



#### Optimal angles for Solar Panels

Tilt	Orientation from North						
	W 270°	240°	210°	S 180°	150°	120°	E 90°
0°	84	84	84	84	84	84	84
10°	84	87	90	91	90	87	84
20°	82	89	94	96	94	89	82
30°	81	90	97	100	97	90	81
40°	78	89	97	100	97	89	78
50°	74	87	95	98	95	87	74
60°	69	82	92	95	92	82	69
70°	64	77	86	89	86	77	64
80°	57	69	78	81	78	69	57
90°	50	61	68	71	68	61	50

#### As Designed:

Proposed building orientation from north = 145°

Proposed building roof angle = 20°

Proposed internal floor to ceiling height in the Council Chamber = 5278mm

Assumed efficiency of solar panels = Approx. 93%

#### Alternatively:

Roof angle of 25° provides approx. 94% efficiency & internal Council Chamber height of 6088mm

Roof angle of 30° provides approx. 96% efficiency & internal Council Chamber height of 6966mm



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CLIENT

Community Hub Project  
Springfield  
Milton Keynes

PROJECT

CONCEPT DESIGN  
Building Sections

DRAWING

STATUS **P**  
DRAWING STATUS  
P - Preliminary T - Tender  
PL - Planning R - Record  
BR - Building Reg  
C - Construction

DRAWN **QT** CHECKED **NS**  
SCALE **1:100@A3** DATE **Feb 22**  
No **06325-113**