| **Fall Best Zenith (53 objects)**  |
| --- |
| **Object** | **Type** | **Mag** | **Size** | **Information** |
| NGC 147  | GX  | 9.4  | 13.2'x7.8'  | R00:33:11.7 D+48:30:26 *Cassiopeia*Type: E5/P, SB: 14.5, mag\_b: 10.4 |
| π And  | \* B3  | 4.50  |  | R00:36:52.9 D33:43:09.6 *Andromeda*SAO 54033  |
| NGC 185  | GX  | 9.3  | 8.0'x7.0'  | R00:38:57.6 D+48:20:14 *Cassiopeia*Type: E3, SB: 13.7, mag\_b: 10.3 |
| M 110  | GX  | 7.9  | 19.5'x11.5'  | R00:40:22.1 D+41:41:07 *Andromeda*Type: E5, SB: 13.8, mag\_b: 8.9 |
| M 32  | GX  | 8.1  | 8.5'x6.5'  | R00:42:41.8 D+40:51:57 *Andromeda*Type: E2, SB: 12.5, mag\_b: 9.1 |
| *Andromeda Galaxy*M 31  | GX  | 3.5  | 189.1'x61.7'  | R00:42:44.3 D+41:16:08 *Andromeda*Type: Sb, SB: 13.5, mag\_b: 4.3 |
| 65 Psc  | \* F0  | 6.30  |  | R00:49:53.2 D27:42:36.7 SAO 74296  |
| NGC 278  | GX  | 10.7  | 2.1'x2.0'  | R00:52:04.5 D+47:33:03 *Cassiopeia*Type: SBb, SB: 12.1, mag\_b: 11.5 |
| ψ1 Psc  | \* A2  | 5.50  |  | R01:05:40.9 D21:28:23.7 *Pisces*SAO 74482  |
| *Owl Cluster*NGC 457  | OC  | 6.4  | 20.0' | R01:19:35.0 D+58:17:12 *Cassiopeia*Type: I3r*Dragonfly Cluster*,*Kachina Doll Cluster*,*ET Cluster* |
| M 103  | OC  | 7.4  | 6.0' | R01:33:23.0 D+60:39:00 *Cassiopeia*Type: III2p |
| *Pinwheel Galaxy*M 33  | GX  | 5.5  | 68.7'x41.6'  | R01:33:51.9 D+30:39:29 *Triangulum*Type: Sc, SB: 14.0, mag\_b: 6.2*Triangulum Galaxy* |
| NGC 672  | GX  | 10.7  | 6.0'x2.4'  | R01:47:54.0 D+27:25:58 *Triangulum*Type: SBc, SB: 13.4, mag\_b: 11.4 |
| 1 Ari  | \* +++  | 6.20  |  | R01:50:08.5 D22:16:31.3 *Aries*SAO 74966  |
| NGC 740  | GX  | 14.1  | 1.4'x0.3'  | R01:56:55.0 D+33:00:56 *Triangulum*Type: SBb, SB: 13.0, mag\_b: 14.9 |
| NGC 752  | OC  | 5.7  | 75.0' | R01:57:42.0 D+37:47:00 *Andromeda*Type: III1m |
| λ Ari  | \* A5  | 4.80  |  | R01:57:55.7 D23:35:45.9 *Aries*SAO 75051  |
| ε Tri  | \* A2  | 5.40  |  | R02:02:58.0 D33:17:02.4 *Triangulum*SAO 55218  |
| *Almach*γ1 And  | \* K0  | 2.30  |  | R02:03:54.0 D42:19:47.0 *Almaac*,*Almaak*SAO 37734  |
| 14 Ari  | \*A F2III\*B\*C | 4.998.017.97 | AB 93.33"AC 104.00" | R02:09:25.29 D25:56:23.9 WDS 02094+2556,SAO 75171  |
| 6 Tri  | \* G0  | 5.40  |  | R02:12:22.3 D30:18:10.7 *Triangulum*SAO 55347  |
| SAO 75264  | \*A F7V\*B F9V | 7.097.83 | AB 13.56" | R02:17:25.29 D28:44:42.1 WDS 02174+2845,SAO 75264  |
| *Double Cluster*NGC 884  | OC  | 6.1  | 18.0' | R02:22:18.0 D+57:08:00 *Perseus*Type: I3r*Chi Persei* |
| NGC 891  | GX  | 10.1  | 11.7'x1.6'  | R02:22:33.0 D+42:20:50 *Andromeda*Type: Sb, SB: 13.1, mag\_b: 10.9 |
| NGC 972  | GX  | 11.3  | 3.3'x1.6'  | R02:34:13.3 D+29:18:37 *Aries*Type: Sab, SB: 13.0, mag\_b: 12.1 |
| 30 Ari  | \*A F5V\*B F7V\*C M1V | 6.507.0211.00 | AB 37.93"BC 0.56" | R02:37:00.52 D24:38:50.0 *Aries*WDS 02370+2439,SAO 75470  |
| 33 Ari  | \* A2  | 5.40  |  | R02:40:41.1 D27:03:39.0 *Aries*SAO 75510  |
| M 34  | OC  | 5.2  | 25.0' | R02:42:05.0 D+42:45:42 *Perseus*Type: II3m |
| θ Per  | \* F8  | 4.20  |  | R02:44:12.0 D49:13:42.6 *Perseus*SAO 38288  |
| HD 18143  | \*A K2IV\*B M0V\*C | 7.6810.0213.86 | AB 5.55"AC 43.88" | R02:55:39.06 D26:52:23.6 *Aries*WDS 02556+2652,SAO 75644  |
| *Algol*β Per  | \* B8  | 2.90  |  | R03:08:10.1 D40:57:20.4 *Head of Medusa*,*Demon Star*,*Gorgonea Prima*SAO 38592  |
| HR 979  | \*A B9VpSi\*B | 6.837.72 | AB 3.57" | R03:17:11.45 D40:28:58.6 WDS 03171+4029,SAO 38700  |
| *Perseus A*NGC 1275  | GX  | 11.7  | 2.3'x1.6'  | R03:19:48.1 D+41:30:41 *Perseus*Type: S0, SB: 13.0, mag\_b: 12.7 |
| Melotte 20  | OC  |  | 300.0' | R03:24:19 D49:51:42 *Perseus* |
| ζ Per  | \* B1  | 2.90  |  | R03:54:07.9 D31:53:00.9 *Perseus*SAO 56799  |
| 56 Per  | \* F5  | 5.80  |  | R04:24:37.4 D33:57:35.2 *Perseus*SAO 57216  |
| NGC 7209  | OC  | 7.7  | 15.0' | R22:05:07.8 D+46:29:01 *Lacerta*Type: III1p |
| π1 Peg  | \* K0  | 5.60  |  | R22:09:13.6 D33:10:20.5 SAO 72064  |
| HD 210772  | \*A F8\*B | 8.069.81 | AB 11.84" | R22:11:58.63 D37:39:04.2 *Lacerta*WDS 22120+3739,SAO 72119  |
| NGC 7243  | OC  | 6.4  | 30.0' | R22:15:08.5 D+49:53:51 *Lacerta*Type: IV2p |
| BD +37\_4537p  | \*A A8III\*B\*C\*D\*E | 6.218.8513.5011.1712.56 | AB 16.10"AC 48.38"AD 225.19"AE 66.50"BD 210.47" | R22:18:56.21 D37:46:09.4 WDS 22189+3746  |
| HD 212468  | \*A G5\*B\*C\*D | 7.628.2212.2113.30 | AB 6.52"AC 124.46"CD 7.76" | R22:23:34.02 D45:20:59.9 *Lacerta*WDS 22236+4521,SAO 51957  |
| 8 Lac  | \* B3p  | 5.80  |  | R22:35:52.3 D39:38:03.5 *Lacerta*SAO 72509  |
| NGC 7331  | GX  | 9.5  | 10.2'x4.2'  | R22:37:05.1 D+34:25:13 *Pegasus*Type: Sbc, SB: 13.4, mag\_b: 10.3 |
| NGC 7332  | GX  | 11.0  | 4.1'x1.1'  | R22:37:24.6 D+23:47:53 *Pegasus*Type: S0, SB: 12.5, mag\_b: 12.0 |
| HD 214652  | \*A B2V\*B | 6.8410.80 | AB 16.10" | R22:39:04.59 D37:22:31.6 *Lacerta*WDS 22391+3723,SAO 72569  |
| *Matar*ζ Peg  | \* G0  | 3.10  |  | R22:43:00.1 D30:13:16.5 SAO 90734  |
| HR 8723  | \*A B7III\*B | 5.719.21 | AB 52.14" | R22:55:44.51 D36:21:05.0 WDS 22557+3621,SAO 72851  |
| NGC 7640  | GX  | 11.1  | 10.5'x1.8'  | R23:22:06.6 D+40:50:42 *Andromeda*Type: SBc, SB: 14.1, mag\_b: 11.8 |
| HD 220334  | \*A G2V\*B dK6\*C | 6.749.7810.86 | AB 5.70"AC 99.74" | R23:22:48.67 D20:33:32.2 *Pegasus*WDS 23228+2034,SAO 91222  |
| *Blue Snowball Nebula*NGC 7662  | PN  | 8.3  | 0.6' | R23:25:53.9 D+42:32:08 *Andromeda*Type: PN, mag\_b: 9.2 |
| NGC 7686  | OC  | 5.6  | 15.0' | R23:30:07.3 D+49:08:03 *Andromeda*Type: IV1p |
| HR 9074  | \*A F8V\*B\*C | 6.466.7212.80 | AB 2.46"AC 79.45" | R23:59:29.33 D33:43:26.9 WDS 23595+3343,SAO 73656  |