

OO Aql (Aug – Sept 2008)

Wilson-Devinney Roche Model Parameters

Mass ratio input = 0.846000	Mass ratio < 1 = 0.846000
Omega 1 = 3.430400	Omega 2 = 3.430400
Omega inner = 3.495114	Omega outer = 3.022821
C1 = 3.926604	C2 = 3.926604
C inner = 3.996717	C outer = 3.485024
Fillout 1 = 0.137021	Fillout 2 = 0.137021
Lagrangian L1 = 0.517207	Lagrangian L2 = 1.670805
AG = r1(back) = 0.435164	AS = r2(back) = 0.405929
BG = r1(side) = 0.400480	BS = r2(side) = 0.369536
CG = r1(pole) = 0.378891	CS = r2(pole) = 0.351059
DG = r1(point) = 0.517207	DS = r2(point) = 0.482793
Surface area 1 = 2.088620	Surface area 2 = 1.794931
Volume 1 = 0.275759	Volume 2 = 0.219429
Mean density 1 = 0.604193	Mean density 2 = 0.642363
Mean radius 1 = 0.404845	Mean radius 2 = 0.375508
Mean radius 1 (vol) = 0.403782	Mean radius 2 (vol) = 0.374170
Eccentricity = 0.00000	Longitude of Periastron = 0.0000
Phase of periastron = 0.00000	Phase of conjunction = 0.00000
Angular Rotation F1 = 1.0000	Angular Rotation F2 = 1.0000
Normalization Phase = 0.25000	Normalization Factor = 0.99500
Inclination = 86.011	Wavelength = 5500.00
Temperature 1 = 5700.00	Temperature 2 = 5554.00
Luminosity 1 = 0.5653	Luminosity 2 = 0.4347
Gravity coefficient 1 = 0.320	Gravity coefficient 2 = 0.320
Limb darkening 1 = 0.612	Limb darkening 2 = 0.633
Reflection 1 = 0.500	Reflection 2 = 0.500
Third light = 0.0000	Period = 0.50681000

Spot Parameters

Star	Co-Latitude	Longitude	Spot Radius	Temp. Factor
1	90.000	90.000	10.000	1.220

OO Aquila Light Curve (V)
Simultaneous (B, V, I) Model Fit

