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aea84

Q1.

a)
Center of image:
Is on earth : true
x : 0.6380793245935479
y : 0.6417954054652171
z : 0.42538621639567964

b)
lat : 39.92582901356466 degrees N.
long : 56.30993247402138 degrees W.

c) This point is shadowed by the moon : false

Q2.

a) The sun is 64.82707778849147 degrees below vertical

b) The center pixel has the value 0.12760548776316333

Q3. Please look in solar-eclipse.xml