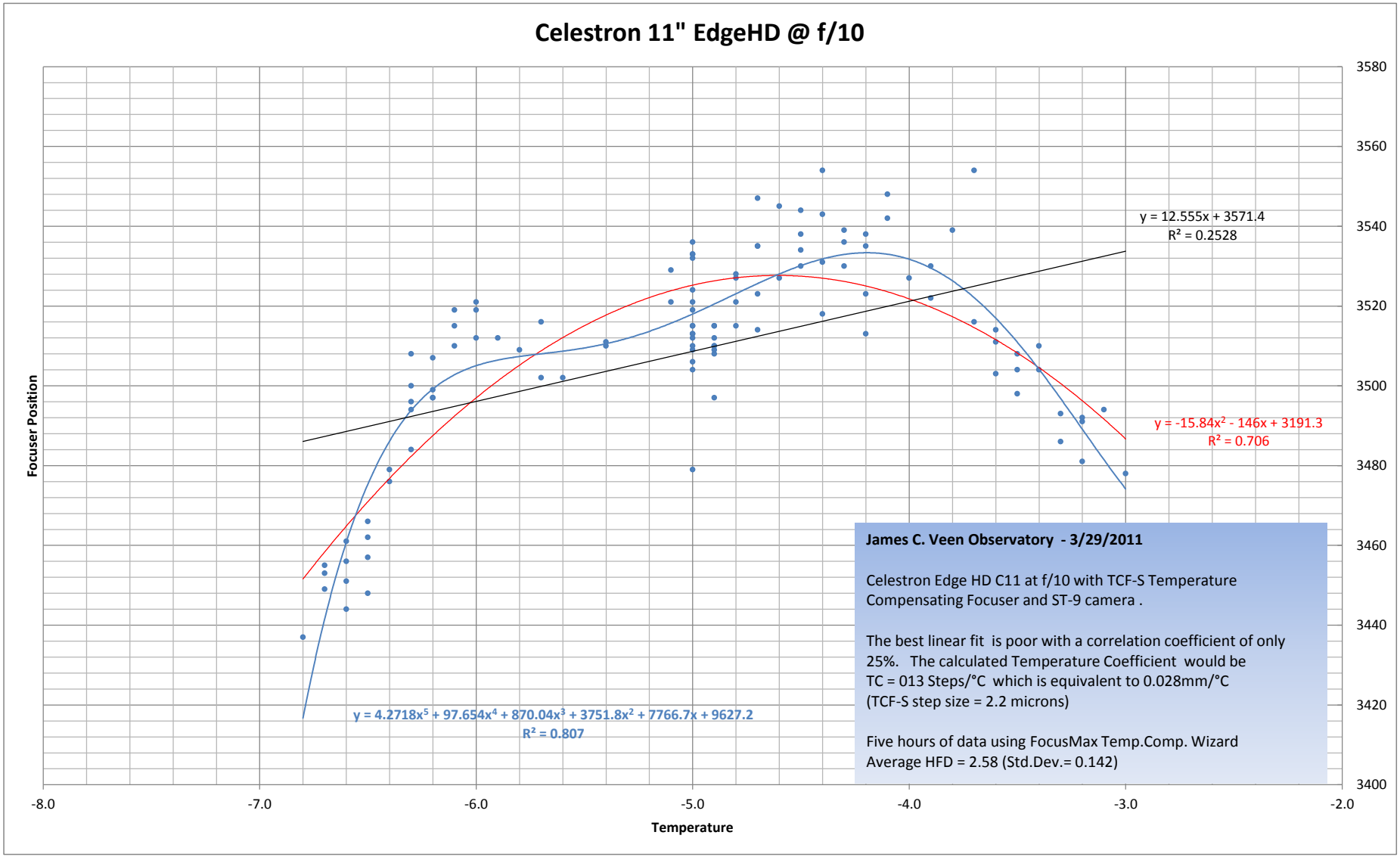
Celestron 11" EdgeHD @ f/10
Focuser Position
Temperature
3580
3560
3540
3520
3500
3480
3460
3440
3420
3400
-8.0
-7.0
-6.0
-5.0
-4.0
-3.0
-2.0
y = 12.555x + 3571.4
R² = 0.2528
y = -15.84x² - 146x + 3191.3
R² = 0.706
y = 4.2718x⁵ + 97.654x⁴ + 870.04x³ + 3751.8x² + 7766.7x + 9627.2
R² = 0.807
James C. Veen Observatory - 3/29/2011
Celestron Edge HD C11 at f/10 with TCF-S Temperature Compensating Focuser and ST-9 camera .
The best linear fit is poor with a correlation coefficient of only 25%. The calculated Temperature Coefficient would be TC = 013 Steps/°C which is equivalent to 0.028mm/°C (TCF-S step size = 2.2 microns)
Five hours of data using FocusMax Temp.Comp. Wizard
Average HFD = 2.58 (Std.Dev.= 0.142)