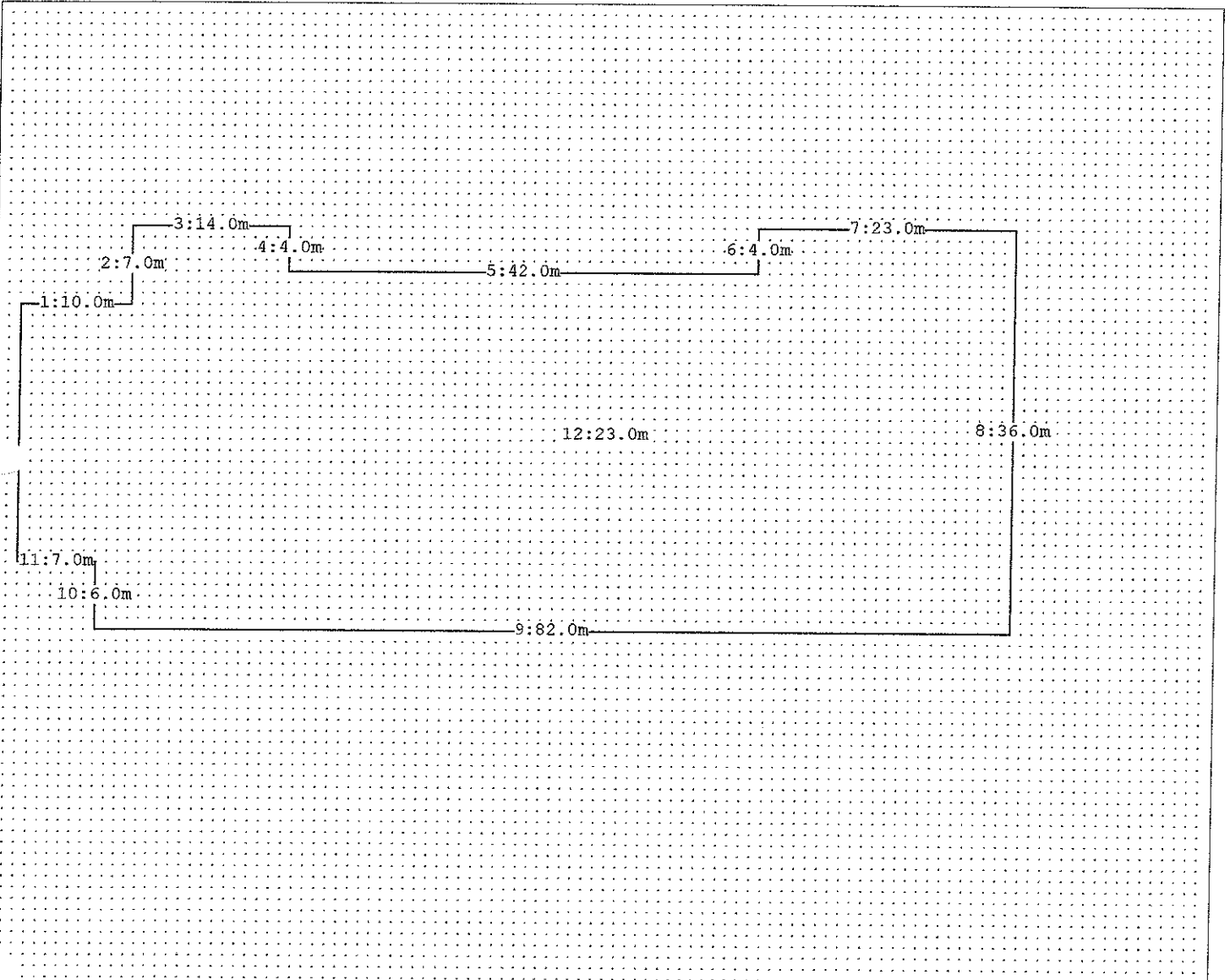


om Summary

Room Title: Ground Floor  
 Room Temperature: 22.0°C  
 Diurnal Ambient: 30.0°C  
 Current Peak Time: 15.00 hrs  
 Current Peak Month: July  
 Maximum Peak Loads: 09.00 hrs in April

Customers Address: Bumper Lane  
 Site Address: Chester

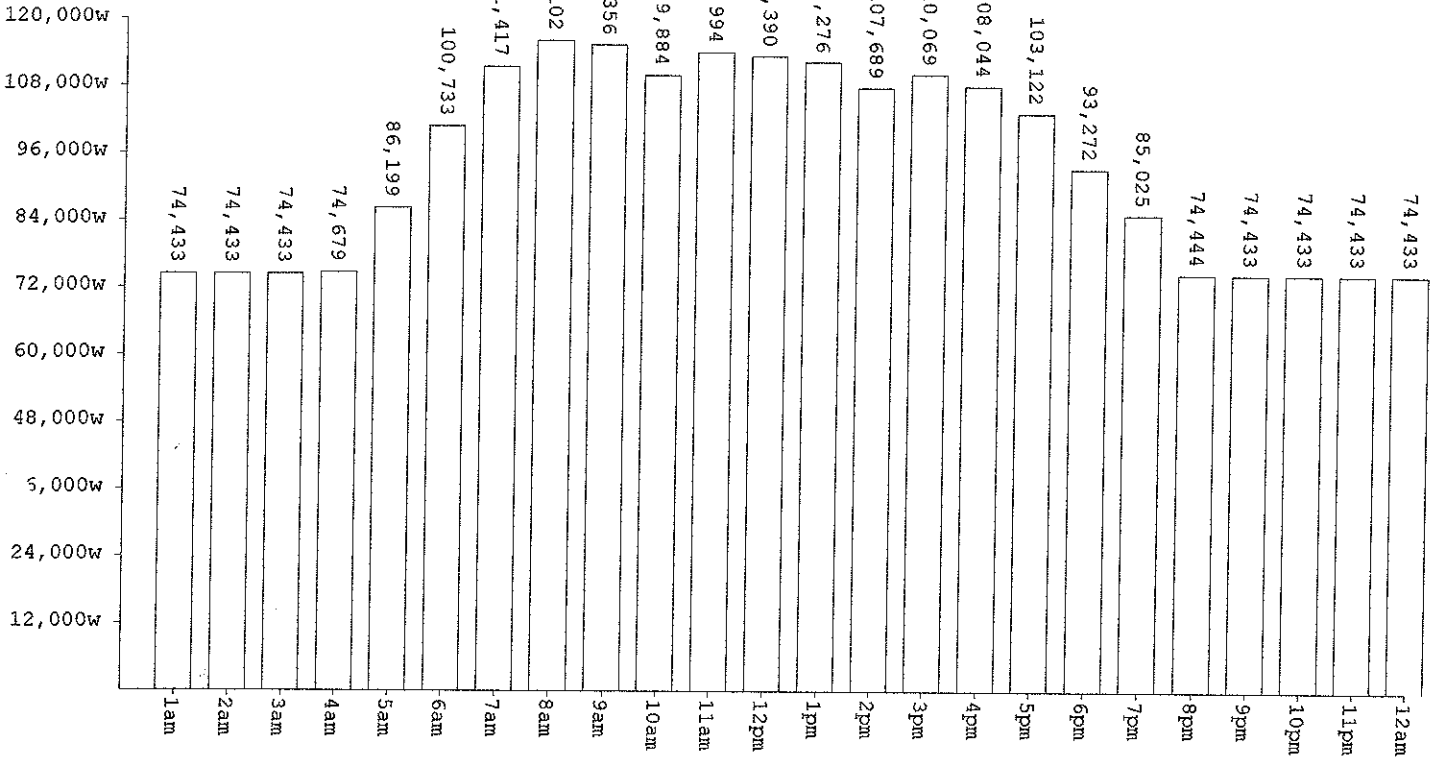
Total Room Loadings	Sensible Loads	Latent Loads	Total Cooling	Total Heating
Walls	3,307.0w	0.0w	3,307.0w	-6,149.0w
Windows	2,584.0w	0.0w	2,584.0w	-7,094.0w
Floor	0.0w	0.0w	0.0w	-15,734.0w
Ceiling	2,418.0w	0.0w	2,418.0w	1,209.0w
Infiltration	13,004.6w	20,483.6w	33,488.3w	-28,360.0w
People	3,520.0w	2,120.0w	5,640.0w	5,640.0w
Lighting	52,632.0w	0.0w	52,632.0w	52,632.0w
Appliances	0.0w	0.0w	0.0w	0.0w
Other Electrical	10,000.0w	0.0w	10,000.0w	10,000.0w
<b>Total's</b>	<b>87,465.6w</b>	<b>22,603.6w</b>	<b>110,069.3w</b>	<b>12,144.0w</b>



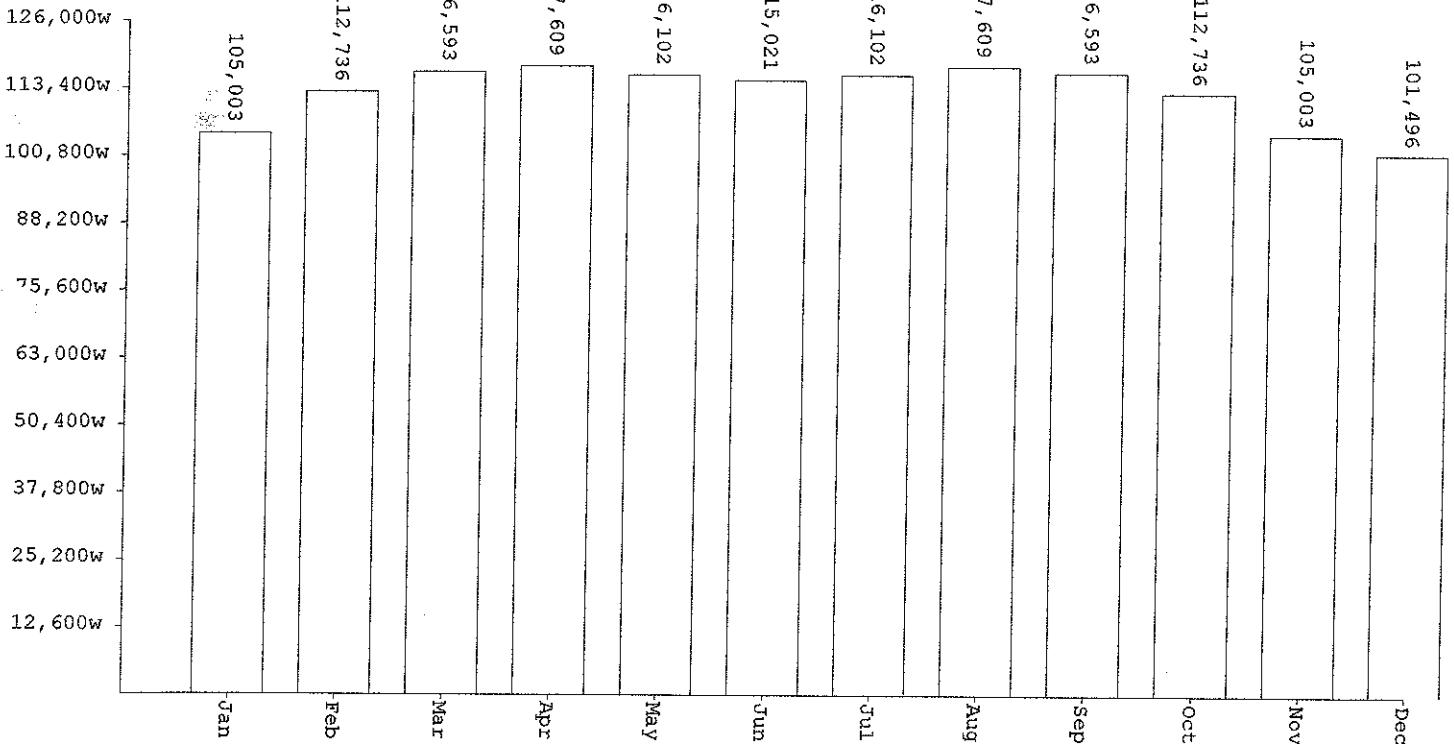
**Cooling Load Graphs**

Room Title: Ground Floor

**Daily Loading**



**Monthly Loading**



**Room Details for Ground Floor (Zone: Zone 1)**

**Walls**

Wall	Height	Length	Exp Area	R/Fact	A/Coef	S/Rad	'U'Factor	Thick	TD	Int/Ext	Orient	Gain	Solar	Total
1	3.0m	10.0m	36.8m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	315.0°	50w	0w	50w
2	3.0m	7.0m	26.3m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	225.0°	35w	0w	35w
3	3.0m	14.0m	50.8m <sup>2</sup>	0.02	0.4	217w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	315.0°	183w	88w	271w
4	3.0m	4.0m	15.8m <sup>2</sup>	0.02	0.4	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	45.0°	57w	0w	57w
5	3.0m	42.0m	148.8m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	315.0°	201w	0w	201w
6	3.0m	4.0m	15.8m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	225.0°	21w	0w	21w
7	3.0m	23.0m	82.3m <sup>2</sup>	0.02	0.4	217w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	315.0°	296w	143w	439w
8	3.0m	36.0m	127.8m <sup>2</sup>	0.02	0.4	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	45.0°	460w	0w	460w
9	3.0m	82.0m	288.8m <sup>2</sup>	0.02	0.4	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	135.0°	1,039w	0w	1,039w
10	3.0m	6.0m	22.8m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	225.0°	31w	0w	31w
11	3.0m	7.0m	26.3m <sup>2</sup>	0.00	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	3.0°C	Int	135.0°	35w	0w	35w
12	3.0m	23.0m	82.3m <sup>2</sup>	0.02	0.4	565w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	8.0°C	Ext	225.0°	296w	372w	668w

**Windows**

Wall	Width	Height	Description	Trans	'U'Factor	Shading	Gain	Solar	Total
8	14.0m	2.9m	Optifloat Tinted 6mm 75/59 (Green) (Argon fill)	0.47	2.60w/m <sup>2</sup> K	1.00	844w	0w	844w
9	50.0m	2.9m	Optifloat Tinted 6mm 75/59 (Green) (Argon fill)	0.43	1.50w/m <sup>2</sup> K	1.00	1,740w	0w	1,740w

**Floor**

Exp Area	'U'Factor	Thick	TD	Total
2988.5m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	-12.0°C	0w

**Ceiling**

Exp Area	Int/Ext	Abs/C	S/Rad	'U'Factor	Thick	TD	Gain	Solar	Total
2988.5m <sup>2</sup>	Int	0.0	0w/m <sup>2</sup>	0.45w/m <sup>2</sup> K	250mm	2.0°C	2,418w	0w	2,418w

**Infiltration**

AC/hr	Amb Sat	O/Vent	O/V Sat	O/V Temp	Rm Sat	Rm Vol	Air Vol	Sensible	Latent	Total
0.5	50.0°C	1728.0m <sup>3</sup>	50.0%	24.5°C	50.0%	8772.0m <sup>3</sup>	6114.0m <sup>3</sup>	13,005w	20,484w	33,488w

**People**

No.	Activity	Sensible	Latent	Total
40	Standing, Walking, Eating	3,520w	2,120w	5,640w

**Appliances & Electrical**

Qty	Description	Total
1	Lighting Load	52,632w
1	Other Electrical Loads	10,000w