

# Astronomical League Planetary Nebula Observing Club

|           |                  |                       |                           |                             |
|-----------|------------------|-----------------------|---------------------------|-----------------------------|
| <b>1</b>  | <b>NGC 40</b>    | <b>Cep H58-4</b>      | <b>Planetary Neb 3b+3</b> | <b>F,VS,R,VSMBM,*12SP</b>   |
|           | Oct 05 2016 12"  | 11mmT6 B,VS,R=G.      | OIII HELPS.               | NOT SURE ABOUT CENTRAL STAR |
|           | Nov 11 2009 12"  | 7.5mmW B,PS,R=G,      | CENTRAL STAR VISIBLE      |                             |
|           | Oct 06 2004 8"   | 7.5mmW MB,R,R=G       |                           |                             |
| <b>2</b>  | <b>NGC 246</b>   | <b>Psc H25-5</b>      | <b>Planetary Neb 3b</b>   | <b>VF,L,4*IN DIF NEB</b>    |
|           | Nov 28 2010 12"  | 7mm TV PF,PS,R=F,     | IRREGULAR SHAPE,          | NO CENTRAL STAR, OIII HELPS |
|           | Nov 21 2006 8"   | 11mmT6 F,L,R,R=G      |                           |                             |
| <b>3</b>  | <b>NGC 650</b>   | <b>Per M76 H193-1</b> | <b>Planetary Neb 3+6</b>  | <b>VB,P OF DNEB</b>         |
|           | Mar 16 2012 18"  | 17mmAT                | 2012 M.M.                 |                             |
|           | Mar 01 2011 12"  | 17mmAT                | M.M. 2011 -               | MANUAL SETTING CIRCLES      |
|           | Mar 08 2010 12"  | 11mmT6                | M.M. 2010                 | MANUAL SETTING CIRCLES      |
|           | Mar 20 2009 16"  | 26mm                  | MESSIER MARATHON -        | 2009                        |
|           | Oct 01 2006 1.9" | 12x50                 | PF,PS,R,R=F               |                             |
|           | Jul 24 2006 8"   | 11mmT6                | PF,L,R,R=G                |                             |
|           | Mar 19 2006 8"   | 19mmW                 | PF,L,VLE,R=G              |                             |
|           | Dec 01 2004 31"  | 11mmT6                | VB,HISB,R=E,              | SOLO EFFORT                 |
|           | Mar 19 2004 8"   | 25mmPL                | 2004 MESSIER MARATHON -   | ARGO NAVIS                  |
|           | Dec 26 2003 8"   | 25mmPL                | Q/M COLD                  |                             |
| <b>4</b>  | <b>IC 1747</b>   | <b>Cas</b>            | <b>Planetary Neb 3b</b>   |                             |
|           | Oct 31 2010 12"  | 7mm TV                | VF,VS,R=P.                | STELLAR                     |
|           | Sep 12 2010 12"  | 5.5mmN                | PF,VVS,R=P,               | STELLAR                     |
| <b>6</b>  | <b>IC 289</b>    | <b>Cas</b>            | <b>Planetary Neb 4+2</b>  |                             |
|           | Aug 31 2010 12"  | 7mm TV                | PF,PS,R=F.                | NO CENTRAL STAR NOTED.      |
| <b>7</b>  | <b>NGC 1360</b>  | <b>For</b>            | <b>Planetary Neb 3</b>    | <b>*8IN B,LNEB,E NS</b>     |
|           | Dec 28 2008 31"  | 17mmT4                | PF,PS,EL,R,R=G,           | CENTRAL STAR, OIII          |
| <b>8</b>  | <b>IC 351</b>    | <b>Per</b>            | <b>Planetary Neb 2a</b>   |                             |
|           | Dec 18 2006 31"  | 20mmUWPB,             | VS,R,R=G                  |                             |
| <b>9</b>  | <b>IC 2003</b>   | <b>Per</b>            | <b>Planetary Neb 2</b>    |                             |
|           | Dec 18 2006 31"  | 20mmUWB,              | VS,R,R=G                  |                             |
| <b>10</b> | <b>NGC 1501</b>  | <b>Cam H53-4</b>      | <b>Planetary Neb 3</b>    | <b>PLN,PB,PS,VLE,1'DIAM</b> |
|           | Oct 06 2004 8"   | 11mmT6                | MB,OVAL,HISB,R=G          |                             |
| <b>11</b> | <b>NGC 1514</b>  | <b>Tau H69-4</b>      | <b>Planetary Neb 3+2</b>  | <b>*9IN NEB3'DIAM</b>       |
|           | Dec 04 2004 8"   | 11mmT6                | VB,HISB,R=G               |                             |
| <b>12</b> | <b>NGC 1535</b>  | <b>Eri H26-4</b>      | <b>Planetary Neb 4+2c</b> | <b>PLN,VB,S,R,PS,VSMB,R</b> |
|           | Feb 17 2012 18"  | 11mmT6                | OIII FILTER -             | VERY NICE PLANETARY         |
|           | Nov 11 2009 12"  | 7.5mmW                | B,PS,R=G,                 | NO CENTRAL STAR NOTED.      |
|           | Dec 28 2008 31"  | 17mmT4                | VB,PS,R,R=G,              | BRIGHT CENTRAL STAR!!, OIII |
|           | Nov 21 2006 8"   | 11mmT6                | B,PS,R,                   | NO CENTRAL STAR,R=F         |
| <b>14</b> | <b>J 320</b>     | <b>Ori</b>            | <b>Planetary Neb 2+4</b>  |                             |
|           | Dec 28 2008 31"  | 17mmT4                | F,VS,OVAL,R=F,            | NO CENTRAL STAR             |
|           | Dec 15 2004 8"   | 7.5mmW                | VF,R=F                    |                             |

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|           |             |             |                |                                         |                             |                             |
|-----------|-------------|-------------|----------------|-----------------------------------------|-----------------------------|-----------------------------|
| <b>15</b> | <b>IC</b>   | <b>418</b>  | <b>Lep</b>     | <b>Planetary Neb 4</b>                  |                             |                             |
|           | Dec 28 2008 | 31"         | 17mmT4         | VB,VS,R,R=G, CENTRAL STAR               |                             |                             |
| <b>16</b> | <b>NGC</b>  | <b>2022</b> | <b>Ori</b>     | <b>H34-4</b>                            | <b>Planetary Neb 4+2</b>    | <b>PLN,PB,VS,VLE</b>        |
|           | Dec 28 2008 | 31"         | 17mmT4         | F,PS,OVAL,R=G, NO CENTRAL STAR          |                             |                             |
|           | Nov 22 2006 | 8"          | 11mmT6         | PF,S,R=F                                |                             |                             |
|           | Mar 09 2004 | 8"          | 25mmPL         | COMPTER = ARGO NAVIS                    |                             |                             |
| <b>17</b> | <b>IC</b>   | <b>2149</b> | <b>Aur</b>     | <b>Planetary Neb 3b+2</b>               |                             |                             |
|           | Nov 11 2009 | 12"         | 7.5mmW         | PB,PS,R=G, NO CENTRAL STAR NOTED        |                             |                             |
| <b>18</b> | <b>IC</b>   | <b>2165</b> | <b>CMa</b>     | <b>Planetary Neb 3b</b>                 |                             |                             |
|           | Dec 19 2006 | 31"         | 17mmT4         | VB,PS,R=G, NO CENTRAL STAR              |                             |                             |
| <b>21</b> | <b>NGC</b>  | <b>2346</b> | <b>Mon</b>     | <b>H65-4</b>                            | <b>Planetary Neb 3b+4</b>   | <b>*10AFF W/ S,VF,NEB</b>   |
|           | Feb 17 2012 | 18"         | 11mmT6         | OIII FILTER - VERY NICE PLANETARY       |                             |                             |
|           | Apr 09 2008 | 8"          | 11mmT6         | PF,PS,NO CENTRAL STAR,R=F               |                             |                             |
| <b>22</b> | <b>NGC</b>  | <b>2371</b> | <b>Gem</b>     | <b>H316-2</b>                           | <b>Planetary Neb 3a+2</b>   | <b>B,S,R,BMN,P OF DNEB</b>  |
|           | Feb 23 2006 | 31"         | 19mmW          | FAIRLY LONG, ELONG,MSB,R=G              |                             |                             |
|           | Dec 04 2004 | 8"          | 7.5mmW         | MF,OVAL,R=G                             |                             |                             |
| <b>24</b> | <b>NGC</b>  | <b>2392</b> | <b>Gem</b>     | <b>H45-4</b>                            | <b>Planetary Neb 3b+3b</b>  | <b>B,S,R,*9M,*8NF100"</b>   |
|           | May 22 2015 | 12"         | 8mm Ds         | NO FILTER NEEDED CENTRAL STAR VISIBLE   |                             |                             |
|           | Dec 04 2004 | 8"          | 7.5mmW         | VB,R,HISB,R=E!!!                        |                             |                             |
|           | Nov 06 2004 | 8"          | 11mmT6         | NOT A BAD PLANETARY                     |                             |                             |
| <b>25</b> | <b>NGC</b>  | <b>2438</b> | <b>Pup</b>     | <b>H39-4</b>                            | <b>Planetary Neb 4+2</b>    | <b>PLN,PB,PS,VLE,R</b>      |
|           | Feb 17 2012 | 18"         | 11mmT6         | OIII FILTER - VERY NICE PLANETARY       |                             |                             |
|           | Mar 13 2007 | 8"          | 7.5mmW         | VF,VS,R=F, NO CENTRAL STAR              |                             |                             |
| <b>26</b> | <b>NGC</b>  | <b>2440</b> | <b>Pup</b>     | <b>H64-4</b>                            | <b>Planetary Neb 5+3</b>    | <b>PLN,CB,NOT VWELL DEF</b> |
|           | Feb 17 2012 | 18"         | 7mm TV         | OIII FILTER - VERY NICE PLANETARY       |                             |                             |
|           | Mar 13 2007 | 8"          | 7.5mmW         | F,PS,R=F,IRREGULAR IN SHAPE             |                             |                             |
| <b>27</b> | <b>NGC</b>  | <b>2452</b> | <b>Pup</b>     | <b>Planetary Neb 4+3</b>                | <b>PLN,F,S,LE,AM60*</b>     |                             |
|           | Nov 22 2006 | 8"          | 11mmT6         | PF,PS,R=F                               |                             |                             |
| <b>29</b> | <b>NGC</b>  | <b>2610</b> | <b>Hya</b>     | <b>H35-4</b>                            | <b>Planetary Neb 4+2</b>    | <b>F,S,ATTTO*13,*7NF</b>    |
|           | Mar 29 2006 | 8"          | 11mmT6         | PF,PS,R=F                               |                             |                             |
| <b>33</b> | <b>NGC</b>  | <b>3242</b> | <b>Hya</b>     | <b>H27-4</b>                            | <b>Planetary Neb 4+3b</b>   | <b>PLN,VB,LE147,45"D</b>    |
|           | May 22 2015 | 12"         | 8mm Ds         | NO FILTER CENTRAL STAR NOT VISIBLE      |                             |                             |
|           | Apr 08 2005 | 8"          | 7.5mmW         | VB,VL,R,R=G                             |                             |                             |
| <b>34</b> | <b>NGC</b>  | <b>3587</b> | <b>UMa M97</b> | <b>Planetary Neb 3a</b>                 | <b>PLN,VB,VL,R,VVG,VSBM</b> |                             |
|           | Apr 14 2016 | 12"         | 8mm Ds         | PRETTY FAINT. NO FILTER USED.           |                             |                             |
|           | Aug 15 2015 | 12"         | 11mmT6         |                                         |                             |                             |
|           | May 23 2015 | 12"         | 11mmT6         |                                         |                             |                             |
|           | Jul 13 2013 | 18"         | 7mm TV         | MORE EYE CANDY                          |                             |                             |
|           | May 23 2012 | 18"         | 17mmAT         | EYE CANDY                               |                             |                             |
|           | Mar 16 2012 | 18"         | 17mmAT         | 2012 M.M.                               |                             |                             |
|           | Jul 04 2011 | 12"         | 11mmT6         | LAST OBJECT OF THE NIGHT. BACK TO WORK. |                             |                             |

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|             |              |             |                   |                                                                     |                             |
|-------------|--------------|-------------|-------------------|---------------------------------------------------------------------|-----------------------------|
| <b>34</b>   | <b>NGC</b>   | <b>3587</b> | <b>UMa M97</b>    | <b>Planetary Neb 3a</b>                                             | <b>PLN,VB,VL,R,VVG,VSBM</b> |
| Mar 01 2011 | 12"          | 17mmAT      | M.M. 2011 -       | MANUAL SETTING CIRCLES                                              |                             |
| Mar 08 2010 | 12"          | 26mm        | M.M. 2010         | MANUAL SETTING CIRCLES                                              |                             |
| Mar 20 2009 | 16"          | 26mm        | MESSIER           | MARATHON - 2009                                                     |                             |
| Mar 08 2007 | 1.9"         | 12x50       | B,R,R=G.          | LOOKS STELLAR                                                       |                             |
| Aug 20 2006 | 1.9"         | 12x50       | PF,VS,AV,R=F      |                                                                     |                             |
| Mar 19 2006 | 8"           | 19mmW       | PB,L,R,R=G        |                                                                     |                             |
| Mar 19 2004 | 8"           | 25mmPL      | 2004 MESSIER      | MARATHON - ARGO NAVIS                                               |                             |
| Dec 26 2003 | 8"           | 25mmPL      | Q/M               | COLD                                                                |                             |
| <b>35</b>   | <b>NGC</b>   | <b>4361</b> | <b>Crv H65-1</b>  | <b>Planetary Neb 3a+2</b>                                           | <b>VB,L,R,VSMBMN,R</b>      |
| May 04 2005 | 8"           | 11mmT6      | VF,VS,R,AV,R=F    |                                                                     |                             |
| <b>36</b>   | <b>IC</b>    | <b>3568</b> | <b>Cam</b>        | <b>Planetary Neb 2+2a</b>                                           |                             |
| Jun 07 2010 | 12"          | 7.5mmW      | PB,VS,R=F.        | ALMOST STELLER                                                      |                             |
| <b>38</b>   | <b>ABELL</b> | <b>36</b>   | <b>Vir</b>        | <b>Planetary Neb</b>                                                |                             |
| Jul 13 2013 | 18"          | 11mmT6      | VF,VS,R=F.        | NO CENTRAL STAR NOTED. USED OIII FILTER.                            |                             |
| <b>41</b>   | <b>NGC</b>   | <b>6058</b> | <b>Her H637-3</b> | <b>Planetary Neb 3+2</b>                                            | <b>PF,VS,R,STELLAR</b>      |
| Nov 13 2007 | 8"           | 11mmT6      | VF,VS,AV,R=F,     | NO CENTRAL STAR                                                     |                             |
| <b>42</b>   | <b>IC</b>    | <b>4593</b> | <b>Her</b>        | <b>Planetary Neb 2+2</b>                                            |                             |
| Jun 03 2005 | 31"          | 19mmW       | VB,VS,R,HISB,R=G  |                                                                     |                             |
| <b>44</b>   | <b>NGC</b>   | <b>6153</b> | <b>Sco</b>        | <b>Planetary Neb 4</b>                                              | <b>PLN,STELLAR</b>          |
| Jul 14 2010 | 12"          | 7.5mmW      | PF,CS,R,R=F,      | NO CENTRAL STAR OBSERVED.                                           |                             |
| <b>45</b>   | <b>NGC</b>   | <b>6210</b> | <b>Her</b>        | <b>Planetary Neb 2+3b</b>                                           | <b>PLN,VB,VS,R,DISC</b>     |
| Jun 17 2016 | 12"          | 8mm Ds      | TURTLE            | PLANETARY. NO CENTRAL STAR NOTED                                    |                             |
| Sep 19 2014 | 12"          | 11mmT6      | B,VS,R=F,SITS     | ATOP 3-STAR TRIANGLE -N.N., HOME - 8/14/14                          |                             |
| Jun 19 2004 | 8"           | 25mmPL      | GOOD              | NIGHT - MEGASTAR                                                    |                             |
| <b>46</b>   | <b>IC</b>    | <b>4634</b> | <b>Oph</b>        | <b>Planetary Neb 2a+3</b>                                           |                             |
| Jul 31 2005 | 8"           | 7.5mmW      | VVF,VS,AV,R=F     |                                                                     |                             |
| <b>48</b>   | <b>NGC</b>   | <b>6302</b> | <b>Sco</b>        | <b>Planetary Neb 6</b>                                              | <b>PB,E PF,(SWIFT,TRIP)</b> |
| Jul 09 2005 | 8"           | 11mmT6      | MB,VS,R,R=G       |                                                                     |                             |
| <b>49</b>   | <b>NGC</b>   | <b>6309</b> | <b>Oph</b>        | <b>Planetary Neb 3b+6</b>                                           | <b>B,S,BET2*VNR</b>         |
| Jul 03 2005 | 8"           | 11mmT6      | MF,MS,PATCHY,R=F  |                                                                     |                             |
| <b>50</b>   | <b>NGC</b>   | <b>6337</b> | <b>Sco</b>        | <b>Planetary Neb 4</b>                                              | <b>RINGNEB,EF,S,AM ST</b>   |
| Jul 31 2011 | 12"          | 7mm TV      | F,VS,,R=F,SMUDGE  | WITH TWO FOREGROUND STARS                                           |                             |
| <b>51</b>   | <b>NGC</b>   | <b>6369</b> | <b>Oph H11-4</b>  | <b>Planetary Neb 4+2</b>                                            | <b>RINGNEB,PB,S,R</b>       |
| Jul 09 2005 | 8"           | 11mmT6      | MB,MS,R,R=G       |                                                                     |                             |
| <b>52</b>   | <b>NGC</b>   | <b>6445</b> | <b>Sgr H586-2</b> | <b>Planetary Neb 3b+3</b>                                           | <b>PB,PS,R,GBM,R,*15NP</b>  |
| Jul 09 2005 | 8"           | 11mmT6      | MB,ML,MSB,R=G     |                                                                     |                             |
| <b>54</b>   | <b>NGC</b>   | <b>6543</b> | <b>Dra H37-4</b>  | <b>Planetary Neb 3a+2</b>                                           | <b>PLN,VB,PS,SBMVSN</b>     |
| Oct 21 2012 | 8"           | 5mm TV      | B,PS,OV           | AL IN SHAPE,R=F                                                     |                             |
| Sep 05 2010 | 12"          | 5.5mmN      | PB,PS,R=G,        | NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE |                             |

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|           |                  |                   |                                             |                             |
|-----------|------------------|-------------------|---------------------------------------------|-----------------------------|
| <b>54</b> | <b>NGC 6543</b>  | <b>Dra H37-4</b>  | <b>Planetary Neb 3a+2</b>                   | <b>PLN,VB,PS,SBMVSN</b>     |
|           | Jul 09 2005 8"   | 11mmT6            | VB,VS,OVAL,R=G                              |                             |
|           | Apr 13 2005 8"   | 11mmT6            | VB,VS,R,R=G                                 |                             |
| <b>55</b> | <b>NGC 6537</b>  | <b>Sgr</b>        | <b>Planetary Neb 2a+6</b>                   | <b>PLN,B,S,STELLAR</b>      |
|           | Aug 12 2005 8"   | 7.5mmW            | VF,VS,AV,R=F                                |                             |
| <b>57</b> | <b>NGC 6563</b>  | <b>Sgr</b>        | <b>Planetary Neb 3a</b>                     | <b>PLN,F,L,CE,HAZY EDGE</b> |
|           | Aug 29 2010 12"  | 7mm TV            | PF,PS,R=F. NO CENTRAL STAR NOTED            |                             |
| <b>58</b> | <b>NGC 6572</b>  | <b>Oph</b>        | <b>Planetary Neb 2a</b>                     | <b>PLN,VB,VS,R,LHAZY</b>    |
|           | Jul 23 2006 8"   | 7.5mmW            | CB,CS,R,R=G                                 |                             |
|           | Jul 31 2005 8"   | 11mmT6            | VB,VS,R,R=F                                 |                             |
| <b>59</b> | <b>NGC 6567</b>  | <b>Sgr</b>        | <b>Planetary Neb 2a+3</b>                   | <b>PLN,STELL,11M,IN ACL</b> |
|           | Sep 05 2007 8"   | 11mmT6            | VF,PS,NO CENTRAL STAR,R=F                   |                             |
| <b>62</b> | <b>NGC 6629</b>  | <b>Sgr H204-2</b> | <b>Planetary Neb 2a</b>                     | <b>PLNORGCL,PB,EES,R</b>    |
|           | Jul 09 2005 8"   | 11mmT6            | VF,VS,AV,R=F                                |                             |
| <b>63</b> | <b>NGC 6644</b>  | <b>Sgr</b>        | <b>Planetary Neb 2</b>                      | <b>PLN,STELLAR</b>          |
|           | Sep 05 2007 8"   | 11mmT6            | VF,VS,AV,R=F                                |                             |
| <b>64</b> | <b>IC 4732</b>   | <b>Sgr</b>        | <b>Planetary Neb 1</b>                      |                             |
|           | Sep 05 2007 8"   | 11mmT6            | VF,ES,AV,NO CENTRAL STAR,R=F                |                             |
| <b>65</b> | <b>IC 4776</b>   | <b>Sgr</b>        | <b>Planetary Neb 2a</b>                     |                             |
|           | Aug 24 2012 18"  | 8.8 ES            | PF,PS, R=F, OIII FILTER,                    |                             |
| <b>66</b> | <b>NGC 6720</b>  | <b>Lyr M57</b>    | <b>Planetary Neb 4+3</b>                    | <b>RINGNEB,B,PL,CE,LYRA</b> |
|           | Jul 02 2017 12"  | 17mmT4            | SURPRISINGLY NOT TOO BAD                    |                             |
|           | Jul 05 2016 12"  | 8mm Et            | SUPER                                       |                             |
|           | Jun 17 2016 12"  | 8mm Ds            | SURPRISINGLY NICE IN THE MOONLIGHT          |                             |
|           | Aug 21 2015 12"  | 8mm Ds            | LP2 FILTER                                  |                             |
|           | Jul 15 2015 12"  | 8mm Ds            |                                             |                             |
|           | May 23 2015 12"  | 11mmT6            | EYE CANDY                                   |                             |
|           | May 18 2014 18"  | 8mm Ds            | EYE CANDY.                                  |                             |
|           | Jul 13 2013 18"  | 7mm TV            | EYE CANDY                                   |                             |
|           | Oct 21 2012 8"   | 25mmPL            | ANOTHER SURPRISE AT HOME,ROUND AND DISTINCT |                             |
|           | May 23 2012 18"  | 17mmAT            | EYE CANDY                                   |                             |
|           | Mar 16 2012 18"  | 17mmAT            | 2012 M.M.                                   |                             |
|           | Mar 01 2011 12"  | 17mmAT            | M.M. 2011 - MANUAL SETTING CIRCLES          |                             |
|           | Mar 08 2010 12"  | 26mm              | M.M. 2010 MANUAL SETTING CIRCLES            |                             |
|           | Mar 20 2009 16"  | 26mm              | MESSIER MARATHON - 2009                     |                             |
|           | Jun 30 2008 16"  | 17mmT4            | PB,PL,R,NO CENTRAL STAR,R=G                 |                             |
|           | Oct 08 2006 1.9" | 12x50             | PB,S,R=G                                    |                             |
|           | Mar 27 2006 8"   | 19mmW             | B,L,R, R=G                                  |                             |
|           | Aug 14 2004 8"   | 11mmT6            | F/L W/NEW FOCUSER, NAGLER, DOBSON           |                             |
|           | Dec 26 2003 8"   | 25mmPL            | Q/M COLD                                    |                             |
|           | Oct 10 2003 8"   | 25mmPL            | FIRST LIGHT - FIRST OBJECT                  |                             |
| <b>68</b> | <b>NGC 6742</b>  | <b>Dra H742-3</b> | <b>Planetary Neb 2c</b>                     | <b>VF,STELLAR</b>           |

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|           |              |              |            |                                             |                          |                             |
|-----------|--------------|--------------|------------|---------------------------------------------|--------------------------|-----------------------------|
| <b>68</b> | <b>NGC</b>   | <b>6742</b>  | <b>Dra</b> | <b>H742-3</b>                               | <b>Planetary Neb 2c</b>  | <b>VF,STELLAR</b>           |
|           | Sep 05 2010  | 12"          | 5.5mmN     | CF,CS,R=F.                                  | NO CENTRAL STAR NOTED.   | OIII ADDS NOTHING.          |
| <b>70</b> | <b>NGC</b>   | <b>6741</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 4</b>   | <b>PLN,STELLAR</b>          |
|           | Aug 07 2016  | 12"          | 8mm Et     | PF,VS,R=F.                                  | LP3. PHANTOM STREAK.     |                             |
|           | Sep 19 2014  | 12"          | 11mmT6     | PF,PS,R=F,                                  | LP-2, NO CENTRAL STAR,   | HOME - 9/14/14              |
|           | Jul 03 2005  | 8"           | 11mmT6     | VF,ML,PATCH,AV,R=F                          |                          |                             |
| <b>71</b> | <b>NGC</b>   | <b>6751</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 3</b>   | <b>PB,S</b>                 |
|           | Aug 07 2016  | 12"          | 8mm Et     | PF,PS,R=G.                                  | LP3 GLOWING EYE.         |                             |
|           | Jul 03 2005  | 8"           | 11mmT6     | MB,ML,R=G                                   |                          |                             |
| <b>72</b> | <b>NGC</b>   | <b>6765</b>  | <b>Lyr</b> |                                             | <b>Planetary Neb 5</b>   | <b>F,S,E</b>                |
|           | Jun 30 2008  | 16"          | 11mmT6     | VF,PS,R,NO CENTRAL STAR,R=F                 |                          |                             |
| <b>73</b> | <b>IC</b>    | <b>4846</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 2</b>   |                             |
|           | Jul 19 2017  | 12"          | 11mmT6     | VF,VS, R=F.                                 | LP2 FILTER               |                             |
|           | Jul 03 2005  | 8"           | 11mmT6     | VB,VS,R,R=F                                 |                          |                             |
| <b>74</b> | <b>IC</b>    | <b>1297</b>  | <b>CrA</b> |                                             | <b>Planetary Neb</b>     |                             |
|           | Aug 29 2010  | 12"          | 7mm TV     | PF,VS,R=F.                                  | NO CENTRAL STAR NOTED    |                             |
| <b>75</b> | <b>NGC</b>   | <b>6778</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 3+3</b> | <b>S,E,ILL-DEFINED DISC</b> |
|           | Aug 31 2008  | 31"          | 17mmT4     | PB,PS,R,R=G,                                | NO CENTRAL STAR          |                             |
| <b>76</b> | <b>NGC</b>   | <b>6781</b>  | <b>Aql</b> | <b>H743-3</b>                               | <b>Planetary Neb 3+3</b> | <b>PLN,F,L,R,VSBM DISC</b>  |
|           | Aug 07 2016  | 12"          | 8mm Et     | PF,PS,R=G.,                                 | LP3. LITTLE RING.        |                             |
|           | Sep 19 2014  | 12"          | 11mmT6     | F,PL,OVAL,R=G,                              | LP-2, 3 STARS INSIDE,    | HOME - 9/14/14              |
|           | Sep 13 2009  | 12"          | 32mmUW8TH  | OBJECT                                      |                          |                             |
|           | Oct 06 2004  | 8"           | 11mmT6     | MB,OVAL,HISB,R=G                            |                          |                             |
| <b>77</b> | <b>NGC</b>   | <b>6790</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 2</b>   | <b>PLN,B,ES,STELL=9.5M</b>  |
|           | Aug 07 2016  | 12"          | 8mm Et     | PF,VS,R=F.                                  | LP3. EYE OF THE EAGLE    |                             |
|           | Jul 03 2005  | 8"           | 11mmT6     | VF,VS,AV,R=F                                |                          |                             |
| <b>78</b> | <b>MINK</b>  | <b>1-70</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 1</b>   |                             |
|           | Aug 12 2005  | 8"           | 7.5mmW     | VF,VS,AV,R=F                                |                          |                             |
| <b>79</b> | <b>NGC</b>   | <b>6803</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 2a</b>  | <b>PLN,STELLAR</b>          |
|           | Jul 25 2017  | 12"          | 11mmT6     | VF,VS,R=F                                   | USED LP2.                |                             |
|           | Jul 03 2005  | 8"           | 11mmT6     | VF,VS,AV,R=F                                |                          |                             |
| <b>80</b> | <b>NGC</b>   | <b>6804</b>  | <b>Aql</b> | <b>H38-6</b>                                | <b>Planetary Neb 4+2</b> | <b>CB,S,IR,RRR</b>          |
|           | Jul 25 2017  | 12"          | 11mmT6     | VF,VS,R=F.                                  | USED LP2                 |                             |
|           | Sep 13 2009  | 12"          | 32mmUW9TH  | OBJECT                                      |                          |                             |
|           | Jul 03 2005  | 8"           | 11mmT6     | VF,ML,AV,R=F                                |                          |                             |
| <b>81</b> | <b>NGC</b>   | <b>6807</b>  | <b>Aql</b> |                                             | <b>Planetary Neb 2</b>   | <b>PLN,STELLAR</b>          |
|           | Aug 31 2008  | 31"          | 17mmT4     | CF,CS,R,R=P,                                | NO CENTRAL STAR          |                             |
| <b>82</b> | <b>HENIZ</b> | <b>2-438</b> | <b>Cyg</b> |                                             | <b>Planetary Neb 4</b>   |                             |
|           | Aug 18 2010  | 12"          | 26mm       | PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER |                          |                             |
| <b>83</b> | <b>NGC</b>   | <b>6818</b>  | <b>Sgr</b> | <b>H51-4</b>                                | <b>Planetary Neb 4</b>   | <b>PLN,B,VS,R</b>           |

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|           |             |             |            |                              |                                          |                             |
|-----------|-------------|-------------|------------|------------------------------|------------------------------------------|-----------------------------|
| <b>83</b> | <b>NGC</b>  | <b>6818</b> | <b>Sgr</b> | <b>H51-4</b>                 | <b>Planetary Neb 4</b>                   | <b>PLN,B,VS,R</b>           |
|           | Sep 19 2014 | 12"         | 11mmT6     | B,S,ROUND DOT,               | HOME - 8/14/14                           |                             |
|           | Jul 09 2005 | 8"          | 11mmT6     | VB,VS,R,R=G                  |                                          |                             |
| <b>84</b> | <b>NGC</b>  | <b>6826</b> | <b>Cyg</b> | <b>H73-4</b>                 | <b>Planetary Neb 3a+2</b>                | <b>PLN,B,PL,R,*11M</b>      |
|           | Jul 19 2017 | 12"         | 11mmT6     | F,PS,R=G.                    | SQM=20.01. 71 DEGREES OUT.               |                             |
|           | Aug 13 2010 | 31"         | 17mmT4     | B,S,R=F,                     | CENTRAL STAR OBSERVED AND NOTED          |                             |
|           | Nov 13 2007 | 8"          | 11mmT6     | PB,PS,R,R=G,                 | NO CENTRAL STAR                          |                             |
|           | Oct 13 2006 | 8"          | 19mmW      | VF,PS,R=F                    |                                          |                             |
|           | Sep 04 2004 | 8"          | 11mmT6     | FAINT                        |                                          |                             |
| <b>85</b> | <b>NGC</b>  | <b>6833</b> | <b>Cyg</b> |                              | <b>Planetary Neb 2</b>                   | <b>PLN,STELLAR</b>          |
|           | Aug 13 2010 | 31"         | 17mmT4     | CF,VVS,R=F.                  | STELLAR IN APPEARANCE                    |                             |
| <b>86</b> | <b>NGC</b>  | <b>6853</b> | <b>Vul</b> | <b>M27</b>                   | <b>Planetary Neb 3+2</b>                 | <b>VB,VL,BIN,IE,DUMBBEL</b> |
|           | Sep 02 2016 | 12"         | 8mm Et     | VERY NICE WITH/WITHOUT OIII. |                                          |                             |
|           | Aug 07 2016 | 12"         | 8mm Et     | BRIGHT,LARGE,R=E.            | OUTSTANDING EVEN WITHOUT LP3.            |                             |
|           | Aug 21 2015 | 12"         | 8mm Ds     | LP2 FILTER                   |                                          |                             |
|           | Oct 21 2012 | 8"          | 11mmT6     | B,L,R=G,                     | SURPRISE UNDER THE STREETLIGHTS          |                             |
|           | Mar 16 2012 | 18"         | 17mmAT     | 2012 M.M.                    |                                          |                             |
|           | Mar 01 2011 | 12"         | 17mmAT     | M.M. 2011 -                  | MANUAL SETTING CIRCLES                   |                             |
|           | Aug 31 2010 | 12"         | 17mmAT     | NIGHT ENDING EYE CANDY       |                                          |                             |
|           | Mar 08 2010 | 12"         | 26mm       | M.M. 2010                    | MANUAL SETTING CIRCLES                   |                             |
|           | Sep 13 2009 | 12"         | 32mmUW     | 1ST OBJECT WITH 12"          | SKYWATCHER & MANUAL SETTING CIRCLES      |                             |
|           | Mar 20 2009 | 16"         | 26mm       | MESSIER MARATHON -           | 2009                                     |                             |
|           | Sep 01 2008 | 31"         | 17mmT4     | VB,CL,R=E.                   | NO CENTRAL STAR                          |                             |
|           | Aug 12 2006 | 1.9"        | 12x50      | F,S,R,R=F                    |                                          |                             |
|           | Mar 27 2006 | 8"          | 19mmW      | B,L,R=G,                     | LONG                                     |                             |
|           | Aug 14 2004 | 8"          | 11mmT6     |                              |                                          |                             |
|           | Dec 26 2003 | 8"          | 25mmPL     | Q/M COLD                     |                                          |                             |
| <b>87</b> | <b>NGC</b>  | <b>6884</b> | <b>Cyg</b> |                              | <b>Planetary Neb 2b</b>                  | <b>PLN,STELLAR</b>          |
|           | Jul 23 2006 | 8"          | 11mmT6     | VF,VS,AV,R=F                 |                                          |                             |
| <b>89</b> | <b>NGC</b>  | <b>6881</b> | <b>Cyg</b> |                              | <b>Planetary Neb 2a+3</b>                | <b>PLN,STELLAR</b>          |
|           | Aug 13 2010 | 31"         | 17mmT4     | PF,VS,R=P.                   | STELLAR IN APPEARANCE - NO CENTRAL STAR! |                             |
|           | Jul 27 2009 | 16"         | 7.5mmW     | VF,VS,R=F,                   | NO VISIBLE CENTRAL STAR                  |                             |
| <b>90</b> | <b>NGC</b>  | <b>6886</b> | <b>Sge</b> |                              | <b>Planetary Neb 2+3</b>                 | <b>PLN,STELLAR=10M</b>      |
|           | Sep 01 2008 | 31"         | 17mmT4     | PB,VS,R=F.                   | NO CENTRAL STAR                          |                             |
| <b>91</b> | <b>NGC</b>  | <b>6891</b> | <b>Del</b> |                              | <b>Planetary Neb 2a+2b</b>               | <b>PLN,STELLAR=9.5M</b>     |
|           | Sep 25 2006 | 31"         | 19mmW      | PB,L,R,R=G                   |                                          |                             |
|           | Aug 12 2005 | 8"          | 7.5mmW     | MF,VS,OVAL,R=F               |                                          |                             |
| <b>92</b> | <b>NGC</b>  | <b>6894</b> | <b>Cyg</b> | <b>H13-4</b>                 | <b>Planetary Neb 4+2</b>                 | <b>RINGNEB,F,S,VVLE</b>     |
|           | Aug 13 2010 | 31"         | 17mmT4     | F,PS,R=F.                    | OVAL PATCH - NO CENTRAL STAR NOTED       |                             |
|           | Jul 27 2009 | 16"         | 11mmT6     | PF,PS,ROUND,                 | NO VISIBLE CENTRAL STAR,R=F              |                             |
| <b>93</b> | <b>IC</b>   | <b>4997</b> | <b>Sge</b> |                              | <b>Planetary Neb 1</b>                   |                             |
|           | Sep 01 2008 | 31"         | 17mmT4     | PB,ES,R=F.                   | NO CENTRAL STAR                          |                             |

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|             |                 |            |                            |                           |                             |
|-------------|-----------------|------------|----------------------------|---------------------------|-----------------------------|
| <b>94</b>   | <b>NGC 6905</b> | <b>Del</b> | <b>H16-4</b>               | <b>Planetary Neb 3+3</b>  | <b>PLN,B,PS,R,4S*NR</b>     |
| Jul 25 2017 | 12"             | 11mmT6     | F,PS,R=G..                 | USED LP2                  |                             |
| Aug 13 2007 | 31"             | 31mmT5     | PF,CS,R,R=G,               | CENTRAL STAR NOT VISIBLE  |                             |
| Aug 09 2005 | 8"              | 11mmT6     | MB,ML,PATCHY,MSB,R=G       |                           |                             |
| <b>95</b>   | <b>NGC 7008</b> | <b>Cyg</b> | <b>H192-1</b>              | <b>Planetary Neb 3</b>    | <b>CB,L,E45,R,**ATT</b>     |
| Aug 02 2005 | 8"              | 19mmW      | FB,FL,R=G,                 | BEHIND STAR               |                             |
| <b>96</b>   | <b>NGC 7009</b> | <b>Aqr</b> | <b>H1-4</b>                | <b>Planetary Neb 4+6</b>  | <b>PLN,VB,S,ELLIPTIC</b>    |
| Aug 21 2015 | 12"             | 8mm Ds     |                            |                           |                             |
| Oct 29 2006 | 8"              | 19mmW      | F,VS,OVAL,R=F              |                           |                             |
| Sep 27 2005 | 31"             | 17mmT4     | VB,VL,OVAL,HISB,R=G!!      |                           |                             |
| Jul 08 2004 | 31"             | 17mmT4     | GREAT IN THE BIG ONE!      |                           |                             |
| Jul 08 2004 | 8"              | 25mmPL     | SMALL IN 8_DOBSON          |                           |                             |
| <b>97</b>   | <b>NGC 7026</b> | <b>Cyg</b> |                            | <b>Planetary Neb 3a</b>   | <b>PB,BIN,PLN</b>           |
| Aug 24 2005 | 8"              | 11mmT6     | MF,MS,PATCHY,AV,R=F        |                           |                             |
| <b>98</b>   | <b>NGC 7027</b> | <b>Cyg</b> |                            | <b>Planetary Neb 3a</b>   | <b>PLN,STELLAR=8.5M</b>     |
| Aug 24 2005 | 8"              | 7.5mmW     | VB,VS,R,R=F                |                           |                             |
| <b>100</b>  | <b>NGC 7048</b> | <b>Cyg</b> |                            | <b>Planetary Neb 3b</b>   | <b>PF,PL,DIF,IR,VLBM</b>    |
| Aug 24 2005 | 8"              | 7.5mmW     | VF,ML,PATCHY,AV,R=F        |                           |                             |
| <b>101</b>  | <b>PEASE 1</b>  | <b>Peg</b> |                            | <b>Planetary Neb 1</b>    |                             |
| Sep 27 2005 | 31"             | 17mmT4     | VB,VS,R=F                  |                           |                             |
| <b>102</b>  | <b>IC 5117</b>  | <b>Cyg</b> |                            | <b>Planetary Neb 2</b>    |                             |
| Jul 23 2006 | 8"              | 11mmT6     | F,VS,R,AV,R=F              |                           |                             |
| <b>104</b>  | <b>NGC 7094</b> | <b>Peg</b> |                            | <b>Planetary Neb 4</b>    | <b>*IN EEF NEBY,VDIFFIC</b> |
| Sep 05 2010 | 28"             | 26mm       | PF,PS,R,R=F,OII,           | NO CENTRAL STAR NOTED     |                             |
| Aug 29 2010 | 12"             | 7mm TV     | VF,CS,AV,R=F.              | NO CENTRAL STAR NOTED.    |                             |
| <b>105</b>  | <b>IC 5217</b>  | <b>Lac</b> |                            | <b>Planetary Neb 2</b>    |                             |
| Nov 16 2012 | 18"             | 11mmT6     | VS,VF,R=F                  |                           |                             |
| <b>106</b>  | <b>NGC 7293</b> | <b>Aqr</b> |                            | <b>Planetary Neb 4+3</b>  | <b>PF,VL,E OR BIN</b>       |
| Sep 05 2010 | 12"             | 11mmT6     | B,PS,R=G.                  | CENTRAL STAR NOT NOTED.   | OIII FILTER ADDS DETAIL.    |
| Nov 09 2004 | 8"              | 11mmT6     | NICE - ALMOST ROUND PATCH! | LARGE.                    |                             |
| <b>107</b>  | <b>NGC 7354</b> | <b>Cep</b> | <b>H705-2</b>              | <b>Planetary Neb 4+3b</b> | <b>PLN,B,S,R,PGVLBM</b>     |
| Sep 07 2005 | 8"              | 11mmT6     | MB,ML,R,MSB,R=G            |                           |                             |
| <b>108</b>  | <b>NGC 7662</b> | <b>And</b> | <b>H18-4</b>               | <b>Planetary Neb 4+3</b>  | <b>PLN ORRING,VB,PS,R</b>   |
| Oct 05 2016 | 12"             | 11mmT6     | B,S,OIII,R=G.              | BLUE STREAK NEBULA        |                             |
| Aug 21 2015 | 12"             | 8mm Ds     | PRETTY SMALL               | USED LP2 FILTER           |                             |
| Aug 24 2012 | 18"             | 5mm TV     | ROUND AND BRIGHT,          | OIII, BLUE SNOWBALL, R=E! |                             |
| Nov 21 2006 | 8"              | 11mmT6     | VB,PS,OVAL,                | NO CENTRAL STAR,R=G       |                             |
| Aug 23 2004 | 8"              | 9mm        | SMALL,FAINT.               | LOOK @ AGAIN LATER!       |                             |

Total: 85