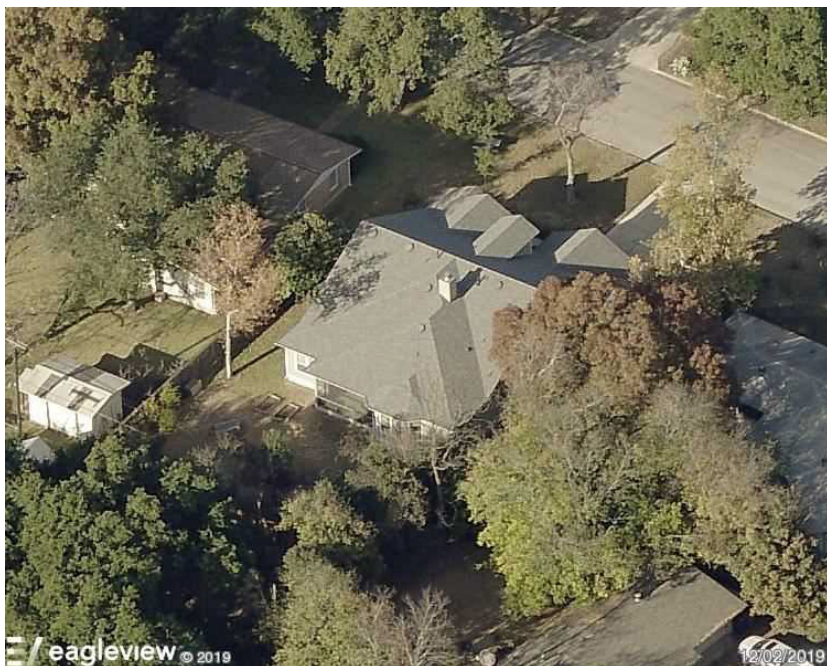


Match objects in the environment to Skyline Views on the roof facet pages

October 28, 2021
Property Address:
123 Main Street, City, State 00000
Report: 43108022



SOUTH SIDE



EAST SIDE



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Report: 43108022



WEST SIDE



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Report: 43108022



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Other Patents Pending.

ROOFING REPORT SUMMARY

All the information that roofers need to create estimates on one convenient page

All Structures

Areas per Pitch

Roof Pitches	6/12
Area (sq ft)	4537.6
% of Roof	100%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity

Simple	Normal	Complex
--------	--------	---------

Waste Calculation

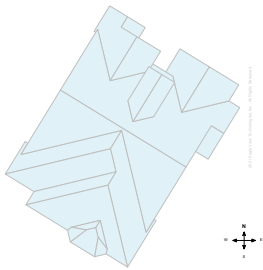
NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the **Lengths, Areas, and Pitches** section below.

Waste %	0%	3%	8%	13%	16%	18%	20%	23%	28%
Area (Sq ft)	4538	4675	4902	5128	5265	5355	5446	5582	5809
Squares *	45.66	47.00	49.33	51.33	52.66	53.66	54.66	56.00	58.33
	Measured					Suggested			

* Squares are rounded up to the 1/3 of a square

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.

All Structures Totals



Total Roof Facets = 20
Total Roof Obstructions = 17

Lengths, Areas and Pitches

Ridges = 134 ft (9 Ridges)
Hips = 147 ft (10 Hips).
Valleys = 218 ft (13 Valleys)
Rakes[†] = 208 ft (17 Rakes)
Eaves/Starter[‡] = 187 ft (19 Eaves)
Drip Edge (Eaves + Rakes) = 395 ft (36 Lengths)
Parapet Walls = 0 (0 Lengths).
Flashing = 25 ft (8 Lengths)
Step flashing = 57 ft (9 Lengths)
Total Roof Obstructions Area = 43 sq ft
Total Roof Area Less Roof Obstructions = 4,495 sq ft
Total Roof Obstructions Perimeter = 98 ft
Predominant Pitch = 6/12
Total Area (All Pitches) = 4,538 sq ft

Property Location

Longitude = -97.7416934
Latitude = 30.3440123

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

Order roofing materials accurately with Suggested Waste Factor, calculated using the property's unique features

Linear Measurements summarized, with the number of roof features

[†] Rakes are defined as roof edges that are sloped (not level).
[‡] Eaves are defined as roof edges that are not sloped and level.

October 28, 2021
Property Address:
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Report: 43108022

