

|                                             |              |            |  |
|---------------------------------------------|--------------|------------|--|
| Object: 1 <i>eta Cassiopeiae</i>            | Date: 4/3/18 | Time: 9:58 |  |
| Instrument: 36"                             | Seeing: 7    | Power: 336 |  |
| Description: Brt white with faint yellowish |              |            |  |

|                                 |               |             |  |
|---------------------------------|---------------|-------------|--|
| Object: 2 <i>65 Piscium</i>     | Date: 11/3/18 | Time: 10:06 |  |
| Instrument: 36"                 | Seeing: 7     | Power: 336  |  |
| Description: Similar brightness |               |             |  |

|                                |              |             |  |
|--------------------------------|--------------|-------------|--|
| Object: 3 <i>Psi 1 Piscium</i> | Date: 4/3/18 | Time: 10:13 |  |
| Instrument: 36"                | Seeing: 7    | Power: 336  |  |
| Description:                   |              |             |  |

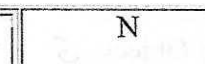
|                               |               |             |  |
|-------------------------------|---------------|-------------|--|
| Object: 4 <i>Zeta Piscium</i> | Date: 11/3/18 | Time: 10:26 |  |
| Instrument: 36"               | Seeing: 7     | Power: 336  |  |
| Description: Same but         |               |             |  |

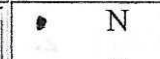
|                                |               |             |  |
|--------------------------------|---------------|-------------|--|
| Object: 5 <i>Gamma Arietis</i> | Date: 11/3/18 | Time: 10:27 |  |
| Instrument: 36"                | Seeing: 7     | Power: 336  |  |
| Description: Same but          |               |             |  |

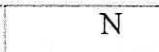
|                                         |               |             |  |
|-----------------------------------------|---------------|-------------|--|
| Object: 6 <i>Lambda Arietis</i>         | Date: 11/3/18 | Time: 10:33 |  |
| Instrument: 36"                         | Seeing: 7     | Power: 336  |  |
| Description: Fainter is a little yellow |               |             |  |

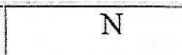
|                      |               |              |             |                                                                                     |
|----------------------|---------------|--------------|-------------|-------------------------------------------------------------------------------------|
| Object: 7            | Alpha Piscium | Date: 4/3/18 | Time: 10:38 |  |
| Instrument: 36"      |               | Seeing: 7    | Power: 336  |                                                                                     |
| Description: Sun Brt |               |              |             |                                                                                     |

|                                      |                  |              |             |                                                                                     |
|--------------------------------------|------------------|--------------|-------------|-------------------------------------------------------------------------------------|
| Object: 8                            | Gamma Andromedae | Date: 4/3/18 | Time: 11:08 |  |
| Instrument: 36"                      |                  | Seeing: 7    | Power: 336  |                                                                                     |
| Description: Br + yellow / Blue pair |                  |              |             |                                                                                     |

|                                |                 |               |             |                                                                                     |
|--------------------------------|-----------------|---------------|-------------|-------------------------------------------------------------------------------------|
| Object: 9                      | Delta Trianguli | Date: 11/3/18 | Time: 11:14 |  |
| Instrument: 36"                |                 | Seeing: 7     | Power: 336  |                                                                                     |
| Description: yellow/blue pair. |                 |               |             |                                                                                     |

|                                                                     |              |             |                                                                                      |
|---------------------------------------------------------------------|--------------|-------------|--------------------------------------------------------------------------------------|
| Object: 10 Alpha Ursa Minoris                                       | Date: 4/3/18 | Time: 11:31 |  |
| Instrument: 36"                                                     | Seeing: 7    | Power: 334  |                                                                                      |
| Description: Very hard to position Scope. 1st * is slightly blueish |              |             |                                                                                      |

|                                       |            |               |             |                                                                                       |
|---------------------------------------|------------|---------------|-------------|---------------------------------------------------------------------------------------|
| Object: 11                            | Gamma Ceti | Date: 11/3/18 | Time: 11:51 |  |
| Instrument: 36"                       |            | Seeing: 7     | Power: 336  |                                                                                       |
| Description: Very close. St & blueish |            |               |             |                                                                                       |

|                                           |               |             |                                                                                       |
|-------------------------------------------|---------------|-------------|---------------------------------------------------------------------------------------|
| Object: 12 Eta Persei                     | Date: 11/3/18 | Time: 11:57 |  |
| Instrument: 36"                           | Seeing: 7     | Power: 736  |                                                                                       |
| Description: Beautiful yellow / Blue pair |               |             |                                                                                       |

|                 |            |               |             |  |
|-----------------|------------|---------------|-------------|--|
| Object: 13      | Strave 331 | Date: 11/3/18 | Time: 12:01 |  |
| Instrument: 36" | Seeing: 7  | Power: 336    |             |  |
| Description:    |            |               |             |  |

|                                      |            |               |             |  |
|--------------------------------------|------------|---------------|-------------|--|
| Object: 14                           | 32 Eridani | Date: 11/3/18 | Time: 12:18 |  |
| Instrument: 36"                      | Seeing: 7  | Power: 336    |             |  |
| Description: Nice yellow / Blue pair |            |               |             |  |

|                                 |           |              |            |  |
|---------------------------------|-----------|--------------|------------|--|
| Object: 15                      | Chi Tauri | Date: 2/6/16 | Time: 7:39 |  |
| Instrument: 36"                 | Seeing: 7 | Power: 336   |            |  |
| Description: Blue Reddish pair. |           |              |            |  |

|                                 |                  |              |            |  |
|---------------------------------|------------------|--------------|------------|--|
| Object: 16                      | 1 Camelopardalis | Date: 2/6/16 | Time: 7:46 |  |
| Instrument: 36"                 | Seeing: 7        | Power: 336   |            |  |
| Description: Pair for * blueish |                  |              |            |  |

|                                                            |            |              |            |  |
|------------------------------------------------------------|------------|--------------|------------|--|
| Object: 17                                                 | 55 Eridani | Date: 2/6/16 | Time: 7:53 |  |
| Instrument: 36"                                            | Seeing: 7  | Power: 336   |            |  |
| Description: Very similar to #14. Similar Mag, Color close |            |              |            |  |

|                         |              |              |            |  |
|-------------------------|--------------|--------------|------------|--|
| Object: 18              | Beta Orionis | Date: 2/6/16 | Time: 8:53 |  |
| Instrument: 36"         | Seeing: 7    | Power: 336   |            |  |
| Description: Very close |              |              |            |  |

|                                                                         |           |               |            |                                                                                     |
|-------------------------------------------------------------------------|-----------|---------------|------------|-------------------------------------------------------------------------------------|
| Object: 19                                                              | 118 Tauri | Date: 3/17/18 | Time: 8:29 |  |
| Instrument: 36 <sup>4</sup>                                             |           | Seeing: 8     | Power: 336 |                                                                                     |
| Description: Slight difference in Mag. Southern most slightly brighter. |           |               |            |                                                                                     |

|                                       |                      |              |            |                                                                                          |
|---------------------------------------|----------------------|--------------|------------|------------------------------------------------------------------------------------------|
| Object: 20                            | <i>Delta Orionis</i> | Date: 2/6/16 | Time: 9:05 | N<br> |
| Instrument:                           | 36"                  | Seeing: 7    | Power: 336 |                                                                                          |
| Description: <i>Similar in color.</i> |                      |              |            |                                                                                          |

|                                                  |                   |              |            |                                                                                          |
|--------------------------------------------------|-------------------|--------------|------------|------------------------------------------------------------------------------------------|
| Object: 21                                       | <i>Struve 747</i> | Date: 2/6/16 | Time: 9:10 | N<br> |
| Instrument: 36"                                  |                   | Seeing: 7    | Power: 336 |                                                                                          |
| Description: <i>Similar color and brightness</i> |                   |              |            |                                                                                          |

|                                      |                       |              |            |
|--------------------------------------|-----------------------|--------------|------------|
| Object: 22                           | <i>Lambda Orionis</i> | Date: 2/6/16 | Time: 9:19 |
| Instrument: 36"                      |                       | Seeing: 7    | Power: 336 |
| Description: <i>Similar in Color</i> |                       |              |            |

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|                                            |                 |              |            |
|--------------------------------------------|-----------------|--------------|------------|
| Object: 23                                 | Theta 1 Orionis | Date: 2/6/16 | Time: 9:21 |
| Instrument: 36"                            |                 | Seeing: 7    | Power: 336 |
| Description: Similar in color. West of M42 |                 |              |            |

N



|                                  |              |              |            |                                                                                                    |
|----------------------------------|--------------|--------------|------------|----------------------------------------------------------------------------------------------------|
| Object: 24                       | Iota Orionis | Date: 2/6/16 | Time: 9:29 | <div>N</div>  |
| Instrument: 36"                  |              | Seeing: 7    | Power: 336 |                                                                                                    |
| Description: Fainter * yellowish |              |              |            |                                                                                                    |

|                                    |              |            |                      |
|------------------------------------|--------------|------------|----------------------|
| Object: 25 Theta 2 Orionis         | Date: 2/6/16 | Time: 9:29 | N<br><br>SEE #<br>23 |
| Instrument: 36"                    | Seeing: 7    | Power: 336 |                      |
| Description: See #23, heart of M42 |              |            |                      |

|                                 |              |            |                      |
|---------------------------------|--------------|------------|----------------------|
| Object: 26 <i>Sigma Orionis</i> | Date: 2/6/16 | Time: 9:30 | N<br><br>.<br>.<br>. |
| Instrument: 36"                 | Seeing: 7    | Power: 336 |                      |
| Description:                    |              |            |                      |

|                                                    |              |            |            |
|----------------------------------------------------|--------------|------------|------------|
| Object: 27 <i>Zeta Orionis</i>                     | Date: 2/6/16 | Time: 9:31 | N<br><br>. |
| Instrument: 36"                                    | Seeing: 7    | Power: 336 |            |
| Description: <i>Saunders # is slightly Reddish</i> |              |            |            |

|                                             |                      |              |            |                     |
|---------------------------------------------|----------------------|--------------|------------|---------------------|
| Object: 28                                  | <i>Gamma Leporis</i> | Date: 2/6/16 | Time: 9:44 | N<br><br>●<br><br>. |
| Instrument: 36"                             |                      | Seeing: 7    | Power: 336 |                     |
| Description: <i>Saunter &amp; yellowish</i> |                      |              |            |                     |

|                                       |              |             |            |
|---------------------------------------|--------------|-------------|------------|
| Object: 29 Theta Aurigae              | Date: 2/6/16 | Time: 10:58 | N<br><br>● |
| Instrument: 36"                       | Seeing: 7    | Power: 336  |            |
| Description: Bnt * Blue, St * reddish |              |             |            |

|                                     |              |            |            |
|-------------------------------------|--------------|------------|------------|
| Object: 30 Epsilon Monocerotis      | Date: 2/6/16 | Time: 9:58 | N<br><br>. |
| Instrument: 36"                     | Seeing: 7    | Power: 336 |            |
| Description: S* Saucier + yellowish |              |            |            |

|                                    |              |             |                                                                                          |
|------------------------------------|--------------|-------------|------------------------------------------------------------------------------------------|
| Object: 31 <i>Beta Monocerotis</i> | Date: 2/6/12 | Time: 10:03 | N<br> |
| Instrument: 36"                    | Seeing: 7    | Power: 336  |                                                                                          |
| Description: Same Color            |              |             |                                                                                          |

|                                 |              |             |                                                                                          |
|---------------------------------|--------------|-------------|------------------------------------------------------------------------------------------|
| Object: 32 <i>12 Lynx</i>       | Date: 2/6/12 | Time: 11:06 | N<br> |
| Instrument: 36"                 | Seeing: 8    | Power: 336  |                                                                                          |
| Description: Similar brightness |              |             |                                                                                          |

|                                         |              |             |                                                                                          |
|-----------------------------------------|--------------|-------------|------------------------------------------------------------------------------------------|
| Object: 33 <i>Epsilon Canis Majoris</i> | Date: 2/6/12 | Time: 10:08 | N<br> |
| Instrument: 36"                         | Seeing: 8    | Power: 336  |                                                                                          |
| Description:                            |              |             |                                                                                          |

|                                   |              |             |                                                                                            |
|-----------------------------------|--------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 34 <i>Delta Geminorum</i> | Date: 2/6/12 | Time: 10:40 | N<br> |
| Instrument: 36"                   | Seeing: 8    | Power: 336  |                                                                                            |
| Description: f* reddish           |              |             |                                                                                            |

|                                 |              |             |                                                                                            |
|---------------------------------|--------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 35 <i>19 Lynx</i>       | Date: 2/6/12 | Time: 11:10 | N<br> |
| Instrument: 36"                 | Seeing: 8    | Power: 336  |                                                                                            |
| Description: f* slightly yellow |              |             |                                                                                            |

|                                   |              |             |                                                                                            |
|-----------------------------------|--------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 36 <i>Alpha Geminorum</i> | Date: 2/6/12 | Time: 11:15 | N<br> |
| Instrument: 36"                   | Seeing: 8    | Power: 336  |                                                                                            |
| Description: Similar brightness   |              |             |                                                                                            |

|                                                  |              |             |                                                                                          |
|--------------------------------------------------|--------------|-------------|------------------------------------------------------------------------------------------|
| Object: 37 Kappa Puppis                          | Date: 2/6/16 | Time: 10:45 | N<br> |
| Instrument: 36"                                  | Seeing: 8    | Power:      |                                                                                          |
| Description: Similar color and brightness PA 320 |              |             |                                                                                          |

|                                                  |               |             |                                                                                          |
|--------------------------------------------------|---------------|-------------|------------------------------------------------------------------------------------------|
| Object: 38 Zeta Cancri                           | Date: 1/29/14 | Time: 11:26 | N<br> |
| Instrument: 36" WKB f/6.2                        | Seeing: Avg 6 | Power: 336  |                                                                                          |
| Description: fainter one slightly more yellowed. |               |             |                                                                                          |

|                                                   |               |             |                                                                                          |
|---------------------------------------------------|---------------|-------------|------------------------------------------------------------------------------------------|
| Object: 39 Iota Cancri                            | Date: 1/29/14 | Time: 11:35 | N<br> |
| Instrument: 36" WKB f/6.2                         | Seeing: Avg 6 | Power: 336  |                                                                                          |
| Description: B + * yellow. other blue. nice pair. |               |             |                                                                                          |

|                                                        |               |             |                                                                                            |
|--------------------------------------------------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 40 38 Lynx                                     | Date: 1/29/14 | Time: 11:41 | N<br> |
| Instrument: 36" WKB f/6.2                              | Seeing: Avg 6 | Power: 336  |                                                                                            |
| Description: B + * blue. st * yellow. Very close pair. |               |             |                                                                                            |

|                             |               |             |                                                                                            |
|-----------------------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 41 Alpha Leonis     | Date: 1/29/14 | Time: 11:49 | N<br> |
| Instrument: 36" WKB f/6.2   | Seeing: Avg 6 | Power: 336  |                                                                                            |
| Description: st * orangish. |               |             |                                                                                            |

|                                                 |              |             |                                                                                            |
|-------------------------------------------------|--------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 42 Gamma Leonis                         | Date: 2/6/16 | Time: 11:25 | N<br> |
| Instrument: 36                                  | Seeing: 8    | Power: 336  |                                                                                            |
| Description: Similar B + WSS and color. PAA 165 |              |             |                                                                                            |

|                             |               |             |                                                                                          |
|-----------------------------|---------------|-------------|------------------------------------------------------------------------------------------|
| Object: 43 54 Leonis        | Date: 3/17/18 | Time: 11:48 | N<br> |
| Instrument: 36"             | Seeing: 8     | Power: 336  |                                                                                          |
| Description: Eastmost star. |               |             |                                                                                          |

|                                      |               |                |                                                                                          |
|--------------------------------------|---------------|----------------|------------------------------------------------------------------------------------------|
| Object: 44 N Hydrae                  | Date: 3/18/18 | Time: 12:10 AM | N<br> |
| Instrument: 36"                      | Seeing: 8     | Power: 336     |                                                                                          |
| Description: Equal in Bnt and color. |               |                |                                                                                          |

|                                          |               |             |                                                                                          |
|------------------------------------------|---------------|-------------|------------------------------------------------------------------------------------------|
| Object: 45 Delta Corvi                   | Date: 3/18/18 | Time: 12:21 | N<br> |
| Instrument: 36"                          | Seeing: 8     | Power: 336  |                                                                                          |
| Description: Fainter & reddish in color. |               |             |                                                                                          |

|                                                          |               |             |                                                                                            |
|----------------------------------------------------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 46 24 Comae Berenices                            | Date: 3/18/18 | Time: 12:35 | N<br> |
| Instrument: 36"                                          | Seeing: 8     | Power: 336  |                                                                                            |
| Description: Blue yellow pair. yellow slightly brighter. |               |             |                                                                                            |

|                                                          |               |             |                                                                                            |
|----------------------------------------------------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 47 Gamma Virginis                                | Date: 3/18/18 | Time: 12:42 | N<br> |
| Instrument: 36"                                          | Seeing: 8     | Power: 376  |                                                                                            |
| Description: Very close Pair. Same Color and Brightness. |               |             |                                                                                            |

|                                         |               |            |                                                                                            |
|-----------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 48 32 Camelopardalis            | Date: 3/18/18 | Time: 2:29 | N<br> |
| Instrument: 36"                         | Seeing: 8     | Power: 336 |                                                                                            |
| Description: Same brightness and color. |               |            |                                                                                            |

|                                               |               |            |
|-----------------------------------------------|---------------|------------|
| Object: 49 <i>Alpha Canum<br/>Venaticorum</i> | Date: 3/18/18 | Time: 2:42 |
| Instrument: 36"                               | Seeing: 8     | Power: 336 |
| Description: <i>faint &amp; yellow.</i>       |               |            |

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|                                                              |               |            |
|--------------------------------------------------------------|---------------|------------|
| Object: 50 <i>Zeta Ursa Majoris</i>                          | Date: 3/18/18 | Time: 2:51 |
| Instrument: 36"                                              | Seeing: 8     | Power: 336 |
| Description: <i>Southern one slightly better. Same color</i> |               |            |

N

|                                                  |               |            |
|--------------------------------------------------|---------------|------------|
| Object: 51 <i>Kappa Bootis</i>                   | Date: 3/18/18 | Time: 2:56 |
| Instrument: 36"                                  | Seeing: 8     | Power: 336 |
| Description: <i>fainter one slightly yellow.</i> |               |            |

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|                                         |               |            |                                                                                            |
|-----------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 52 Iota Bootis                  | Date: 3/18/18 | Time: 3:00 | N<br> |
| Instrument: 36"                         | Seeing: 8     | Power: 336 |                                                                                            |
| Description: fainter & reddish in color |               |            |                                                                                            |

|                                              |               |            |                                                                                            |
|----------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 53 <i>Pi Bootis</i>                  | Date: 3/18/18 | Time: 3:07 | N<br> |
| Instrument: 36"                              | Seeing: 9     | Power: 336 |                                                                                            |
| Description: <i>Similar but &amp; color.</i> |               |            |                                                                                            |

|                                                                     |               |            |                                                                                            |
|---------------------------------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 54 Epsilon Bootis                                           | Date: 3/18/18 | Time: 3:15 | N<br> |
| Instrument: 36"                                                     | Seeing: 9     | Power: 336 |                                                                                            |
| Description: Yellow Blue Pair. Yellow more North & slightly better. |               |            |                                                                                            |

|                                                       |               |            |        |
|-------------------------------------------------------|---------------|------------|--------|
| Object: 55 <i>Alpha Librae</i>                        | Date: 3/18/18 | Time: 3:21 | N<br>• |
| Instrument: 36"                                       | Seeing: 9     | Power: 336 |        |
| Description: North most slightly Brter. Similar Color |               |            |        |

|                                                          |               |            |          |
|----------------------------------------------------------|---------------|------------|----------|
| Object: 56 <i>Xi Bootis</i>                              | Date: 3/18/18 | Time: 3:33 | N<br>• • |
| Instrument: 36"                                          | Seeing: 9     | Power: 336 |          |
| Description: Fainter & goldish in color. Very unimpaired |               |            |          |

|                                                          |               |            |        |
|----------------------------------------------------------|---------------|------------|--------|
| Object: 57 <i>Delta Bootis</i>                           | Date: 3/18/18 | Time: 3:38 | N<br>• |
| Instrument: 36"                                          | Seeing: 9     | Power: 336 |        |
| Description: Brt & yellowish. Fainter & somewhat blueish |               |            |        |

|                                   |               |            |        |
|-----------------------------------|---------------|------------|--------|
| Object: 58 <i>Mu Bootis</i>       | Date: 3/18/18 | Time: 3:42 | N<br>• |
| Instrument: 36"                   | Seeing: 9     | Power: 336 |        |
| Description: close pair yellowish |               |            |        |

|                                         |               |            |          |
|-----------------------------------------|---------------|------------|----------|
| Object: 59 <i>Delta Serpentis</i>       | Date: 3/18/18 | Time: 3:48 | N<br>• • |
| Instrument: 36"                         | Seeing: 9     | Power: 336 |          |
| Description: South most slightly Brter. |               |            |          |

|                                        |               |            |          |
|----------------------------------------|---------------|------------|----------|
| Object: 60 <i>Zeta Corona Borealis</i> | Date: 3/18/18 | Time: 3:55 | N<br>• • |
| Instrument: 36"                        | Seeing: 9     | Power: 336 |          |
| Description: Similar Color             |               |            |          |

|                                                |                   |               |            |                                                                                          |
|------------------------------------------------|-------------------|---------------|------------|------------------------------------------------------------------------------------------|
| Object: 61                                     | <i>Xi Scorpii</i> | Date: 3/18/18 | Time: 5:00 | N<br> |
| Instrument: 36"                                |                   | Seeing: 9     | Power: 336 |                                                                                          |
| Description: <i>fainter * somewhat Reddish</i> |                   |               |            |                                                                                          |

|                                             |                    |               |            |                                                                                          |
|---------------------------------------------|--------------------|---------------|------------|------------------------------------------------------------------------------------------|
| Object: 62                                  | <i>Struve 1999</i> | Date: 3/18/18 | Time: 5:02 | N<br> |
| Instrument: 36"                             |                    | Seeing: 9     | Power: 336 |                                                                                          |
| Description: <i>yellowish. similar Mag.</i> |                    |               |            |                                                                                          |

|                                    |                     |               |            |                                                                                          |
|------------------------------------|---------------------|---------------|------------|------------------------------------------------------------------------------------------|
| Object: 63                         | <i>Beta Scorpii</i> | Date: 3/18/18 | Time: 5:13 | N<br> |
| Instrument: 36"                    |                     | Seeing: 9     | Power: 336 |                                                                                          |
| Description: <i>Similar Colors</i> |                     |               |            |                                                                                          |

|                                                       |                       |               |            |                                                                                            |
|-------------------------------------------------------|-----------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 64                                            | <i>Kappa Herculis</i> | Date: 3/18/18 | Time: 5:26 | N<br> |
| Instrument: 36"                                       |                       | Seeing: 10    | Power: 336 |                                                                                            |
| Description: <i>Similar Color-yellowish. Sim Mag.</i> |                       |               |            |                                                                                            |

|                                                          |                   |               |            |                                                                                            |
|----------------------------------------------------------|-------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 65                                               | <i>Nu Scorpii</i> | Date: 3/18/18 | Time: 5:17 | N<br> |
| Instrument: 36"                                          |                   | Seeing: 9     | Power: 336 |                                                                                            |
| Description: <i>Close pair Similar in Mag and Color.</i> |                   |               |            |                                                                                            |

|                                             |                              |               |            |                                                                                            |
|---------------------------------------------|------------------------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 66                                  | <i>Sigma Corona Borealis</i> | Date: 3/18/18 | Time: 5:33 | N<br> |
| Instrument: 36"                             |                              | Seeing: 10    | Power: 336 |                                                                                            |
| Description: <i>Similar color yellowish</i> |                              |               |            |                                                                                            |

|                                    |                |               |            |                          |
|------------------------------------|----------------|---------------|------------|--------------------------|
| Object: 67                         | 16/17 Draconis | Date: 3/18/18 | Time: 5:40 | N<br><br>●<br><br><br>.. |
| Instrument: 36"                    |                | Seeing: 10    | Power: 336 |                          |
| Description: Similar Mag and color |                |               |            |                          |

|                                                |             |               |            |        |
|------------------------------------------------|-------------|---------------|------------|--------|
| Object: 68                                     | Mu Draconis | Date: 3/18/18 | Time: 5:43 | N<br>● |
| Instrument: 36"                                |             | Seeing: 10    | Power: 336 |        |
| Description: Similar color, slightly yellowish |             |               |            |        |

|                                        |                |               |            |
|----------------------------------------|----------------|---------------|------------|
| Object: 69                             | Alpha Herculis | Date: 3/18/18 | Time: 5:49 |
| Instrument: 36"                        |                | Seeing: 10    | Power: 336 |
| Description: gold and Blue Pair - nice |                |               |            |

|                                |                |               |            |          |
|--------------------------------|----------------|---------------|------------|----------|
| Object: 70                     | Delta Herculis | Date: 3/18/18 | Time: 5:53 | N<br>• • |
| Instrument: 36"                |                | Seeing: 10    | Power: 336 |          |
| Description: Fainter & Reddish |                |               |            |          |

|                                           |               |            |        |
|-------------------------------------------|---------------|------------|--------|
| Object: 71 36 Ophiuchi                    | Date: 3/18/18 | Time: 6:11 | N<br>● |
| Instrument: 36"                           | Seeing: 10    | Power:     |        |
| Description: Yellowish Pair. Similar Mag. |               |            |        |

|                                 |               |            |             |
|---------------------------------|---------------|------------|-------------|
| Object: 72 Omicron Ophiuchi     | Date: 3/18/18 | Time: 6:14 | N<br>●<br>● |
| Instrument: 36"                 | Seeing: 10    | Power: 336 |             |
| Description: yellow bluish Pair |               |            |             |

|                            |              |               |            |                                                                                          |
|----------------------------|--------------|---------------|------------|------------------------------------------------------------------------------------------|
| Object: 73                 | Rho Hercules | Date: 3/18/18 | Time: 5:58 | N<br> |
| Instrument: 36"            |              | Seeing: 10    | Power: 336 |                                                                                          |
| Description: Similar color |              |               |            |                                                                                          |

|                                    |             |               |            |   |
|------------------------------------|-------------|---------------|------------|---|
| Object: 74                         | Nu Draconis | Date: 3/18/18 | Time: 6:25 | N |
| Instrument: 36"                    |             | Seeing: 10    | Power: 336 |   |
| Description: Similar Mag and color |             |               |            |   |

|                                  |               |            |                                                                                          |
|----------------------------------|---------------|------------|------------------------------------------------------------------------------------------|
| Object: 75 Psi Draconis          | Date: 3/18/18 | Time: 6:29 | N<br> |
| Instrument: 36"                  | Seeing: 10    | Power: 336 |                                                                                          |
| Description: Similar Mag & color |               |            |                                                                                          |

|                                    |                |               |            |                                                                                            |
|------------------------------------|----------------|---------------|------------|--------------------------------------------------------------------------------------------|
| Object: 76                         | 40/41 Draconis | Date: 3/18/18 | Time: 6:36 | N<br> |
| Instrument:                        | 36"            | Seeing: 10    | Power: 336 |                                                                                            |
| Description: Similar Mag and color |                |               |            |                                                                                            |

|                                                          |             |               |             |                                                                                            |
|----------------------------------------------------------|-------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 77                                               | 95 Hercules | Date: 6/16/18 | Time: 12:55 | N<br> |
| Instrument: 36"                                          |             | Seeing: 7     | Power: 336  |                                                                                            |
| Description: Nice close pair. Brt Blue & Yellow SIM MAG. |             |               |             |                                                                                            |

|                                                    |             |               |             |                                                                                            |
|----------------------------------------------------|-------------|---------------|-------------|--------------------------------------------------------------------------------------------|
| Object: 78                                         | 70 Ophiuchi | Date: 6/16/18 | Time: 11:01 | N<br> |
| Instrument:                                        | 36"         | Seeing: 7     | Power: 336  |                                                                                            |
| Description: Yellow white pair. White slightly Brt |             |               |             |                                                                                            |

|                                                     |               |            |                       |
|-----------------------------------------------------|---------------|------------|-----------------------|
| Object: 79 Epsilon Lyrae                            | Date: 6/16/18 | Time: 1:13 | N<br>••<br><br>•<br>• |
| Instrument: 36"                                     | Seeing: 7     | Power: 336 |                       |
| Description: Excellent, Southern Most Blue & yellow |               |            |                       |

|                                       |               |            |                     |
|---------------------------------------|---------------|------------|---------------------|
| Object: 80 Zeta Lyrae                 | Date: 6/16/18 | Time: 1:18 | N<br><br>•<br><br>• |
| Instrument: 36"                       | Seeing: 7     | Power: 336 |                     |
| Description: SE. Star slightly better |               |            |                     |

|                                                  |                   |               |            |                 |
|--------------------------------------------------|-------------------|---------------|------------|-----------------|
| Object: 81                                       | <i>Beta Lyrae</i> | Date: 6/16/18 | Time: 1:22 | N<br>•<br><br>• |
| Instrument:                                      | 36"               | Seeing: 7     | Power: 336 |                 |
| Description: <i>Best yellow, faint blue pair</i> |                   |               |            |                 |

|                                                                           |             |               |            |             |
|---------------------------------------------------------------------------|-------------|---------------|------------|-------------|
| Object: 82                                                                | Struve 2404 | Date: 6/16/18 | Time: 1:34 | N<br>•<br>• |
| Instrument: 36"                                                           |             | Seeing: 7     | Power: 336 |             |
| Description: Excellent Pair<br>Reddish Bronze color. 1* Better than other |             |               |            |             |

|                                                     |                |               |            |                 |
|-----------------------------------------------------|----------------|---------------|------------|-----------------|
| Object: 83                                          | 040 Struve 525 | Date: 6/16/18 | Time: 1:46 | N<br>•<br><br>• |
| Instrument: 36"                                     |                | Seeing: 7     | Power: 336 |                 |
| Description: yellow blue pair. Southern most better |                |               |            |                 |

|                                  |               |            |              |
|----------------------------------|---------------|------------|--------------|
| Object: 84 Theta Serpentis       | Date: 6/16/18 | Time: 1:44 | N<br><br>• • |
| Instrument: 36"                  | Seeing: 7     | Power: 336 |              |
| Description: Same Mag. But white |               |            |              |

|                                                          |               |            |             |
|----------------------------------------------------------|---------------|------------|-------------|
| Object: 85 <i>Beta Cygni</i>                             | Date: 6/16/18 | Time: 1:50 | N<br>●<br>● |
| Instrument: 36"                                          | Seeing: 7     | Power: 336 |             |
| Description: <i>Beautiful Bet Yellow &amp; Blue Pair</i> |               |            |             |

|                                              |               |            |             |
|----------------------------------------------|---------------|------------|-------------|
| Object: 86 <i>57 Aquilae</i>                 | Date: 6/16/18 | Time: 2:11 | N<br>●<br>● |
| Instrument: 36"                              | Seeing: 8     | Power: 336 |             |
| Description: <i>Brt yellow. Similar Mag.</i> |               |            |             |

#90

|                                                      |               |            |          |
|------------------------------------------------------|---------------|------------|----------|
| Object: <del>87</del> <i>31 Cygni</i>                | Date: 6/16/18 | Time: 2:48 | N<br>● ● |
| Instrument: 36"                                      | Seeing: 8     | Power: 336 |          |
| Description: <i>Nice Brt yellow, light Blue Pair</i> |               |            |          |

|                                                                      |               |            |        |
|----------------------------------------------------------------------|---------------|------------|--------|
| Object: 88 <i>Alpha Capricornus</i>                                  | Date: 6/16/18 | Time: 2:18 | N<br>● |
| Instrument: 36"                                                      | Seeing: 8     | Power: 336 |        |
| Description: <i>Very Brt yellow Pair - similar. Large Separation</i> |               |            |        |

|                                    |               |            |          |
|------------------------------------|---------------|------------|----------|
| Object: 89 <i>Beta Capricornus</i> | Date: 6/16/18 | Time: 2:25 | N<br>● ● |
| Instrument: 36"                    | Seeing: 8     | Power: 336 |          |
| Description:                       |               |            |          |

#87

|                                                                |               |            |        |
|----------------------------------------------------------------|---------------|------------|--------|
| Object: <del>88</del> <i>Gamma Delphinus</i>                   | Date: 6/16/18 | Time: 2:40 | N<br>● |
| Instrument: 36"                                                | Seeing: 8     | Power: 336 |        |
| Description: <i>Brt yellow &amp; Brt White wide Separation</i> |               |            |        |

#92

|                                                  |               |            |
|--------------------------------------------------|---------------|------------|
| Object: <del>81</del> 61 Cygni                   | Date: 6/16/18 | Time: 3:22 |
| Instrument: 36"                                  | Seeing: 7     | Power: 336 |
| Description: nice pair. Brt white with soft blue |               |            |

#91

|                                            |               |            |
|--------------------------------------------|---------------|------------|
| Object: <del>92</del> Beta Cephei          | Date: 6/16/18 | Time: 3:29 |
| Instrument: 36"                            | Seeing: 7     | Power: 336 |
| Description: nice yellowish pair. Same mag |               |            |

|                                               |               |            |
|-----------------------------------------------|---------------|------------|
| Object: 93 Struve 2816                        | Date: 6/16/18 | Time: 3:52 |
| Instrument: 36"                               | Seeing: 7     | Power: 336 |
| Description: nice Δ star's BATST is yellowish |               |            |

|                                                      |               |            |
|------------------------------------------------------|---------------|------------|
| Object: 94 Epsilon Pegasi                            | Date: 6/16/18 | Time: 3:40 |
| Instrument: 36"                                      | Seeing: 7     | Power: 336 |
| Description: Brt yellow and fainter blue pair - nice |               |            |

|                                         |               |            |
|-----------------------------------------|---------------|------------|
| Object: 95 Xi Cephei                    | Date: 6/16/18 | Time: 4:00 |
| Instrument: 36"                         | Seeing: 7     | Power: 336 |
| Description: Slight difference in color |               |            |

|                                                        |               |            |
|--------------------------------------------------------|---------------|------------|
| Object: 96 Zeta Aquarii                                | Date: 6/16/18 | Time: 4:18 |
| Instrument: 36"                                        | Seeing: 7     | Power: 336 |
| Description: Very close pair. Similar in brtness. Nice |               |            |

|                                          |               |            |             |
|------------------------------------------|---------------|------------|-------------|
| Object: 97 Delta Cephei                  | Date: 6/16/18 | Time: 4:40 | N<br>●<br>● |
| Instrument: 36"                          | Seeing: 7     | Power: 336 |             |
| Description: nice yellow and bluish pair |               |            |             |

|                                    |               |            |             |
|------------------------------------|---------------|------------|-------------|
| Object: 98 8 Lacerta               | Date: 6/16/18 | Time: 4:47 | N<br>●<br>● |
| Instrument: 36"                    | Seeing: 7     | Power: 336 |             |
| Description: Similar in brightness |               |            |             |

|                                              |               |            |             |
|----------------------------------------------|---------------|------------|-------------|
| Object: 99 94 Aquarii                        | Date: 6/16/18 | Time: 4:26 | N<br>●<br>● |
| Instrument: 36"                              | Seeing: 7     | Power: 336 |             |
| Description: nice yellowish and reddish pair |               |            |             |

|                                                   |               |            |             |
|---------------------------------------------------|---------------|------------|-------------|
| Object: 100 Sigma Cassiopeiae                     | Date: 6/13/18 | Time: 9:51 | N<br>●<br>E |
| Instrument: 36"                                   | Seeing: 6     | Power: 336 |             |
| Description: Not yellow white, fainter is bluish. |               |            |             |

|              |         |        |   |
|--------------|---------|--------|---|
| Object:      | Date:   | Time:  | N |
| Instrument:  | Seeing: | Power: |   |
| Description: |         |        |   |

|              |         |        |   |
|--------------|---------|--------|---|
| Object:      | Date:   | Time:  | N |
| Instrument:  | Seeing: | Power: |   |
| Description: |         |        |   |