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22:29:06 FocusMax Version 3.2.1
22:29:06 System is c8_st8_cfw10_f10
22:29:07 RoboFocus Control Program is connected
22:29:07 CCDSoft V 5.1.7.0 is the Imaging Software
22:29:18 PinPoint is not connected
22:29:18 Warning - NOVAS-COM Vector Astrometry Engine is not
connected
22:29:18 and is required with telescope use. Please download from
22:29:18 DC3 ASCOM Download Library at
22:29:18 http://ascom-standards.org/downloads.html
22:30:18
22:30:18 System: c8_st8_cfw10_f10
22:30:18 ** Beginning Focus run **
22:30:18 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
22:30:18 Using convergence: Steps = 2 Samples = 5
22:30:18 Move direction: Out
22:30:18 Filter number = 0
22:30:18 Focus Start HFD: 25
22:30:28 Target star found at X = 686, Y = 437
22:30:28 Focus exposures will be 1 sec
22:30:34 Position , HFD , Mean Best Focus , X , Y , Flux
22:30:34 11482 , 3.32 , 0 , 686 , 441 , 296193
22:30:44 11421 , 24.12 , 0 , 698 , 446 , 295723
22:30:44 On correct side of focus
22:30:44 Moving to start HFD
22:30:44 Move to Near Focus HFD
22:30:52 11447 , 14.34 , 0 , 699 , 447 , 296838
22:30:52 ** Starting Near Focus **
22:30:52 Position , HFD , Mean Best Focus , X , Y , Flux
22:30:52 11447 , 14.34 , 11487 , 699 , 447 , 296838
22:30:58 11447 , 13.90 , 11486 , 701 , 446 , 299897
22:31:01 11447 , 14.16 , 11486 , 700 , 446 , 298330
22:31:04 11447 , 14.13 , 11486 , 701 , 446 , 281480
22:31:10 11447 , 13.59 , 11486 , 700 , 446 , 310175
22:31:16 11447 , 14.75 , 11486 , 699 , 446 , 302120
22:31:16 Focus has converged
22:31:16 Best Focus is: 11486
22:31:24 11486 , 3.47 , 11486 , 700 , 448 , 296142
22:31:24 Focusing Completed
22:31:25 Focus time = 66 sec
22:40:02
22:40:02 System: c8_st8_cfw10_f10
22:40:02 ** Beginning Focus run **
22:40:02 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
22:40:02 Using convergence: Steps = 2 Samples = 5
22:40:02 Move direction: Out
22:40:02 Temperature = 612.0
22:40:02 Filter number = 0
22:40:02 Focus Start HFD: 25
22:40:12 Target star found at X = 771, Y = 496
22:40:12 Focus exposures will be 1.00 sec
22:40:20 Position , HFD , Mean Best Focus , X , Y , Flux
22:40:20 11486 , 3.81 , 0 , 773 , 497 , 803569
22:40:31 11426 , 22.89 , 0 , 775 , 496 , 846806
22:40:31 On correct side of focus
22:40:31 Moving to start HFD

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22:40:40 11420 , 24.84 , 0 , 776 , 497 , 851356
22:40:40 Move to Near Focus HFD
22:40:48 11448 , 15.03 , 0 , 777 , 496 , 836997
22:40:48 ** Starting Near Focus **
22:40:48 Position , HFD , Mean Best Focus , X , Y , Flux
22:40:48 11448 , 15.03 , 11490 , 777 , 496 , 836997
22:40:55 11448 , 14.80 , 11490 , 777 , 495 , 817054
22:41:02 11448 , 14.64 , 11489 , 776 , 495 , 793805
22:41:08 11448 , 14.96 , 11489 , 777 , 495 , 858213
22:41:15 11448 , 14.80 , 11489 , 777 , 495 , 832323
22:41:22 11448 , 14.76 , 11489 , 776 , 495 , 851075
22:41:22 Focus has converged
22:41:22 Best Focus is: 11489
22:41:30 11489 , 3.82 , 11489 , 779 , 495 , 857333
22:41:31 Focusing Completed
22:41:31 Focus time = 89 sec
22:41:39 Single Exp. HFD: 3.76 @ 11489 X: 777 Y: 495 Flux: 847328
22:41:43 Single Exp. HFD: 3.61 @ 11489 X: 777 Y: 495 Flux: 821011
22:41:48 Single Exp. HFD: 3.71 @ 11489 X: 778 Y: 493 Flux: 810231
22:41:53 Single Exp. HFD: 3.75 @ 11489 X: 778 Y: 494 Flux: 823831
22:41:58 Single Exp. HFD: 3.62 @ 11489 X: 778 Y: 494 Flux: 830302
22:48:22
22:48:22 System: c8_st8_cfw10_f10
22:48:22 ** Beginning Focus run **
22:48:22 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
22:48:22 Move direction: Out
22:48:23 Temperature = 612.0
22:48:23 Filter number = 0
22:48:23 Focus Start HFD: 25
22:48:33 Target star found at X = 774, Y = 504
22:48:33 Focus exposures will be 1.00 sec
22:48:39 Position , HFD , Mean Best Focus , X , Y , Flux
22:48:39 11489 , 3.60 , 0 , 776 , 504 , 774438
22:48:51 11429 , 21.36 , 0 , 779 , 505 , 876477
22:48:51 On correct side of focus
22:48:51 Moving to start HFD
22:49:00 11419 , 25.23 , 0 , 775 , 503 , 820019
22:49:00 Move to Near Focus HFD
22:49:09 11448 , 15.14 , 0 , 780 , 504 , 862364
22:49:09 ** Starting Near Focus **
22:49:09 Position , HFD , Mean Best Focus , X , Y , Flux
22:49:09 11448 , 15.14 , 11490 , 780 , 504 , 862364
22:49:15 11448 , 14.74 , 11490 , 780 , 504 , 830884
22:49:22 11448 , 14.87 , 11490 , 780 , 503 , 850999
22:49:28 11448 , 14.64 , 11489 , 780 , 503 , 882556
22:49:32 11448 , 14.27 , 11489 , 781 , 502 , 837181
22:49:32 Best Focus is: 11489
22:49:41 11489 , 3.51 , 11489 , 782 , 503 , 764905
22:49:41 Focusing Completed
22:49:41 Focus time = 78 sec
22:49:48 Single Exp. HFD: 3.67 @ 11489 X: 782 Y: 502 Flux: 809438
22:49:52 Single Exp. HFD: 3.58 @ 11489 X: 782 Y: 502 Flux: 808594
22:49:57 Single Exp. HFD: 3.61 @ 11489 X: 782 Y: 502 Flux: 819777
22:50:03 Single Exp. HFD: 3.49 @ 11489 X: 782 Y: 502 Flux: 806852
22:50:07 Single Exp. HFD: 3.45 @ 11489 X: 782 Y: 501 Flux: 804145
23:05:27

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23:05:27 System: c8_st8_cfw10_f10
23:05:27 ** Beginning Focus run **
23:05:27 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:05:27 Move direction: Out
23:05:27 Temperature = 608.0
23:05:27 Filter number = 0
23:05:27 Focus Start HFD: 25
23:05:37 Target star found at X = 770, Y = 528
23:05:37 Focus exposures will be 1.00 sec
23:05:43 Position , HFD , Mean Best Focus , X , Y , Flux
23:05:43 11489 , 3.45 , 0 , 773 , 527 , 751503
23:05:54 11428 , 21.56 , 0 , 774 , 527 , 868820
23:05:54 On correct side of focus
23:05:54 Moving to start HFD
23:06:03 11418 , 25.83 , 0 , 776 , 528 , 900942
23:06:03 Move to Near Focus HFD
23:06:12 11449 , 14.42 , 0 , 777 , 528 , 858241
23:06:12 ** Starting Near Focus **
23:06:12 Position , HFD , Mean Best Focus , X , Y , Flux
23:06:12 11449 , 14.42 , 11489 , 777 , 528 , 858241
23:06:19 11449 , 14.17 , 11489 , 777 , 526 , 846250
23:06:26 11449 , 13.98 , 11489 , 777 , 527 , 862654
23:06:34 11449 , 14.10 , 11488 , 776 , 527 , 845813
23:06:37 11449 , 14.15 , 11488 , 777 , 527 , 803836
23:06:37 Best Focus is: 11488
23:06:46 11488 , 3.98 , 11488 , 779 , 526 , 831336
23:06:47 Focusing Completed
23:06:47 Focus time = 80 sec
23:06:54 Single Exp. HFD: 3.87 @ 11488 X: 778 Y: 526 Flux: 849901
23:06:58 Single Exp. HFD: 3.78 @ 11488 X: 778 Y: 526 Flux: 834299
23:07:03 Single Exp. HFD: 3.67 @ 11488 X: 779 Y: 525 Flux: 874703
23:07:09 Single Exp. HFD: 3.66 @ 11488 X: 779 Y: 525 Flux: 844176
23:07:13 Single Exp. HFD: 4.00 @ 11488 X: 778 Y: 525 Flux: 779194
23:08:16
23:08:16 System: c8_st8_cfw10_f10
23:08:16 ** Beginning Focus run **
23:08:16 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:08:16 Move direction: Out
23:08:16 Temperature = 608.0
23:08:16 Filter number = 0
23:08:16 Focus Start HFD: 25
23:08:26 Target star found at X = 742, Y = 491
23:08:26 Focus exposures will be 1.00 sec
23:08:32 Position , HFD , Mean Best Focus , X , Y , Flux
23:08:32 11488 , 3.60 , 0 , 731 , 483 , 834160
23:08:44 11428 , 21.43 , 0 , 734 , 482 , 895974
23:08:44 On correct side of focus
23:08:44 Moving to start HFD
23:08:53 11418 , 25.44 , 0 , 735 , 481 , 869188
23:08:53 Move to Near Focus HFD
23:09:01 11447 , 15.27 , 0 , 735 , 481 , 862009
23:09:01 ** Starting Near Focus **
23:09:01 Position , HFD , Mean Best Focus , X , Y , Flux
23:09:01 11447 , 15.27 , 11490 , 735 , 481 , 862009
23:09:08 11447 , 14.86 , 11489 , 735 , 479 , 810670
23:09:12 11447 , 14.49 , 11488 , 736 , 479 , 848950

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23:09:18 11447 , 14.60 , 11488 , 735 , 478 , 839929
23:09:22 11447 , 15.13 , 11488 , 738 , 478 , 896604
23:09:22 Best Focus is: 11488
23:09:31 11488 , 3.95 , 11488 , 739 , 477 , 860001
23:09:31 Focusing Completed
23:09:31 Focus time = 75 sec
23:09:38 Single Exp. HFD: 3.54 @ 11488 X: 738 Y: 476 Flux: 836326
23:09:42 Single Exp. HFD: 3.42 @ 11488 X: 738 Y: 476 Flux: 832712
23:09:47 Single Exp. HFD: 3.53 @ 11488 X: 738 Y: 476 Flux: 817911
23:09:52 Single Exp. HFD: 3.46 @ 11488 X: 737 Y: 476 Flux: 816562
23:09:57 Single Exp. HFD: 3.81 @ 11488 X: 738 Y: 475 Flux: 868938
23:43:22
23:43:22 System: c8_st8_cfw10_f10
23:43:22 ** Beginning Focus run **
23:43:22 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:43:22 Move direction: Out
23:43:22 Temperature = 608.0
23:43:22 Filter number = 0
23:43:22 Focus Start HFD: 25
23:43:32 Target star found at X = 753, Y = 516
23:43:32 Focus exposures will be 1.00 sec
23:43:38 Position , HFD , Mean Best Focus , X , Y , Flux
23:43:38 11488 , 2.98 , 0 , 751 , 512 , 452774
23:43:50 11426 , 21.98 , 0 , 753 , 516 , 405296
23:43:50 On correct side of focus
23:43:50 Moving to start HFD
23:43:59 11417 , 25.68 , 0 , 755 , 516 , 716189
23:43:59 Move to Near Focus HFD
23:44:07 11447 , 14.93 , 0 , 756 , 517 , 442276
23:44:07 ** Starting Near Focus **
23:44:07 Position , HFD , Mean Best Focus , X , Y , Flux
23:44:07 11447 , 14.93 , 11489 , 756 , 517 , 442276
23:44:14 11447 , 14.60 , 11488 , 755 , 516 , 460628
23:44:21 11447 , 14.59 , 11488 , 755 , 516 , 610771
23:44:28 11447 , 14.16 , 11488 , 756 , 515 , 486820
23:44:31 11447 , 14.44 , 11488 , 756 , 516 , 513840
23:44:31 Best Focus is: 11488
23:44:40 11488 , 3.30 , 11488 , 757 , 517 , 289882
23:44:40 Focusing Completed
23:44:40 Focus time = 78 sec
23:44:47 Single Exp. HFD: 3.49 @ 11488 X: 756 Y: 517 Flux: 254959
23:44:51 Single Exp. HFD: 3.43 @ 11488 X: 755 Y: 517 Flux: 767491
23:44:56 Single Exp. HFD: 3.45 @ 11488 X: 755 Y: 518 Flux: 833590
23:45:01 Single Exp. HFD: 3.39 @ 11488 X: 755 Y: 517 Flux: 815102
23:45:06 Single Exp. HFD: 3.40 @ 11488 X: 755 Y: 518 Flux: 805471
23:48:15
23:48:15 System: c8_st8_cfw10_f10
23:48:15 ** Beginning Focus run **
23:48:15 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:48:16 Move direction: Out
23:48:16 Temperature = 608.0
23:48:16 Filter number = 0
23:48:16 Focus Start HFD: 25
23:48:26 Target star found at X = 770, Y = 504
23:48:26 Focus exposures will be 1.00 sec
23:48:32 Position , HFD , Mean Best Focus , X , Y , Flux

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23:48:32 11488 , 3.40 , 0 , 770 , 504 , 854268
23:48:44 11427 , 21.44 , 0 , 775 , 502 , 875768
23:48:44 On correct side of focus
23:48:44 Moving to start HFD
23:48:53 11417 , 24.97 , 0 , 775 , 502 , 847311
23:48:53 Move to Near Focus HFD
23:49:02 11445 , 15.89 , 0 , 776 , 502 , 832742
23:49:02 ** Starting Near Focus **
23:49:02 Position , HFD , Mean Best Focus , X , Y , Flux
23:49:02 11445 , 15.89 , 11489 , 776 , 502 , 832742
23:49:09 11445 , 14.85 , 11488 , 776 , 501 , 850499
23:49:15 11445 , 15.04 , 11488 , 777 , 500 , 855870
23:49:19 11445 , 15.30 , 11488 , 778 , 499 , 811326
23:49:22 11445 , 15.46 , 11488 , 778 , 499 , 840235
23:49:22 Best Focus is: 11488
23:49:32 11488 , 3.52 , 11488 , 779 , 499 , 853524
23:49:32 Focusing Completed
23:49:32 Focus time = 76 sec
23:49:39 Single Exp. HFD: 3.39 @ 11488 X: 778 Y: 499 Flux: 831622
23:49:43 Single Exp. HFD: 3.41 @ 11488 X: 778 Y: 499 Flux: 830498
23:49:48 Single Exp. HFD: 3.33 @ 11488 X: 778 Y: 499 Flux: 818691
23:49:53 Single Exp. HFD: 3.42 @ 11488 X: 778 Y: 499 Flux: 864453
23:49:58 Single Exp. HFD: 3.43 @ 11488 X: 778 Y: 499 Flux: 835958
00:23:46
00:23:46 System: c8_st8_cfw10_f10
00:23:46 ** Beginning Focus run **
00:23:46 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
00:23:46 Move direction: Out
00:23:46 Temperature = 609.0
00:23:46 Filter number = 0
00:23:46 Focus Start HFD: 25
00:23:56 Target star found at X = 770, Y = 504
00:23:56 Focus exposures will be 1.00 sec
00:24:03 Position , HFD , Mean Best Focus , X , Y , Flux
00:24:03 11488 , 3.51 , 0 , 769 , 506 , 867154
00:24:14 11427 , 21.74 , 0 , 773 , 508 , 922917
00:24:14 On correct side of focus
00:24:14 Moving to start HFD
00:24:24 11418 , 25.53 , 0 , 773 , 508 , 928571
00:24:24 Move to Near Focus HFD
00:24:32 11448 , 14.66 , 0 , 775 , 509 , 899410
00:24:32 ** Starting Near Focus **
00:24:32 Position , HFD , Mean Best Focus , X , Y , Flux
00:24:32 11448 , 14.66 , 11489 , 775 , 509 , 899410
00:24:39 11448 , 14.34 , 11488 , 775 , 507 , 907130
00:24:45 11448 , 14.57 , 11488 , 775 , 507 , 905261
00:24:52 11448 , 14.50 , 11488 , 774 , 509 , 897997
00:24:59 11448 , 14.13 , 11488 , 775 , 508 , 890110
00:24:59 Best Focus is: 11488
00:25:08 11488 , 3.48 , 11488 , 776 , 507 , 870935
00:25:08 Focusing Completed
00:25:08 Focus time = 82 sec
00:25:15 Single Exp. HFD: 3.40 @ 11488 X: 776 Y: 508 Flux: 875361
00:25:19 Single Exp. HFD: 3.44 @ 11488 X: 776 Y: 507 Flux: 876045
00:25:24 Single Exp. HFD: 3.46 @ 11488 X: 776 Y: 506 Flux: 850950
00:25:29 Single Exp. HFD: 3.50 @ 11488 X: 776 Y: 507 Flux: 879908

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00:25:34 Single Exp. HFD: 3.76 @ 11488 X: 776 Y: 506 Flux: 869035
00:59:45
00:59:45 System: c8_st8_cfw10_f10
00:59:45 ** Beginning Focus run **
00:59:45 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
00:59:45 Move direction: Out
00:59:45 Temperature = 610.0
00:59:45 Filter number = 0
00:59:45 Focus Start HFD: 25
00:59:55 Target star found at X = 765, Y = 505
00:59:55 Focus exposures will be 1.00 sec
01:00:01 Position , HFD , Mean Best Focus , X , Y , Flux
01:00:01 11488 , 3.32 , 0 , 764 , 508 , 865732
01:00:13 11427 , 22.37 , 0 , 769 , 509 , 957172
01:00:13 On correct side of focus
01:00:13 Moving to start HFD
01:00:22 11420 , 24.96 , 0 , 770 , 508 , 935866
01:00:22 Move to Near Focus HFD
01:00:30 11448 , 14.61 , 0 , 771 , 508 , 926550
01:00:30 ** Starting Near Focus **
01:00:30 Position , HFD , Mean Best Focus , X , Y , Flux
01:00:30 11448 , 14.61 , 11489 , 771 , 508 , 926550
01:00:37 11448 , 14.53 , 11489 , 770 , 508 , 941181
01:00:41 11448 , 14.61 , 11489 , 772 , 508 , 946343
01:00:44 11448 , 14.12 , 11488 , 772 , 507 , 942901
01:00:48 11448 , 14.95 , 11489 , 772 , 507 , 947942
01:00:48 Best Focus is: 11489
01:00:56 11489 , 3.42 , 11489 , 774 , 507 , 898892
01:00:57 Focusing Completed
01:00:57 Focus time = 73 sec
01:01:05 Single Exp. HFD: 3.40 @ 11489 X: 774 Y: 506 Flux: 897679
01:01:09 Single Exp. HFD: 3.39 @ 11489 X: 775 Y: 505 Flux: 880264
01:01:14 Single Exp. HFD: 3.49 @ 11489 X: 774 Y: 506 Flux: 893907
01:01:19 Single Exp. HFD: 3.33 @ 11489 X: 774 Y: 505 Flux: 858998
01:01:24 Single Exp. HFD: 3.37 @ 11489 X: 775 Y: 505 Flux: 883566
01:35:02
01:35:02 System: c8_st8_cfw10_f10
01:35:02 ** Beginning Focus run **
01:35:02 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
01:35:02 Move direction: Out
01:35:02 Temperature = 608.0
01:35:02 Filter number = 0
01:35:02 Focus Start HFD: 25
01:35:12 Target star found at X = 770, Y = 505
01:35:12 Focus exposures will be 1.00 sec
01:35:19 Position , HFD , Mean Best Focus , X , Y , Flux
01:35:19 11489 , 3.50 , 0 , 772 , 505 , 821216
01:35:30 11428 , 21.38 , 0 , 775 , 508 , 947991
01:35:30 On correct side of focus
01:35:30 Moving to start HFD
01:35:40 11418 , 24.73 , 0 , 774 , 509 , 960322
01:35:40 Move to Near Focus HFD
01:35:48 11445 , 16.17 , 0 , 775 , 509 , 1035019
01:35:48 ** Starting Near Focus **
01:35:48 Position , HFD , Mean Best Focus , X , Y , Flux
01:35:48 11445 , 16.17 , 11490 , 775 , 509 , 1035019

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01:35:55 11445 , 15.09 , 11489 , 775 , 510 , 954751
01:36:02 11445 , 14.96 , 11488 , 775 , 510 , 950733
01:36:05 11445 , 14.85 , 11488 , 775 , 509 , 993364
01:36:12 11445 , 15.57 , 11488 , 775 , 509 , 968200
01:36:12 Best Focus is: 11488
01:36:21 11488 , 4.02 , 11488 , 777 , 511 , 959888
01:36:22 Focusing Completed
01:36:22 Focus time = 79 sec
01:36:29 Single Exp. HFD: 4.03 @ 11488 X: 776 Y: 509 Flux: 959761
01:36:33 Single Exp. HFD: 4.67 @ 11488 X: 777 Y: 509 Flux: 936025
01:36:38 Single Exp. HFD: 3.79 @ 11488 X: 776 Y: 510 Flux: 897893
01:36:43 Single Exp. HFD: 4.05 @ 11488 X: 777 Y: 509 Flux: 951326
01:36:48 Single Exp. HFD: 3.65 @ 11488 X: 776 Y: 510 Flux: 913996
02:01:06
02:01:06 System: c8_st8_cfw10_f10
02:01:06 ** Beginning Focus run **
02:01:06 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
02:01:06 Move direction: Out
02:01:06 Temperature = 608.0
02:01:06 Filter number = 0
02:01:06 Focus Start HFD: 25
02:01:16 Target star found at X = 771, Y = 503
02:01:16 Focus exposures will be 1.00 sec
02:01:22 Position , HFD , Mean Best Focus , X , Y , Flux
02:01:22 11488 , 4.23 , 0 , 774 , 501 , 1425689
02:01:33 11429 , 21.00 , 0 , 775 , 502 , 1522487
02:01:33 On correct side of focus
02:01:33 Moving to start HFD
02:01:43 11418 , 24.48 , 0 , 776 , 502 , 1468485
02:01:43 Move to Near Focus HFD
02:01:51 11445 , 15.36 , 0 , 777 , 501 , 1497023
02:01:51 ** Starting Near Focus **
02:01:51 Position , HFD , Mean Best Focus , X , Y , Flux
02:01:51 11445 , 15.36 , 11488 , 777 , 501 , 1497023
02:01:58 11445 , 14.87 , 11487 , 777 , 501 , 1457008
02:02:05 11445 , 14.76 , 11487 , 777 , 501 , 1518057
02:02:08 11445 , 14.85 , 11487 , 777 , 501 , 1512158
02:02:12 11445 , 15.00 , 11487 , 778 , 500 , 1493022
02:02:12 Best Focus is: 11487
02:02:21 11487 , 4.20 , 11487 , 778 , 501 , 1388174
02:02:22 Focusing Completed
02:02:22 Focus time = 76 sec
02:02:30 Single Exp. HFD: 4.19 @ 11487 X: 778 Y: 500 Flux: 1388677
02:02:34 Single Exp. HFD: 4.27 @ 11487 X: 779 Y: 499 Flux: 1427073
02:02:39 Single Exp. HFD: 4.19 @ 11487 X: 778 Y: 500 Flux: 1407856
02:02:44 Single Exp. HFD: 4.16 @ 11487 X: 779 Y: 499 Flux: 1376327
02:02:49 Single Exp. HFD: 4.21 @ 11487 X: 779 Y: 499 Flux: 1418893
02:37:01
02:37:01 System: c8_st8_cfw10_f10
02:37:01 ** Beginning Focus run **
02:37:01 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
02:37:01 Move direction: Out
02:37:01 Temperature = 605.0
02:37:01 Filter number = 0
02:37:01 Focus Start HFD: 25
02:37:11 Target star found at X = 774, Y = 502

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02:37:11 Focus exposures will be 1.00 sec
02:37:17 Position , HFD , Mean Best Focus , X , Y , Flux
02:37:17 11487 , 4.44 , 0 , 775 , 501 , 1420906
02:37:29 11429 , 19.62 , 0 , 779 , 502 , 1517125
02:37:29 On correct side of focus
02:37:29 Moving to start HFD
02:37:38 11414 , 25.03 , 0 , 778 , 502 , 1572691
02:37:38 Move to Near Focus HFD
02:37:46 11442 , 14.85 , 0 , 778 , 502 , 1536456
02:37:46 ** Starting Near Focus **
02:37:46 Position , HFD , Mean Best Focus , X , Y , Flux
02:37:46 11442 , 14.85 , 11483 , 778 , 502 , 1536456
02:37:53 11442 , 14.83 , 11483 , 777 , 503 , 1526241
02:37:56 11442 , 14.48 , 11483 , 778 , 502 , 1533436
02:38:00 11442 , 14.74 , 11483 , 778 , 502 , 1546174
02:38:04 11442 , 14.52 , 11483 , 778 , 501 , 1555063
02:38:04 Best Focus is: 11483
02:38:13 11483 , 4.31 , 11483 , 779 , 503 , 1440305
02:38:14 Focusing Completed
02:38:14 Focus time = 73 sec
02:38:21 Single Exp. HFD: 4.38 @ 11483 X: 778 Y: 503 Flux: 1437629
02:38:25 Single Exp. HFD: 4.32 @ 11483 X: 779 Y: 502 Flux: 1448992
02:38:30 Single Exp. HFD: 4.35 @ 11483 X: 780 Y: 502 Flux: 1483601
02:38:35 Single Exp. HFD: 4.23 @ 11483 X: 780 Y: 502 Flux: 1397881
02:38:40 Single Exp. HFD: 4.33 @ 11483 X: 781 Y: 501 Flux: 1442062
03:12:23
03:12:23 System: c8_st8_cfw10_f10
03:12:23 ** Beginning Focus run **
03:12:23 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
03:12:23 Move direction: Out
03:12:23 Temperature = 604.0
03:12:23 Filter number = 0
03:12:23 Focus Start HFD: 25
03:12:33 Target star found at X = 770, Y = 505
03:12:33 Focus exposures will be 1.00 sec
03:12:40 Position , HFD , Mean Best Focus , X , Y , Flux
03:12:40 11483 , 4.34 , 0 , 768 , 509 , 1452788
03:12:52 11425 , 20.57 , 0 , 771 , 511 , 1577167
03:12:52 On correct side of focus
03:12:52 Moving to start HFD
03:13:01 11413 , 25.45 , 0 , 770 , 511 , 1545398
03:13:01 Move to Near Focus HFD
03:13:10 11442 , 14.76 , 0 , 770 , 512 , 1568837
03:13:10 ** Starting Near Focus **
03:13:10 Position , HFD , Mean Best Focus , X , Y , Flux
03:13:10 11442 , 14.76 , 11483 , 770 , 512 , 1568837
03:13:17 11442 , 14.70 , 11483 , 769 , 511 , 1559057
03:13:23 11442 , 14.13 , 11483 , 769 , 513 , 1565607
03:13:30 11442 , 13.88 , 11482 , 769 , 510 , 1561544
03:13:37 11442 , 14.47 , 11482 , 770 , 511 , 1583693
03:13:37 Best Focus is: 11482
03:13:46 11482 , 4.34 , 11482 , 771 , 512 , 1462364
03:13:47 Focusing Completed
03:13:47 Focus time = 84 sec
03:13:55 Single Exp. HFD: 4.37 @ 11482 X: 771 Y: 512 Flux: 1476922
03:13:59 Single Exp. HFD: 4.37 @ 11482 X: 771 Y: 512 Flux: 1472669

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03:14:04 Single Exp. HFD: 4.49 @ 11482 X: 771 Y: 512 Flux: 1506647
03:14:09 Single Exp. HFD: 4.31 @ 11482 X: 771 Y: 512 Flux: 1452936
03:14:14 Single Exp. HFD: 4.57 @ 11482 X: 772 Y: 512 Flux: 1499730
03:48:38
03:48:38 System: c8_st8_cfw10_f10
03:48:38 ** Beginning Focus run **
03:48:38 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
03:48:38 Move direction: Out
03:48:38 Temperature = 600.0
03:48:38 Filter number = 0
03:48:38 Focus Start HFD: 25
03:48:47 Target star found at X = 781, Y = 503
03:48:47 Focus exposures will be 1.00 sec
03:48:54 Position , HFD , Mean Best Focus , X , Y , Flux
03:48:54 11482 , 4.40 , 0 , 778 , 502 , 1430010
03:49:05 11424 , 21.17 , 0 , 780 , 502 , 1588194
03:49:05 On correct side of focus
03:49:05 Moving to start HFD
03:49:14 11413 , 24.66 , 0 , 780 , 503 , 1526561
03:49:14 Move to Near Focus HFD
03:49:23 11440 , 15.15 , 0 , 781 , 502 , 1530640
03:49:23 ** Starting Near Focus **
03:49:23 Position , HFD , Mean Best Focus , X , Y , Flux
03:49:23 11440 , 15.15 , 11482 , 781 , 502 , 1530640
03:49:29 11440 , 14.97 , 11482 , 781 , 502 , 1570971
03:49:33 11440 , 15.60 , 11483 , 781 , 502 , 1584411
03:49:39 11440 , 15.15 , 11482 , 781 , 502 , 1564665
03:49:46 11440 , 14.48 , 11482 , 781 , 501 , 1584297
03:49:46 Best Focus is: 11482
03:49:55 11482 , 4.33 , 11482 , 782 , 503 , 1466400
03:49:55 Focusing Completed
03:49:55 Focus time = 77 sec
03:50:02 Single Exp. HFD: 4.43 @ 11482 X: 782 Y: 503 Flux: 1451897
03:50:06 Single Exp. HFD: 4.48 @ 11482 X: 782 Y: 502 Flux: 1474947
03:50:11 Single Exp. HFD: 4.42 @ 11482 X: 782 Y: 502 Flux: 1458237
03:50:16 Single Exp. HFD: 4.47 @ 11482 X: 784 Y: 501 Flux: 1464773
03:50:21 Single Exp. HFD: 4.53 @ 11482 X: 783 Y: 502 Flux: 1450658
03:57:00
03:57:00 System: c8_st8_cfw10_f10
03:57:00 ** Beginning Focus run **
03:57:00 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
03:57:00 Move direction: Out
03:57:00 Temperature = 603.0
03:57:00 Filter number = 0
03:57:00 Focus Start HFD: 25
03:57:10 Target star found at X = 855, Y = 554
03:57:10 Focus exposures will be 1.00 sec
03:57:16 Position , HFD , Mean Best Focus , X , Y , Flux
03:57:16 11482 , 4.29 , 0 , 853 , 556 , 1414825
03:57:27 Star is too close to frame edge or is too weak; increasing
frame size
03:57:27 Increasing frame width
03:57:35 11424 , 20.54 , 0 , 843 , 588 , 1590433
03:57:35 On correct side of focus
03:57:35 Moving to start HFD
03:57:45 11411 , 25.99 , 0 , 844 , 589 , 1546178

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03:57:45 Move to Near Focus HFD
03:57:53 11442 , 14.61 , 0 , 844 , 590 , 1586777
03:57:53 ** Starting Near Focus **
03:57:53 Position , HFD , Mean Best Focus , X , Y , Flux
03:57:53 11442 , 14.61 , 11483 , 844 , 590 , 1586777
03:58:00 11442 , 14.48 , 11483 , 843 , 590 , 1583311
03:58:07 11442 , 14.08 , 11482 , 843 , 590 , 1528896
03:58:11 11442 , 14.23 , 11482 , 842 , 591 , 1562640
03:58:17 11442 , 14.34 , 11482 , 842 , 590 , 1542833
03:58:17 Best Focus is: 11482
03:58:26 11482 , 4.55 , 11482 , 844 , 592 , 1476612
03:58:26 Focusing Completed
03:58:26 Focus time = 86 sec
03:58:34 Single Exp. HFD: 4.59 @ 11482 X: 843 Y: 592 Flux: 1431104
03:58:38 Single Exp. HFD: 4.64 @ 11482 X: 843 Y: 592 Flux: 1450471
03:58:43 Single Exp. HFD: 4.66 @ 11482 X: 843 Y: 591 Flux: 1474320
03:58:48 Single Exp. HFD: 4.63 @ 11482 X: 842 Y: 591 Flux: 1465060
03:58:54 Single Exp. HFD: 4.83 @ 11482 X: 843 Y: 591 Flux: 1474624
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