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21:16:32 FocusMax Version 3.2.1
21:16:32 System is c8_st8_cfw10_f10
21:16:32 RoboFocus Control Program is connected
21:16:32 CCDSoft V 5.1.7.0 is the Imaging Software
21:16:44 PinPoint is not connected
21:16:44 Warning - NOVAS-COM Vector Astrometry Engine is not connected
21:16:44 and is required with telescope use. Please download from
21:16:44 DC3 ASCOM Download Library at
21:16:44 http://ascom-standards.org/downloads.html
21:23:22
21:23:22 System: c8_st8_cfw10_f10
21:23:22 ** Beginning Focus run **
21:23:22 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
21:23:22 Move direction: Out
21:23:22 Filter number = 0
21:23:22 Focus Start HFD: 25
21:23:31 Target star found at x = 754, Y = 516
21:23:31 Focus exposures will be 1.00 sec
21:23:37 Position , HFD , Mean Best Focus , X , Y , Flux
21:23:37 11470 , 3.35 , 0 , 751 , 512 , 125401
21:23:48 11409 , 22.59 , 0 , 737 , 514 , 123491
21:23:48 On correct side of focus
21:23:48 Moving to start HFD
21:23:56 11402 , 25.15 , 0 , 735 , 514 , 126486
21:23:56 Move to Near Focus HFD
21:24:04 11431 , 14.56 , 0 , 733 , 514 , 127659
21:24:04 ** Starting Near Focus **
21:24:04 Position , HFD , Mean Best Focus , X , Y , Flux
21:24:04 11431 , 14.56 , 11472 , 733 , 514 , 127659
21:24:10 11431 , 15.11 , 11472 , 734 , 515 , 131810
21:24:17 11431 , 14.82 , 11472 , 735 , 517 , 132174
21:24:20 11431 , 14.72 , 11472 , 734 , 516 , 130229
21:24:23 11431 , 14.91 , 11472 , 735 , 516 , 131187
21:24:23 Best Focus is: 11472
21:24:32 11472 , 3.07 , 11472 , 733 , 516 , 127099
21:24:32 Focusing Completed
21:24:33 Focus time = 71 sec
22:01:01
22:01:01 System: c8_st8_cfw10_f10
22:01:01 ** Beginning Focus run **
22:01:01 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
22:01:01 Move direction: Out
22:01:02 Temperature = 609.0
22:01:02 Filter number = 1
22:01:02 Focus Start HFD: 25
22:01:11 Target star found at x = 756, Y = 504
22:01:11 Focus exposures will be 1.00 sec
22:01:18 Position , HFD , Mean Best Focus , X , Y , Flux
22:01:18 11472 , 4.04 , 0 , 760 , 503 , 42728
22:01:29 11413 , 22.33 , 0 , 759 , 505 , 47045
22:01:29 On correct side of focus
22:01:29 Moving to start HFD
22:01:38 11405 , 25.18 , 0 , 759 , 506 , 49372
22:01:38 Move to Near Focus HFD
22:01:47 11434 , 15.29 , 0 , 759 , 505 , 48271
22:01:47 ** Starting Near Focus **
22:01:47 Position , HFD , Mean Best Focus , X , Y , Flux
22:01:47 11434 , 15.29 , 11477 , 759 , 505 , 48271
22:01:54 11434 , 15.33 , 11477 , 760 , 506 , 47540
22:01:57 11434 , 14.99 , 11476 , 759 , 504 , 47922
22:02:04 11434 , 15.19 , 11476 , 759 , 506 , 45824
22:02:11 11434 , 14.86 , 11476 , 760 , 506 , 46673
22:02:11 Best Focus is: 11476
22:02:20 11476 , 4.62 , 11476 , 758 , 508 , 47059
22:02:21 Focusing Completed

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22:02:21 Focus time = 80 sec  
 22:02:29 Single Exp. HFD: 4.22 @ 11476 X: 760 Y: 509 Flux: 44863  
 22:02:34 Single Exp. HFD: 4.41 @ 11476 X: 759 Y: 509 Flux: 46423  
 22:02:39 Single Exp. HFD: 4.38 @ 11476 X: 760 Y: 509 Flux: 45668  
 22:02:44 Single Exp. HFD: 4.91 @ 11476 X: 760 Y: 509 Flux: 48717  
 22:02:49 Single Exp. HFD: 4.86 @ 11476 X: 760 Y: 510 Flux: 46575  
 22:25:51  
 22:25:51 System: c8\_st8\_cfw10\_f10  
 22:25:51 \*\* Beginning Focus run \*\*  
 22:25:51 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15  
 22:25:51 Move direction: Out  
 22:25:52 Temperature = 608.0  
 22:25:52 Filter number = 1  
 22:25:52 Focus Start HFD: 25  
 22:26:01 Target star found at X = 757, Y = 507  
 22:26:01 Focus exposures will be 1.00 sec  
 22:26:08 Position , HFD , Mean Best Focus , X , Y , Flux  
 22:26:08 11476 , 4.39 , 0 , 760 , 511 , 47706  
 22:26:19 11418 , 20.66 , 0 , 756 , 512 , 49061  
 22:26:19 On correct side of focus  
 22:26:19 Moving to start HFD  
 22:26:29 11406 , 24.39 , 0 , 756 , 512 , 44833  
 22:26:29 Move to Near Focus HFD  
 22:26:37 11432 , 15.73 , 0 , 756 , 512 , 46649  
 22:26:37 \*\* Starting Near Focus \*\*  
 22:26:37 Position , HFD , Mean Best Focus , X , Y , Flux  
 22:26:37 11432 , 15.73 , 11476 , 756 , 512 , 46649  
 22:26:44 11432 , 15.33 , 11475 , 756 , 511 , 50348  
 22:26:48 11432 , 15.62 , 11475 , 757 , 512 , 49760  
 22:26:52 11432 , 15.77 , 11476 , 756 , 512 , 46394  
 22:26:55 11432 , 15.71 , 11476 , 756 , 513 , 48068  
 22:26:55 Best Focus is: 11476  
 22:27:04 11476 , 4.28 , 11476 , 754 , 513 , 49207  
 22:27:04 Focusing Completed  
 22:27:04 Focus time = 73 sec  
 22:27:12 Single Exp. HFD: 4.72 @ 11476 X: 756 Y: 513 Flux: 46060  
 22:27:16 Single Exp. HFD: 4.47 @ 11476 X: 757 Y: 512 Flux: 49243  
 22:27:21 Single Exp. HFD: 4.64 @ 11476 X: 757 Y: 512 Flux: 47067  
 22:27:26 Single Exp. HFD: 4.65 @ 11476 X: 758 Y: 513 Flux: 47457  
 22:27:31 Single Exp. HFD: 4.64 @ 11476 X: 757 Y: 511 Flux: 51287  
 22:36:12  
 22:36:12 System: c8\_st8\_cfw10\_f10  
 22:36:12 \*\* Beginning Focus run \*\*  
 22:36:12 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15  
 22:36:12 Move direction: Out  
 22:36:12 Temperature = 610.0  
 22:36:12 Filter number = 1  
 22:36:12 Focus Start HFD: 25  
 22:36:22 Target star found at X = 767, Y = 505  
 22:36:22 Focus exposures will be 1.00 sec  
 22:36:29 Position , HFD , Mean Best Focus , X , Y , Flux  
 22:36:29 11476 , 4.46 , 0 , 763 , 504 , 48158  
 22:36:40 11418 , 20.89 , 0 , 761 , 505 , 47936  
 22:36:40 On correct side of focus  
 22:36:40 Moving to start HFD  
 22:36:50 11406 , 24.73 , 0 , 760 , 505 , 47226  
 22:36:50 Move to Near Focus HFD  
 22:36:58 11433 , 15.55 , 0 , 760 , 504 , 47520  
 22:36:58 \*\* Starting Near Focus \*\*  
 22:36:58 Position , HFD , Mean Best Focus , X , Y , Flux  
 22:36:58 11433 , 15.55 , 11476 , 760 , 504 , 47520  
 22:37:05 11433 , 15.28 , 11476 , 760 , 503 , 47178  
 22:37:12 11433 , 14.74 , 11475 , 761 , 503 , 47549  
 22:37:15 11433 , 15.17 , 11475 , 762 , 502 , 46904  
 22:37:22 11433 , 15.32 , 11475 , 761 , 503 , 49082

22:37:22 Best Focus is: 11475  
22:37:31 11475 , 3.95 , 11475 , 760 , 501 , 46341  
22:37:32 Focusing Completed  
22:37:32 Focus time = 80 sec  
22:37:39 Single Exp. HFD: 4.31 @ 11475 X: 761 Y: 501 Flux: 51292  
22:37:44 Single Exp. HFD: 4.11 @ 11475 X: 762 Y: 501 Flux: 47580  
22:37:48 Single Exp. HFD: 4.04 @ 11475 X: 762 Y: 501 Flux: 46963  
22:37:54 Single Exp. HFD: 3.87 @ 11475 X: 762 Y: 501 Flux: 48471  
22:37:59 Single Exp. HFD: 4.14 @ 11475 X: 762 Y: 501 Flux: 49278  
22:41:38  
22:41:38 System: c8\_st8\_cfw10\_f10  
22:41:38 \*\* Beginning Focus run \*\*  
22:41:38 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15  
22:41:38 Move direction: Out  
22:41:38 Temperature = 610.0  
22:41:38 Filter number = 1  
22:41:38 Focus Start HFD: 25  
22:41:48 Target star found at X = 847, Y = 498  
22:41:48 Focus exposures will be 1.00 sec  
22:41:54 Position , HFD , Mean Best Focus , X , Y , Flux  
22:41:54 11475 , 3.71 , 0 , 846 , 497 , 45947  
22:42:06 11415 , 21.83 , 0 , 845 , 498 , 50346  
22:42:06 On correct side of focus  
22:42:06 Moving to start HFD  
22:42:15 11406 , 24.89 , 0 , 845 , 498 , 48858  
22:42:15 Move to Near Focus HFD  
22:42:23 11434 , 14.94 , 0 , 844 , 497 , 48320  
22:42:23 \*\* Starting Near Focus \*\*  
22:42:23 Position , HFD , Mean Best Focus , X , Y , Flux  
22:42:23 11434 , 14.94 , 11476 , 844 , 497 , 48320  
22:42:30 11434 , 14.65 , 11475 , 845 , 497 , 50403  
22:42:34 11434 , 14.76 , 11475 , 845 , 497 , 49063  
22:42:37 11434 , 14.48 , 11475 , 845 , 496 , 47579  
22:42:44 11434 , 14.58 , 11475 , 845 , 497 , 47968  
22:42:44 Best Focus is: 11475  
22:42:53 11475 , 3.56 , 11475 , 842 , 497 , 45950  
22:42:53 Focusing Completed  
22:42:53 Focus time = 75 sec  
22:43:01 Single Exp. HFD: 3.74 @ 11475 X: 843 Y: 498 Flux: 49785  
22:43:05 Single Exp. HFD: 4.05 @ 11475 X: 843 Y: 498 Flux: 48211  
22:43:10 Single Exp. HFD: 3.89 @ 11475 X: 843 Y: 498 Flux: 49830  
22:43:15 Single Exp. HFD: 4.00 @ 11475 X: 843 Y: 498 Flux: 47767  
22:43:20 Single Exp. HFD: 4.14 @ 11475 X: 843 Y: 498 Flux: 50038  
23:06:59  
23:06:59 System: c8\_st8\_cfw10\_f10  
23:06:59 \*\* Beginning Focus run \*\*  
23:06:59 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15  
23:06:59 Move direction: Out  
23:06:59 Temperature = 609.0  
23:06:59 Filter number = 2  
23:06:59 Focus Start HFD: 25  
23:07:09 Target star found at X = 756, Y = 505  
23:07:09 Focus exposures will be 1.00 sec  
23:07:15 Position , HFD , Mean Best Focus , X , Y , Flux  
23:07:15 11475 , 3.31 , 0 , 760 , 503 , 33133  
23:07:27 11414 , 21.72 , 0 , 758 , 503 , 32735  
23:07:27 On correct side of focus  
23:07:27 Moving to start HFD  
23:07:36 11405 , 24.38 , 0 , 756 , 503 , 31666  
23:07:36 Move to Near Focus HFD  
23:07:44 11431 , 15.78 , 0 , 756 , 503 , 33797  
23:07:44 \*\* Starting Near Focus \*\*  
23:07:44 Position , HFD , Mean Best Focus , X , Y , Flux  
23:07:44 11431 , 15.78 , 11475 , 756 , 503 , 33797  
23:07:51 11431 , 15.92 , 11475 , 757 , 503 , 34494

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23:07:58 11431 , 15.44 , 11475 , 757 , 502 , 34166
23:08:05 11431 , 15.11 , 11474 , 757 , 501 , 32862
23:08:11 11431 , 15.30 , 11474 , 757 , 501 , 35167
23:08:11 Best Focus is: 11474
23:08:20 11474 , 3.26 , 11474 , 756 , 501 , 32531
23:08:21 Focusing Completed
23:08:21 Focus time = 82 sec
23:08:29 Single Exp. HFD: 3.44 @ 11474 X: 757 Y: 501 Flux: 33127
23:08:33 Single Exp. HFD: 3.28 @ 11474 X: 757 Y: 501 Flux: 33270
23:08:38 Single Exp. HFD: 3.24 @ 11474 X: 757 Y: 500 Flux: 31974
23:08:43 Single Exp. HFD: 3.35 @ 11474 X: 757 Y: 501 Flux: 33629
23:08:48 Single Exp. HFD: 3.53 @ 11474 X: 757 Y: 499 Flux: 33456
23:31:41
23:31:41 System: c8_st8_cfw10_f10
23:31:41 ** Beginning Focus run **
23:31:41 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:31:41 Move direction: Out
23:31:42 Temperature = 609.0
23:31:42 Filter number = 2
23:31:42 Focus Start HFD: 25
23:31:51 Target star found at X = 768, Y = 518
23:31:51 Focus exposures will be 1.00 sec
23:31:59 Position , HFD , Mean Best Focus , X , Y , Flux
23:31:59 11474 , 2.99 , 0 , 767 , 518 , 33991
23:32:10 11412 , 22.56 , 0 , 763 , 519 , 33344
23:32:10 On correct side of focus
23:32:10 Moving to start HFD
23:32:19 11405 , 25.22 , 0 , 763 , 519 , 35343
23:32:19 Move to Near Focus HFD
23:32:28 11434 , 14.50 , 0 , 762 , 519 , 34349
23:32:28 ** Starting Near Focus **
23:32:28 Position , HFD , Mean Best Focus , X , Y , Flux
23:32:28 11434 , 14.50 , 11474 , 762 , 519 , 34349
23:32:34 11434 , 14.05 , 11474 , 764 , 518 , 34114
23:32:38 11434 , 14.15 , 11474 , 764 , 517 , 35078
23:32:45 11434 , 14.09 , 11474 , 764 , 517 , 33651
23:32:49 11434 , 14.45 , 11474 , 764 , 517 , 34569
23:32:49 Best Focus is: 11474
23:32:57 11474 , 3.21 , 11474 , 762 , 517 , 35462
23:32:57 Focusing Completed
23:32:57 Focus time = 76 sec
23:33:05 Single Exp. HFD: 3.20 @ 11474 X: 763 Y: 517 Flux: 34843
23:33:09 Single Exp. HFD: 3.24 @ 11474 X: 763 Y: 516 Flux: 35164
23:33:14 Single Exp. HFD: 3.18 @ 11474 X: 763 Y: 516 Flux: 34555
23:33:19 Single Exp. HFD: 3.58 @ 11474 X: 764 Y: 517 Flux: 35162
23:33:24 Single Exp. HFD: 3.14 @ 11474 X: 763 Y: 516 Flux: 36368
23:56:26
23:56:26 System: c8_st8_cfw10_f10
23:56:26 ** Beginning Focus run **
23:56:26 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
23:56:26 Move direction: Out
23:56:26 Temperature = 610.0
23:56:26 Filter number = 3
23:56:26 Focus Start HFD: 25
23:56:36 Target star found at X = 770, Y = 508
23:56:36 Focus exposures will be 1.00 sec
23:56:43 Position , HFD , Mean Best Focus , X , Y , Flux
23:56:43 11474 , 3.33 , 0 , 766 , 508 , 22589
23:56:55 11413 , 21.68 , 0 , 762 , 507 , 24351
23:56:55 On correct side of focus
23:56:55 Moving to start HFD
23:57:04 11404 , 24.64 , 0 , 762 , 508 , 24102
23:57:04 Move to Near Focus HFD
23:57:09 11431 , 15.32 , 0 , 761 , 508 , 21671
23:57:09 ** Starting Near Focus **

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23:57:09 Position , HFD , Mean Best Focus , X , Y , Flux
23:57:09 11431 , 15.32 , 11474 , 761 , 508 , 21671
23:57:16 11431 , 14.89 , 11473 , 763 , 507 , 23650
23:57:23 11431 , 15.11 , 11473 , 762 , 508 , 22731
23:57:30 11431 , 15.19 , 11473 , 762 , 508 , 23467
23:57:33 11431 , 15.02 , 11473 , 763 , 508 , 22002
23:57:33 Best Focus is: 11473
23:57:43 11473 , 3.15 , 11473 , 761 , 508 , 23297
23:57:44 Focusing Completed
23:57:44 Focus time = 77 sec
23:57:52 Single Exp. HFD: 3.20 @ 11473 X: 762 Y: 508 Flux: 23761
23:57:55 Single Exp. HFD: 3.20 @ 11473 X: 763 Y: 509 Flux: 22553
23:58:00 Single Exp. HFD: 2.90 @ 11473 X: 763 Y: 509 Flux: 23117
23:58:05 Single Exp. HFD: 2.94 @ 11473 X: 763 Y: 510 Flux: 23429
23:58:11 Single Exp. HFD: 3.07 @ 11473 X: 763 Y: 509 Flux: 23110
00:21:18
00:21:18 System: c8_st8_cfw10_f10
00:21:18 ** Beginning Focus run **
00:21:18 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
00:21:18 Move direction: Out
00:21:18 Temperature = 608.0
00:21:18 Filter number = 3
00:21:18 Focus Start HFD: 25
00:21:28 Target star found at X = 760, Y = 508
00:21:28 Focus exposures will be 1.00 sec
00:21:35 Star is too close to frame edge or is too weak
00:21:35 Increasing frame width
00:21:42 Position , HFD , Mean Best Focus , X , Y , Flux
00:21:42 11473 , 3.34 , 0 , 763 , 506 , 23015
00:21:54 11412 , 22.13 , 0 , 758 , 508 , 24506
00:21:54 On correct side of focus
00:21:54 Moving to start HFD
00:22:03 11404 , 24.69 , 0 , 758 , 508 , 23484
00:22:03 Move to Near Focus HFD
00:22:08 11431 , 15.42 , 0 , 757 , 508 , 24540
00:22:08 ** Starting Near Focus **
00:22:08 Position , HFD , Mean Best Focus , X , Y , Flux
00:22:08 11431 , 15.42 , 11474 , 757 , 508 , 24540
00:22:14 11431 , 15.53 , 11474 , 758 , 507 , 24062
00:22:21 11431 , 15.11 , 11474 , 759 , 507 , 24801
00:22:28 11431 , 14.95 , 11474 , 759 , 507 , 24374
00:22:35 11431 , 15.09 , 11473 , 759 , 509 , 23316
00:22:35 Best Focus is: 11473
00:22:44 11473 , 3.09 , 11473 , 757 , 508 , 23543
00:22:44 Focusing Completed
00:22:44 Focus time = 85 sec
00:22:52 Single Exp. HFD: 2.74 @ 11473 X: 758 Y: 508 Flux: 24093
00:22:56 Single Exp. HFD: 3.27 @ 11473 X: 758 Y: 509 Flux: 22981
00:23:01 Single Exp. HFD: 2.89 @ 11473 X: 759 Y: 508 Flux: 23081
00:23:06 Single Exp. HFD: 2.82 @ 11473 X: 759 Y: 508 Flux: 24084
00:23:11 Single Exp. HFD: 3.07 @ 11473 X: 759 Y: 509 Flux: 24123
00:46:14
00:46:14 System: c8_st8_cfw10_f10
00:46:14 ** Beginning Focus run **
00:46:14 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
00:46:14 Move direction: Out
00:46:15 Temperature = 608.0
00:46:15 Filter number = 0
00:46:15 Focus Start HFD: 25
00:46:24 Target star found at X = 767, Y = 508
00:46:24 Focus exposures will be 1.00 sec
00:46:31 Position , HFD , Mean Best Focus , X , Y , Flux
00:46:31 11473 , 3.34 , 0 , 764 , 511 , 119986
00:46:42 11412 , 22.75 , 0 , 761 , 511 , 124085
00:46:42 On correct side of focus

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00:46:42 Moving to start HFD
00:46:52 11406 , 24.48 , 0 , 760 , 511 , 126151
00:46:52 Move to Near Focus HFD
00:47:00 11433 , 14.41 , 0 , 759 , 511 , 124008
00:47:00 ** Starting Near Focus **
00:47:00 Position , HFD , Mean Best Focus , X , Y , Flux
00:47:00 11433 , 14.41 , 11473 , 759 , 511 , 124008
00:47:06 11433 , 14.19 , 11473 , 761 , 512 , 123810
00:47:13 11433 , 14.67 , 11473 , 761 , 511 , 121504
00:47:20 11433 , 14.48 , 11473 , 761 , 511 , 126146
00:47:24 11433 , 14.11 , 11473 , 760 , 512 , 120029
00:47:24 Best Focus is: 11473
00:47:33 11473 , 2.93 , 11473 , 759 , 512 , 121685
00:47:33 Focusing Completed
00:47:33 Focus time = 78 sec
00:47:40 Single Exp. HFD: 2.94 @ 11473 X: 760 Y: 512 Flux: 124831
00:47:44 Single Exp. HFD: 3.05 @ 11473 X: 760 Y: 512 Flux: 122953
00:47:49 Single Exp. HFD: 2.77 @ 11473 X: 760 Y: 511 Flux: 124614
00:47:54 Single Exp. HFD: 2.91 @ 11473 X: 760 Y: 511 Flux: 122661
00:47:59 Single Exp. HFD: 2.91 @ 11473 X: 760 Y: 511 Flux: 123038
01:21:03
01:21:03 System: c8_st8_cfw10_f10
01:21:03 ** Beginning Focus run **
01:21:03 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
01:21:03 Move direction: Out
01:21:03 Temperature = 606.0
01:21:03 Filter number = 0
01:21:03 Focus Start HFD: 25
01:21:13 Target star found at x = 760, Y = 505
01:21:13 Focus exposures will be 1.00 sec
01:21:19 Position , HFD , Mean Best Focus , X , Y , Flux
01:21:19 11473 , 2.74 , 0 , 762 , 507 , 117840
01:21:31 11410 , 21.96 , 0 , 760 , 507 , 122887
01:21:31 On correct side of focus
01:21:31 Moving to start HFD
01:21:40 11401 , 25.01 , 0 , 759 , 507 , 122372
01:21:40 Move to Near Focus HFD
01:21:49 11429 , 15.30 , 0 , 758 , 507 , 123350
01:21:49 ** Starting Near Focus **
01:21:49 Position , HFD , Mean Best Focus , X , Y , Flux
01:21:49 11429 , 15.30 , 11472 , 758 , 507 , 123350
01:21:55 11429 , 15.43 , 11472 , 759 , 508 , 122869
01:22:02 11429 , 15.19 , 11472 , 759 , 507 , 121685
01:22:09 11429 , 14.83 , 11471 , 759 , 506 , 121534
01:22:15 11429 , 14.92 , 11471 , 759 , 506 , 121511
01:22:15 Best Focus is: 11471
01:22:24 11471 , 3.05 , 11471 , 758 , 507 , 122305
01:22:25 Focusing Completed
01:22:25 Focus time = 83 sec
01:22:33 Single Exp. HFD: 2.81 @ 11471 X: 759 Y: 508 Flux: 121636
01:22:37 Single Exp. HFD: 2.86 @ 11471 X: 759 Y: 508 Flux: 121036
01:22:42 Single Exp. HFD: 2.83 @ 11471 X: 759 Y: 507 Flux: 119096
01:22:47 Single Exp. HFD: 2.92 @ 11471 X: 759 Y: 507 Flux: 119442
01:22:52 Single Exp. HFD: 2.91 @ 11471 X: 759 Y: 507 Flux: 121695
01:55:56
01:55:56 System: c8_st8_cfw10_f10
01:55:56 ** Beginning Focus run **
01:55:56 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
01:55:56 Move direction: Out
01:55:56 Temperature = 604.0
01:55:56 Filter number = 0
01:55:56 Focus Start HFD: 25
01:56:06 Target star found at x = 768, Y = 501
01:56:06 Focus exposures will be 1.00 sec
01:56:12 Position , HFD , Mean Best Focus , X , Y , Flux

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01:56:12 11471 , 2.84 , 0 , 765 , 499 , 116464
01:56:24 11408 , 22.38 , 0 , 763 , 498 , 123701
01:56:24 On correct side of focus
01:56:24 Moving to start HFD
01:56:33 11401 , 24.63 , 0 , 763 , 499 , 122684
01:56:33 Move to Near Focus HFD
01:56:41 11428 , 15.21 , 0 , 762 , 499 , 121632
01:56:41 ** Starting Near Focus **
01:56:41 Position , HFD , Mean Best Focus , X , Y , Flux
01:56:41 11428 , 15.21 , 11470 , 762 , 499 , 121632
01:56:48 11428 , 14.73 , 11470 , 762 , 499 , 118967
01:56:52 11428 , 14.76 , 11470 , 763 , 499 , 118805
01:56:58 11428 , 15.40 , 11470 , 763 , 500 , 122396
01:57:05 11428 , 14.71 , 11470 , 763 , 499 , 121079
01:57:05 Best Focus is: 11470
01:57:14 11470 , 2.86 , 11470 , 761 , 500 , 116201
01:57:15 Focusing Completed
01:57:15 Focus time = 80 sec
01:57:23 Single Exp. HFD: 2.96 @ 11470 X: 762 Y: 500 Flux: 120729
01:57:27 Single Exp. HFD: 2.75 @ 11470 X: 762 Y: 500 Flux: 120658
01:57:32 Single Exp. HFD: 2.90 @ 11470 X: 762 Y: 501 Flux: 119917
01:57:37 Single Exp. HFD: 2.71 @ 11470 X: 762 Y: 501 Flux: 119845
01:57:42 Single Exp. HFD: 2.87 @ 11470 X: 762 Y: 502 Flux: 120778
02:30:55
02:30:55 System: c8_st8_cfw10_f10
02:30:55 ** Beginning Focus run **
02:30:55 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
02:30:55 Move direction: Out
02:30:55 Temperature = 603.0
02:30:55 Filter number = 0
02:30:55 Focus Start HFD: 25
02:31:05 Target star found at x = 763, Y = 515
02:31:05 Focus exposures will be 1.00 sec
02:31:12 Position , HFD , Mean Best Focus , X , Y , Flux
02:31:12 11470 , 2.77 , 0 , 762 , 513 , 116272
02:31:24 11407 , 22.11 , 0 , 761 , 515 , 120057
02:31:24 On correct side of focus
02:31:24 Moving to start HFD
02:31:33 11399 , 24.97 , 0 , 760 , 515 , 120270
02:31:33 Move to Near Focus HFD
02:31:41 11427 , 15.78 , 0 , 759 , 514 , 122538
02:31:41 ** Starting Near Focus **
02:31:41 Position , HFD , Mean Best Focus , X , Y , Flux
02:31:41 11427 , 15.78 , 11471 , 759 , 514 , 122538
02:31:48 11427 , 14.97 , 11470 , 760 , 515 , 123063
02:31:54 11427 , 15.57 , 11470 , 760 , 516 , 119694
02:31:58 11427 , 15.41 , 11470 , 760 , 515 , 119066
02:32:05 11427 , 15.60 , 11470 , 760 , 516 , 123779
02:32:05 Best Focus is: 11470
02:32:14 11470 , 2.69 , 11470 , 760 , 517 , 116237
02:32:14 Focusing Completed
02:32:14 Focus time = 79 sec
02:32:21 Single Exp. HFD: 2.94 @ 11470 X: 761 Y: 516 Flux: 120351
02:32:25 Single Exp. HFD: 2.87 @ 11470 X: 760 Y: 516 Flux: 117920
02:32:30 Single Exp. HFD: 2.91 @ 11470 X: 760 Y: 516 Flux: 121116
02:32:35 Single Exp. HFD: 2.75 @ 11470 X: 760 Y: 516 Flux: 119838
02:32:40 Single Exp. HFD: 2.86 @ 11470 X: 760 Y: 517 Flux: 120537
02:36:08
02:36:08 System: c8_st8_cfw10_f10
02:36:08 ** Beginning Focus run **
02:36:08 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
02:36:08 Move direction: Out
02:36:08 Temperature = 603.0
02:36:08 Filter number = 0
02:36:08 Focus Start HFD: 25

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02:36:18 Target star found at X = 756, Y = 503
02:36:18 Focus exposures will be 1.00 sec
02:36:25 Position , HFD , Mean Best Focus , X , Y , Flux
02:36:25 11470 , 2.91 , 0 , 759 , 501 , 116565
02:36:36 11408 , 22.20 , 0 , 758 , 503 , 121439
02:36:36 On correct side of focus
02:36:36 Moving to start HFD
02:36:46 11400 , 25.09 , 0 , 757 , 503 , 122403
02:36:46 Move to Near Focus HFD
02:36:54 11428 , 15.06 , 0 , 757 , 502 , 124147
02:36:54 ** Starting Near Focus **
02:36:54 Position , HFD , Mean Best Focus , X , Y , Flux
02:36:54 11428 , 15.06 , 11470 , 757 , 502 , 124147
02:37:01 11428 , 15.05 , 11470 , 757 , 502 , 121030
02:37:08 11428 , 15.05 , 11470 , 757 , 502 , 119950
02:37:12 11428 , 14.99 , 11470 , 758 , 502 , 120210
02:37:15 11428 , 15.12 , 11470 , 757 , 503 , 119750
02:37:15 Best Focus is: 11470
02:37:24 11470 , 2.84 , 11470 , 756 , 504 , 120412
02:37:24 Focusing Completed
02:37:24 Focus time = 76 sec
02:37:32 Single Exp. HFD: 2.72 @ 11470 X: 757 Y: 504 Flux: 118651
02:37:36 Single Exp. HFD: 2.60 @ 11470 X: 758 Y: 505 Flux: 120625
02:37:41 Single Exp. HFD: 2.90 @ 11470 X: 758 Y: 504 Flux: 117165
02:37:46 Single Exp. HFD: 2.69 @ 11470 X: 757 Y: 504 Flux: 118106
02:37:51 Single Exp. HFD: 2.61 @ 11470 X: 757 Y: 504 Flux: 119757
04:41:56
04:41:56 System: c8_st8_cfw10_f10
04:41:56 ** Beginning Focus run **
04:41:56 LS: -0.354353 RS: 0.354219 PID: 0.98 NFHFD: 15
04:41:56 Move direction: Out
04:41:56 Temperature = 602.0
04:41:56 Filter number = 0
04:41:56 Focus Start HFD: 25
04:42:05 Target star found at X = 757, Y = 508
04:42:05 Focus exposures will be 1.00 sec
04:42:12 Position , HFD , Mean Best Focus , X , Y , Flux
04:42:12 11470 , 4.81 , 0 , 759 , 510 , 42941
04:42:22 11413 , 22.05 , 0 , 761 , 513 , 47793
04:42:22 On correct side of focus
04:42:22 Moving to start HFD
04:42:31 11405 , 25.56 , 0 , 759 , 513 , 47394
04:42:31 Move to Near Focus HFD
04:42:39 11435 , 15.36 , 0 , 758 , 514 , 42802
04:42:39 ** Starting Near Focus **
04:42:39 Position , HFD , Mean Best Focus , X , Y , Flux
04:42:39 11435 , 15.36 , 11478 , 758 , 514 , 42802
04:42:45 11435 , 14.86 , 11477 , 758 , 514 , 40953
04:42:51 11435 , 14.98 , 11477 , 759 , 514 , 37734
04:42:55 11435 , 14.58 , 11477 , 759 , 515 , 35451
04:43:01 11435 , 14.58 , 11476 , 759 , 516 , 34954
04:43:01 Best Focus is: 11476
04:43:09 11476 , 4.82 , 11476 , 756 , 518 , 46615
04:43:10 Focusing Completed
04:43:10 Focus time = 74 sec

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