Following are the parameters are to be used for generation of TOA Reflectance images

1. **Values to be read from BAND\_META in the Dataset zip**
2. SunElevationAtCenter= 69.011613 , to calculate Sun Zenith Angle (θs​)= 90∘−Sun Elevation Angle .
3. **To convert to Radiance**

**eg for RS-2A Liss4 :**

* 1. B2\_Lmin= 0.0000
  2. B3\_Lmin= 0.0000
  3. B4\_Lmin= 0.0000
  4. B2\_Lmax= 52.0000
  5. B3\_Lmax= 47.0000
  6. B4\_Lmax= 31.5000

1. Earth-Sun Distance (d) -- Earth\_Sun\_distance.csv
2. Solar Exo-Atmospheric Irradiance (Esun) for RS-2/2A L4Mx are as follows:

|  |  |  |
| --- | --- | --- |
|  | RS2 | RS2A |
| BAND2 | 185.33 | 185.347 |
| BAND3 | 157.766 | 158.262 |
| BAND4 | 111.359 | 110.81 |