5060

# Sunlight Reception Analysis Report

SUNLIGHT RECEPTION IN AMENITY SPACES WITHIN THE PROPOSED DEVELOPMENT EFFECTS on SUNLIGHT RECEPTION IN EXISTING NEIGHBOURING AMENITY SPACES AS A RESULT OF THE PROPOSED DEVELOPMENT

# Raheen Housing Development

Proposed Residential Development

Ballykeeffe, Raheen, Co. Limerick

DW Raheen Developments Ltd

**DKP-N16-5060-1P** 2022-02-08

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Appendix		
Α	5061 One hourly overall site shadow – sunlight status illustrations	Attached
В	5061 One hourly overall site shadow – sunlight status calculations	Attached

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### 1 Introduction

#### 1.1 Report purpose

This report gives information on the level of achieved sunlight reception in amenity spaces within the proposed new development and the effects of the proposed development on sunlight reception in existing neighbouring amenity spaces.

#### 1.2 Instruction

DKPartnership (DKP) have been commissioned by DW Raheen Developments Ltd, to carry out the analysis and report for the proposed development at Ballykeeffe, Raheen, Co. Limerick.

#### 1.3 Development description

DW Raheen Developments Ltd. are seeking a ten year permission for a strategic housing development consisting of the provision of 384 residential house and apartment units on a ca. 10.44 hectare site located in Ballykeeffe, Raheen, Co. Limerick. The site is greenfield land that is enclosed by existing residential development to the south and east, the R510 to the west and open land to the north. Access to the site is provided by an existing entrance off a roundabout on the R510 regional road.

The proposed development will provide as follows:

- 202 no. housing units, comprising a variety of forms to include bungalows, detached, semi-detached and terraced houses. A mix of house sizes are proposed to include 20 no. two bedroom houses, 156 no. three bedroom houses and 26 no. four bedroom houses.
- 182 apartment and duplex units across 25 small scale blocks, 2 to 4 storeys in heights, throughout the development. The apartments and duplexes provide a mix of one, two, three and four bed units, comprising of 10 no. four bedroom duplex units, 10 no. three bedroom duplex units, 6 no. two bedroom duplex units, 18 no. three bedroom apartments, 92 no. two bedroom apartments and 46 no. one bedroom apartments.

The proposed development also includes;

- A childcare facility measuring 761.75m2, providing 79 childcare places (55 full time and 24 after school places), located at the south-western edge of the development.
- The provision of 377 no. car parking spaces and 311 secured bicycle parking spaces.
- The provision of 3 no. ESB sub-stations, ancillary services and infrastructure works including foul and surface water drainage, attenuation areas, landscaped public open spaces (approximately 29,500m2, or 28.2% of the total site area), landscaping, lighting, internal roads, cycle paths, and footpaths.

A Natura Impact Statement (NIS) and Environmental Impact Assessment Report (EIAR) have been prepared in respect of the proposed development.

#### 1.4 Statutory requirement

There are no particular building regulations in relation day light/shadow effect standards other than recommendations outlined or referred to in the CIBSE lighting guide 10, BS EN17037/EN17037 and the BRE document" Site layout planning for daylight and sun light". The aforementioned documents do refer to a" right to a sky view" relating to existing buildings facing a new adjacent development in so far that it compares an existing sky view with the sky view when the new development is constructed. The difference, if any, must be within a certain acceptable threshold.

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### **2** Executive summary

#### 2.1 Analysis conducted

This report details the effects on the sunlight/shadow status of the sunlight/shadow status of new amenity spaces within the proposed development and the effects of the proposed development on sunlight reception in existing neighbouring amenity spaces.

#### 2.2 Guidelines and standards applied

For this report we applied the recommendations and guideline of the following;

- The Building Research Establishment (BRE) report, "Site layout planning for daylight and sunlight a guide to good practice (referred to as the BRE Report).
- British European Standard BS EN17037/EN17037 Day lighting standards and contains guidance on the minimum recommended levels of interior day lighting.
- CIBSE guide 10 Day light and lighting for buildings.

#### 2.3 Technical analysis

Calculations were conducted in accordance with the BRE guidelines to determine the extent to which the proposed development could affect the shadow/sun light reception in any existing amenity spaces and new amenity spaces proposed with the development. For new amenity spaces, in basic terms, the minimum criteria is that at least 50% of the amenity space should receive at least two hours of sunlight on the 21st March and for "existing" amenity spaces there is also the additional criteria that any loss of sunlight should not be greater than 0.8 times its former size.

#### 2.4 Amenity spaces within the development shadow / sunlight assessment conclusion

Based on the BRE guidelines at least 50% of the amenity space should receive at least two hours of sunlight on the 21<sup>st</sup> March. From the calculation results we note all of the new amenity spaces received more than the recommended sunlight. Calculation findings are summarised as follows (see image 5.1 for amenity locations):

Amenity area outlined in A was calculated to have 8.00 hours at 50% area.

Amenity area outlined in B was calculated to have 9.00 hours at 50% area.

Amenity area outlined in C was calculated to have 9.00 hours at 50% area.

Amenity area outlined in D was calculated to have 8.00 hours at 50% area.

We conclude that the new amenity spaces receive sunlight on 50% of the area is in line with the minimum recommendations of the BRE Report - Site Layout and Planning for Daylight and Sunlight - and therefore deem these to be compliant to this element.

#### 2.5 Existing neighbouring amenity spaces sunlight/shadow assessment conclusion

Based on the BRE guidelines at least 50% of the amenity space should receive at least two hours of sunlight on the 21<sup>st</sup> of March and that any loss of sunlight should not be greater than 0.8 (20% reduction) times its former size. From the calculation results we note that the majority of selected existing amenity spaces all received 2 hours of sunlight or more on at least 50% of the area before and after the introduction of the new development. Results are as follows (see image 6.1 for receptor locations):

- West receptors (Ard Aulin estate): Receptors 1 to 5 are residential dwellings with front gardens / back garden amenity spaces. These areas resulted in change factors ranging from 0.90-0.91 meaning the new proposed development has a small effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 17.00-18.00. The results are comfortably within BRE guidelines.
- South receptors (Inis Mór and Inis Lua estate): Receptors 6 to 11 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.98-1.00 meaning the new proposed development has a very small effect on theses amenity spaces shadow/sunlight. This effect happens in the early morning hours of 07.00-08.00. The results are comfortably within BRE guidelines. Receptor 6,7,8,9 & 11 has a change factor of 1.00 meaning the new proposed has no effect on these existing amenity spaces.

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- East receptors (Inis Lua Close estate and Whitethorn estate): Receptors 12 to 19 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.81-1.00 meaning the new proposed development has an effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 16.00-18.00. The results are within BRE guidelines. Receptor 18 & 19 has a change factor of 1.00 meaning the new proposed has no effect on these existing amenity spaces.
- East receptors (Ballinvoher estate): Receptors 20 to 26 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.99-1.00 meaning the new proposed development has a very small effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 16.00-17.00. The results are within BRE guidelines. Receptor 20,21,22,24,25 & 26 & has a change factor of 1.00 meaning the new proposed has no effect on these existing spaces.

We conclude that the sunlight reception in the existing neighbouring amenity spaces after the introduction of the new development is in excess of the minimum recommendations of the BRE Report— "Site Layout and Planning for Daylight and Sunlight and therefore deem this to be compliant to this element.

#### 2.6 Mitigation measures / actions

No mitigation measures anticipated.

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# **3** Geographical overview

#### 3.1 Project overview

Image 3.1 the (google) site map below indicates the location of the site approximately outlined.



Image 3.1 proposed development site boundary

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### 4 Approach and methodology

#### 4.1 General approach

This report covers

- the sunlight reception/shadow status of new proposed amenity spaces within the new development.
- the effects of the new development on the sunlight reception/shadow status of existing neighbouring amenity spaces/gardens.

#### 4.2 The nature and effects of day light and sun light

When assessing the effects of proposed building projects on the potential to cause issues relating to light, it is important to recognise the distinction between daylight and sunlight. Daylight is the combination of all direct and indirect sunlight during the daytime, whereas sunlight (for the purposes of this report) comprises only the direct elements of sunlight. For example, on a cloudy or overcast day diffused daylight still shines through windows, even when sunlight is absent. Any development within a built-up area has the potential to alter the amount of daylight and direct sun received by nearby residential properties.

Care should be taken when designing new buildings in built-up areas, especially when the proposed development is relatively tall or situated to the south of existing buildings, because in the northern hemisphere the majority of the sunlight comes from the south. In Ireland (and other northern hemisphere countries) south-facing facades will in general, receive the most sunlight, while the north facing facades will receive sunlight on only a handful of occasions, specifically early mornings and late evenings during the summer months. It is therefore important to ensure that buildings to the south of any development do not cause over shadowing to existing dwellings and therefore reduce their capacity to receive sunlight.

#### 4.3 Assessment criteria

National Policy/building regulations.

The government does not have an adopted policy on daylight, sunlight and the effects of overshadowing, and does not have targets, criteria or relevant planning guidance in the way it has for other environmental impacts such as noise, landscape or air quality. However, there are a number of guidance documents which are relevant when considering daylight, sunlight and overshadowing in dwellings:

- The Building Research Establishment (BRE) report, "Site layout planning for daylight and sunlight a guide to good practice (referred to as the BRE Report). Although not Government guidance, this report is commonly referenced as the main guide in Ireland/UK in determining the minimum standards of daylight and sunlight and for determining the impact of a development.
- British European Standard BS EN17037/EN17037 Day Lighting for buildings. BS EN17037/EN17037 contains guidance on the minimum recommended levels of interior day lighting and introduces some of the calculation procedures used in the BRE Report.
- CIBSE guide 10 Day light and lighting for buildings. CIBSE lighting guide 10 like BS EN17037/EN17037 contains guidance on the minimum recommended levels of interior day lighting and introduces recommended day light levels for general buildings.

#### 4.4 The BRE Report – "Site Layout and Planning for Daylight and Sunlight – A Guide to Good Practice"

The BRE report contains guidance on how to design developments, whilst minimising the impacts on existing buildings from overshadowing and reduced levels of daylight and sunlight. The advice provided within the guide is not mandatory and should not be seen as an instrument of planning policy, its aim is to help rather than constrain the designer. Although it gives numerical guidance values, these should be interpreted with flexibility since natural lighting is one of many factors in site layout design. The guidance should be applied appropriately to developments to assist in gaining the best development possible without adverse impacts.

As well as advice, the report contains a methodology to assess levels of daylight, sunlight and over shadowing and contains criteria to determine the potential impacts of a new development on surrounding buildings. The table below summarises the criteria used to assess the overshadowing/sunlight reception in amenity spaces.

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In this report we have separated the new and existing amenity spaces as they are assessed slightly differently. BRE sunlight/shadow assessment criteria. Table 4.1 Sunlight reception requirements for amenity spaces within the new proposed development.

Туре	Criteria	Acceptable parameters
Overshadowing new	Amenity space prevented from	At least 50% of the amenity space should receive at least two hours of sunlight
amenity spaces	receiving any sunlight on March 21st	
Table 4.1		

Table 4.2 Effects on Sunlight reception requirements for existing neighbouring amenity spaces.

Туре	Criteria	Acceptable parameters
Overshadowing existing amenity spaces	Amenity space prevented from receiving any sunlight on March 21st	Any loss of sunlight should not be greater than 0.8 times its former size.

Table 4.2

#### 4.5 Overshadowing effects measured

The minimum sunlight requirement in this report measured in sunlight time 2 hours (120 minutes) multiplied by 50% area  $m^2$  or the minimum requirement = 120 (min) \* 0.5a ( $m^2$ ) = [ ] min·m<sup>2</sup>.

#### 4.6 Existing amenity spaces

The overshadowing/sun light assessment is the effects the proposed development has on existing open amenity spaces. In basic terms, based on the BRE report states that at least 50% of the amenity space should receive at least two hours of sunlight on the 21st March and any loss of sunlight should not be greater than 0.8 times its former size. The overshadowing/sun light assessment is executed in using a 3D model of the project and adjoining buildings with the results illustrated in tabular format showing the hourly status of the shadow/sunlight fraction in the relevant amenity spaces. The impacts of vegetation: It is important to note that according to the BRE Report, calculations do not normally take into account vegetation. The exception is when evergreen vegetation exists that forms a continuous barrier and would be permanent throughout the seasons.

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### ■ 5 Receptor selection and Calculation results - Amenity spaces within the proposed development

#### 5.1 Amenity spaces within the proposed development

Image 5.1 below indicates the amenity areas that have been selected and analysed on the basis that the shadow casted from the proposed development may effect the amenity areas given its geographical location in relation to the development.



Image 5.1: new proposed amenity spaces

Receptor	Description	Area (ha)
Α	Open amenity space	2.60
В	Open amenity space	0.20
С	Open amenity space	0.11
D	Open amenity space	0.04
	Total open amenity space	2.95

Table 5.1: new proposed amenity spaces

#### 5.2 Assessment approach

The tables below represent the one hourly sunlight/shadow status of the respective new amenity spaces provided within the new development on March 21st. To compare against the BRE guidelines, the calculation results have been given the following colour code guide depending on its level of resulting compliance. See appendix A for the modelled shadow/sunlight imaging per hour on March 21st.

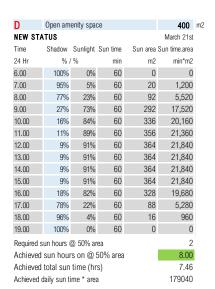
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#### 5.3 Proposed development amenity space calculation results

Ą	Open am	enity spa	ce		26,000	m2	В	Open am	enity spa	ce		2,000
NEW ST	ATUS				March 21st		NEW STA	ATUS				March 21s
Time	Shadow	Sunlight	Sun time	Sun area	Sun time.area		Time	Shadow	Sunlight	Sun time	Sun area	Sun time.are:
24 Hr	%	/ %	min	m2	min*m2		24 Hr	% /	/ %	min	m2	min*m2
6.00	100%	0%	60	0	0		6.00	100%	0%	60	0	(
7.00	95%	5%	60	1300	78,000		7.00	96%	4%	60	80	4,800
8.00	57%	43%	60	11180	670,800		8.00	47%	53%	60	1060	63,600
9.00	38%	62%	60	16120	967,200		9.00	22%	78%	60	1560	93,600
10.00	37%	63%	60	16380	982,800		10.00	18%	82%	60	1640	98,40
11.00	35%	65%	60	16900	1,014,000		11.00	16%	84%	60	1680	100,80
12.00	34%	66%	60	17160	1,029,600		12.00	16%	84%	60	1680	100,80
13.00	36%	64%	60	16640	998,400		13.00	17%	83%	60	1660	99,60
14.00	36%	64%	60	16640	998,400		14.00	18%	82%	60	1640	98,40
15.00	39%	61%	60	15860	951,600		15.00	20%	80%	60	1600	96,00
16.00	42%	58%	60	15080	904,800		16.00	25%	75%	60	1500	90,00
17.00	53%	47%	60	12220	733,200		17.00	56%	44%	60	880	52,80
18.00	68%	32%	60	8320	499,200		18.00	78%	22%	60	440	26,40
19.00	100%	0%	60	0	0		19.00	100%	0%	60	0	
Required	sun hours	@ 50% a	rea		2		Required s	sun hours	@ 50% ar	rea		
Achieve	d sun hou	rs on @	50% area		8.00		Achieved	sun hou	rs on @	50% area		9.0
Achieve	d total sur	time (hr	s)		6.30		Achieved	total sun	time (hr	s)		7.7
Achieved	daily sun t	ime * are	a		9828000		Achieved	daily sun t	ime * are:	a		92520

С	Open am	enity spa	ce		1,100
NEW STA	TUS				March 21st
Time	Shadow	Sunlight	Sun time	Sun area	Sun time.area
24 Hr	% /	/ %	min	m2	min*m2
6.00	100%	0%	60	0	0
7.00	96%	4%	60	44	2,640
8.00	29%	71%	60	781	46,860
9.00	16%	84%	60	924	55,440
10.00	10%	90%	60	990	59,400
11.00	9%	91%	60	1001	60,060
12.00	10%	90%	60	990	59,400
13.00	13%	87%	60	957	57,420
14.00	15%	85%	60	935	56,100
15.00	23%	77%	60	847	50,820
16.00	41%	59%	60	649	38,940
17.00	69%	31%	60	341	20,460
18.00	96%	4%	60	44	2,640
19.00	100%	0%	60	0	0
Required s	un hours (	@ 50% aı	rea		2
Achieved	sun houi	rs on @	50% area	I	9.00
Achieved	total sun	time (hr	s)		7.73
Achieved of	510180				



#### 5.4 Amenity spaces within the proposed development sunlight / shadow results conclusion

Based on the BRE guidelines at least 50% of the amenity space should receive at least two hours of sunlight on the 21<sup>st</sup> March. From the calculation results we note all of the new amenity spaces received more than the recommended sunlight. Calculation findings are summarised as follows (see image 5.1 for amenity locations):

Amenity area outlined in A was calculated to have 8.00 hours at 50% area. Amenity area outlined in B was calculated to have 9.00 hours at 50% area. Amenity area outlined in C was calculated to have 9.00 hours at 50% area. Amenity area outlined in D was calculated to have 8.00 hours at 50% area.

We conclude that the new amenity spaces receive sunlight on 50% of the area is in line with the minimum recommendations of the BRE Report - Site Layout and Planning for Daylight and Sunlight - and therefore deem these to be compliant to this element.

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# **6** Receptor selection and calculation results – Existing neighbouring amenity spaces

#### 6.1 Selected existing amenity spaces

Image 6.1 below indicates the neighbouring amenity areas that have been selected and analysed on the basis that the shadow casted from the new development may effect these amenity areas given its geographical location in relation to the proposed development.



Image 6.1: existing neighbouring amenity spaces

Receptor	Location / Address	Amenity description	~Area m²
1	1 Ard Aulin, Skehacreggaun, Mungret, Limerick	Back garden space	200
2	2 Ard Aulin, Skehacreggaun, Mungret, Limerick	Front garden space	15
3	3 Ard Aulin, Skehacreggaun, Mungret, Limerick	Front garden space	35
4	4 Ard Aulin, Skehacreggaun, Mungret, Limerick	Front garden space	50
5	5 Ard Aulin, Skehacreggaun, Mungret, Limerick	Front garden space	50
6	38 Inis Mór, Father Russell Rd, Skehacreggaun, Limerick	Back garden space	250
7	24 Inis Mór, Bóthar an Athar Ruiséil, Skehacreggaun, Limerick	Back garden space	85
8	18 Inis Mór, Bóthar an Athar Ruiséil, Skehacreggaun, Limerick	Back garden space	80
9	71 Inis Lua, Bóthar an Athar Ruiséil, Skehacreggaun, Limerick	Back garden space	140
10	72 Inis Lua, Bóthar an Athar Ruiséil, Skehacreggaun, Limerick	Back garden space	150
11	73 Inis Lua, Bóthar an Athar Ruiséil, Skehacreggaun, Limerick	Back garden space	130
12	Inis Lua Close estate	Back garden space	130
13	Inis Lua Close estate	Back garden space	170
14	Inis Lua Close estate	Back garden space	180
15	Inis Lua Close estate	Back garden space	170
16	Inis Lua Close estate	Back garden space	150
17	Whitethorn estate	Back garden space	200
18	Whitethorn estate	Back garden space	190
19	Whitethorn estate	Back garden space	200
20	37 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	200
21	38 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	190
22	39 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	150

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23	59 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	200
24	58 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	120
25	57 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	100
26	56 Ballinvoher, Bóthar an Athar Ruiséil, Gouldavoher, Limerick	Back garden space	90

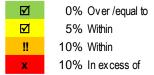
Table 6.1: existing neighbouring amenity spaces

#### 6.2 Assessment approach

The left-hand side calculation tables below represent the one hourly sunlight/shadow status of the respective existing amenity space before the introduction of the new development and the right hand side tables below represent the one hourly sunlight/shadow status of the respective existing amenity space after the introduction of the new development. See appendix A for the predicted sunlight/shadow imaging per hour. The calculation results have been given the following colour code guide depending on its level of resulting compliance.

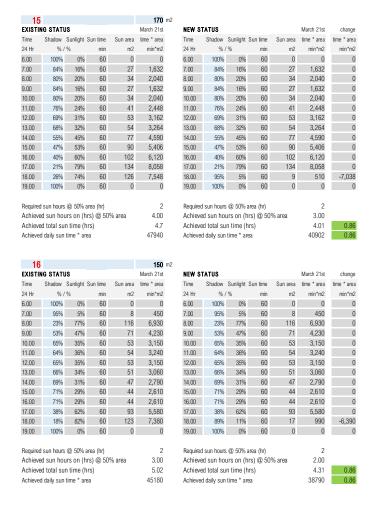
#### Compliance guide

DKP



#### 6.3 Existing amenity spaces calculation results

The calculation results of the one hourly sunlight & shadow status of each selected amenity space before and after the introduction of the new development are all detailed in Appendix B. As there is a large number of amenity spaces assessed in this report we have only shown the result tables of 2 no. amenity spaces (15 & 16). Relevant sunlight & shadow calculation results are summarised in the next section.



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COMMENTS

#### 6.4 Summary table of results - March 21st

The calculation results of the one hourly sunlight & shadow status of each selected amenity space before and after the introduction of the new development are all detailed in Appendix B, however, to limit the listing of the calculation tables in this report, we have summarised the relevant sunlight & shadow calculation data in table 6.2 below.

Column 1: The amenity space ID

Column 2: The amenity space area

Column 3: The existing status sun hours \* amenity space area (hr\*m2)

Column 4: The existing status total sun hours

Column 5: The existing status sun hours on 50% of the area

Column 6: The new status sun hours \* amenity space area (hr\*m2)

EVICTING STATUS

Column 7: The new status total sun hours

Column 8: The new status sun hours on 50% of the area

Column 9: The change factor (should be NOT less than 0.8)

Column 10: Comment

		EXISTING	STATUS		NEW STATUS			COMMENTS		
Area ID	m²	Sun Hr*m²	Sun Hr	SunHr 50%	Sun Hr*m²	Sun Hr	Sun Hr 50%	Change		
1	200	89640	7.47	10	80400	6.7	9	0.90	change factor well within guidelines	
2	15	7695	8.55	9	7002	7.78	8	0.91	change factor well within guidelines	
3	35	17955	8.55	9	16338	7.78	8	0.91	change factor well within guidelines	
4	50	25650	8.55	9	23340	7.78	8	0.91	change factor well within guidelines	
5	50	25650	8.55	9	23340	7.78	8	0.91	change factor well within guidelines	
6	250	104250	6.95	8	104250	6.95	8	1.00	no change in existing shadow/sunlight	
7	85	24990	4.9	7	24990	4.9	7	1.00	no change in existing shadow/sunlight	
8	80	27792	5.79	8	27792	5.79	8	1.00	no change in existing shadow/sunlight	
9	140	46116	5.49	7	46116	5.49	7	1.00	no change in existing shadow/sunlight	
10	150	65790	7.31	11	63900	7.1	11	0.98	change factor well within guidelines	
11	130	57018	7.31	11	57018	7.31	11	1.00	no change in existing shadow/sunlight	
12	130	60684	7.78	8	58188	7.46	8	0.96	change factor well within guidelines	
13	170	74562	7.31	7	59976	5.88	5	0.81	change factor within guidelines	
14	180	67716	6.27	6	56484	5.23	5	0.84	change factor within guidelines	
15	170	47940	4.7	4	40902	4.01	3	0.86	change factor within guidelines	
16	150	45180	5.02	3	38790	4.31	2	0.86	change factor within guidelines	
17	200	59520	4.96	5	58440	4.87	5	0.99	change factor well within guidelines	
18	190	56202	4.93	5	56202	4.93	5	1.00	no change in existing shadow/sunlight	
19	200	84000	7	7	84000	7	7	1.00	no change in existing shadow/sunlight	
20	200	86400	7.2	8	86400	7.2	8	1.00	no change in existing shadow/sunlight	
21	190	85044	7.46	9	85044	7.46	9	1.00	no change in existing shadow/sunlight	
22	150	52290	5.81	6	52290	5.81	6	1.00	no change in existing shadow/sunlight	
23	200	109320	9.11	10	108000	9	10	0.99	change factor well within guidelines	
24	120	71856	9.98	12	71856	9.98	12	1.00	no change in existing shadow/sunlight	
25	100	62580	10.43	12	62580	10.43	12	1.00	no change in existing shadow/sunlight	
26	90	56160	10.4	11	56160	10.4	11	1.00	no change in existing shadow/sunlight	

NEW CTATHO

Table 6.2: existing neighbouring amenity spaces, summary table of results

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#### 6.5 Existing neighbouring amenity spaces shadow/sunlight assessment conclusion

Based on the BRE guidelines at least 50% of the amenity space should receive at least two hours of sunlight on the 21<sup>st</sup> of March and that any loss of sunlight should not be greater than 0.8 (20% reduction) times its former size. From the calculation results we note that the majority of selected existing amenity spaces all received 2 hours of sunlight or more on at least 50% of the area before and after the introduction of the new development. Results are as follows (see image 6.1 for receptor locations):



(For reference) Image 6.1: existing neighbouring amenity spaces

- West receptors (Ard Aulin estate): Receptors 1 to 5 are residential dwellings with front gardens / back garden amenity spaces. These areas resulted in change factors ranging from 0.90-0.91 meaning the new proposed development has a small effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 17.00-18.00. The results are comfortably within BRE guidelines.
- South receptors (Inis Mór and Inis Lua estate): Receptors 6 to 11 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.98-1.00 meaning the new proposed development has a very small effect on theses amenity spaces shadow/sunlight. This effect happens in the early morning hours of 07.00-08.00. The results are comfortably within BRE guidelines. Receptor 6,7,8,9 & 11 has a change factor of 1.00 meaning the new proposed has no effect on these existing amenity spaces.
- East receptors (Inis Lua Close estate and Whitethorn estate): Receptors 12 to 19 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.81-1.00 meaning the new proposed development has an effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 16.00-18.00. The results are within BRE guidelines. Receptor 18 & 19 has a change factor of 1.00 meaning the new proposed has no effect on these existing amenity spaces.
- East receptors (Ballinvoher estate): Receptors 20 to 26 are residential dwellings with back garden amenity spaces. These areas resulted in change factors ranging from 0.99-1.00 meaning the new proposed development has a very small effect on theses amenity spaces shadow/sunlight. This effect happens in the late afternoon hours of 16.00-17.00. The results are within BRE guidelines. Receptor 20,21,22,24,25 & 26 & has a change factor of 1.00 meaning the new proposed has no effect on these existing spaces.

We conclude that the sunlight reception in the existing neighbouring amenity spaces after the introduction of the new development is in excess of the minimum recommendations of the BRE Report— "Site Layout and Planning for Daylight and Sunlight and therefore deem this to be compliant to this element.

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# Appendix A

APPENDIX to SUNLIGHT RECEPTION REPORT 1 (one) HOURLY SUNLIGHT / SHADOW STATUS ILLISTRATIONS

# Raheen Housing Development

Proposed Residential Development

Ballykeeffe, Raheen, Co. Limerick

DW Raheen Developments Ltd

**DKP-N16-5060-1P** 2022-02-08



# Document control

DKP project no: N16 DKP document no: 5061 Project file no: DKP-N16-5061

Circular		Issue >	1P#	1P	
Clients	DW Raheen Developments Ltd				
Architects	Gleeson McSweeney		$\checkmark$	$\checkmark$	
Planning consultants	RW Nowlan & Associates		$\checkmark$	$\checkmark$	

1P# 2021-11-24 Draft issue Issue Issue 1P 2022-02-08 Issue for planning

#### Document issue status ID

Sketch/draft

# P Planning

С Concept

D Design

G General information

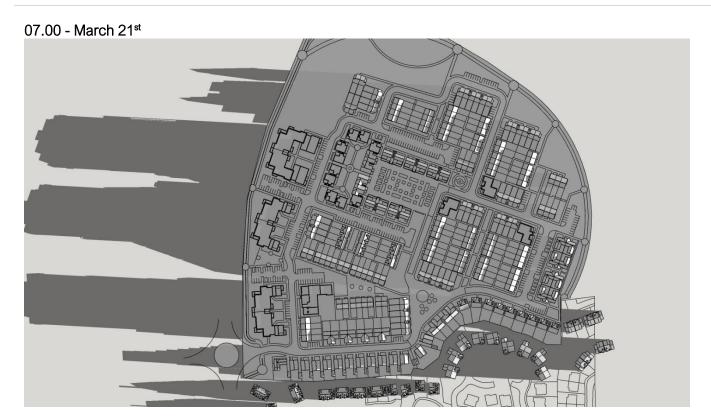
Τ Tender

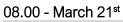
W Works/construction Ζ As-build/constructed

Issue	Prepared	Checked	Approved
1P#	201	208	201
1P	201	208	201



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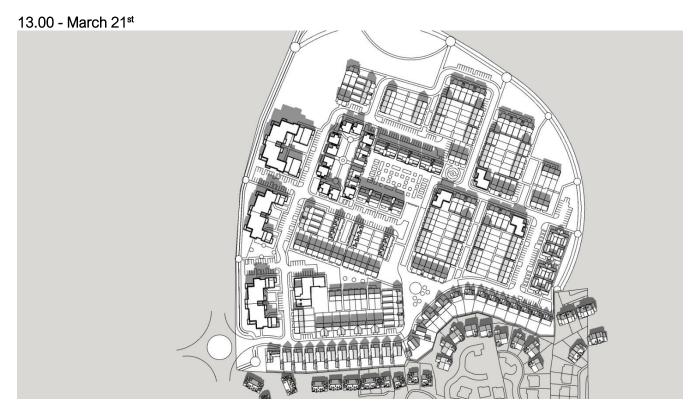




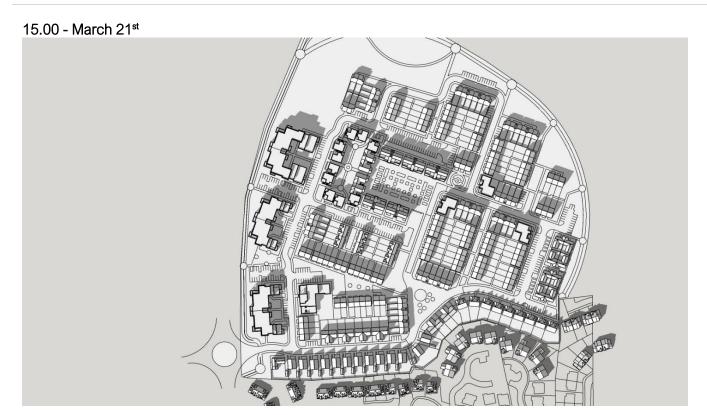


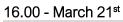




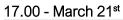














18.00 - March 21st



5062

# Appendix B

APPENDIX to SUNLIGHT RECEPTION REPORT 1 (one) HOURLY SUNLIGHT / SHADOW STATUS ILLISTRATIONS WITH THE NEW DEVELOPMENT

# Raheen Housing Development

Proposed Residential Development

Ballykeeffe, Raheen, Co. Limerick

DW Raheen Developments Ltd

**DKP-N16-5062-1P** 2022-02-08



# Document control

DKP project no: N16 DKP document no: 5062 Project file no: DKP-N16-5062

Circular		Issue >	1P#	1P
Clients Architects	DW Raheen Developments Ltd Gleeson McSweeney		<ul><li>✓</li><li>✓</li></ul>	<b>√</b>
Planning consultants	RW Nowlan & Associates		$\checkmark$	$\checkmark$

1P# Issue 2021-11-24 Draft issue 1P Issue 2022-02-08 Issue for planning

#### Document issue status ID

Sketch/draft

Р Planning

С Concept Design

D

G General information

T Tender

W Works/construction

Ζ As-build/constructed

Issue	Prepared	Checked	Approved
1P#	208	201	201
1P	208	201	201



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# Neighbouring amenity spaces sunlight-shadow calculations - March 21st 2021

	G STATU Shadow	Sunlight		Sun area	March 21st time * area		NEW ST	Shadow	Sunlight		Sun area	time * area	change time * area
24 Hr	% /		min	m2	min*m2		24 Hr	% /		min	m2	min*m2	min*m2
6.00	100%	0%	60	166	9.960		6.00	100%	0%	60	0	720	0 240
7.00 3.00	17% 21%	83% 79%	60	166 158	9,960		7.00 8.00	94% 21%	6% 79%	60	12 158	720 9.480	-9,240 0
9.00	26%	74%	60	148	8,880		9.00	26%	74%	60	148	8,880	0
10.00	34%	66%	60	132	7,920		10.00	34%	66%	60	132	7,920	0
11.00	38%	62%	60	124	7,440		11.00	38%	62%	60	124	7,440	0
12.00	45%	55%	60	110	6,600		12.00	45%	55%	60	110	6,600	0
13.00	56%	44%	60	88	5,280		13.00	56%	44%	60	88	5,280	0
14.00	44%	56%	60	112	6,720		14.00	44%	56%	60	112	6,720	0
15.00	43%	57%	60	114	6,840		15.00	43%	57%	60	114	6,840	0
16.00	39%	61%	60	122	7,320		16.00	39%	61%	60	122	7,320	0
17.00	39%	61%	60	122 98	7,320		17.00	39% 51%	61%	60	122 98	7,320	0
18.00 19.00	51% 100%	49% 0%	60	98	5,880 0		18.00 19.00	100%	49%		98	5,880 0	0
Required : Achieved Achieved	sun hours	@ 50% : irs on (h n time (h	area (hr) irs) @ 50 irs)		2 10.00 7.47 89640		Required Achieve Achieve	sun hours	s @ 50% urs on (f in time (l	area (hr) nrs) @ 50 nrs)		2 9.00 6.7 80400	0.90
2					15	m2							
	G STATU	s			March 21st		NEW ST	ATUS				March 21st	change
ime	Shadow	Sunlight	Sun time	Sun area	time * area		Time		Sunlight	Sun time	Sun area	time * area	time * area
24 Hr	% /		min	m2	min*m2		24 Hr	% /		min	m2	min*m2	min*m2
6.00	100%	0%	60	0	0		6.00	100%	0%	60	0	0	0
7.00	18%	82%	60	12	738		7.00	95%	5%	60	1	45	-693
3.00	6%	94%	60	14	846		8.00	6%	94%	60	14	846	0
9.00	6%	94%	60	14	846		9.00	6%	94%	60	14	846	0
10.00	6%	94%	60	14	846		10.00	6%	94%	60	14	846	0
11.00	6%	94%	60	14	846		11.00	6%	94%	60	14	846	0
12.00	6%	94%	60	14	846		12.00	6%	94%	60	14 14	846	0
13.00 14.00	6% 28%	94% 72%	60	14 11	846 648		13.00 14.00	6% 28%	94% 72%	60	11	846 648	0
15.00	37%	63%	60	9	567		15.00	37%	63%	60	9	567	0
16.00	59%	41%	60	6	369		16.00	59%	41%	60	6	369	0
17.00	77%	23%	60	3	207		17.00	77%	23%	60	3	207	0
18.00	90%	10%	60	2	90		18.00	90%	10%	60	2	90	0
19.00	100%	0%	60	0	0		19.00	100%	0%	60	0	0	0
3	daily sun t				7695 <b>35</b>	m2		l daily sun				7002	0.91
	G STATU				March 21st		NEW ST	ATHE				March 21st	change
ime	Shadow	O Enles											
24 Hr		-		Sun area	time * area		Time	Shadow	Sunlight		Sun area	time * area	time * area
00.5	100%	%	min	m2	min*m2		Time 24 Hr	Shadow %	/ %	min	m2	time * area min*m2	time * area min*m2
6.00	100%	% 0%	min 60	m2 0	min*m2		Time 24 Hr 6.00	Shadow % / 100%	′ % 0%	min 60	m2 0	time * area min*m2	time * area min*m2
7.00	100% 18%	% 0% 82%	min 60 60	m2 0 29	min*m2 0 1,722		Time 24 Hr 6.00 7.00	Shadow % / 100% 95%	0% 5%	min 60 60	m2 0 2	time * area min*m2 0 105	time * area min*m2 0 -1,617
7.00 3.00	100% 18% 6%	% 0% 82% 94%	min 60 60 60	m2 0 29 33	min*m2 0 1,722 1,974		Time 24 Hr 6.00 7.00 8.00	Shadow % / 100% 95% 6%	0% 0% 5% 94%	min 60 60 60	m2 0 2 33	time * area min*m2 0 105 1,974	time * area min*m2 0 -1,617
7.00 3.00 3.00	100% 18% 6% 6%	% 0% 82% 94% 94%	60 60 60 60	m2 0 29 33 33	min*m2 0 1,722 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00	Shadow % / 100% 95% 6% 6%	0% 5% 94% 94%	60 60 60 60	m2 0 2 33 33	time * area min*m2 0 105 1,974 1,974	time * area min*m2 0 -1,617 0
7.00 3.00	100% 18% 6%	% 0% 82% 94% 94% 94%	min 60 60 60	m2 0 29 33	min*m2 0 1,722 1,974 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00 10.00	Shadow % / 100% 95% 6%	0% 0% 5% 94%	min 60 60 60	m2 0 2 33	time * area min*m2 0 105 1,974 1,974	time * area min*m2 0 -1,617
7.00 3.00 9.00 10.00	100% 18% 6% 6% 6%	% 0% 82% 94% 94%	60 60 60 60 60	m2 0 29 33 33 33	min*m2 0 1,722 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00	Shadow % / 100% 95% 6% 6%	0% 5% 94% 94%	60 60 60 60 60	m2 0 2 33 33 33	time * area min*m2 0 105 1,974 1,974	time * area min*m2 0 -1,617 0 0
7.00 3.00 3.00 10.00 11.00	100% 18% 6% 6% 6% 6%	% 0% 82% 94% 94% 94% 94%	60 60 60 60 60 60	m2 0 29 33 33 33 33	min*m2 0 1,722 1,974 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00	Shadow % / 100% 95% 6% 6% 6% 6%	0% 5% 94% 94% 94% 94%	60 60 60 60 60 60	m2 0 2 33 33 33 33	time * area min*m2 0 105 1,974 1,974 1,974	time * area min*m2 0 -1,617 0 0
7.00 8.00 9.00 10.00 11.00	100% 18% 6% 6% 6% 6% 6%	% 0% 82% 94% 94% 94% 94% 94%	min 60 60 60 60 60 60	m2 0 29 33 33 33 33 33	min*m2 0 1,722 1,974 1,974 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00	Shadow % / 100% 95% 6% 6% 6% 6%	94% 94% 94% 94% 94% 94%	60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33	time * area min*m2 0 105 1,974 1,974 1,974 1,974	time * area min*m2 0 -1,617 0 0 0
7.00 3.00 9.00 10.00 11.00 12.00 13.00	100% 18% 6% 6% 6% 6% 6%	% 0% 82% 94% 94% 94% 94% 94%	min 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 33	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974		Time 24 Hr 6.00 7.00 8.00 9.00 11.00 12.00 13.00	Shadow % 100% 95% 6% 6% 6% 6% 6% 6%	94% 94% 94% 94% 94% 94%	60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 33 33	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974	time * area min*m2 0 -1,617 0 0 0 0 0 0 0 0
7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00	100% 18% 6% 6% 6% 6% 6% 6% 28% 37%	% 0% 82% 94% 94% 94% 94% 72% 63% 41%	min 60 60 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 25 22	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,512 1,323		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 12.00 13.00 14.00 15.00 16.00	Shadow % , , , , , , , , , , , , , , , , , ,	94% 94% 94% 94% 94% 94% 94% 63% 41%	min 60 60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 25 22 14	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861	time * area min*m2 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00	100% 18% 6% 6% 6% 6% 6% 6% 28% 37% 59% 77%	% 0% 82% 94% 94% 94% 94% 72% 63% 41% 23%	min 60 60 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 25 22	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 14.00 15.00 16.00 17.00 17.00	Shadow % / 100% 95% 6% 6% 6% 6% 28% 37% 59% 77%	94% 94% 94% 94% 94% 94% 94% 72% 63% 41%	min 60 60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 25 22 14 8	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483	time * area min*m2 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 3.00 3.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00	100% 18% 6% 6% 6% 6% 6% 6% 5% 77% 90%	% 0% 82% 94% 94% 94% 94% 72% 63% 41% 23% 10%	min 60 60 60 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 33 25 22 14 8 8 4	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 14.00 15.00 16.00 17.00 18.00 18.00 18.00	Shadow % , , 100% 95% 6% 6% 6% 6% 6% 28% 37% 59% 77% 90%	94% 94% 94% 94% 94% 94% 94% 41% 23% 10%	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 25 22 14 8 8 4	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210	time * area min*m2 0 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00	100% 18% 6% 6% 6% 6% 6% 6% 28% 37% 59% 77% 90% 100%	%  0% 82% 94% 94% 94% 94% 63% 41% 0%  0%	min 60 60 60 60 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 25 22 14 4 0 0	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0		Time 24 Hr 6.00 7.00 8.00 9.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 Required	Shadow % 6 100% 95% 69% 69% 69% 69% 69% 69% 59% 77% 90% 100% sun hours	94% 94% 94% 94% 94% 94% 94% 72% 63% 41% 0%	min 60 60 60 60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 35 25 22 14 4 0 0	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0	time * area min*m2 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 Required s	100% 18% 6% 6% 6% 6% 6% 6% 28% 37% 59% 77% 90% 100%	% 0% 82% 94% 94% 94% 63% 10% 0% 50% 5 ms on (h	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 29 33 33 33 33 33 25 22 14 4 0 0	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 Required Achieve	Shadow % 6 100% 95% 69% 69% 69% 69% 69% 69% 59% 77% 90% 100% sun hours	94% 94% 94% 94% 94% 94% 94% 63% 41% 23% 10% 0%	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 2 33 33 33 33 33 35 25 22 14 4 0 0	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0	time * area min*m2 0 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 8.00 9.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 Achieved	100% 18% 6% 6% 6% 6% 6% 6% 28% 37% 59% 77% 90% 100% sun hours	% 0%/ 82%/ 94%/ 94%/ 94%/ 94%/ 94%/ 72%/ 63%/ 41%/ 0%/ 50% rs on (ht mime (	min 60 60 60 60 60 60 60 60 60 60 area (hr) ars) @ 50 ars)	m2 0 29 33 33 33 33 33 25 22 14 4 0 0	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0 2 9.00 8.55 17955		Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 15.00 16.00 17.00 18.00 19.00 Required Achieve Achieve	Shadow % 100% 95% 6% 6% 6% 6% 28% 37% 59% 100% sun hours d sun ho	94% 94% 94% 94% 94% 94% 94% 10% 63% 10% 0% s @ 50% urs on (fun time (I	min 60 60 60 60 60 60 60 60 60 60 area (hr) nrs) @ 50 nrs)	m2 0 2 33 33 33 33 33 35 25 22 14 4 0 0	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,512 1,323 8611 483 210 0 2 8.00	time * area min*m2 0 -1,617 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 8.00 8.00 10.00 11.00 12.20 13.00 14.00 15.00 16.00 177.00 Required : 4. Achieved	100% 18% 6% 6% 6% 6% 6% 6% 6% 28% 37% 59% 77% 100% 100% 1 total sur	% 0%6 82%6 94% 94% 94% 94%6 72% 63% 41% 0%6 50% 10 time ( time * a r	min 60 60 60 60 60 60 60 60 60 60 area (hr) ars) @ 50 ars)	m2 0 29 33 33 33 33 33 25 22 14 4 0 0	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,323 861 483 210 0 2 9.000 8.55 17955	m2	Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 15.00 16.00 17.00 Required Achieve Achieved	Shadow % / 100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 1100% 11	94% 94% 94% 94% 94% 94% 94% 10% 63% 10% 0% s @ 50% urs on (fun time (I	min 60 60 60 60 60 60 60 60 60 60 area (hr) nrs) @ 50 nrs)	m2 0 2 33 33 33 33 33 35 25 22 14 4 0 0	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,512 861 483 210 0 2 8.00 7.78 16338	time * area min*m2
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7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	100% 69% 69% 69% 69% 69% 69% 69% 69% 69% 69	% 0% 82% 94% 94% 94% 10% 82% 8 Sunlight % 94% 82% 94% 41% 63% 8 Sunlight % 63% 63% 63% 63% 63% 63% 63% 63% 63% 6	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 29 33 33 33 33 33 33 33 35 25 22 2 4	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 8611 483 210 0 2,800 2,800 2,820 2,820 2,820 2,820 2,820 2,820 2,820 300 300	m2	Time 24 Hr 6.00 10.00 11.00 12.00 12.00 13.00 10.00 11.00 12.00 13.00 17.00 19.00 17.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19	Shadow %. 100% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0 % 0 % 5 % 5 % 5 % 5 % 5 % 5 % 5 % 5 %	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 2 2 2 4 6 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,512 1,323 861 483 210 0 2 8.00 7.78 16338  March 21st time * area min*m2 0 150 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 300	time * area min*m2 0 -1,617 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	100% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	% 0% 82% 94% 94% 94% 10% 82% 8 Sunlight time * ar	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 29 33 33 33 33 33 33 33 35 5 5 22 24 4 0 0	min*m2 0 1,722 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,323 861 483 210 0 2,800 8.55 17955 50 60 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,	m2	Time 24 Hr 6.00 9.00 10.00 11.00 12.00 13.00 14.00 12.00 13.00 10.00 17.00 18.00 19.00 17.00 18.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.	Shadow % 6 100% 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 %	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	time * area min*m2 0 105 1,974 1,974 1,974 1,974 1,974 1,974 1,974 1,571 1,323 861 483 210 0 2 8.00 7.78 16338  March 21st time * area min*m2 0 150 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 2,820 690	time * area min*m2



5 Existin	G STATU	3			March 21st	NEW ST	ATUS				March 21st	char
Time	Shadow S		un time	Sun area	time * area	Time	Shadow	Sunlight	Sun time	Sun area	time * area	time * a
24 Hr	%/9	16	min	m2	min*m2	24 Hr	% .	r %	min	m2	min*m2	min*
.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0	
.00	18%	82%	60	41	2,460	7.00	95%	5%	60	3	150	-2,3
.00	6%	94%	60	47	2,820	8.00	6%	94%	60	47	2,820	
.00	6%	94%	60	47	2,820	9.00	6%	94%	60	47	2,820	
0.00	6%	94%	60	47	2,820	10.00	6%	94%	60	47	2,820	
				47						47		
1.00	6%	94%	60		2,820	11.00	6%	94%	60		2,820	
2.00	6%	94%	60	47	2,820	12.00	6%	94%	60	47	2,820	
3.00	6%	94%	60	47	2,820	13.00	6%	94%	60	47	2,820	
4.00	28%	72%	60	36	2,160	14.00	28%	72%	60	36	2,160	
5.00	37%	63%	60	32	1,890	15.00	37%	63%	60	32	1,890	
6.00	59%	41%	60	21	1,230	16.00	59%	41%	60	21	1,230	
7.00	77%	23%	60	12	690	17.00	77%	23%	60	12	690	
8.00	90%	10%	60	5	300	18.00	90%	10%	60	5	300	
9.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0	
equired	sun hours (	@ 50% are	ea (hr)		2 9.00	Required	sun hours	@ 50% i			2 8.00	
	d total sun daily sun t				8.55 25650		d total su I daily sun	,	,		7.78 23340	0.
6					<b>250</b> m							
	G STATU				March 21st	NEW ST					March 21st	cha
ime	Shadow S			Sun area	time * area	Time		Sunlight		Sun area	time * area	time * a
4 Hr	%/9	%	min	m2	min*m2	24 Hr	%	· %	min	m2	min*m2	min*
.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0	
.00	96%	4%	60	10	600	7.00	96%	4%	60	10	600	
.00	84%	16%	60	40	2,400	8.00	84%	16%	60	40	2,400	
00	29%	71%	60	178	10,650	9.00	29%	71%	60	178	10,650	
0.00	21%	79%	60	198	11,850	10.00	21%	79%	60	198	11,850	
1.00	14%	86%	60	215	12,900	11.00	14%	86%	60	215	12,900	
2.00	13%	87%	60	218	13,050	12.00	13%	87%	60	218	13,050	
3.00	16%	84%	60	210	12,600	13.00	16%	84%	60	210	12,600	
4.00	18%	82%	60	205	12,300	14.00	18%	82%	60	205	12,300	
5.00	18%	82%	60	205	12,300	15.00	18%	82%	60	205	12,300	
6.00	38%	62%	60	155	9,300	16.00	38%	62%	60	155	9,300	
7.00	69%	31%	60	78	4,650	17.00	69%	31%	60	78	4,650	
8.00	89%	11%	60	28	1,650	18.00	89%	11%	60	28	1,650	
9.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0	
chieved chieved	d sun hou d total sun	time (hrs	0 50	% area	8.00 6.95		d total su	n time (h	ırs)	% area	8.00 6.95	
Achieved Achieved	d sun hou	time (hrs	0 50	% area	6.95 104250	Achieved Achieved		n time (h	ırs)	% area		1.
chieved chieved	d sun hour d total sun daily sun t	time (hrs	0 50	% area	6.95 104250	Achieved Achieved	d total su d daily sun	n time (h	ırs)	% area	6.95 104250	1
chieved chieved chieved	d sun hour d total sun daily sun t	time (hrs	s) @ 50°		6.95 104250 <b>85</b> m March 21st	Achieved Achieved	d total su d daily sun	n time (h time * ar	ea		6.95 104250 March 21st	1 cha
chieved chieved 7 XISTIN	d sun hour d total sun daily sun t G STATUS Shadow S	time (hrs ime * area	(s) @ 50°(s)	Sun area	6.95 104250 <b>85</b> m March 21st time * area	Achieve Achieved 2 NEW ST	d total su d daily sun ATUS Shadow	n time (h time * ar Sunlight	sun time	Sun area	6.95 104250 March 21st time * area	cha
chieved chieved chieved 7 XISTIN me	d sun hour d total sun daily sun t G STATUS Shadow S % / 9	time (hrs ime * area  S Sunlight Si	s) @ 50°s)	Sun area m2	6.95 104250 <b>85</b> m March 21st time * area min*m2	Achieved  Achieved  NEW S1  Time 24 Hr	d total su d daily sun fATUS Shadow %	n time (h time * ar Sunlight	sun time	Sun area m2	6.95 104250 March 21st time * area min*m2	cha
chieved chieved chieved 7 XISTIN ime 4 Hr	d sun hour d total sun daily sun t G STATUS Shadow S % / 9	time (hrs ime * area  S Sunlight Si 6 0%	un time min 60	Sun area m2	6.95 104250 85 m March 21st time * area min*m2	Achieved  Achieved  NEW ST  Time  24 Hr  6.00	d total sund daily sun	n time (f time * ar Sunlight	Sun time	Sun area m2	6.95 104250 March 21st time * area min*m2	cha time * ;
chieved chieved chieved 7 XISTIN ime 4 Hr .00	d sun hour d total sun daily sun t G STATUS Shadow S % / 9 100% 96%	time (hrs ime * area s Sunlight St %	un time min 60	Sun area m2 0	6.95 104250 85 m March 21st time * area min*m2 0 204	Achieved Achieved  NEW ST Time 24 Hr 6.00 7.00	d total sud daily sund	n time (f time * ar Sunlight %	Sun time min 60 60	Sun area m2 0 3	6.95 104250 March 21st time * area min*m2 0 204	cha time * ;
chieved chieved chieved 7 XISTIN me 4 Hr 00 00	d sun hour d total sun daily sun t G STATUS Shadow S % / 9 100% 96% 86%	time (hrs ime * area  S Sunlight Si % 0% 4% 14%	un time min 60 60	Sun area m2 0 3 12	6.95 104250 <b>85</b> m March 21st time * area min*m2 0 204 714	Achieved  Achieved  NEW ST  Time 24 Hr 6.00 7.00 8.00	d total sud daily sund	n time (f time * ar Sunlight % 0% 4% 14%	Sun time min 60 60 60	Sun area m2 0 3 12	6.95 104250 March 21st time * area min*m2 0 204 714	cha time * ;
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77  KISTIN  B Hr  00  00  00  00  00  00  00  00  00	d sun hour total sun daily sun t daily sun t daily sun t shadow s % / 5 100% 86% 86% 86% 86% 48% 48% 48% 48% 48% 48% 48% 48% 48% 48	time (hrs me * area me * a	un time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 12 12 18 36 44 44 44 45 59 7 0 0 64 47 18 8 33 39 42 2 42 42 48 8 55 55 49 0 0	6.95 104250  85 m March 21st time * area min*m2 0 204 1,071 2,142 2,652 2,652 2,652 2,652 3,060 3,264 3,519 408 0 2 7.00 4.9 24990  80 m March 21st time * area min*m2 0 2496 1,056 2,352 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,800 0 0	Achieved  2 NEW S1 Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 Required Achieved Achieved Achieved  2 NEW S1 Time 24 Hr 6.00 7.00 8.00 10.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.0	CATUS  Shadow %. 100% 96% 79% 48% 48% 40% 31% 95% 78% 48% 40% 31% 48% 48% 40% 59% 59% 59% 59% 59% 59% 59% 59% 59% 59	n time (t time * ar	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 3 3 12 12 18 36 44 44 44 44 45 59 7 0 0 6 44 18 33 39 42 42 42 42 42 42 42 42 42 49 0 0	6.95 104250  March 21st time * area min*m2 0 2044 1,071 2,142 2,652 2,652 2,652 2,652 3,060 0 2 2 408 0 2 7.00 4.9 24990  March 21st time * area min*m2 0 240 1,056 1,968 2,352 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,496 2,3312 2,928 0	cha time * min
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9 Xistin	G STATUS	3			March 21st	NEW ST	ATUS				March 21st
me	Shadow S		un time	Sun area	time * area	Time		Sunlight	Sun time	Sun area	time * area
4 Hr	%/9	6	min	m2	min*m2	24 Hr	% /	/ %	min	m2	min*m2
.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0
.00	95%	5%	60	7	420	7.00	95%	5%	60	7	420
3.00	96%	4%	60	6	336	8.00	96%	4%	60	6	336
9.00	67%	33%	60	46	2,772	9.00	67%	33%	60	46	2,772
10.00	45%	55%	60	77	4,620	10.00	45%	55%	60	77	4,620
11.00	45%	55%	60	77	4,620	11.00	45%	55%	60	77	4,620
12.00	28%	72%	60	101	6,048	12.00	28%	72%	60	101	6,048
13.00	28%	72%	60	101	6,048	13.00	28%	72%	60	101	6,048
14.00	43%	57%	60	80	4,788	14.00	43%	57%	60	80	4,788
15.00	49%	51%	60	71	4,284	15.00	49%	51%	60	71	4,284
16.00	51%	49%	60	69	4,116	16.00	51%	49%	60	69	4,116
17.00	49%	51%	60	71	4,284	17.00	49%	51%	60	71	4,284
18.00	55%	45%	60	63	3,780	18.00	55%	45%	60	63	3,780
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0
Achieved Achieved	sun hours ( d sun hour d total sun daily sun t	s on (hrs time (hrs	s) @ 50 <sup>4</sup> s)	% area	7.00 5.49 46116	Achieve Achieve	sun hours d sun ho d total su I daily sun	urs on (h ın time (h	rs) @ 50 ırs)	% area	7.00 5.49 46116
10					1E0 a	a					
10 Xistin	G STATUS	3			150 n March 21st	NEW ST	ATUS				March 21st
ime	Shadow S		un time	Sun area	time * area	Time		Sunlight	Sun time	Sun area	time * area
24 Hr	% / 9		min	m2	min*m2	24 Hr	% /	-	min	m2	min*m2
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0
7.00	95%	5%	60	8	450	7.00	95%	5%	60	8	450
3.00	31%	69%	60	104	6.210	8.00	31%	69%	60	104	6.210
9.00	38%	62%	60	93	5,580	9.00	38%	62%	60	93	5.580
0.00	37%	63%	60	95	5,670	10.00	37%	63%	60	95	5,670
11.00	37%	63%	60	95	5,670	11.00	37%	63%	60	95	5,670
			60								
12.00	38%	62%		93	5,580	12.00	38%	62%	60	93	5,580
3.00	38%	62%	60	93	5,580	13.00	38%	62%	60	93	5,580
14.00	40%	60%	60	90	5,400	14.00	40%	60%	60	90	5,400
15.00	35%	65%	60	98	5,850	15.00	35%	65%	60	98	5,850
16.00	30%	70%	60	105	6,300	16.00	34%	66%	60	99	5,940
17.00	25%	75%	60	113	6,750	17.00	31%	69%	60	104	6,210
18.00	25%	75%	60	113	6,750	18.00	36%	64%	60	96	5,760
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0
Achieved Achieved	d sun hour d total sun	time (hr	s)	% area	11.00 7.31	Achieve	d sun ho d total su	ın time (h	irs)	% area	7.1
Achieved Achieved	d sun hour	time (hr	s)	% area	7.31 65790	Achieved Achieved		ın time (h	irs)	% area	
Achieved Achieved Achieved	d sun hour d total sun daily sun ti	time (hrs	s)		7.31 65790 130 m	Achieve Achieved	d total su I daily sun	in time (h time * an	irs) ea		7.1 63900 March 21st
Achieved Achieved Achieved 11 EXISTIN	d sun hour d total sun daily sun ti G STATUS Shadow S	time (hrs me * area	un time	Sun area	7.31 65790 <b>130</b> m March 21st time * area	Achieve Achieved	d total su I daily sun ATUS Shadow	in time (h time * an Sunlight	sun time	Sun area	7.1 63900 March 21st time * area
Achieved Achieved Achieved Achieved Achieved SXISTIN	d sun hour d total sun daily sun ti G STATUS Shadow S % / 9	time (hrs me * area	un time	Sun area m2	7.31 65790 130 n March 21st time * area min*m2	Achieved Achieved 12 NEW S1 Time 24 Hr	d total su I daily sun ATUS Shadow %	n time (h time * an Sunlight	Sun time	Sun area m2	7.1 63900 March 21st time * area min*m2
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13 Existin	G STATU	S			170 March 21st	NEW ST	TATUS				March 21st	cha
ime	Shadow	Sunlight S	un time	Sun area	time * area	Time	Shadow	Sunlight	Sun time	Sun area	time * area	time *
4 Hr	% / 9		min	m2	min*m2	24 Hr	% /		min	m2	min*m2	min
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0	
7.00	96%	4%	60	7	408	7.00	96%	4%	60	7	408	
3.00	96%	4%	60	7	408	8.00	96%	4%	60	7	408	
9.00	84%	16%	60	27	1,632	9.00	84%	16%	60	27	1,632	
10.00	84%	16%	60	27	1,632	10.00	84%	16%	60	27	1,632	
11.00	53%	47%	60	80	4,794	11.00	53%	47%	60	80	4,794	
12.00	13%	87%	60	148	8,874	12.00	13%	87%	60	148	8,874	
13.00	9%	91%	60	155	9,282	13.00	9%	91%	60	155	9,282	
14.00	4%	96%	60	163	9,792	14.00	4%	96%	60	163	9,792	
15.00	4%	96%	60	163	9,792	15.00	4%	96%	60	163	9,792	
16.00	4%	96%	60	163	9,792	16.00	15%	85%	60	145	8,670	-1,
17.00	4%	96%	60	163	9,792	17.00	65%	35%	60	60	3,570	-6,
18.00	18%	82%	60	139	8,364	18.00	89%	11%	60	19	1,122	-7,
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0	.,
Achieve	sun hours d sun hou d total sur	rs on (hrs	s) @ 509	% area	7.00 7.31	Achieve	sun hours d sun ho d total su	urs on (h	rs) @ 50	% area	2 5.00 5.88	(
	daily sun t		,		74562		d daily sun	,	,		59976	(
14	IO 071-	•			180						M- 1 -:	
	G STATU		un tim-	Cup a	March 21st	NEW ST		Qualichi	Sup tier-	Cron	March 21st time * area	ch time *
Time	Shadow :	-		Sun area	time * area	Time		Sunlight		Sun area		time *
24 Hr	% / 1		min	m2	min*m2	24 Hr	% /		min	m2	min*m2	mir
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0	
7.00	95%	5%	60	9	540	7.00	95%	5%	60	9	540	
8.00	95%	5%	60	9	540	8.00	95%	5%	60	9	540	
9.00	95%	5%	60	9	540	9.00	95%	5%	60	9	540	
10.00	87%	13%	60	23	1,404	10.00	87%	13%	60	23	1,404	
11.00	71%	29%	60	52	3,132	11.00	71%	29%	60	52	3,132	
12.00	54%	46%	60	83	4,968	12.00	54%	46%	60	83	4,968	
13.00	17%	83%	60	149	8,964	13.00	17%	83%	60	149	8,964	
14.00	16%	84%	60	151	9,072	14.00	16%	84%	60	151	9,072	
15.00	8%	92%	60	166	9,936	15.00	8%	92%	60	166	9,936	
16.00	8%	92%	60	166	9,936	16.00	8%	92%	60	166	9,936	
17.00	8%	92%	60	166	9,936	17.00	39%	61%	60	110	6,588	-3,
18.00	19%	81%	60	146	8,748	18.00	92%	8%	60	14	864	-7,
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0	
Achieve	d total sur I daily sun t		s)	o ur cu	6.00 6.27 67716	Achieve	d sun ho d total su I daily sun	n time (h	irs)	70 di Ga	5.00 5.23 56484	
Achieve Achieved	daily sun t	ime * area	s)	o ur cu	6.27 67716 <b>170</b>	Achieve Achieved	d total su d daily sun	n time (h	irs)	70 di ca	5.23 56484	(
Achieve Achieved 15 EXISTIN	daily sun t	ime * area	s)	Sun area	6.27 67716	Achieve Achieve	d total su d daily sun	n time (h	irs) ea	Sun area	5.23	ch
Achieved Achieved 15 EXISTIN	G STATU	ime * area	s)	Sun area	6.27 67716 <b>170</b> March 21st	Achieved Achieved m2 NEW S1 Time	d total su d daily sun fATUS Shadow	n time (h time * an Sunlight	irs) ea	Sun area	5.23 56484 March 21st	ch:
Achieved Achieved 15 EXISTIN Time 24 Hr	IG STATU Shadow :	ime * area  S Sunlight S	un time	Sun area m2	6.27 67716 170 March 21st time * area min*m2	Achieved Achieved m2 NEW ST Time 24 Hr	d total su d daily sun fATUS Shadow %	n time (h time * an Sunlight	Sun time	Sun area m2	5.23 56484 March 21st time * area min*m2	ch:
Achieved Achieved 15 EXISTIN Time 24 Hr 6.00	IG STATU Shadow : 100%	s Sunlight S 0%	un time min 60	Sun area m2	6.27 67716 170 March 21st time * area min*m2	M2 NEW S1 Time 24 Hr 6.00	d total sud daily sund daily sund total sud daily sund total sudden to total s	n time (h time * an Sunlight %	Sun time	Sun area m2	5.23 56484 March 21st time * area min*m2	ch:
Achieve Achieved 15 EXISTIN Time 24 Hr 6.00	IG STATU Shadow : % / ' 100% 84%	s Sunlight S % 0% 16%	un time min 60	Sun area m2 0 27	6.27 67716 170 March 21st time * area min*m2 0 1,632	M2 NEW S1 Time 24 Hr 6.00 7.00	d total sud daily sund daily sund half total sund daily sund half to the following sund half to the fo	n time (h time * an Sunlight % 0% 16%	Sun time min 60 60	Sun area m2 0 27	5.23 56484 March 21st time * area min*m2 0 1,632	ch:
Achieve Achieved 15 EXISTIN Time 24 Hr 6.00 7.00	G STATU Shadow: 9/1100% 84% 80%	\$ SS Sunlight SS 0% 0% 16% 20%	un time min 60 60	Sun area m2 0 27 34	6.27 67716 170 March 21st time * area min*m2 0 1,632 2,040	M2 NEW S1 Time 24 Hr 6.00 7.00 8.00	d total sund daily sun	n time (h time * an Sunlight % 0% 16% 20%	Sun time min 60 60 60	Sun area m2 0 27 34	5.23 56484 March 21st time * area min*m2 0 1,632 2,040	ch:
Achieve Achieved 15 EXISTIN Time 24 Hr 6.00 7.00 8.00 9.00	G STATU Shadow :	\$ Sunlight S % 0% 16% 20% 16%	un time min 60 60 60 60	Sun area m2 0 27 34 27	6.27 67716 170 March 21st time * area min*m2 0 1,632 2,040 1,632	M2  NEW S1  Time 24 Hr 6.00 7.00 8.00 9.00	TATUS Shadow %6 100% 84% 80% 84%	n time (h time * an Sunlight % 0% 16% 16%	Sun time min 60 60 60 60	Sun area m2 0 27 34 27	5.23 56484 March 21st time * area min*m2 0 1,632 2,040 1,632	ch:
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14.00 15.00 16.00 17.00 18.00 19.00 10.00 11.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 17.00 18.00 17.00 18.00 17.00 18.00 19.00 18.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 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0 277 344 411 353 544 533 544 444 444 444 444 444 444	5.23 56484  March 21st time * area min*m2 0 1,632 2,040 1,632 2,040 2,448 3,162 3,264 4,590 5,406 6,120 8,058 510 0 2 3.00 4,01 40902  March 21st time * area min*m2 0 450 6,930 4,230 3,150 3,240 3,150 3,240 3,150 3,261 2,790 2,610 2,610 2,610 2,610 2,610 2,610 2,790 0 1	ch time * min
15	daily sun the da	ime * area  \$ \$ \$ S Sunlight S 6 6 6 7 7 7 7 7 8 Sunlight S 7 7 7 7 8 Sunlight S 8 Sunlight S 8 Sunlight S 8 Sunlight S 7 8 Sunlight S 8 Sunlight S 7 8 Sunlight S 8	un time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 0 277 344 411 53 3 544 771 53 544 711 53 544 711 53 544 711 53 544 711 53 544 711 53 544 711 53 544 711 53 544 711 553 554 711 655 755 755 755 755 755 755 755 755 755	6.27 67716  170 March 21st time * area min*m2 0 1,632 2,040 1,632 2,040 2,448 3,162 3,264 4,590 5,406 6,120 8,058 7,548 0 2 4,00 4,7 47940  150 March 21st time * area min*m2 0 450 6,930 4,230 3,150 3,240 3,150 3,260 2,790 2,610 5,580 7,380 0	m2  NEW S1  Time 24 Hr 6.00 7.00 8.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 Required Achieved	tatus  Shadow %, 100% 84% 80% 84% 80% 84% 80% 66% 66% 66% 66% 66% 66% 66% 66% 66% 6	n time (h time * an in time (h	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 0 277 344 411 353 544 533 544 444 444 444 444 444 444	5.23 56484  March 21st time * area min*m2 0 1.632 2,040 1.632 2,040 3,162 3,264 4,590 5,406 6,120 8,058 510 0 2 3.00 4,01 40902  March 21st time * area min*m2 0 450 6,930 4,230 3,150 3,240 3,150 3,240 3,150 3,060 2,790 2,610 2,610 5,580 990 0	ch time * min



17 Existin	G STATU				March 21st	NEW S	STATUS				March 21st
ime	Shadow S			Sun area	time * area	Time	Shadow			Sun area	time * area
4 Hr	% / 9		min	m2	min*m2	24 Hr		/ %	min	m2	min*m2
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0
7.00	95%	5%	60	10	600	7.00	95%	5%	60	10	600
3.00	22%	78%	60	156	9,360	8.00	22%	78%	60	156	9,360
9.00	23%	77%	60	154	9,240	9.00	23%	77%	60	154	9,240
10.00	34%	66%	60	132	7,920	10.00	34%	66%	60	132	7,920
11.00	46%	54%	60	108	6,480	11.00	46%	54%	60	108	6,480
12.00	45%	55%	60	110	6,600	12.00	45%	55%	60	110	6,600
13.00	53%	47%	60	94	5,640	13.00	53%	47%	60	94	5,640
14.00	66%	34%	60	68	4,080	14.00	66%	34%	60	68	4,080
15.00	70%	30%	60	60	3,600	15.00	70%	30%	60	60	3,600
16.00	78%	22%	60	44	2,640	16.00	78%	22%	60	44	2,640
17.00	85%	15%	60	30	1,800	17.00	85%	15%	60	30	1,800
18.00	87%	13%	60	26	1,560	18.00	96%	4%	60	8	480
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0
	sun hours			0/ 0500	5.00		ed sun hour			M/ oron	5.00
	d sun hou d total sun		,	% агеа	4.96		/ed sun ho /ed total su		,	1% area	4.87
	daily sun t	,	,		59520		ed daily sur	,	,		58440
10					100	m?					
18 Xistin	G STATU:	s			190 March 21st		STATUS				March 21st
ime	Shadow 3		Sun time	Sun area	time * area	Time	Shadow	Sunlight	Sun time	Sun area	time * area
une 24 Hr	% / 9		min	m2	min*m2	24 Hr		/ %	min	m2	min*m2
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0
7.00	72%	28%	60	53	3.192	7.00	72%	28%	60	53	3,192
3.00	26%	74%	60	141	8,436	8.00	26%	74%	60	141	8,436
9.00	19%	81%	60	154	9,234	9.00	19%	81%	60	154	9,234
0.00	24%	76%	60	144	8,664	10.00	24%	76%	60	144	8,664
11.00	29%	71%	60	135	8,004	11.00	29%	71%	60	135	8,094
12.00	47%	53%	60	101	6,042	12.00	47%	53%	60	101	6.042
13.00	67%	33%	60	63	3,762	13.00	67%	33%	60	63	3,762
14.00	65%	35%	60	67	3,990	14.00	65%	35%	60	67	3,762
5.00	70%	30%	60	57	3,420	15.00	70%	30%	60	57	3,420
			60	10					60	10	
16.00	95% 96%	5%	60	10	570 456	16.00	95%	5% 4%	60	10	570 456
17.00	96%	4%	60	6	45b 342	17.00	96%		60	6	342
18.00	100%	3% 0%	60	0	342	18.00 19.00	97%	3% 0%	60	0	342
	10070	U70	00	U	0	19.00	10070	U70	- 00	U	U
Required	sun hours	ന 50% s	rea (hr)		2	Require	ed sun hour	c @ 50% :	area (hr)		2
	d sun hou			0/- araa	5.00				rs) @ 50	1% area	5.00
	J Juli IIOu										
	d total cun		,	70 di 6d					,		
Achieve	total sun	time (h	rs)	70 di 6d	4.93	Achiev	ved total su	ın time (h	irs)		4.93
Achieve	d total sun daily sun t	time (h	rs)	70 di ed		Achiev		ın time (h	irs)		
Achieve		time (h	rs)	70 di ed	4.93	Achiev	ved total su	ın time (h	irs)		4.93
Achieve Achieved		time (h	rs)	70 al ea	4.93 56202	Achiev Achiev	ved total su	ın time (h	irs)		4.93
Achieve Achieved		time (h ime * an	rs)	70 di ed	4.93	Achiev Achiev m2	ved total su ed daily sur	ın time (h	irs)		4.93
Achieve Achieved	daily sun t	time (h ime * an	rs) ea	Sun area	4.93 56202 <b>200</b>	Achiev Achiev m2	ved total su ed daily sur STATUS	ın time (h	nrs) ea	Sun area	4.93 56202
Achieve Achieved 19 EXISTIN	daily sun t	time (h ime * an s Sunlight	rs) ea		4.93 56202 <b>200</b> March 21st	Achiev Achiev m2	ved total su ed daily sur STATUS	un time (h i time * ar Sunlight	nrs) ea	Sun area m2	4.93 56202 March 21st
Achieved Achieved 19 EXISTIN Time	G STATUS	time (h ime * an s Sunlight	rs) ea Sun time	Sun area	4.93 56202 200 March 21st time * area	Achiev Achiev  M2  NEW 5	ved total su ed daily sur STATUS Shadow	un time (h i time * ar Sunlight	nrs) ea Sun time		4.93 56202 March 21st time * area
Achieved Achieved 19 EXISTIN Time 24 Hr	G STATUS Shadow S	time (h ime * an S Sunlight	rs) ea Sun time min	Sun area m2	4.93 56202 200 March 21st time * area min*m2	Achiev Achiev m2 NEW \$ Time 24 Hr	ved total su ed daily sur STATUS Shadow %	un time (f time * ar Sunlight / %	sun time	m2	4.93 56202 March 21st time * area min*m2
19 EXISTIN ime 4 Hr i.00	G STATU: Shadow S % / S 100%	time (h ime * an  S Sunlight  6	sun time	Sun area m2 0	4.93 56202 200 March 21st time * area min*m2 0	Achiev  M2  NEW S  Time 24 Hr  6.00	ved total sued daily sur	un time (I time * ar Sunlight / %	Sun time	m2 0	4.93 56202 March 21st time * area min*m2
19 EXISTIN Time 14 Hr 1.00 1.00	G STATU: Shadow S 100% 80% 17%	time (h ime * an  S Sunlight  6 0% 20% 83%	Sun time min 60 60 60	Sun area m2 0 40	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960	M2 NEW STIME 24 Hr 6.00 7.00 8.00	ed total sued daily sured daily sured total sured daily sured total sured daily sured total sured tota	Sunlight / % 20% 83%	Sun time min 60 60 60	m2 0 40 166	4.93 56202 March 21st time * area min*m2 0 2,400 9,960
19 XISTIN ime 4 Hr .00 .00	G STATU: Shadow S 96 / 9 100% 80% 17% 4%	time (h ime * and S Sunlight % 0% 20% 83% 96%	Sun time min 60 60 60 60	Sun area m2 0 40 166 192	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520	Achiev  M2  NEW 3  Time 24 Hr 6.00 7.00 8.00 9.00	ed total sued daily sur  STATUS Shadow % 100% 80% 17% 4%	Sunlight / % 20% 83% 96%	Sun time min 60 60 60 60	m2 0 40 166 192	4.93 56202 March 21st time * area min*m2 0 2,400 9,960 11,520
19 XISTIN ime 4 Hr .00 .00 .00	G STATU: Shadow S % / 9 100% 80% 17% 4% 4%	time (h ime * and S Sunlight % 0% 20% 83% 96% 96%	Sun time min 60 60 60 60 60	Sun area m2 0 40 166 192	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520	M2 NEW S Time 24 Hr 6.00 7.00 8.00 9.00 10.00	status Shadow 6 100% 8 100% 8 4% 9 4%	Sunlight / %  20% 83% 96%	Sun time min 60 60 60 60 60	m2 0 40 166 192 192	4.93 56202 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520
19 XISTIN ime 4 Hr .00 .00 .00 .00	G STATU: Shadow S % / S 100% 80% 17% 4% 4% 6%	time (h ime * and S Sunlight % 0% 20% 83% 96% 96% 94%	Sun time min 60 60 60 60 60 60	Sun area m2 0 40 166 192 192	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520 11,280	Achiev  m2  NEW S  Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00	red total sued daily surred dai	Sunlight / %  0% 20% 83% 96% 96% 94%	Sun time min 60 60 60 60 60 60	m2 0 40 166 192 192	4.93 56202 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520 11,280
19 XISTIN ime 4 Hr .00 .00 .00 .00 .00 .00	G STATU: Shadow 5 % / 5 100% 80% 17% 4% 4% 6% 8%	time (h ime * and S Sunlight % 0% 20% 83% 96% 96% 94% 92%	Sun time min 60 60 60 60 60 60 60 60 60	Sun area m2 0 40 166 192 192 188	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520 11,280 11,040	Achiev  MEW 3  Time 24 Hr 6.00 7.00 8.00 9.00 11.00 12.00	red total sued daily surred dai	Sunlight / %	Sun time min 60 60 60 60 60 60 60 60	m2 0 40 166 192 192 188 184	4.93 56202 March 21st time * area min*m2 0 2,400 11,520 11,520 11,280 11,040
19 XXSTIN ime 4 Hr0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000	G STATU: Shadow S 96 / 9 100% 80% 17% 4% 4% 6% 8% 14%	time (h ime * and S Sunlight % 0% 20% 83% 96% 96% 94% 92% 86%	Sun time min 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 40 166 192 192 188 184	4.93 56202 200 March 21st time * area min*m2 0 2,400 11,520 11,520 11,280 11,040 10,320	m2 NEW 3 Time 24 Hr 6.00 8.00 9.00 10.00 12.00 13.00	red total sued daily sured dai	Sunlight / %	Sun time min 60 60 60 60 60 60 60 60 60 60	m2 0 40 166 192 192 188 184	4.93 56202 March 21st time * area min*m2 0 2.400 9,960 11,520 11,520 11,280 11,040
19 XXISTIN 100 100 100 100 100 100 100 10	G STATU: Shadow S % / 5 100% 80% 17% 4% 4% 6% 8% 14% 23%	time (hime * and see * and	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 40 166 192 192 188 184 172	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,280 11,280 11,290 11,320 9,240	m2 NEW 3 Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00	red total sued daily sured dai	Sunlight / %  Sunlight / %  20%  83%  96%  94%  92%  86%  77%	Sun time min 60 60 60 60 60 60 60 60 60 60	m2 0 40 166 192 192 188 184 172	4.93 56202 March 21st time * area min*m2 0 2,400 9,960 11,520 11,280 11,280 11,040 10,320 9,240
19 19 18 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	G STATU: Shadow 3 % / 9 100% 80% 17% 4% 6% 8% 14% 23% 68%	time (h) time (h) time * are series (h) time	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 40 166 192 192 188 184 172 154	4.93 56202 200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,280 11,280 11,280 11,280 3,840	m2  NEW S  Time 24 Hr 6.00 7.00 8.00 9.00 11.00 12.00 13.00 14.00 15.00	ved total sued daily surved dai	Sunlight / %  20% 83% 96% 94% 92% 86% 77% 32%	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 40 166 192 192 188 184 172 154 64	4.93 56202 March 21st time * area min*m2 0 2.4400 11,520 11,520 11,280 11,040 10,320 9,240 3,840
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19 (XXISTIN Inc.) 100 (Achieve Achieve	G STATU: Shadow S 6 STATU: 100% 80% 17% 80% 49% 49% 49% 68% 68% 68% 68% 64% 60% 100% 68% 64% 64% 64% 64% 64% 64% 64% 64% 64% 64	time (hime * and time (hime * and time (hime * and time * and time * and time * and time (hime	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 400 400 400 400 400 400 400 400 400	4.93 56202  200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,280 9,240 0 2,400 11,400 10,320 9,240 0 2,000 0 2,000 March 21st time * area min*m2 0 480 0 2,000 March 21st time * area min*m2 0,480 0,000 1,480 10,260 11,400 11,520 11,520	m2  NEW 3  Time 24 Hr 6.00 7.00 10.00 11.00 15.00 16.00 17.00 18.00 19.00 19.00 19.00  NEW 3  Time 24 Hr 6.00 7.00 10.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00	### REPRIES OF TRANSPORT OF TRA	In time (titime) to time (titime) and time (titime) and time and titime and t	Sun time min	m2 0 40 40 166 192 192 188 184 172 154 64 32 8 8 0 0 % area  Sun area m2 0 8 10 54 158 170 174 176 190 192 194 104 12	4.93 56202  March 21st time * area min*m2 0 2.4000 11,520 11,520 11,520 11,280 0 11,040 1,920 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 0 0 2 7,00 0 11,480 0 10,260 11,480 10,260 11,480 11,520 11,520
19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	G STATU:  Shadow 1  % / 5  100% 80% 100% 80% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	time (hime * and time (hime * and time )    S Sunlight    0%	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 400 6166 1922 1922 188 8 8 0 0 8 area m2 10 10 14 15 15 15 15 15 15 15 15 15 15 15 15 15	4.93 56202  200 March 21st time * area min*m2 0 2,400 11,520 11,520 11,520 11,520 11,520 11,820 480 0 2,700 7 84000  200 March 21st time * area min*m2 0 480 600 3,240 9,480 10,200 11,400 11,520 11,520 6,240	m2  NEW 3  NEW 3  Time 24 Hr 6,000 7,000 10,000 11,000 12,000 13,000 14,000 15,000 18,000 19,000 10,000 11,000 11,000 11,000 10,000 10,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,	## and the properties of the p	In time (the time and time) in time (the time) in time (the time) in time and time a	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 40 40 166 192 192 188 184 172 154 64 432 8 8 0 9% area	4.93 56202  March 21st time * area min*m2 9,960 11,520 11,520 11,520 11,520 11,520 480 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 600 3,240 9,480 10,200 10,440 9,480 11,520 11,520 11,400
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19 XISTIN me 4 Hr 000 000 000 000 000 000 000 000 000	G STATU:  G STATU:  100% 80% 100% 80% 40% 40% 40% 60% 80% 40% 80% 40% 60% 80% 40% 60% 80% 40% 60% 60% 60% 60% 60% 60% 60% 60% 60% 6	time (h time * and tim	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 400 6166 1922 1922 188 8 8 0 0 8 area 8 100 64 158 170 174 175 192 192 192 192 192 192 192 192 192 192	4.93 56202  200 March 21st time * area min*m2 0 2,400 11,520 11,520 11,520 11,520 11,520 11,920 480 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 480 0 2 7.00 10,400 10,500 11,500 11,500 11,500 6,240 0 11,500 0 2 8.00	m2  NEW 3 Time 24 Hr 6,000 7,000 8,000 10,000 11,000 12,000 13,000 14,000 15,000 17,000 18,000 19,000 Require Achiev Achiev Achiev  m2  NEW 3 Time 24 Hr 6,000 7,000 8,000 9,000 11,000 11,000 12,000 13,000 14,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 16,000 17,000 18,000 19,000 18,000 19,000 Require Achiev Achiev	## and the properties of the p	In time (It time * ar	Sun time min	m2 0 40 40 166 192 192 188 184 172 154 64 432 8 8 0 9% area	4.93 56202  March 21st time * area min*m2 0,2,400 11,520 11,520 11,520 11,200 11,000 1,000 1,000 480 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 600 3,240 9,480 10,200 11,500 11,500 11,500 11,500 11,500 11,500 11,500 0 2 8.00
19	G STATU:  100% 80% 100% 80% 17% 46% 49% 49% 49% 49% 49% 49% 49% 49% 49% 49	time (h time 't and time 't an	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	Sun area m2 0 400 6166 1922 1922 188 8 8 0 0 8 area 8 100 64 158 170 174 175 192 192 192 192 192 192 192 192 192 192	4.93 56202  200 March 21st time * area min*m2 0 2,400 9,960 11,520 11,520 11,520 11,200 1,920 480 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 600 3,240 9,480 10,200 10,400 11,520 11,520 11,520 2 0 11,520 2 2	m2  NEW 3 Time 24 Hr 6.00 7.00 10.00 11.00 15.00 16.00 17.00 18.00 18.00 19.00 19.00 19.00 19.00 10.00 11.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 11.00 10.00 11.00 10.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00	## and the control of	In time (titime * armine (titime * armin	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 40 40 166 192 192 188 184 172 154 64 432 8 8 0 9% area	4.93 56202  March 21st time * area min*m2 0 2.400 9.960 11,520 11,520 11,520 11,200 11,040 1,920 480 480 0 2 7.00 7 84000  March 21st time * area min*m2 0 480 600 3.240 9.480 10,200 10,440 9.480 11,520 11,520 11,520 11,520 11,520 0 11,520 0 2

	G STATU	JS			March 21st
	Shadow		Sun time	Sun area	time * area
Hr	% /	-	min	m2	min*m2
10	100%	0%	60	0	0
00	96%	4%			456
10	85%	15%			1,710
00	28%	72%			8,20
.00	26%	74%			8,436
1.00	28%	72%			8,208
2.00	27%	73%			8,322
3.00	27%	73%			8,322
4.00	24%	76%			8,664
5.00	9%	91%			10,374
6.00	4%	96%			10,944
17.00	4%	96%			10,944
18.00	96%	4%			456
Achieved Achieved	sun hours I sun hou I total sur daily sun	urs on (h n time (h	area (hr) hrs) @ 5 hrs)		9.00 7.46 85044
22	G STATU	16			150 March 21st
	Shadow		Sun time	Sun area	time * area
4 Hr	% /		min	m2	min*m2
.00	100%	0%			0
00	89%	11%		17	990
.00	93%	7%			630
.00	96%	4%		6	360
0.00	90%	10%			900
1.00	69%	31%	60	47	2,790
2.00	18%	82%	60	123	7,380
3.00	11%	89%	60	134	8,010
4.00	17%	83%			7,470
15.00	17%	83%			7,470
16.00	17%	83%			7,470
17.00	17%	83%			7,470 1,350
18.00 19.00	85% 100%	15% 0%			0,000
Achieved Achieved	sun hours I sun hou I total sur daily sun	urs on (h n time (h	hrs) @ 5 hrs)	0% area	6.00 5.81 52290
	G STATU				200 March 21st
	Shadow	Sunlight			
24 Hr	% /			Sun area	time * area
6.00	100%		min	Sun area m2	time * area min*m2
7.00	68%	0%	min 60	m2 0	min*m2
8.00		0% 32%	60 60	m2 0 64	min*m2 0 3,840
9.00	48%	0% 32% 52%	60 60 60	m2 0 64 104	min*m2 0 3,840 6,240
	48% 15%	0% 32% 52% 85%	60 60 60 60	m2 0 64 104 170	min*m2 0 3,840 6,240 10,200
	48% 15% 6%	0% 32% 52% 85% 94%	60 60 60 60 60	m2 0 64 104 170 188	min*m2 0 3,840 6,240 10,200 11,280
1.00	48% 15% 6% 6%	0% 32% 52% 85% 94% 94%	min 60 60 60 60 60	m2 0 64 104 170 188	min*m2 0 3,840 6,240 10,200 11,280 11,280
1.00 2.00	48% 15% 6% 6% 6%	0% 32% 52% 85% 94% 94%	min 60 60 60 60 60 60	m2 0 64 104 170 188 188	min*m2 0 3,840 6,240 10,200 11,280 11,280
1.00 2.00 3.00	48% 15% 6% 6% 6% 6%	0% 32% 52% 85% 94% 94% 94%	min 60 60 60 60 60 60 60 60 60	m2 0 64 104 170 188 188 188	min*m2 3,840 6,240 10,200 11,280 11,280 11,280
1.00 2.00 3.00 4.00	48% 15% 6% 6% 6% 6% 6%	0% 32% 52% 85% 94% 94% 94% 94%	min 60 60 60 60 60 60 60 60 60	m2 0 64 104 170 188 188 188	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280
1.00 2.00 3.00 4.00 5.00	48% 15% 6% 6% 6% 6% 6% 9%	0% 32% 52% 85% 94% 94% 94% 94% 94%	600 600 600 600 600 600 600 600 600 600	m2 0 0 64 104 170 188 188 188 188 188 188	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 11,280 10,920
1.00 2.00 3.00 4.00 5.00 6.00	48% 15% 6% 6% 6% 6% 6% 9%	0% 32% 52% 85% 94% 94% 94% 94% 94% 94% 94%	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 182	min*m2 0 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 11,280 10,920 10,920 10,920
11.00 12.00 13.00 14.00 15.00 16.00	48% 15% 6% 6% 6% 6% 6% 9% 9%	0% 32% 52% 85% 94% 94% 94% 94% 91% 86%	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 182 172	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 11,280 10,920 10,920 10,320
11.00 12.00 13.00 14.00 15.00 16.00 17.00	48% 15% 6% 6% 6% 6% 6% 9%	0% 32% 52% 85% 94% 94% 94% 94% 94% 94% 94%	600 600 600 600 600 600 600 600 600 600	m2 0 64 104 170 188 188 188 188 182 182 172 8	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 11,280 11,280 10,920 10,320 480
11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 Required s Achieved	48% 15% 6% 6% 6% 6% 6% 14% 9%	0% 32% 52% 85% 94% 94% 94% 94% 91% 86% 4% 0%	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 64 104 170 188 188 188 182 182 172 8 0	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,920 480 0 2 10,000 9,11
1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 dequired suchieved achieved	48% 15% 6% 6% 6% 6% 9% 9% 14% 96% 100% sun hours	0% 32% 52% 65% 94% 94% 94% 94% 94% 66% 66% 0% 50% 0% 50% on time to time * an analysis of the state of the st	min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 64 104 170 188 188 188 182 182 172 8 0	min*m2 0 3,840 6,240 10,200 11,280
1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 dequired suchieved achieved	48% 15% 6% 6% 6% 6% 9% 14% 96% 100% sun hours I sun hour I total sur daily sun	0% 32% 52% 85% 94% 94% 94% 91% 86% 4% 0% 0% 150% 150% 150% 150% 150% 150% 15	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 172 8 0	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 11,280 0 10,920 10,320 480 0 2 10,000 9,11 109320
11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 Required s Achieved Achieved 24 EXISTING	48% 15% 6% 6% 6% 6% 6% 6% 14% 99% 100% 1 sun hours	0% 32% 52% 65% 94% 94% 94% 94% 0% 65% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 188 188 0 0 0 0 0 0 0	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st
11.00 12.00 13.00 14.00 15.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 17.7.00 18.00 19.00 18.00 19.00 24 4 Hr	48% 15% 6% 6% 6% 6% 6% 6% 14% 14% 15 sun hours daily sun hours Shadow % / 100% 100%	0% 32% 52% 85% 94% 94% 94% 94% 0% 66% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 172 8 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 0
11.00 12.00 13.00 14.00 14.00 14.00 14.00 16.00 17.00 18.00 19.00  24  EXISTING EXACTION EXAC	48% 15% 6% 6% 6% 6% 6% 6% 6% 14% 9% 100% daily sun hours sun house of STATU \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.00% \$1.	0% 32% 55% 94% 94% 94% 91% 86% 4% 0% Urs on († n time t time * ar sunlight f % 0% 65% 65% 65%	min 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 172 8 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 0 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 0 4,680
111.00 112.00 113.00 113.00 114.00 115.00 115.00 115.00 115.00 116.00 117.00 118.00 119.00  24 4Achieved 4Achieved 4Achieved 42 4Hr 116.6.00 177.00 18.00 18.00	48% 15% 6% 6% 6% 6% 6% 6% 9% 14% 6% 100% 100% 100% 100% 100% 100% 100%	0% 32% 52% 65% 94% 94% 94% 91% 91% 15% 16% 16% 16% 16% 16% 16% 16% 16% 16% 16	minimin 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 172 8 0 0% area  Sun area m2 0 78 61	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9.11 109320 March 21st time * area min*m2 0 4,680 3,672
11.00 12.00 13.00 13.00 13.00 15.00 15.00 16.00 17.00 18.00 19.00 19.00 Required s  24 EXISTING Time 24 Hr 66.00 7.7.00 86.00 9.00	48% 15% 6% 6% 6% 6% 6% 6% 10% 5% 100% 6% 100% 5 SATUU 100% 35% 6 STATU 5 Shadow 96 49% 15% 6 STATU 5 Shadow 96 49% 15% 6 STATU 100% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	0% 32% 52% 85% 94% 94% 94% 94% 91% 91% 10 10 10 10 10 10 10 10 10 10 10 10 10 1	minima (60 minima (70	m2 0 644 1044 1700 1888 1888 1888 1882 1722 8 0 0 0 3 area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 0 2 10,920 10,320 480 0 2 10,0920 March 21st time * area min*m2 0 4,680 3,672 6,120
111.00 112.00 13.00 14.00 14.00 14.00 14.00 16.00 16.00 17.00 18.00 19.00 Required sq. Achieved Achieved 24 Hr 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.0	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 94% 94% 94% 94% 94% 94% 10% 86% 86% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10	minimi mi	m2 0 644 1044 170 188 188 188 188 182 172 8 0 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 0 4,680 3,672 6,120 6,768
11.00 12.00 13.00 13.00 14.00 15.00 15.00 16.00 16.00 177.00 18.00 18.00 24 24 24 Hr 66.00 77.00 8.00 10.00 10.00	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 65% 65% 94% 94% 94% 91% 66% 86% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	minimin 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 188 182 172 8 0 0% area  Sun area m2 0 78 61 102 113	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 0 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 0 4,680 3,672 6,768 6,768
111.00 112.00 112.00 114.00 115.00 116.00 116.00 117.00 118.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 100% 6% 100% 6% 100% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 52% 94% 94% 94% 94% 94% 0%  Sunlight % 0% 51% 65% 51% 85% 94% 94% 94%	minimin 600 600 600 600 600 600 600 600 600 60	m2 0 64 104 170 188 188 188 188 182 172 8 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9.11 109320 March 21st time * area min*m2 6 4,680 3,672 6,120 6,768 6,768
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111.00 112.00 112.00 113.00 114.00 115.00 116.00 116.00 117.00 118.00 119.00 118.00 119.00 118.00 119.00 118.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 119.00 11	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 100% 6% 100% 6% 100% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 52% 94% 94% 94% 94% 94% 0%  Sunlight % 0% 51% 65% 51% 85% 94% 94% 94%	minimi ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	m2 0 0 64 104 170 188 188 188 188 188 188 0 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9.11 109320 March 21st time * area min*m2 6 4,680 3,672 6,120 6,768 6,768
11.00 12.00 14.00 14.00 15.00 16.00 16.00 18.00 18.00 19.00 Required s Achieved Achieved Achieved Time Time Time Time Time Time Time Time	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 52% 94% 94% 94% 94% 10% 85% 85% 94% 94% 94% 94% 94% 94% 94%	minimi (600 minimi (700 minimi	m2 0 0 64 104 170 188 188 188 188 188 188 0 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 0 10,920 10,320 480 0 2 10,000 9.11 109320 March 21st time * area min*m2 0 4,680 3,672 6,768 6,768 6,768
Achieved Achieved Achieved 24 EXISTING	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 94% 94% 94% 94% 94% 94% 94% 94% 94% 94	minime	m2 0 64 104 170 188 188 188 188 188 182 172 8 0 0% area  Sun area m2 0 78 61 102 113 113 113 113	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 0 10,920 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 4,680 3,672 6,120 6,768 6,768 6,768 6,768
111.00 12:00 14:00 14:00 15:00 16:00 16:00 16:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 94% 94% 94% 94% 94% 94% 94% 94% 94%	minimi mi	m2 0 0 644 104 170 188 188 188 188 182 172 8 0 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9,111 109320 March 21st time * area min*m2 0 4,680 3,672 6,768 6,768 6,768 6,768 6,768
11.00 12.00 14.00 14.00 15.00 16.00 16.00 18.00 18.00 19.00 18.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00	48% 15% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	0% 32% 52% 94% 94% 94% 94% 950% Wrs on († n time (time * ar 0% 55% 55% 94% 94% 94% 94% 94% 94%	minimi (600 minimi (700 minimi	m2 0 0 644 1044 170 188 188 188 188 182 172 8 0 0 0% area	min*m2 0 3,840 6,240 10,200 11,280 11,280 11,280 11,280 10,920 10,320 480 0 2 10,000 9.11 109320 March 21st time * area min*m2 0 4,680 3,672 6,768 6,768 6,768 6,768 6,768
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25					100						
	NG STATI				March 21st	NEW S					March 21s
Time		Sunlight		Sun area	time * area	Time	Shadow		Sun time	Sun area	time * area
24 Hr	% /		min	m2	min*m2	24 Hr		/ %	min	m2	min*m2
6.00	100%	0%	60	0	0	6.00	100%	0%	60	0	0
7.00	29%	71%	60	71	4,260	7.00	29%	71%	60	71	4,260
8.00	16%	84%	60	84	5,040	8.00	16%	84%	60	84	5,040
9.00	6%	94%	60	94	5,640	9.00	6%	94%	60	94	5,640
10.00	6%	94%	60	94	5,640	10.00	6%	94%	60	94	5,640
11.00	6%	94%	60	94	5,640	11.00	6%	94%	60	94	5,640
12.00	6%	94%	60	94	5,640	12.00	6%	94%	60	94	5,640
13.00	6%	94%	60	94	5,640	13.00	6%		60	94	5,640
14.00	6%	94%	60	94	5,640	14.00	6%		60	94	5,640
15.00	6%	94%	60	94	5,640	15.00	6%		60	94	5,640
16.00	6%	94%	60	94	5,640	16.00	6%		60	94	5,640
17.00	15%	85%	60	85	5,100	17.00	15%	85%	60	85	5,100
18.00	49%	51%	60	51	3,060	18.00	49%	51%	60	51	3,060
19.00	100%	0%	60	0	0	19.00	100%	0%	60	0	0
Poguiro	d sun hours	@ 50%	arna /hr\		2	Poquiro	d sun hour	c @ 5004	arna (hr)		2
	ed sun hoi			0/ 0500	12.00		ed sun ho	-	. ,	0/ 0.000	12.00
	ed sun not ed total su	,	, -	70 al ea	10.43		ed sun no ed total si	,	, -	70 area	10.43
ACHIEVE		,	,					(	- /		
Achieve	d daily sun	time * ar	ea		62580	Achieve	d daily sur	ı time * ar	·ea		62580
26	i		rea		90	m2		ı time * aı	ea		
26	NG STATI	JS		Sun area			TATUS			Sun area	March 21st
26 EXISTII	NG STATU	JS Sunlight	Sun time	Sun area m2	90 March 21st	m2 NEW S	TATUS Shadow	Sunlight	Sun time	Sun area m2	March 21st
<mark>26</mark> Existi	NG STATI	JS Sunlight			90 March 21st time * area	m2 NEW S Time	TATUS Shadow				March 21st time * area
26 EXISTII Time 24 Hr 6.00	NG STATU Shadow % /	JS Sunlight '%	Sun time min 60	m2 0	90 March 21st time * area min*m2	m2 <b>NEW S</b> Time 24 Hr 6.00	TATUS Shadow % 100%	Sunlight / %	Sun time min 60	m2 0	March 21st time * area min*m2
26 EXISTII Time 24 Hr 6.00 7.00	NG STATU Shadow % / 100% 29%	JS Sunlight '% 0% 71%	Sun time min 60	m2 0 64	90 March 21st time * area min*m2 0 3,834	m2  NEW S  Time 24 Hr 6.00 7.00	TATUS Shadow % 100% 29%	Sunlight / % 0% 71%	Sun time min 60 60	m2 0 64	March 21st time * area min*m2 0 3,834
26 EXISTII Time 24 Hr 6.00	NG STATU Shadow % /	JS Sunlight '%	Sun time min 60	m2 0	90 March 21st time * area min*m2	m2 <b>NEW S</b> Time 24 Hr 6.00	TATUS Shadow % 100%	Sunlight / %	Sun time min 60	m2 0	March 21st time * area min*m2
26 EXISTII Time 24 Hr 6.00 7.00 8.00	NG STATU Shadow % / 100% 29% 16%	JS Sunlight '% 0% 71% 84%	Sun time min 60 60 60	m2 0 64 76	90 March 21st time * area min*m2 0 3,834 4,536	m2  NEW S  Time 24 Hr 6.00 7.00 8.00	TATUS Shadow % 100% 29% 16%	Sunlight / %  0%  71%  84%	Sun time min 60 60 60	m2 0 64 76	March 21st time * area min*m2 0 3,834 4,536
26 EXISTII Time 24 Hr 6.00 7.00 8.00 9.00	NG STATU Shadow % / 100% 29% 16% 6%	JS Sunlight 7 % 0% 71% 84% 94%	Sun time min 60 60 60 60	m2 0 64 76 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076	m2  NEW S  Time 24 Hr 6.00 7.00 8.00 9.00	TATUS Shadow % 100% 29% 16% 6%	Sunlight / % 0% 71% 84% 94%	Sun time min 60 60 60 60	m2 0 64 76 85	March 21st time * area min*m2 0 3,834 4,536 5,076
26 EXISTII Time 24 Hr 6.00 7.00 8.00 9.00 10.00	NG STATU Shadow % / 100% 29% 16% 6%	JS Sunlight ' % 0% 71% 84% 94%	Sun time min 60 60 60 60 60	m2 0 64 76 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076	m2  NEW S  Time 24 Hr 6.00 7.00 8.00 9.00 10.00	TATUS Shadow % 100% 29% 16% 6%	Sunlight / %	Sun time min 60 60 60 60 60	m2 0 64 76 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076
26 EXISTII Time 24 Hr 6.00 7.00 8.00 9.00 10.00	Shadow % / 100% 29% 16% 6% 6%	JS Sunlight ' % 0% 71% 84% 94% 94%	Sun time min 60 60 60 60 60 60	m2 0 64 76 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076	m2 NEW S Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00	TATUS Shadow % 100% 29% 16% 6% 6%	Sunlight / %  0%  71%  84%  94%  94%  94%  94%	Sun time min 60 60 60 60 60 60	m2 0 64 76 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076
26 EXISTII Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00	NG STATU Shadow % / 100% 29% 16% 6% 6% 6% 6% 6%	US Sunlight ' %  0%  71%  84%  94%  94%  94%  94%	Sun time min 60 60 60 60 60 60 60	m2 0 64 76 85 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076	m2  NEW S Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00	TATUS Shadow % 100% 29% 16% 6% 6% 6%	Sunlight / %  0%  71%  84%  94%  94%  94%  94%	Sun time min 60 60 60 60 60 60 60	m2 0 64 76 85 85 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076
26 EXISTII Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00	NG STATU Shadow % / 100% 29% 16% 6% 6% 6%	JS Sunlight 7 % 0% 71% 84% 94% 94% 94% 94% 94%	Sun time min 60 60 60 60 60 60 60 60 60 60	m2 0 64 76 85 85 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076	m2 NEW S Time 24 Hr 6.00 7.00 8.00 9.00 10.00 11.00 12.00	TATUS Shadow % 100% 29% 16% 6% 6% 6%	Sunlight / %  0%  71%  84%  94%  94%  94%  94%  94%  94%	Sun time min 60 60 60 60 60 60 60 60 60 60	m2 0 64 76 85 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076
26 EXISTII 24 Hr 6.00 77.00 8.00 9.00 110.00 111.00 112.00 113.00 114.00	NG STATU Shadow % / 100% 29% 16% 6% 6% 6% 6% 6%	JS Sunlight ' % 0% 71% 84% 94% 94% 94% 94% 94% 94%	Sun time min 60 60 60 60 60 60 60 60 60 60 60	m2 0 64 76 85 85 85 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076	m2 NEW S Time 24 Hr 6.00 7.00 8.00 10.00 11.00 12.00 13.00 14.00 15.00	TATUS Shadow % 100% 29% 16% 6% 6% 6% 6% 6%	Sunlight / %  0% 71% 84% 94% 94% 94% 94% 94% 94%	Sun time min 60 60 60 60 60 60 60 60 60 60	m2 0 64 76 85 85 85 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 5,076 5,076 5,076
26 EXISTII me 24 Hr 24 Hr 26 6.00 10.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00	Shadow % / 100% 100% 16% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6	JS Sunlight '% 0% 71% 84% 94% 94% 94% 94% 94% 94% 94%	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 0 64 76 85 85 85 85 85 85 85 85 85 85 85 85 85	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 5,076	m2  NEW S  Time 24 Hr 6.00 7.00 8.00 9.00 11.00 12.00 13.00 14.00 15.00 16.00	TATUS Shadow % 100% 29% 16% 6% 6% 6% 6% 6%	Sunlight / % 0% 71% 84% 94% 94% 94% 94% 94% 94% 94% 9	Sun time min 60 60 60 60 60 60 60 60 60 60 60	m2 0 0 64 76 85 85 85 85 85 85 85 85 85 85 85 85 85	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 5,076
26 EXISTII me 24 Hr 6.00 9.00 10.00 11.00 11.00 14.00 15.00 16.00	Shadow % / 100% 100% 16% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6	JS Sunlight '% 0% 71% 84% 94% 94% 94% 94% 94% 94% 94% 85%	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 0 64 76 85 85 85 85 85 85 85 85 85 77	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 5,076 5,076 4,590	m2 NEW S Time 24 Hr 6.00 7.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00	TATUS Shadow % 100% 29% 16% 6% 6% 6% 6% 6% 6% 6%	Sunlight / %	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 0 64 76 85 85 85 85 85 85 85 85 85 77	March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 4,590 4,590
266 EXISTII 17 me 24 Hr 124 Hr 124 Hr 120 Hr 110 Mr 110 Mr	Shadow 1 100% 1 100% 29% 16% 6% 6% 6% 6% 6% 6% 6% 6% 6%	JS Sunlight '% 0% 71% 84% 94% 94% 94% 94% 94% 94% 94% 94% 94% 9	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 644 766 85 85 85 85 85 85 85 85 85 43 43	90 March 21st time * area min*m2 0 3,834 4,536 5,076 5,076 5,076 5,076 5,076 5,076 5,076 4,590 2,592	MEW S Time 24 Hr 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000	TATUS Shadow 100% 29% 16% 6% 6% 6% 6% 6% 6% 5% 55%	Sunlight / %	Sun time min 60 60 60 60 60 60 60 60 60 60 60 60 60	m2 0 64 76 85 85 85 85 85 85 85 85 85 85	March 21st time * area min*m2 0 3.834 4,536 5,076 5,076 5,076 5,076 5,076 4,590 2,592
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