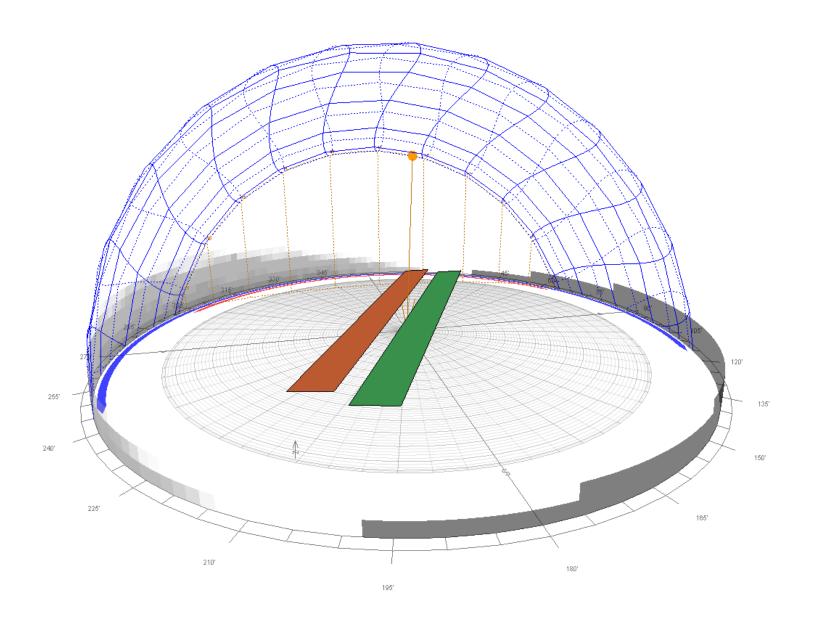
Research

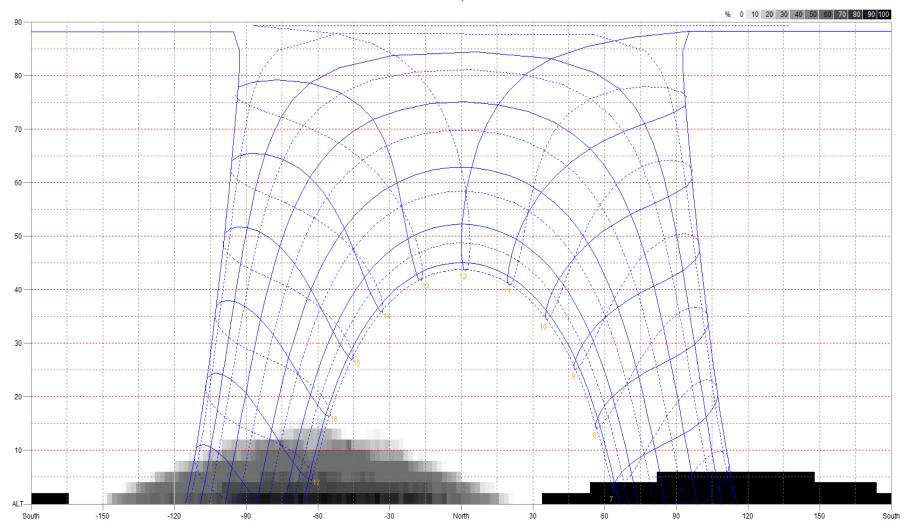
Green Section - Without Buildings



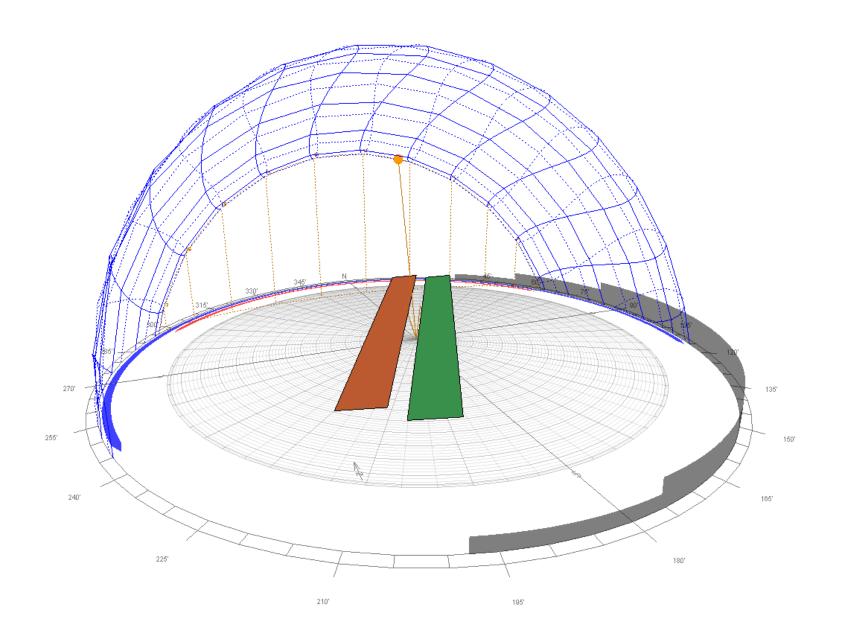
Green Section - Without Buildings

Orthographic Projection

Overcast Sky Factor: 98.9% Uniform Sky Factor: 98.4%



Orange Section - Without Buildings

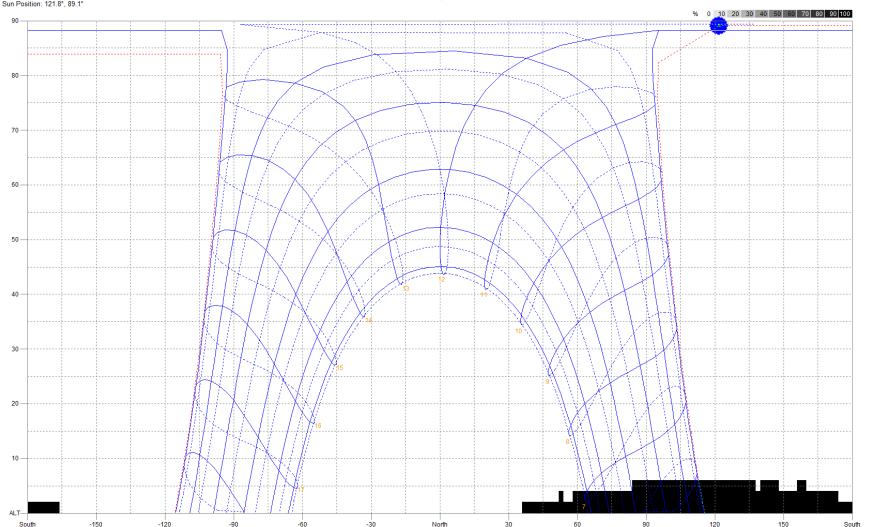


Orange Section - Without Buildings



Location: -23.0°, -46.0° Obj 33208 Orientation: -64.3°, 84.0° Sun Position: 121.8°, 89.1°

Overcast Sky Factor: 99.6% Uniform Sky Factor: 99.7% Date/Time: 12:00, 24th [Shading: 1% HSA: -173.9°, VSA: 90.9



Orange and Green Section - Without Buildings - Summary

Effective Shading Coefficients

OBJECT No.: 33209 Latitude: -23.0° Longitude: -46.0°

TimeZone: -45.0° [-3.0hrs]

Orientation: -64.2°

Avg.SC Month Max.SC Min.SC Month Avg.SC Max.SC Min.SC 96.2% 0.0% 100.0% 96.2% 0.0% 100.0% January January February 96.4% 11.1% 100.0% February 100.0% 100.0% 100.0% 92.6% 0.0% 100.0% 95.8% 100.0% March March 0.0% 93.7% 100.0% 100.0% April 0.0% April 95.7% 0.0% 100.0% May 100.0% 100.0% 100.0% May 100.0% 100.0% 100.0% June 95.2% 0.0% June 95.2% 0.0% 100.0% 91.4% 0.0% 100.0% 95.5% 0.0% 100.0% July July 94.2% 0.0% 100.0% 95.7% 0.0% 100.0% August August September 100.0% September 95.8% 0.0% 100.0% 95.8% 0.0% October 95.3% 0.0% 100.0% October 96.2% 0.0% 100.0% 96.2% 0.0% 100.0% 0.0% 100.0% November November 96.2% December 95.5% 0.0% 100.0% December 96.3% 0.0% 100.0% 96.0% 3.7% 100.0% 97.5% 33.3% 100.0% Summer Summer 95.6% 33.3% 96.9% 33.3% 100.0% Winter 100.0% Winter Annual 95.2% 9.3% 100.0% Annual 96.5% 16.7% 100.0%

Effective Shading Coefficients

OBJECT No.: 33208 Latitude: -23.0° Longitude: -46.0°

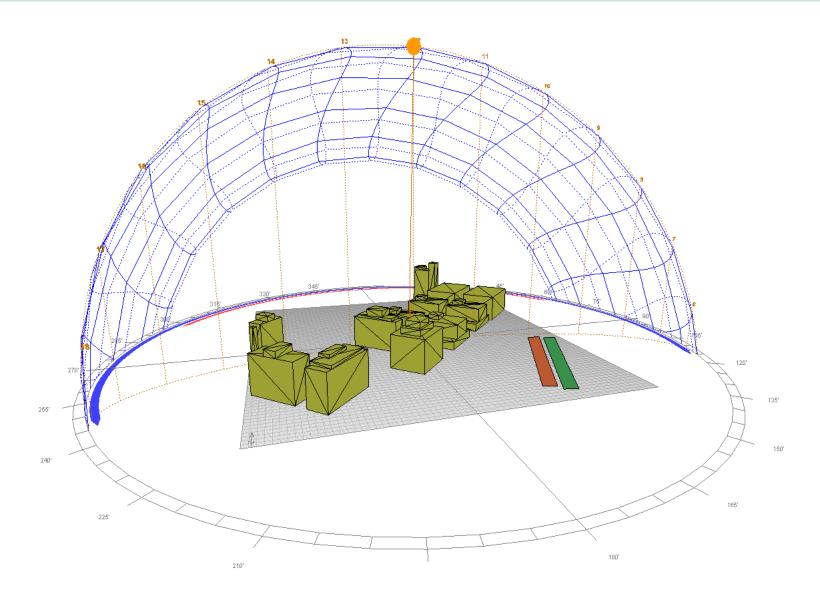
TimeZone: -45.0° [-3.0hrs]

Orientation: -64.3°

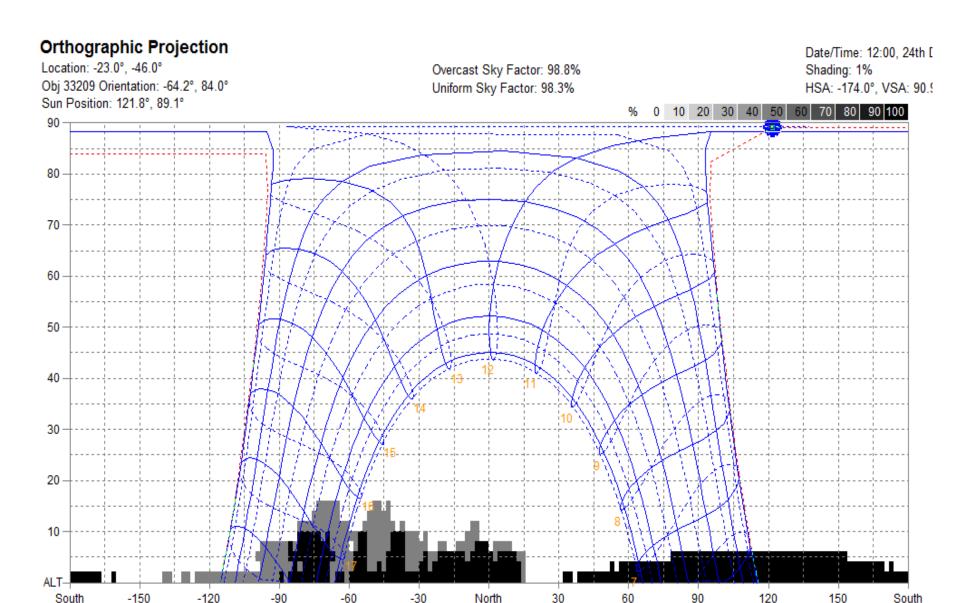
Solar 3DBR – Plug-in Skt-up		PVSYST		
	%Near Shading		%Near Shading	
Month	Solar3DBR	Month	PVSYST	
Jan	1,000	Jan	0,20	
Feb	0,800	Feb	0,20	
Mar	0,900	Mar	0,20	
Apr	1,000	Apr	0,30	
May	0,900	May	0,30	
Jun	0,900	Jun	0,30	
July	0,800	July	0,30	
Aug	0,900	Aug	0,30	
Sep	1,000	Sep	0,30	
Oct	1,000	Oct	0,20	
Nov	0,700	Nov	0,20	
Dez	0,900	Dez	0,20	
Year	0,900	Year	0,30	

%NearShading Ecotect Year: ((100%-95,2%)+(100%-96,5))/12 = 7,95%

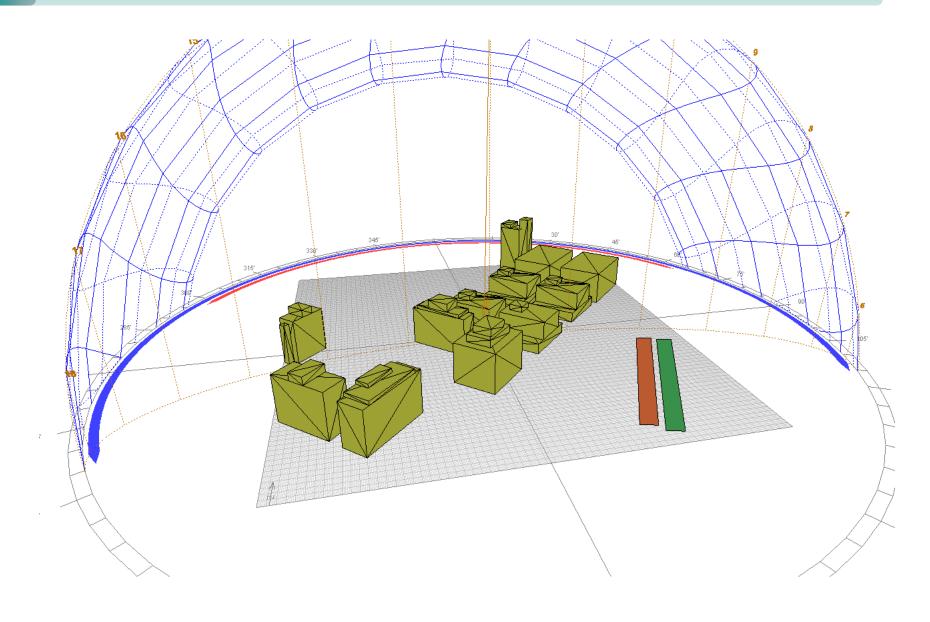
Green Section - With Buildings



Green Section - With Buildings



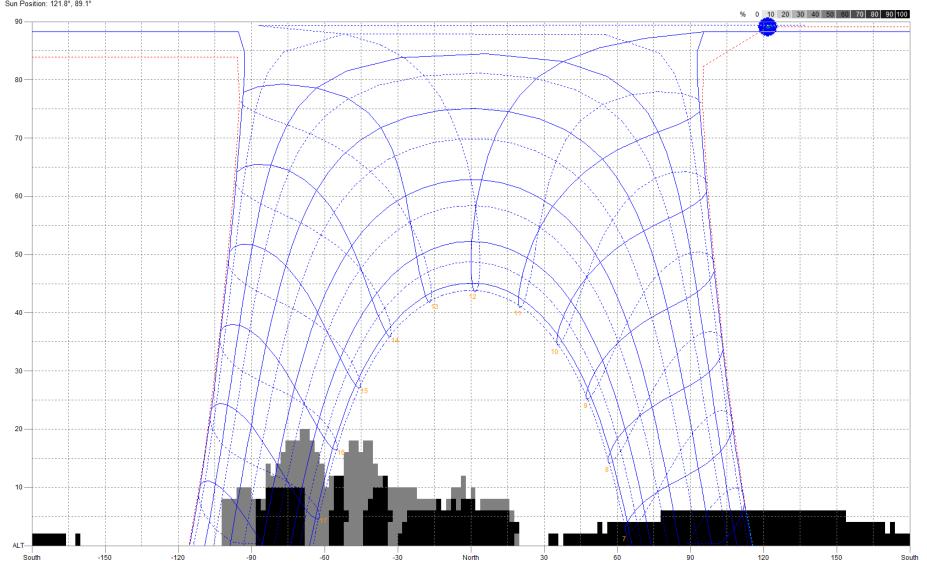
Orange Section - With Buildings



Orange Section - With Buildings



Location: -23.0°, -46.0° Obj 33208 Orientation: -64.3°, 84.0° Sun Position: 121.8°, 89.1° Overcast Sky Factor: 98.6% Uniform Sky Factor: 98.0% Date/Time: 12:00, 24th [Shading: 1% HSA: -173.9°, VSA: 90.5



Orange and Green Section - With Buildings - Summary

Effective Shading Coefficients

OBJECT No.: 33209 Latitude: -23.0° Longitude: -46.0°

TimeZone: -45.0° [-3.0hrs]

Orientation: -64.2°

Effective Shading Coefficients

OBJECT No.: 33208 Latitude: -23.0° Longitude: -46.0°

TimeZone: -45.0° [-3.0hrs]

Orientation: -64.3°

Month	Avg.SC	Max.SC	Min.SC	Month	Avg.SC	Max.SC	Min.SC
January	96.2%	0.0%	100.0%	January	96.2%	0.0%	100.0%
February	96.0%	50.0%	100.0%	February	96.0%	50.0%	100.0%
March	93.8%	0.0%	100.0%	March	91.7%	0.0%	100.0%
April	87.0%	0.0%	100.0%	April	84.8%	0.0%	100.0%
May	95.2%	50.0%	100.0%	May	95.2%	50.0%	100.0%
June	92.9%	0.0%	100.0%	June	92.9%	0.0%	100.0%
July	88.6%	0.0%	100.0%	July	86.4%	0.0%	100.0%
August	89.1%	0.0%	100.0%	August	87.0%	0.0%	100.0%
September	93.8%	0.0%	100.0%	September	93.8%	0.0%	100.0%
October	96.2%	0.0%	100.0%	October	96.2%	0.0%	100.0%
November	96.2%	0.0%	100.0%	November	96.2%	0.0%	100.0%
December	96.3%	0.0%	100.0%	December	96.3%	0.0%	100.0%
Summer	96.2%	16.7%	100.0%	Summer	96.2%	16.7%	100.0%
Winter Annual	92.2% 93.4%	16.7% 8.3%	100.0% 100.0%	Winter Annual	91.5% 92.7%	16.7% 8.3%	100.0% 100.0%

Solar 3DBR – Plug-in Skt-up		PVSYST		
	%Near Shading		%Near Shading	
Month	Solar3DBR	Month	PVSYST	
Jan	4,40	Jan	0,9	
Feb	3,60	Feb	1,2	
Mar	4,70	Mar	1,5	
Apr	5,50	Apr	1,9	
May	5,10	May	2	
Jun	5,10	Jun	2,4	
July	4,70	July	2,1	
Aug	5,10	Aug	1,9	
Sep	5,20	Sep	1,6	
Oct	4,60	Oct	1,3	
Nov	3,30	Nov	1,1	
Dez	3,80	Dez	1	
Year	4,50	Year	1,5	