

**ITU-R Art. 22.5D EPFD  
Calculations**

|   | ES on the ground | ES on Falcon |
|---|------------------|--------------|
| Nominal altitude (km)                                   | 0                | 300          |
| Nominal altitude (ft)                                   | 0                | 984252       |
| min distance to GSO [km]                                | 35786            | 35486        |
| Spreading loss [dB]                                     | -162.07          | -161.99      |
| Max EIRP density towards the GSO arc [dBW/40kHz]        | -21.1            | -21.1        |
| Max EPFD_up [dB(W/m <sup>2</sup> )/40kHz]               | -183.17          | -183.09      |
| ITU-R Art 22.5 EPFD Limit [dB(W/m <sup>2</sup> )/40kHz] | -160             | -160         |
| Margin [dB]   | 23.17            | 23.09        |