

In[ ]:= 高度角 =

$$\text{ArcSin}\left[\text{Sin}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \text{Sin}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{天} - 173)\right]\right]\right] + \right.$$
  
$$\left. \text{Cos}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \right.$$
  
$$\left. \text{Cos}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{天} - 173)\right]\right]\right] \times \text{Cos}[\text{时}]\right] \times 180;$$
  
$$\text{Grid}\left[\text{Table}\left[\left\{\text{天}, \text{时}, \text{高度角}\right\}, \left\{\text{天}, 366\right\}, \left\{\text{时}, 24\right\}, \left\{\text{If}\left[10 \leq \text{高度角} \leq 40, \text{高度角}, 0\right]\right\}\right]\right]$$

Out[ ]:=

... 1 ...

大型输出	显示更少	显示更多	显示全部	设定大小限制...
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In[ ]:= TableForm[%2]

表格形式

Out[ ]//TableForm=

... 1 ...

大型输出	显示更少	显示更多	显示全部	设定大小限制...
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In[ ]:= Clear["Global`\*"]

清除

In[ ]:= SystemOpen[DirectoryName[AbsoluteFileName["实验2.xlsx"]]]

系统打开 目录名称 绝对文件名

In[ ]:= Export["实验1.xlsx", Table[If[10 ≤

导出 表格 如果

$$\text{ArcSin}\left[\text{Sin}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \text{Sin}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{day} - 173)\right]\right]\right] + \right.$$
  
$$\left. \text{Cos}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \right.$$
  
$$\left. \text{Cos}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{day} - 173)\right]\right]\right] \times \text{Cos}[\text{hour}]\right] \times 180 \leq 40,$$
  
$$\text{ArcSin}\left[\text{Sin}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \text{Sin}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{day} - 173)\right]\right]\right] + \right.$$
  
$$\left. \text{Cos}\left[30.3230373500 \times \frac{\text{Pi}}{180}\right] \times \text{Cos}\left[\text{ArcSin}\left[0.39795 \times \text{Cos}\left[0.98563 \times (\text{day} - 173)\right]\right]\right] \times \right.$$
  
$$\left. \text{Cos}[\text{hour}]\right] \times 180, \text{无}], \{\text{hour}, 0, 24, \frac{1}{60}\}, \{\text{day}, 1, 366, 1\}], \text{"XLSX"}]$$

Out[ ]:= 实验1.xlsx

```
In[ ]:= Export["实验2.xlsx",
  导出
  Table[If[10 ≤ x + y ≤ 20, x + y, 无], {y, 4, 24, 4}, {x, 0, 30, 3}], "XLSX"]
  表格 如果
```

```
Out[ ]:= 实验2.xlsx
```

```
In[ ]:= Needs["JLink`"]
  需要
ReinstallJava[JVMArguments → "-Xmx512m"]
```

```
Out[ ]:= LinkObject[
  + WL Name: "E:\Mathematica 12.0 \Windows10\SystemFiles\Java\bin\jlink.exe"
  Link mode: Listen
]
```