## Celestial Sphere Models—Star Data

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The number preceding the name of the star (or binary or multiple system of stars) refers to its approximate rank according to apparent brightness. A "v" following the apparent or absolute magnitude of a star (or system of stars) means that this value varies.

## Stars Sorted Alphabetically

Section 2 RA  $2h\,58'\,15.6792''$ Decl.  $-40^{\circ}\,18'\,16.8457''$ Apparent magnitude: 2.88 Absolute magnitude: -0.59 Constellation: Eridanus

9. Achernar Section 2 RA  $1h\,38'\,24''$  Decl.  $-57^{\circ}\,8'\,36''$ 

151. Acamar

Apparent magnitude: 0.45 Absolute magnitude: -2.77 Constellation: Eridanus

22. Adhara
Section 3
RA 6h 59′ 21.2″
Decl. -28° 59′ 5″
Apparent magnitude: 1.5
Absolute magnitude: -4.1
Constellation: Canis Major

152. Albaldah Section 7 RA 19h 10' 51.8" Decl.  $-20^{\circ}$  59' 3"

Apparent magnitude: 2.88 Absolute magnitude: -2.77 Constellation: Sagittarius

157. Albireo Section 8 RA 19h 31′ 28.1″ Decl. 27° 59′ 5″

Apparent magnitude: 2.9 Absolute magnitude: -2.31 Constellation: Cygnus

143. Alcyone Section 2 RA 3h 48' 35.3'' Decl.  $24^{\circ} 9' 4''$ 

Apparent magnitude: 2.85 Absolute magnitude: -2.41 Constellation: Taurus

14. Aldebaran Section 3 RA 4h 36′ 59.1″ Decl. 16° 32′ 4″

Apparent magnitude: 0.86v Absolute magnitude: -0.64v Constellation: Taurus 89. Alderamin Section 8 RA 21h 19′ 1.2″ Decl. 62° 39′ 5″

Apparent magnitude: 2.45 Absolute magnitude: 1.58 Constellation: Cepheus

58. Al Dhanab Section 1 RA 22h 43' 45.8" Decl. -46° 47' 14"

Apparent magnitude: 2.07v Absolute magnitude: 1.52 Constellation: Grus

120. Aldhibain Section 6 RA  $16h\,24'\,14.7''$  Decl.  $61^{\circ}\,28'\,2''$ 

Apparent magnitude: 2.73 Absolute magnitude: 0.58 Constellation: Draco

137. Algenib Section 1 RA 0h 14′ 11.4″ Decl. 15° 17′ 1″

Apparent magnitude: 2.83 Absolute magnitude: -2.22 Constellation: Pegasus

49. Algieba Section 4

RA 10h 19' 58.3506" Decl. 19° 50' 29.3468" Apparent magnitude: 2 Absolute magnitude: -0.93 Constellation: Leo

60. Algol Section 2

RA 3h 9′ 22.8″ Decl. 41° 1′ 3″

Apparent magnitude: 2.09 Absolute magnitude: 0.18 Constellation: Perseus

163. Algorel Section 5

RA  $12h\,30'\,49.4''$ Decl.  $-16^{\circ}\,37'\,0''$ 

Apparent magnitude: 2.94 Absolute magnitude: 0.79 Constellation: Corvus 166. Alheka Section 3 RA 5h 38′ 45.1″ Decl. 21° 9′ 0″

Apparent magnitude: 2.97 Absolute magnitude: -2.56 Constellation: Taurus

43. Alhena Section 3 RA 6h 38′ 46.8″ Decl. 16° 22′ 5″

Apparent magnitude: 1.93 Absolute magnitude: -0.6 Constellation: Gemini

32. Alioth Section 5 RA 12h 54′ 50.3″ Decl. 55° 51′ 3″

Apparent magnitude: 1.77 Absolute magnitude: -0.2 Constellation: Ursa Major

38. Alkaid Section 6 RA 13h 48′ 16.1″ Decl. 49° 13′ 1″

Apparent magnitude: 1.86 Absolute magnitude: -0.59 Constellation: Ursa Major

181. Almaaz Section 3 RA 5h 3′ 18″ Decl. 43° 50′ 5″

Apparent magnitude: 3.03 Absolute magnitude: -5.95 Constellation: Auriga

61. Almach Section 2

RA 2h 3' 53.9523" Decl. 42° 19' 47.0223" Apparent magnitude: 2.1 Absolute magnitude: -3.08 Constellation: Andromeda

30. Alnair Section 8 RA 22h 9' 23.4" Decl. -46° 52' 14"

Apparent magnitude: 1.74 Absolute magnitude: -0.72

Constellation: Grus

 $\begin{array}{ll} 168. \ \, Alnasl \\ Section \ 7 \\ RA \ \, 18h \, 6' \, 59.8'' \\ Decl. \ \, -30^{\circ} \, 25' \, 2'' \end{array}$ 

Apparent magnitude: 2.98 Absolute magnitude: 0.63 Constellation: Sagittarius

29. Alnilam Section 3 BA 5h 37' 9'

RA 5h 37' 9.2''Decl.  $-1^{\circ} 11' 2''$ 

Apparent magnitude: 1.69 Absolute magnitude: -6.38 Constellation: Orion

31. Alnitak Section 3

RA  $5h\,41'\,41.6''$ Decl.  $-1^{\circ}\,56'\,0''$ 

Apparent magnitude: 1.75 Absolute magnitude: -5.25 Constellation: Orion

156. Alniyat Section 6 RA 16h 22′ 19″ Decl. -25° 38′ 0″

Apparent magnitude: 2.9v Absolute magnitude: -3.86v Constellation: Scorpius

3.  $\alpha$  Centauri Section 6

RA  $14h\,39'\,35.0631''$ Decl.  $-60^{\circ}\,50'\,15.0992''$ Apparent magnitude: -0.29Absolute magnitude: 4.06Constellation: Centaurus

146.  $\alpha$  Hydri Section 2 RA  $1h\,59'\,21.1''$ Decl.  $-61^{\circ}\,28'\,49''$ 

Apparent magnitude: 2.86 Absolute magnitude: 1.16 Constellation: Hydrus

198.  $\alpha$  Lyncis Section 4

RA 9h 22′ 10.6″ Decl. 34° 18′ 4″

Apparent magnitude: 3.14 Absolute magnitude: -1.02 Constellation: Lynx

114.  $\alpha$  Muscæ Section 5

RA 12h 38′ 18.4″ Decl. -69° 14′ 14″

Apparent magnitude: 2.69 Absolute magnitude: -2.17 Constellation: Musca 47. Alphard Section 4

RA 9h 28' 29.8''Decl.  $-8^{\circ} 44' 2''$ 

Apparent magnitude: 1.98 Absolute magnitude: -1.7 Constellation: Hydra

150.  $\alpha$  Tucanæ Section 8

RA 22h 19' 45.2''Decl.  $-60^{\circ} 10' 0''$ 

Apparent magnitude: 2.87 Absolute magnitude: -1.05 Constellation: Tucana

67. Alphecca Section 6

RA  $15h\,35'\,28.3''$ Decl.  $26^{\circ}\,39'\,1''$ 

Apparent magnitude: 2.22 Absolute magnitude: 0.42 Constellation: Corona Borealis

54. Alpheratz Section 1 RA 0h9' 20.9" Decl. 29° 11' 3"

Apparent magnitude: 2.07 Absolute magnitude: -0.3 Constellation: Andromeda

12. Altair Section 8 RA 19h 51′ 41.1″

Decl. 8° 55′ 0″

Apparent magnitude: 0.77 Absolute magnitude: 2.21 Constellation: Aquila

88. Aludra Section 3

RA 7h 24' 49.6''Decl.  $-29^{\circ} 20' 2''$ 

Apparent magnitude: 2.45 Absolute magnitude: -7.51 Constellation: Canis Major

84. Ankaa Section 1 RA 0h 27′ 11.7″

Decl.  $-42^{\circ} 12' 20''$ Apparent magnitude: 2.4 Absolute magnitude: 0.52 Constellation: Phoenix

15. Antares Section 7

RA 16h 30′ 32.7″ Decl. -26° 28′ 1″

Apparent magnitude: 0.95v Absolute magnitude: -5.39v Constellation: Scorpius 4. Arcturus Section 6

RA 14h 16′ 30.3″ Decl. 19° 5′ 1″

Apparent magnitude: -0.05 Absolute magnitude: -0.31 Constellation: Boötes

98. Arneb Section 3

RA 5h 33′ 32.8″ Decl. -17° 48′ 3″

Apparent magnitude: 2.58 Absolute magnitude: -5.4 Constellation: Lepus

101. Ascella Section 7

RA 19h 3' 47.2''Decl.  $-29^{\circ} 51' 0''$ 

Apparent magnitude: 2.6 Absolute magnitude: 0.42 Constellation: Sagittarius

66. Aspidiske Section 4 RA 9h 17' 35.1''

Decl. -59° 21′ 12″ Apparent magnitud

Apparent magnitude: 2.21v Absolute magnitude: -4.42 Constellation: Carina

42. Atria Section 7

RA 16h 48' 39.8951" Decl. -69° 1' 39.7626" Apparent magnitude: 1.92 Absolute magnitude: -3.61

Constellation: Triangulum Australe

40. Avior Section 4

RA 8h 22' 53.5''Decl.  $-59^{\circ} 34' 10''$ 

Apparent magnitude: 1.87 Absolute magnitude: -4.57 Constellation: Carina

26. Bellatrix Section 3 RA 5h 26′ 7.5″ Decl. 6° 21′ 5″

Apparent magnitude: 1.64 Absolute magnitude: -2.72 Constellation: Orion

141.  $\beta$  Aræ Section 7

RA 17h 26′ 50.5″ Decl. -55° 32′ 43″

Apparent magnitude: 2.84 Absolute magnitude: -3.49

Constellation: Ara

134.  $\beta$  Hydri Section 1  $RA \quad 0h\,26^\prime\,41.9^{\prime\prime}$ Decl.  $-77^{\circ} 9' 1''$ 

Apparent magnitude: 2.82 Absolute magnitude: 3.45 Constellation: Hydrus

182.  $\beta$  Muscæ Section 5

RA  $12h\,47'\,26.1''$ Decl.  $-68^{\circ} 12' 32''$ 

Apparent magnitude: 3.04 Absolute magnitude: -1.86 Constellation: Musca

139.  $\beta$  Trianguli Australis

Section 6

RA 15h 56' 47.3" Decl.  $-63^{\circ} 29' 9''$ 

Apparent magnitude: 2.83 Absolute magnitude: 2.38

Constellation: Triangulum Australe

172.  $\beta$  Trianguli

Section 2

RA 2h 10′ 39.1″ Decl.  $35^{\circ} 4' 2''$ 

Apparent magnitude: 3 Absolute magnitude: 0.09 Constellation: Triangulum

10. Betelgeuse Section 3

RA  $5h\,56'\,10.4''$ Decl.  $7^{\circ} 24' 3''$ 

Apparent magnitude: 0.55v Absolute magnitude: -5.04v

Constellation: Orion

2. Canopus Section 3

RA 6h 24' 21.8''Decl.  $-52^{\circ} 42' 23''$ 

Apparent magnitude: -0.73 Absolute magnitude: -5.64 Constellation: Carina

6. Capella Section 3  $RA \quad 5h\,18^\prime\,3.5^{\prime\prime}$ Decl.  $46^{\circ} 0' 5''$ 

Apparent magnitude: 0.07 Absolute magnitude: -0.49 Constellation: Auriga

74. Caph Section 1

RA  $0h\,10'\,10.6''$ Decl.  $59^{\circ} 15' 0''$ 

Apparent magnitude: 2.28 Absolute magnitude: 1.17 Constellation: Cassiopeia

23. Castor Section 4

RA 7h 34′ 35.863″ Decl.  $31^{\circ} 53' 17.79''$ Apparent magnitude: 1.58 Absolute magnitude: 0.59

Constellation: Gemini

125. Cebalrai Section 7

RA  $17h \, 44' \, 23.2''$ Decl.  $4^{\circ} 33' 3''$ 

Apparent magnitude: 2.76 Absolute magnitude: 0.76 Constellation: Ophiuchus

142. Choo Section 7

RA  $17h \, 33' \, 16.4''$ Decl.  $-49^{\circ} 53' 20''$ 

Apparent magnitude: 2.84 Absolute magnitude: -1.51

Constellation: Ara

63. Cih Section 1

RA  $0h\,57'\,50.4''$ Decl.  $60^{\circ} 48' 5''$ 

Apparent magnitude: 2.15v Absolute magnitude: -4.22 Constellation: Cassiopeia

130. Cor Caroli 2

Section 5

RA 12h 56′ 1.66622″ Decl.  $38^{\circ} 19' 6.1541''$ 

Apparent magnitude: 2.98v Absolute magnitude: 0.16 Constellation: Canes Venatici

184. Dabih Section 8

RA 20h 22' 2.9''Decl.  $-14^{\circ} 43' 1''$ 

Apparent magnitude: 3.05 Absolute magnitude: -2.07 Constellation: Capricornus

99.  $\delta$  Centauri Section 5

 $RA - 12h\,9'\,19.5''$ 

Decl.  $-50^{\circ} 49' 31''$ 

Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus

128.  $\delta$  Crucis Section 5

RA 12h 16' 8.3" Decl.  $-58^{\circ} 51' 6''$ 

Apparent magnitude: 2.79 Absolute magnitude: -2.45 Constellation: Crux

147.  $\delta$  Cygni Section 8

RA 19h 45′ 33.2″ Decl.  $45^{\circ} 10' 3''$ 

Apparent magnitude: 2.86 Absolute magnitude: -0.74 Constellation: Cygnus

177.  $\delta$  Persei Section 2 RA  $3h \, 44' \, 15''$ Decl.  $47^{\circ} 50' 4''$ 

Apparent magnitude: 3.01 Absolute magnitude: -3.04 Constellation: Perseus

145. Deneb Algedi

Section 8

RA  $21h\,48'\,3.6''$ Decl.  $-16^{\circ} 2' 3''$ 

Apparent magnitude: 2.85 Absolute magnitude: 2.49 Constellation: Capricornus

171. Deneb el Okab

Section 7

RA 19h 6' 15.6" Decl.  $13^{\circ} 53' 3''$ 

Apparent magnitude: 2.99 Absolute magnitude: 0.96 Constellation: Aquila

62. Denebola Section 5

RA 11h 50′ 0.1″ Decl.  $14^{\circ} 28' 0''$ 

Apparent magnitude: 2.14 Absolute magnitude: 1.92

Constellation: Leo

19. Deneb Section 8

RA  $20h\,42'\,3.8''$ Decl.  $45^{\circ} 20' 5''$ 

Apparent magnitude: 1.24 Absolute magnitude: -8.74 Constellation: Cygnus

51. Diphda Section 1 RA 0h 44' 31''

Decl.  $-17^{\circ} 53' 0''$ Apparent magnitude: 2.04

Absolute magnitude: -0.3 Constellation: Cetus

76. Dschubba Section 6

RA 16h 1' 25.8" Decl.  $-22^{\circ} 40' 2''$ 

Apparent magnitude: 2.29 Absolute magnitude: -3.16 Constellation: Scorpius

34. Dubhe Section 5 RA 11h 4′ 51.2″ Decl. 61° 39′ 0″

Apparent magnitude: 1.8 Absolute magnitude: -1.09 Constellation: Ursa Major

27. Elnath Section 3

RA 5h 27' 27.8" Decl. 28° 37' 1"

Apparent magnitude: 1.66 Absolute magnitude: -1.36 Constellation: Taurus

72. Eltanin Section 7 RA 17h 57′ 2.2″ Decl. 51° 29′ 1″

Apparent magnitude: 2.24 Absolute magnitude: -1.04 Constellation: Draco

82. Enif Section 8

RA  $21h\,45'\,5.7''$ Decl.  $9^{\circ}\,57'\,3''$ 

Apparent magnitude: 2.38 Absolute magnitude: -4.19 Constellation: Pegasus

75.  $\epsilon$  Centauri Section 6

RA 13h 41' 4.3" Decl. -53° 33' 35"

Apparent magnitude: 2.29 Absolute magnitude: -3.02 Constellation: Centaurus

155.  $\epsilon$  Persei Section 2 RA 3h 59′ 6.1″ Decl. 40° 3′ 4″

Apparent magnitude: 2.9 Absolute magnitude: -3.19 Constellation: Perseus

79.  $\eta$  Centauri Section 6

RA 14h 36′ 41.4″ Decl. -42° 14′ 17″

Apparent magnitude: 2.33v Absolute magnitude: -2.55 Constellation: Centaurus

188.  $\eta$  Sagittarii Section 7 RA 18h 18' 52.7" Decl.  $-36^{\circ}$  45' 16"

Apparent magnitude: 3.1 Absolute magnitude: -0.2 Constellation: Sagittarius 18. Fomalhaut Section 1

RA  $22h\,57'\,39.0465''$ Decl.  $-29^{\circ}\,37'\,20.05''$ Apparent magnitude: 1.15 Absolute magnitude: 1.72 Constellation: Piscis Austrinus

 $\begin{array}{ll} 25. \ \, \mathrm{Gacrux} \\ \mathrm{Section} \ \, 5 \\ \mathrm{RA} \quad 12 \mathrm{h} \, 32' \, 12.2'' \end{array}$ 

Decl.  $-57^{\circ} 13' 0''$ Apparent magnitude: 1.63 Absolute magnitude: -0.52

Constellation: Crux

176.  $\gamma$  Gruis Section 8 RA 21h 55' 2.6" Decl.  $-37^{\circ}$  16' 37" Apparent magnitude: 3 Absolute magnitude: -0.97

169.  $\gamma$  Hydræ Section 5 RA 13h 19' 55.9" Decl.  $-23^{\circ}$  16' 0"

Constellation: Grus

Apparent magnitude: 2.99 Absolute magnitude: -0.05 Constellation: Hydra

131.  $\gamma$  Lupi Section 6 RA 15h 36' 22.8" Decl.  $-41^{\circ}$  13' 39" Apparent magnitude: 2.8 Absolute magnitude: -3.4

Constellation: Lupus

159. γ Persei Section 2 RA 3h 6′ 8.9″ Decl. 53° 34′ 3″

Apparent magnitude: 2.91 Absolute magnitude: -1.57 Constellation: Perseus

149.  $\gamma$ Trianguli Australis Section 6

RA 15h 18' 54.582"

Decl.  $-68^{\circ} 40' 46.3654''$ Apparent magnitude: 2.87 Absolute magnitude: -0.87

Constellation: Triangulum Australe

100. Gienah Ghurab

Section 5

RA 12h 16′ 45.6″ Decl. -17° 38′ 4″

Apparent magnitude: 2.58 Absolute magnitude: -0.94 Constellation: Corvus 91. Gienah Section 8

RA  $20h\,46'\,57.6''$ Decl.  $34^{\circ}\,2'\,2''$ 

Apparent magnitude: 2.48 Absolute magnitude: 0.76 Constellation: Cygnus

83. Girtab Section 7

RA  $17h \, 43' \, 46.1''$ Decl.  $-39^{\circ} \, 2' \, 16''$ 

Apparent magnitude: 2.39 Absolute magnitude: -3.38 Constellation: Scorpius

153. Gomeisa Section 3 RA 7h 28′ 9.2″ Decl. 8° 15′ 0″

Apparent magnitude: 2.89 Absolute magnitude: -0.7 Constellation: Canis Minor

11. Hadar Section 6 RA 14h 5' 8.7" Decl.  $-60^{\circ}$  27' 41"

Apparent magnitude: 0.61 Absolute magnitude: -5.42 Constellation: Centaurus

50. Hamal Section 2 RA 2h 8′ 13.2″ Decl. 23° 32′ 5″

Apparent magnitude: 2.01 Absolute magnitude: 0.48 Constellation: Aries

94. Han Section 7

RA 16h 38' 10.8''Decl.  $-10^{\circ} 36' 1''$ 

Apparent magnitude: 2.54 Absolute magnitude: -3.2 Constellation: Ophiuchus

112. Hassaleh Section 3 RA 4h 58' 12.1'' Decl.  $33^{\circ}$  11' 3''

Apparent magnitude: 2.69 Absolute magnitude: -3.29 Constellation: Auriga

123. Hatysa Section 3

RA 5h 36′ 20.3″ Decl. -5° 53′ 5″

Apparent magnitude: 2.75 Absolute magnitude: -5.3 Constellation: Orion 170.  $\iota^1$  Scorpii Section 7 RA 17h 48′ 52.8″ Decl.  $-40^{\circ}$  7′ 56″

Apparent magnitude: 2.99 Absolute magnitude: -5.71 Constellation: Scorpius

124.  $\iota$  Centauri Section 5

RA 13h 21' 38.6" Decl. -36° 48' 34"

Apparent magnitude: 2.75 Absolute magnitude: 1.48 Constellation: Centaurus

81. Izar Section 6

RA  $14h\,45'\,47.7''$ Decl.  $26^{\circ}\,59'\,4''$ 

Apparent magnitude: 2.35 Absolute magnitude: -1.69 Constellation: Boötes

37. Kaus Australis

Section 7

RA 18h 25' 24''Decl.  $-34^{\circ} 22' 2''$ 

Apparent magnitude: 1.84 Absolute magnitude: -1.39 Constellation: Sagittarius

136. Kaus Borealis

Section 7

 $\begin{array}{ll} {\rm RA} & 18 {\rm h}\, 29'\, 6.7'' \\ {\rm Decl.} & -25^{\circ}\, 24'\, 3'' \end{array}$ 

Apparent magnitude: 2.82 Absolute magnitude: 0.95 Constellation: Sagittarius

117. Kaus Meridionalis

Section 7

RA 18h 22' 10.7''Decl.  $-29^{\circ} 49' 0''$ 

Apparent magnitude: 2.72 Absolute magnitude: -2.14 Constellation: Sagittarius

111. Ke Kouan Section 6

 $\begin{array}{ll} {\rm RA} & 14 {\rm h} \, 59' \, 45.1'' \\ {\rm Decl.} & -43^{\circ} \, 12' \, 26'' \end{array}$ 

Apparent magnitude: 2.68 Absolute magnitude: -3.35 Constellation: Lupus

197. Ke Kwan Section 6

RA  $15h\,0'\,22.3''$ Decl.  $-42^{\circ}\,10'\,38''$ 

Apparent magnitude: 3.13 Absolute magnitude: -2.96 Constellation: Centaurus 57. Kochab Section 6

RA  $14h\,50'\,40.2''$ Decl.  $74^{\circ}\,4'\,4''$ 

Apparent magnitude: 2.07 Absolute magnitude: -0.87 Constellation: Ursa Minor

45. Koo She Section 4

RA 8h 45′ 12.9″ Decl. -54° 46′ 38″

Apparent magnitude: 1.95 Absolute magnitude: 0.01 Constellation: Vela

127. Kornephoros

Section 7

RA 16h 31' 1''Decl.  $21^{\circ} 27' 0''$ 

Apparent magnitude: 2.78 Absolute magnitude: -0.5 Constellation: Hercules

108. Kraz Section 5

RA 12h 35' 21.7''Decl.  $-23^{\circ} 29' 5''$ 

Apparent magnitude: 2.65 Absolute magnitude: -0.51 Constellation: Corvus

126. Kursa Section 3 RA 5h 8' 45.6" Decl. -5° 3' 5"

Apparent magnitude: 2.78 Absolute magnitude: 0.6 Constellation: Eridanus

191.  $\lambda$  Centauri Section 5

RA 11h 36' 38.6''Decl.  $-63^{\circ} 7' 20''$ 

Apparent magnitude: 3.11 Absolute magnitude: -2.39 Constellation: Centaurus

115. Lesath Section 7

RA 17h 32' 1.4''Decl.  $-37^{\circ} 18' 3''$ 

Apparent magnitude: 2.7 Absolute magnitude: -3.31 Constellation: Scorpius

92. Markab Section 1 RA 23h 5′ 41″ Decl. 15° 18′ 1″

Apparent magnitude: 2.49 Absolute magnitude: -0.67 Constellation: Pegasus 90. Markeb Section 4

RA 9h 22' 41.2" Decl. -55° 5' 25"

Apparent magnitude: 2.47 Absolute magnitude: -3.62

Constellation: Vela

161. Matar Section 1

RA 22h 43′ 52.3″ Decl. 30° 19′ 0″

Apparent magnitude: 2.93 Absolute magnitude: -1.16 Constellation: Pegasus

185. Mebsuta Section 3 RA 6h 45′ 4.2″ Decl. 25° 6′ 4″

Apparent magnitude: 3.06 Absolute magnitude: -4.15 Constellation: Gemini

41. Menkalinan Section 3 RA 6h 0′ 53.2″ Decl. 44° 56′ 5″

Apparent magnitude: 1.9 Absolute magnitude: -0.1 Constellation: Auriga

93. Menkar Section 2 RA 3h 3′ 14.9″ Decl. 4° 9′ 4″

Apparent magnitude: 2.54 Absolute magnitude: -1.61 Constellation: Cetus

53. Menkent Section 6

RA 14h 7′ 46.7″ Decl. -36° 27′ 3″

Apparent magnitude: 2.06 Absolute magnitude: 0.7 Constellation: Centaurus

78. Men Section 6

RA 14h 43' 10.1''Decl.  $-47^{\circ} 27' 59''$ 

Apparent magnitude: 2.3 Absolute magnitude: -3.83 Constellation: Lupus

80. Merak Section 5

RA 11h 2′ 56.8″ Decl. 56° 16′ 5″

Apparent magnitude: 2.34 Absolute magnitude: 0.41 Constellation: Ursa Major 28. Miaplacidus
Section 4
RA 9h 13' 23.7"
Decl. -69° 47' 37"
Apparent magnitude: 1.67
Absolute magnitude: -0.99
Constellation: Carina

20. Mimosa Section 5 RA 12h 48' 48.9" Decl. -59° 47' 22" Apparent magnitude: 1.26 Absolute magnitude: -3.91 Constellation: Crux

180. Minkar Section 5 RA 12h 11' 4.7" Decl. -22° 43' 2"

Apparent magnitude: 3.02 Absolute magnitude: -1.82 Constellation: Corvus

73. Mintaka
Section 3
RA 5h 32′ 57.2″
Decl. 0° 17′ 1″

Apparent magnitude: 2.25 Absolute magnitude: -4.99 Constellation: Orion

55. Mirach Section 1 RA 1h 10' 46.4'' Decl.  $35^{\circ} 43' 0''$ 

Apparent magnitude: 2.07 Absolute magnitude: -1.86 Constellation: Andromeda

33. Mirfak Section 2 RA 3h 25′ 39.2″ Decl. 49° 55′ 3″

Apparent magnitude: 1.8 Absolute magnitude: -4.49 Constellation: Perseus

46. Mirzam
Section 3
RA 6h 23′ 30.9″
Decl. -17° 57′ 5″
Apparent magnitude: 1.98
Absolute magnitude: -3.95
Constellation: Canis Major

69. Mizar Section 5 RA 13h 24' 40.1" Decl. 54° 49' 4" Apparent magnitude: 2.23 Absolute magnitude: 0.33 Constellation: Ursa Major 175.  $\mu^1$  Scorpii Section 7 RA 16h 53' 7.6" Decl.  $-38^{\circ}$  4' 39" Apparent magnitude: 3 Absolute magnitude: -4.01 Constellation: Scorpius

64. Muhlifain
Section 5
RA 12h 42' 32.8"
Decl. -49° 3' 40"
Apparent magnitude: 2.2
Absolute magnitude: -0.81
Constellation: Centaurus

110. Muphrid
Section 6
RA 13h 55′ 33.9″
Decl. 18° 18′ 2″
Apparent magnitude: 2.68
Absolute magnitude: 2.41

Constellation: Boötes 113.  $\mu$  Velorum Section 5 RA 10h 47' 34.2"

Decl. -49° 31′ 6″
Apparent magnitude: 2.69

Absolute magnitude: -0.06 Constellation: Vela

65. Naos Section 4 RA 8h 4′ 14.1″ Decl. -40° 3′ 22″ Apparent magnitude: 2.21 Absolute magnitude: -5.95

Constellation: Puppis

132. Nihal Section 3 RA 5h 29' 2.3'' Decl.  $-20^{\circ} 44' 4''$  Apparent magnitude: 2.81 Absolute magnitude: -0.63

Constellation: Lepus

190.  $\nu$  Hydræ Section 5 RA 10h 50' 32.3" Decl.  $-16^{\circ}$  17' 27" Apparent magnitude: 3.11 Absolute magnitude: -0.03 Constellation: Hydra

52. Nunki Section 7 RA 18h 56′ 24.7″ Decl. -26° 16′ 2″ Apparent magnitude: 2.05 Absolute magnitude: -2.14 Constellation: Sagittarius 199. N Velorum Section 4 RA 9h 31'13.3189'' Decl.  $-57^{\circ}$  2' 3.7578'' Apparent magnitude: 3.16 Absolute magnitude: -1.15 Constellation: Vela

179.  $o^2$  Canis Majoris Section 3 RA 7h 3' 1.47211" Decl.  $-23^{\circ}$  49' 59.8523" Apparent magnitude: 3.02 Absolute magnitude: -6.46 Constellation: Canis Major

44. Peacock
Section 8
RA 20h 27' 6"
Decl. -56° 40′ 27"
Apparent magnitude: 1.93
Absolute magnitude: -1.82
Constellation: Pavo

192. Persian
Section 8
RA 20h 38′ 51.6″
Decl. -47° 13′ 32″
Apparent magnitude: 3.11

Absolute magnitude: 0.65 Constellation: Indus

106. Phact Section 3 RA 5h 40' 19.2" Decl. -34° 3' 55" Apparent magnitu

Apparent magnitude: 2.65 Absolute magnitude: -1.93 Constellation: Columba

85. Phecda Section 5 RA 11h 54′ 47.8″ Decl. 53° 35′ 3″

Apparent magnitude: 2.41 Absolute magnitude: 0.36 Constellation: Ursa Major

174. Pherkad Major Section 6 RA 15h 20′ 42.8″ Decl. 71° 46′ 0″ Apparent magnitude: 3 Absolute magnitude: -2.84

178. Phurad Section 3 RA 6h 21' 1.4" Decl. -30° 4' 2"

Apparent magnitude: 3.02 Absolute magnitude: -2.05 Constellation: Canis Major

Constellation: Ursa Minor

200.  $\pi$  Herculis Section 7 RA 17h 15' 41.5" Decl. 36° 47' 2" Apparent magnitude: 3.16 Absolute magnitude: -2.1 Constellation: Hercules 200.  $\pi$  Herculis Section 7

RA 17h 15' 41.5" Decl. 36° 47' 2" Apparent magnitude: 3.16 Absolute magnitude: -2.1

Constellation: Hercules

116.  $\pi$  Puppis Section 3 RA 7h 17' 47.8" Decl.  $-37^{\circ}$  7' 54"

Apparent magnitude: 2.71 Absolute magnitude: -4.92 Constellation: Puppis

154.  $\pi$  Scorpii Section 6 RA 15h 59' 58.5" Decl.  $-26^{\circ}$  9' 5"

Apparent magnitude: 2.89 Absolute magnitude: -2.85 Constellation: Scorpius

17. Pollux Section 4 RA 7h 46′ 26.7″ Decl. 27° 58′ 4″

Apparent magnitude: 1.14 Absolute magnitude: 1.07 Constellation: Gemini

122. Porrima Section 5 RA 12h 41' 39.6434" Decl.  $-1^{\circ}$  26' 57.7421" Apparent magnitude: 2.74 Absolute magnitude: 2.38 Constellation: Virgo

8. Procyon
Section 4
RA 7h 40′ 16.3″
Decl. 5° 10′ 3″
Apparent magnit

Apparent magnitude: 0.36 Absolute magnitude: 2.64 Constellation: Canis Minor

173.  $\psi$  Ursae Majoris Section 5 RA 11h 10' 41.8" Decl. 44° 23' 5" Apparent magnitude: 3 Absolute magnitude: -0.27 Constellation: Ursa Major 59. Rasalhague Section 7 RA 17h 35′ 47.6″ Decl. 12° 32′ 5″

Apparent magnitude: 2.08 Absolute magnitude: 1.3 Constellation: Ophiuchus

167. Ras Elased Australis Section 4 RA 9h 46′ 53.9″ Decl. 23° 41′ 1″

Apparent magnitude: 2.97 Absolute magnitude: -1.46

Constellation: Leo

129. Rastaban Section 7 RA 17h 30′ 51.1″ Decl. 52° 17′ 1″

Apparent magnitude: 2.79 Absolute magnitude: -2.43 Constellation: Draco

35. Regor Section 4 RA  $8h\,9'\,31.9501''$ Decl.  $-47^{\circ}\,20'\,11.7108''$ Apparent magnitude: 1.81Absolute magnitude: -5.25

Constellation: Vela

21. Regulus Section 4 RA 10h 9' 21.3" Decl. 11° 52' 3"

Apparent magnitude: 1.36 Absolute magnitude: -0.52

Constellation: Leo

7. Rigel Section 3 RA 5h 15' 25.7'' Decl.  $-8^{\circ} 10' 5''$ 

Apparent magnitude: 0.15v Absolute magnitude: -6.72v

Constellation: Orion

109. Ruchbah Section 1 RA 1h 27′ 2.5″ Decl. 60° 19′ 5″

Apparent magnitude: 2.66 Absolute magnitude: 0.24 Constellation: Cassiopeia

133. Rutilicus Section 7 RA 16h 41′ 59.1″ Decl. 31° 34′ 1″

Apparent magnitude: 2.81 Absolute magnitude: 2.64 Constellation: Hercules 86. Sabik Section 7 RA 17h 11' 26.4" Decl. -15° 44' 4"

Apparent magnitude: 2.43 Absolute magnitude: 0.37 Constellation: Ophiuchus

164. Sadalmelik Section 8 RA 22h 6′ 44″ Decl. 0° 13′ 4″

Apparent magnitude: 2.95 Absolute magnitude: -3.88 Constellation: Aquarius

158. Sadalsuud Section 8 RA 21h 32′ 31.9″ Decl. -5° 29′ 2″ Apparent magnitu

Apparent magnitude: 2.9 Absolute magnitude: -3.47 Constellation: Aquarius

70. Sadr Section 8 RA 20h 22′ 53.6″ Decl. 40° 19′ 0″

Apparent magnitude: 2.23 Absolute magnitude: -6.12 Constellation: Cygnus

56. Saiph Section 3 RA 5h 48' 38.1''Decl.  $-9^{\circ} 39' 5''$ 

Apparent magnitude: 2.07 Absolute magnitude: -4.65 Constellation: Orion

39. Sargas Section 7 RA 17h 38' 39" Decl.  $-43^{\circ}$  0' 28"

Apparent magnitude: 1.86 Absolute magnitude: -2.75 Constellation: Scorpius

196. Sarin Section 7 RA 17h 15′ 47.5″ Decl. 24° 49′ 0″

Apparent magnitude: 3.12 Absolute magnitude: 1.21 Constellation: Hercules

87. Scheat Section 1 RA 23h 4′ 40.4″ Decl. 28° 11′ 0″

Apparent magnitude: 2.44v Absolute magnitude: -1.49 Constellation: Pegasus

71. Schedar Section 1  $RA = 0h \, 41' \, 34.1''$ Decl.  $56^{\circ} 38' 1''$ Apparent magnitude: 2.24 Absolute magnitude: -1.99 Constellation: Cassiopeia 183. Seginus Section 6 RA 14h 32' 49.3''Decl.  $38^{\circ} \, 13' \, 4''$ 

Apparent magnitude: 3.04 Absolute magnitude: 0.96 Constellation: Boötes

24. Shaula Section 7 RA 17h 34′ 52″ Decl.  $-37^{\circ} 6' 5''$ 

Apparent magnitude: 1.62 Absolute magnitude: -5.05 Constellation: Scorpius

104. Sheratan Section 2 RA  $1h\,55'\,40''$ Decl.  $20^{\circ} 53' 5''$ 

Apparent magnitude: 2.64 Absolute magnitude: 1.33 Constellation: Aries

1. Sirius Section 3 RA 6h 45' 57.4''Decl.  $-16^{\circ} 44' 3''$ 

Apparent magnitude: -1.46 Absolute magnitude: 1.43 Constellation: Canis Major

16. Spica Section 5

RA  $13h \, 26' \, 10.2''$ Decl.  $-11^{\circ}\,15^{\prime}\,2^{\prime\prime}$ 

Apparent magnitude: 0.97 Absolute magnitude: -3.56 Constellation: Virgo

68. Suhail Section 4  $RA - 9h\,8^\prime\,40.7^{\prime\prime}$ Decl.  $-43^{\circ} 30' 29''$ Apparent magnitude: 2.23 Absolute magnitude: -3.99 Constellation: Vela

187. Tais Section 7

RA 19h 12' 33.3" Decl.  $67^{\circ} 41' 3''$ 

Apparent magnitude: 3.07 Absolute magnitude: 0.63 Constellation: Draco

194. Talita Section 4  $RA-9h\,0^\prime\,28^{\prime\prime}$ Decl.  $47^{\circ} 58' 0''$ 

Apparent magnitude: 3.12 Absolute magnitude: 2.29 Constellation: Ursa Major

186. Tania Australis Section 4

RA 10h 23' 25.5" Decl.  $41^{\circ} 24' 2''$ 

Apparent magnitude: 3.06 Absolute magnitude: -1.35 Constellation: Ursa Major

118. Tarazed Section 8

RA 19h 47' 8.3" Decl.  $10^{\circ} 39' 3''$ 

Apparent magnitude: 2.72 Absolute magnitude: -3.03 Constellation: Aquila

162.  $\tau$  Puppis Section 3 RA  $6h\,50'\,23.7''$ Decl.  $-50^{\circ} 38' 14''$ 

Apparent magnitude: 2.94 Absolute magnitude: -0.8 Constellation: Puppis

135.  $\tau$  Scorpii Section 7 RA 16h 37′ 2.2″ Decl.  $-28^{\circ} 15' 1''$ 

Apparent magnitude: 2.82 Absolute magnitude: -2.78 Constellation: Scorpius

148. Tejat Section 3 RA 6h 24' 4.8''Decl.  $22^{\circ} 30' 0''$ 

Apparent magnitude: 2.87v Absolute magnitude: -1.39v Constellation: Gemini

107.  $\theta$  Aurigæ Section 3 RA - 6h 0' 59''Decl.  $37^{\circ} 12' 4''$ 

Apparent magnitude: 2.65 Absolute magnitude: -0.98 Constellation: Auriga

121.  $\theta$  Carinæ Section 5 RA 10h 43' 37.3''Decl.  $-64^{\circ} 29' 30''$ 

Apparent magnitude: 2.74 Absolute magnitude: -2.91 Constellation: Carina

138. Turais Section 4 RA 8h 8' 19.9" Decl.  $-24^{\circ} 21' 3''$ 

Apparent magnitude: 2.83 Absolute magnitude: 1.41 Constellation: Puppis

103. Unukalhai Section 6 RA 15h 45' 10.8"

Decl.  $6^{\circ} 22' 0''$ 

Apparent magnitude: 2.63 Absolute magnitude: 0.87 Constellation: Serpens

160. v Carinæ Section 4 RA 9h 47' 33.8" Decl.  $-65^{\circ} 9' 29''$ 

Apparent magnitude: 2.92 Absolute magnitude: -5.56 Constellation: Carina

5. Vega Section 7 RA 18h 37' 33.9" Decl.  $38^{\circ} 48' 0''$ 

Apparent magnitude: 0.03 Absolute magnitude: 0.58 Constellation: Lyra

144. Vindemiatrix Section 5 RA 13h 3' 5.9" Decl.  $10^{\circ} 51' 3''$ 

Apparent magnitude: 2.85 Absolute magnitude: 0.37 Constellation: Virgo

193. Wazn Section 3 RA 5h 51' 36.8"

Decl.  $-35^{\circ} 45' 44''$ Apparent magnitude: 3.12 Absolute magnitude: 1.02

Constellation: Columba

77. Wei Section 7 RA 16h 51' 21.9" Decl.  $-34^{\circ} 19' 3''$ 

Apparent magnitude: 2.29 Absolute magnitude: 0.78 Constellation: Scorpius

36. Wezen Section 3 RA 7h 9' 8.6''Decl.  $-26^{\circ} 25' 2''$ 

Apparent magnitude: 1.83 Absolute magnitude: -6.87 Constellation: Canis Major 119. Yed Prior Section 6 RA 16h 15' 19'' Decl.  $-3^{\circ} 44' 2''$ 

Apparent magnitude: 2.73 Absolute magnitude: -0.86 Constellation: Ophiuchus

165. Zaurak Section 2

 $\begin{array}{ll} {\rm RA} & 3h\,58'\,53.6'' \\ {\rm Decl.} & -13^{\circ}\,27'\,2'' \end{array}$ 

Apparent magnitude: 2.97 Absolute magnitude: -1.19 Constellation: Eridanus

195.  $\zeta$  Aræ Section 7 RA 17h 0' 9.4" Decl.  $-56^{\circ}$  1' 2"

Apparent magnitude: 3.12 Absolute magnitude: -3.11

Constellation: Ara

95.  $\zeta$  Centauri Section 6 RA 13h 56′ 42.2″

Decl.  $-47^{\circ} 22' 43''$ Apparent magnitude: 2.55

Apparent magnitude: 2.55 Absolute magnitude: -2.81 Constellation: Centaurus

189.  $\zeta$  Hydræ Section 4

RA  $8h \, 56' \, 22.2''$ Decl.  $5^{\circ} \, 52' \, 2''$ 

Apparent magnitude: 3.11 Absolute magnitude: -0.21 Constellation: Hydra

140.  $\zeta$  Persei Section 2 RA 3h 55′ 18″ Decl. 31° 56′ 1″

Apparent magnitude: 2.84 Absolute magnitude: -4.55 Constellation: Perseus 96. Zosma Section 5

RA 11h 15′ 5.4″ Decl. 20° 25′ 1″

Apparent magnitude: 2.56 Absolute magnitude: 1.32 Constellation: Leo

105. Zubenelgenubi

Section 6

RA  $14h\,50'\,52.7131''$ Decl.  $-16^{\circ}\,2'\,30.3955''$ Apparent magnitude: 2.64 Absolute magnitude: 0.77 Constellation: Libra

102. Zubeneschamali

Section 6

RA 15h 18' 0.3" Decl. -9° 27' 0"

Apparent magnitude: 2.61 Absolute magnitude: -0.84

Constellation: Libra

## Stars According to Brightness

1. Sirius Section 3  $RA - 6h\,45^\prime\,57.4^{\prime\prime}$ Decl.  $-16^{\circ} 44' 3''$ Apparent magnitude: -1.46 Absolute magnitude: 1.43 Constellation: Canis Major

Section 3  $RA = 6h \, 24' \, 21.8''$ Decl.  $-52^{\circ} 42' 23''$ Apparent magnitude: -0.73 Absolute magnitude: -5.64 Constellation: Carina

2. Canopus

4. Arcturus

5. Vega

3.  $\alpha$  Centauri Section 6 RA 14h 39′ 35.0631″ Decl.  $-60^{\circ} 50' 15.0992''$ Apparent magnitude: -0.29 Absolute magnitude: 4.06 Constellation: Centaurus

Section 6 RA 14h 16' 30.3" Decl.  $19^{\circ} 5' 1''$ Apparent magnitude: -0.05 Absolute magnitude: -0.31 Constellation: Boötes

Section 7  $RA = 18h\,37'\,33.9''$ Decl.  $38^{\circ} 48' 0''$ Apparent magnitude: 0.03 Absolute magnitude: 0.58

Constellation: Lyra

6. Capella Section 3 RA  $5h \, 18' \, 3.5''$ Decl.  $46^{\circ} 0' 5''$ 

Apparent magnitude: 0.07 Absolute magnitude: -0.49 Constellation: Auriga

7. Rigel Section 3 RA 5h 15' 25.7" Decl.  $-8^{\circ}\,10'\,5''$ Apparent magnitude: 0.15v Absolute magnitude: -6.72v

Constellation: Orion

8. Procyon Section 4 RA  $7h\,40'\,16.3''$ Decl.  $5^{\circ} 10' 3''$ 

Apparent magnitude: 0.36 Absolute magnitude: 2.64 Constellation: Canis Minor

9. Achernar Section 2  $RA \quad 1h\,38'\,24''$ Decl.  $-57^{\circ} 8' 36''$ Apparent magnitude: 0.45 Absolute magnitude: -2.77 Constellation: Eridanus

10. Betelgeuse Section 3 RA  $5h\,56'\,10.4''$ Decl.  $7^{\circ} 24' 3''$ 

Apparent magnitude: 0.55v Absolute magnitude: -5.04v Constellation: Orion

11. Hadar Section 6 RA 14h 5' 8.7" Decl.  $-60^{\circ} 27' 41''$ Apparent magnitude: 0.61 Absolute magnitude: -5.42

Constellation: Centaurus

12. Altair Section 8 RA  $19h\,51'\,41.1''$ Decl.  $8^{\circ} 55' 0''$ 

Apparent magnitude: 0.77 Absolute magnitude: 2.21 Constellation: Aquila

14. Aldebaran Section 3 RA 4h 36′ 59.1″ Decl.  $16^{\circ} 32' 4''$ 

15. Antares Section 7 RA 16h 30′ 32.7″ Decl.  $-26^{\circ} 28' 1''$ 

Apparent magnitude: 0.95v Absolute magnitude: -5.39v Constellation: Scorpius

16. Spica Section 5 RA 13h 26' 10.2" Decl.  $-11^{\circ} 15' 2''$ 

Apparent magnitude: 0.97 Absolute magnitude: -3.56 Constellation: Virgo

17. Pollux Section 4 RA 7h 46′ 26.7″ Decl. 27° 58′ 4″

18. Fomalhaut

Apparent magnitude: 1.14 Absolute magnitude: 1.07 Constellation: Gemini

Section 1 RA 22h 57' 39.0465" Decl.  $-29^{\circ} 37' 20.05''$ Apparent magnitude: 1.15 Absolute magnitude: 1.72 Constellation: Piscis Austrinus

19. Deneb Section 8 RA  $20h\,42'\,3.8''$ Decl.  $45^{\circ} 20' 5''$ 

Apparent magnitude: 1.24 Absolute magnitude: -8.74 Constellation: Cygnus

20. Mimosa Section 5 RA 12h 48' 48.9" Decl.  $-59^{\circ} 47' 22''$ Apparent magnitude: 1.26

Absolute magnitude: -3.91 Constellation: Crux

Absolute magnitude: -0.52

21. Regulus Section 4 RA 10h 9' 21.3" Decl.  $11^{\circ} 52' 3''$ Apparent magnitude: 1.36

Constellation: Leo

Apparent magnitude: 0.86v Absolute magnitude: -0.64v Constellation: Taurus

> 22. Adhara Section 3 RA 6h 59' 21.2" Decl.  $-28^{\circ} \, 59' \, 5''$

Apparent magnitude: 1.5 Absolute magnitude: -4.1 Constellation: Canis Major 23. Castor Section 4

RA 7h 34′ 35.863″ Decl. 31° 53′ 17.79″

Apparent magnitude: 1.58 Absolute magnitude: 0.59 Constellation: Gemini

24. Shaula Section 7 RA  $17h \, 34' \, 52''$  Decl.  $-37^{\circ} \, 6' \, 5''$ 

Apparent magnitude: 1.62 Absolute magnitude: -5.05 Constellation: Scorpius

25. Gacrux Section 5

RA 12h 32' 12.2''Decl.  $-57^{\circ} 13' 0''$ 

Apparent magnitude: 1.63 Absolute magnitude: -0.52 Constellation: Crux

26. Bellatrix Section 3 RA 5h 26′ 7.5″ Decl. 6° 21′ 5″

Apparent magnitude: 1.64 Absolute magnitude: -2.72 Constellation: Orion

27. Elnath Section 3 RA 5h 27' 27.8" Decl. 28° 37' 1"

Apparent magnitude: 1.66 Absolute magnitude: -1.36 Constellation: Taurus

28. Miaplacidus Section 4 RA 9h 13' 23.7" Decl.  $-69^{\circ}$  47' 37"

Apparent magnitude: 1.67 Absolute magnitude: -0.99 Constellation: Carina

29. Alnilam Section 3 RA 5h 37′ 9.2″ Decl. -1° 11′ 2″

Apparent magnitude: 1.69 Absolute magnitude: -6.38 Constellation: Orion

30. Alnair Section 8 RA  $22h\,9'\,23.4''$ Decl.  $-46^{\circ}\,52'\,14''$ Apparent magnitude: 1.74 Absolute magnitude: -0.72

Constellation: Grus

31. Alnitak Section 3 RA 5h 41' 41.6'' Decl.  $-1^{\circ} 56' 0''$ 

Apparent magnitude: 1.75 Absolute magnitude: -5.25 Constellation: Orion

32. Alioth Section 5

RA  $12h\,54'\,50.3''$ Decl.  $55^{\circ}\,51'\,3''$ 

Apparent magnitude: 1.77 Absolute magnitude: -0.2 Constellation: Ursa Major

33. Mirfak Section 2 RA 3h 25′ 39.2″ Decl. 49° 55′ 3″

Apparent magnitude: 1.8 Absolute magnitude: -4.49 Constellation: Perseus

34. Dubhe Section 5 RA 11h 4′ 51.2″ Decl. 61° 39′ 0″

Apparent magnitude: 1.8 Absolute magnitude: -1.09 Constellation: Ursa Major

35. Regor Section 4

RA  $8h\,9'\,31.9501''$ Decl.  $-47^{\circ}\,20'\,11.7108''$ Apparent magnitude: 1.81 Absolute magnitude: -5.25 Constellation: Vela

36. Wezen Section 3 RA 7h 9' 8.6" Decl. -26° 25′ 2"

Apparent magnitude: 1.83 Absolute magnitude: -6.87 Constellation: Canis Major

37. Kaus Australis Section 7 RA 18h 25' 24'' Decl.  $-34^{\circ} 22' 2''$ 

Apparent magnitude: 1.84 Absolute magnitude: -1.39 Constellation: Sagittarius

38. Alkaid Section 6 RA 13h 48′ 16.1″ Decl. 49° 13′ 1″

Apparent magnitude: 1.86 Absolute magnitude: -0.59 Constellation: Ursa Major 39. Sargas Section 7 RA 17h 38' 39" Decl. -43° 0' 28"

Apparent magnitude: 1.86 Absolute magnitude: -2.75 Constellation: Scorpius

40. Avior Section 4 RA 8h 22' 53.5" Decl. -59° 34' 10"

Apparent magnitude: 1.87 Absolute magnitude: -4.57 Constellation: Carina

41. Menkalinan Section 3 RA 6h 0' 53.2" Decl. 44° 56' 5"

Apparent magnitude: 1.9 Absolute magnitude: -0.1 Constellation: Auriga

42. Atria Section 7

RA  $16h\,48'\,39.8951''$ Decl.  $-69^{\circ}\,1'\,39.7626''$ Apparent magnitude: 1.92Absolute magnitude: -3.61

 ${\bf Constellation:\ Triangulum\ Australe}$ 

43. Alhena Section 3 RA 6h 38′ 46.8″ Decl. 16° 22′ 5″

Apparent magnitude: 1.93 Absolute magnitude: -0.6 Constellation: Gemini

44. Peacock Section 8 RA 20h 27′ 6″ Decl. -56° 40′ 27″

Apparent magnitude: 1.93 Absolute magnitude: -1.82

Constellation: Pavo

45. Koo She Section 4 RA 8h 45' 12.9" Decl. -54° 46' 38" Apparent magnitu

Apparent magnitude: 1.95 Absolute magnitude: 0.01 Constellation: Vela

46. Mirzam Section 3 RA 6h 23' 30.9'' Decl.  $-17^{\circ} 57' 5''$ 

Apparent magnitude: 1.98 Absolute magnitude: -3.95 Constellation: Canis Major 47. Alphard Section 4 RA 9h 28' 29.8" Decl. -8° 44' 2"

Apparent magnitude: 1.98 Absolute magnitude: -1.7 Constellation: Hydra

49. Algieba Section 4

RA 10h 19′ 58.3506″ Decl. 19° 50′ 29.3468″ Apparent magnitude: 2 Absolute magnitude: -0.93

Constellation: Leo

50. Hamal Section 2 RA 2h 8' 13.2" Decl. 23° 32' 5"

Apparent magnitude: 2.01 Absolute magnitude: 0.48 Constellation: Aries

51. Diphda Section 1 RA 0h 44' 31'' Decl.  $-17^{\circ} 53' 0''$ 

Apparent magnitude: 2.04 Absolute magnitude: -0.3 Constellation: Cetus

52. Nunki Section 7

RA  $18h\,56'\,24.7''$ Decl.  $-26^{\circ}\,16'\,2''$ 

Apparent magnitude: 2.05 Absolute magnitude: -2.14 Constellation: Sagittarius

53. Menkent Section 6

 $\begin{array}{ll} {\rm RA} & 14 {\rm h}\, 7'\, 46.7'' \\ {\rm Decl.} & -36^{\circ}\, 27'\, 3'' \end{array}$ 

Apparent magnitude: 2.06 Absolute magnitude: 0.7 Constellation: Centaurus

54. Alpheratz Section 1 RA 0h 9′ 20.9″ Decl. 29° 11′ 3″

Apparent magnitude: 2.07 Absolute magnitude: -0.3 Constellation: Andromeda

55. Mirach Section 1 RA  $-1h \cdot 10' \cdot 46.4''$ 

Decl. 35° 43′ 0″ Apparent magnitude: 2.07

Apparent magnitude: 2.07 Absolute magnitude: -1.86 Constellation: Andromeda 56. Saiph Section 3

RA  $5h \, 48' \, 38.1''$ Decl.  $-9^{\circ} \, 39' \, 5''$ 

Apparent magnitude: 2.07 Absolute magnitude: -4.65 Constellation: Orion

57. Kochab Section 6

RA 14h 50′ 40.2″ Decl. 74° 4′ 4″

Apparent magnitude: 2.07 Absolute magnitude: -0.87 Constellation: Ursa Minor

58. Al Dhanab Section 1

RA  $22h\,43'\,45.8''$ Decl.  $-46^{\circ}\,47'\,14''$ 

Apparent magnitude: 2.07v Absolute magnitude: 1.52 Constellation: Grus

59. Rasalhague Section 7

RA 17h 35′ 47.6″ Decl. 12° 32′ 5″

Apparent magnitude: 2.08 Absolute magnitude: 1.3 Constellation: Ophiuchus

60. Algol Section 2 RA 3h 9′ 22.8″ Decl. 41° 1′ 3″

Apparent magnitude: 2.09 Absolute magnitude: 0.18 Constellation: Perseus

61. Almach Section 2

RA 2h 3′ 53.9523″ Decl. 42° 19′ 47.0223″ Apparent magnitude: 2.1 Absolute magnitude: -3.08 Constellation: Andromeda

62. Denebola Section 5 RA 11h 50′ 0.1″ Decl. 14° 28′ 0″

Apparent magnitude: 2.14 Absolute magnitude: 1.92

Constellation: Leo

63. Cih Section 1 RA 0h 57′ 50.4″ Decl. 60° 48′ 5″

Apparent magnitude: 2.15v Absolute magnitude: -4.22 Constellation: Cassiopeia 64. Muhlifain Section 5

RA 12h 42' 32.8''Decl.  $-49^{\circ} 3' 40''$ 

Apparent magnitude: 2.2 Absolute magnitude: -0.81 Constellation: Centaurus

65. Naos Section 4 RA 8h 4′ 14.1″ Decl. -40° 3′ 22″

Apparent magnitude: 2.21 Absolute magnitude: -5.95 Constellation: Puppis

66. Aspidiske Section 4 RA 9h17'35.1" Decl. -59°21'12"

Apparent magnitude: 2.21v Absolute magnitude: -4.42 Constellation: Carina

67. Alphecca Section 6 RA 15h 35′ 28.3″ Decl. 26° 39′ 1″

Apparent magnitude: 2.22 Absolute magnitude: 0.42 Constellation: Corona Borealis

68. Suhail Section 4 RA 9h 8' 40.7" Decl. -43° 30' 29"

Apparent magnitude: 2.23 Absolute magnitude: -3.99

Constellation: Vela

69. Mizar Section 5

RA 13h 24' 40.1''Decl.  $54^{\circ} 49' 4''$ 

Apparent magnitude: 2.23 Absolute magnitude: 0.33 Constellation: Ursa Major

70. Sadr Section 8

RA 20h 22′ 53.6″ Decl. 40° 19′ 0″

Apparent magnitude: 2.23 Absolute magnitude: -6.12 Constellation: Cygnus

71. Schedar Section 1 RA 0h 41′ 34.1″ Decl. 56° 38′ 1″

Apparent magnitude: 2.24 Absolute magnitude: -1.99 Constellation: Cassiopeia

72. Eltanin Section 7  $RA \quad 17h\,57^\prime\,2.2^{\prime\prime}$ Decl. 51° 29′ 1″

Apparent magnitude: 2.24 Absolute magnitude: -1.04 Constellation: Draco

73. Mintaka Section 3  $RA \quad 5h\,32^\prime\,57.2^{\prime\prime}$ Decl.  $0^{\circ} 17' 1''$ 

Apparent magnitude: 2.25 Absolute magnitude: -4.99

Constellation: Orion

74. Caph Section 1 RA  $0h\,10'\,10.6''$ Decl.  $59^{\circ} 15' 0''$ 

Apparent magnitude: 2.28 Absolute magnitude: 1.17 Constellation: Cassiopeia

75.  $\epsilon$  Centauri Section 6 RA 13h 41' 4.3" Decl.  $-53^{\circ} 33' 35''$ 

Apparent magnitude: 2.29 Absolute magnitude: -3.02 Constellation: Centaurus

76. Dschubba Section 6 RA 16h 1' 25.8''Decl.  $-22^{\circ} 40' 2''$ 

Apparent magnitude: 2.29 Absolute magnitude: -3.16 Constellation: Scorpius

77. Wei Section 7 RA 16h 51' 21.9" Decl.  $-34^{\circ} 19' 3''$ 

Apparent magnitude: 2.29 Absolute magnitude: 0.78 Constellation: Scorpius

78. Men Section 6

RA 14h 43' 10.1''Decl.  $-47^{\circ} 27' 59''$ Apparent magnitude: 2.3

Absolute magnitude: -3.83

Constellation: Lupus

79.  $\eta$  Centauri Section 6

RA  $14h \, 36' \, 41.4''$ Decl.  $-42^{\circ} 14' 17''$ 

Apparent magnitude: 2.33v Absolute magnitude: -2.55 Constellation: Centaurus

80. Merak Section 5

 $RA \quad 11h\,2^\prime\,56.8^{\prime\prime}$ Decl.  $56^{\circ} 16' 5''$ 

Apparent magnitude: 2.34 Absolute magnitude: 0.41 Constellation: Ursa Major

81. Izar Section 6

RA 14h 45' 47.7" Decl.  $26^{\circ} 59' 4''$ 

Apparent magnitude: 2.35 Absolute magnitude: -1.69 Constellation: Boötes

82. Enif Section 8

RA  $21h \, 45' \, 5.7''$ Decl.  $9^{\circ} 57' 3''$ 

Apparent magnitude: 2.38 Absolute magnitude: -4.19 Constellation: Pegasus

83. Girtab Section 7

RA  $17h \, 43' \, 46.1''$ Decl.  $-39^{\circ} 2' 16''$ 

Apparent magnitude: 2.39 Absolute magnitude: -3.38 Constellation: Scorpius

84. Ankaa Section 1

 $RA - 0h\,27'\,11.7''$ Decl.  $-42^{\circ} 12' 20''$ Apparent magnitude: 2.4 Absolute magnitude: 0.52 Constellation: Phoenix

85. Phecda Section 5

RA 11h 54' 47.8" Decl.  $53^{\circ} 35' 3''$ 

Apparent magnitude: 2.41 Absolute magnitude: 0.36 Constellation: Ursa Major

86. Sabik Section 7

RA 17h 11' 26.4" Decl.  $-15^{\circ} 44' 4''$ 

Apparent magnitude: 2.43 Absolute magnitude: 0.37 Constellation: Ophiuchus

87. Scheat Section 1

 $RA \quad 23h\,4^\prime\,40.4^{\prime\prime}$ Decl.  $28^{\circ} 11' 0''$ 

Apparent magnitude: 2.44v Absolute magnitude: -1.49 Constellation: Pegasus

88. Aludra Section 3

RA 7h 24' 49.6''Decl.  $-29^{\circ} 20' 2''$ 

Apparent magnitude: 2.45 Absolute magnitude: -7.51 Constellation: Canis Major

89. Alderamin Section 8

RA 21h 19' 1.2" Decl.  $62^{\circ} 39' 5''$ 

Apparent magnitude: 2.45 Absolute magnitude: 1.58 Constellation: Cepheus

90. Markeb Section 4

RA 9h 22' 41.2''Decl.  $-55^{\circ} 5' 25''$ 

Apparent magnitude: 2.47 Absolute magnitude: -3.62 Constellation: Vela

91. Gienah Section 8

RA 20h 46' 57.6" Decl.  $34^{\circ} 2' 2''$ 

Apparent magnitude: 2.48 Absolute magnitude: 0.76 Constellation: Cygnus

92. Markab Section 1 RA  $23h \, 5' \, 41''$ Decl.  $15^{\circ} 18' 1''$ 

Apparent magnitude: 2.49 Absolute magnitude: -0.67 Constellation: Pegasus

93. Menkar Section 2 RA 3h 3' 14.9" Decl.  $4^{\circ} 9' 4''$ 

Apparent magnitude: 2.54 Absolute magnitude: -1.61 Constellation: Cetus

94. Han Section 7

RA 16h 38' 10.8" Decl.  $-10^{\circ} 36' 1''$ 

Apparent magnitude: 2.54 Absolute magnitude: -3.2 Constellation: Ophiuchus

95.  $\zeta$  Centauri Section 6

RA  $13h \, 56' \, 42.2''$ Decl.  $-47^{\circ} 22' 43''$ 

Apparent magnitude: 2.55 Absolute magnitude: -2.81 Constellation: Centaurus

96. Zosma Section 5 RA 11h 15′ 5.4″ Decl. 20° 25′ 1″

Apparent magnitude: 2.56 Absolute magnitude: 1.32

Constellation: Leo

98. Arneb Section 3 RA 5h 33′ 32.8″ Decl. -17° 48′ 3″

Apparent magnitude: 2.58 Absolute magnitude: -5.4 Constellation: Lepus

99.  $\delta$  Centauri Section 5 RA 12h 9' 19.5"

RA 12h 9' 19.5" Decl. -50° 49' 31"

Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus

100. Gienah Ghurab

Section 5

 $\begin{array}{ll} {\rm RA} & 12h\,16'\,45.6'' \\ {\rm Decl.} & -17^{\circ}\,38'\,4'' \end{array}$ 

Apparent magnitude: 2.58 Absolute magnitude: -0.94 Constellation: Corvus

101. Ascella Section 7 RA 19h 3' 47.2'' Decl.  $-29^{\circ} 51' 0''$ 

Apparent magnitude: 2.6 Absolute magnitude: 0.42 Constellation: Sagittarius

102. Zubeneschamali

Section 6

RA 15h 18' 0.3''Decl.  $-9^{\circ} 27' 0''$ 

Apparent magnitude: 2.61 Absolute magnitude: -0.84 Constellation: Libra

103. Unukalhai Section 6

RA 15h 45' 10.8" Decl. 6° 22' 0"

Apparent magnitude: 2.63 Absolute magnitude: 0.87 Constellation: Serpens

104. Sheratan Section 2 RA 1h 55′ 40″ Decl. 20° 53′ 5″

Apparent magnitude: 2.64 Absolute magnitude: 1.33

Constellation: Aries

105. Zubenelgenubi

Section 6

RA 14h 50′ 52.7131″ Decl. −16° 2′ 30.3955″ Apparent magnitude: 2.64 Absolute magnitude: 0.77 Constellation: Libra

106. Phact Section 3 RA 5h 40' 19.2'' Decl.  $-34^{\circ} 3' 55''$ 

Apparent magnitude: 2.65 Absolute magnitude: -1.93 Constellation: Columba

107.  $\theta$  Aurigæ Section 3 RA 6h 0' 59" Decl. 37° 12' 4"

Apparent magnitude: 2.65 Absolute magnitude: -0.98 Constellation: Auriga

108. Kraz Section 5

RA 12h 35' 21.7''Decl.  $-23^{\circ} 29' 5''$ 

Apparent magnitude: 2.65 Absolute magnitude: -0.51 Constellation: Corvus

109. Ruchbah Section 1 RA 1h 27′ 2.5″ Decl. 60° 19′ 5″

Apparent magnitude: 2.66 Absolute magnitude: 0.24 Constellation: Cassiopeia

 $\begin{array}{c} 110. \ \mathrm{Muphrid} \\ \mathrm{Section} \ 6 \end{array}$ 

RA 13h 55′ 33.9″ Decl. 18° 18′ 2″

Apparent magnitude: 2.68 Absolute magnitude: 2.41 Constellation: Boötes

111. Ke Kouan Section 6

RA 14h 59' 45.1" Decl. -43° 12' 26"

Apparent magnitude: 2.68 Absolute magnitude: -3.35 Constellation: Lupus

112. Hassaleh Section 3 RA 4h 58′ 12.1″ Decl. 33° 11′ 3″

Apparent magnitude: 2.69 Absolute magnitude: -3.29 Constellation: Auriga 113.  $\mu$  Velorum Section 5 RA 10h 47' 34.2''

Decl.  $-49^{\circ} 31' 6''$ Apparent magnitude:

Apparent magnitude: 2.69 Absolute magnitude: -0.06 Constellation: Vela

114.  $\alpha$  Muscæ Section 5

RA 12h 38′ 18.4″ Decl. -69° 14′ 14″

Apparent magnitude: 2.69 Absolute magnitude: -2.17 Constellation: Musca

115. Lesath Section 7 RA 17h 32′ 1.4″ Decl. -37° 18′ 3″

Apparent magnitude: 2.7 Absolute magnitude: -3.31 Constellation: Scorpius

116.  $\pi$  Puppis Section 3 RA 7h 17' 47.8" Decl.  $-37^{\circ}$  7' 54"

Apparent magnitude: 2.71 Absolute magnitude: -4.92 Constellation: Puppis

117. Kaus Meridionalis Section 7

RA 18h 22′ 10.7″ Decl. -29° 49′ 0″

Apparent magnitude: 2.72 Absolute magnitude: -2.14 Constellation: Sagittarius

118. Tarazed Section 8

RA 19h 47′ 8.3″ Decl. 10° 39′ 3″

Apparent magnitude: 2.72 Absolute magnitude: -3.03 Constellation: Aquila

119. Yed Prior Section 6 RA 16h 15' 19'' Decl.  $-3^{\circ} 44' 2''$ 

Apparent magnitude: 2.73 Absolute magnitude: -0.86 Constellation: Ophiuchus

120. Aldhibain Section 6

RA 16h 24' 14.7" Decl. 61° 28' 2"

Apparent magnitude: 2.73 Absolute magnitude: 0.58 Constellation: Draco 121.  $\theta$  Carinæ Section 5 RA 10h 43′ 37.3″ Decl.  $-64^{\circ}$  29′ 30″ Apparent magnitude: 2.74 Absolute magnitude: -2.91 Constellation: Carina

122. Porrima Section 5

RA  $12h\,41'\,39.6434''$ Decl.  $-1^{\circ}\,26'\,57.7421''$ Apparent magnitude: 2.74 Absolute magnitude: 2.38 Constellation: Virgo

123. Hatysa Section 3 RA 5h 36' 20.3'' Decl.  $-5^{\circ} 53' 5''$ 

Apparent magnitude: 2.75 Absolute magnitude: -5.3 Constellation: Orion

124.  $\iota$  Centauri Section 5 RA 13h 21′ 38.6″ Decl.  $-36^{\circ}$  48′ 34″

Apparent magnitude: 2.75 Absolute magnitude: 1.48 Constellation: Centaurus

125. Cebalrai Section 7 RA 17h 44' 23.2" Decl.  $4^{\circ}$  33' 3"

Apparent magnitude: 2.76 Absolute magnitude: 0.76 Constellation: Ophiuchus

126. Kursa Section 3 RA  $5h\,8'\,45.6''$  Decl.  $-5^{\circ}\,3'\,5''$ 

Apparent magnitude: 2.78 Absolute magnitude: 0.6 Constellation: Eridanus

127. Kornephoros Section 7 RA 16h 31' 1" Decl. 21° 27' 0"

Apparent magnitude: 2.78 Absolute magnitude: -0.5 Constellation: Hercules

 $\begin{array}{ll} 128. \ \delta \ {\rm Crucis} \\ {\rm Section} \ 5 \\ {\rm RA} \quad 12 {\rm h} \ 16' \ 8.3'' \\ {\rm Decl.} \ -58^{\circ} \ 51' \ 6'' \end{array}$ 

Apparent magnitude: 2.79 Absolute magnitude: -2.45

Constellation: Crux

129. Rastaban Section 7 RA 17h 30′ 51.1″ Decl. 52° 17′ 1″

Apparent magnitude: 2.79 Absolute magnitude: -2.43 Constellation: Draco

130. Cor Caroli 2 Section 5

D / 19h

RA 12h 56′ 1.66622″ Decl. 38° 19′ 6.1541″ Apparent magnitude: 2.98v Absolute magnitude: 0.16 Constellation: Canes Venatici

131.  $\gamma$  Lupi Section 6 RA 15h 36' 22.8" Decl. -41° 13' 39" Apparent magnitude: 2.8 Absolute magnitude: -3.4 Constellation: Lupus

132. Nihal Section 3 RA 5h 29' 2.3'' Decl.  $-20^{\circ} 44' 4''$ 

Apparent magnitude: 2.81 Absolute magnitude: -0.63 Constellation: Lepus

133. Rutilicus Section 7 RA  $16h\,41'\,59.1''$  Decl.  $31^\circ\,34'\,1''$ 

Apparent magnitude: 2.81 Absolute magnitude: 2.64 Constellation: Hercules

134.  $\beta$  Hydri Section 1 RA 0h 26′ 41.9″ Decl.  $-77^{\circ}$  9′ 1″

Apparent magnitude: 2.82 Absolute magnitude: 3.45 Constellation: Hydrus

135.  $\tau$  Scorpii Section 7 RA 16h 37' 2.2" Decl. -28° 15' 1"

Apparent magnitude: 2.82 Absolute magnitude: -2.78 Constellation: Scorpius

136. Kaus Borealis Section 7 RA 18h 29' 6.7'' Decl.  $-25^{\circ} 24' 3''$ 

Apparent magnitude: 2.82 Absolute magnitude: 0.95 Constellation: Sagittarius 137. Algenib Section 1 RA 0h 14′ 11.4″ Decl. 15° 17′ 1″

Apparent magnitude: 2.83 Absolute magnitude: -2.22 Constellation: Pegasus

138. Turais Section 4 RA 8h 8' 19.9'' Decl.  $-24^{\circ} 21' 3''$ 

Apparent magnitude: 2.83 Absolute magnitude: 1.41 Constellation: Puppis

139.  $\beta$ Trianguli Australis

Section 6

RA  $15h\,56'\,47.3''$ Decl.  $-63^{\circ}\,29'\,9''$ 

Apparent magnitude: 2.83 Absolute magnitude: 2.38

Constellation: Triangulum Australe

140.  $\zeta$  Persei Section 2 RA 3h 55′ 18″ Decl. 31° 56′ 1″

Apparent magnitude: 2.84 Absolute magnitude: -4.55 Constellation: Perseus

141.  $\beta$  Aræ Section 7

RA 17h 26′ 50.5″ Decl. -55° 32′ 43″

Apparent magnitude: 2.84 Absolute magnitude: -3.49 Constellation: Ara

142. Choo Section 7

RA 17h 33′ 16.4″ Decl. -49° 53′ 20″

Apparent magnitude: 2.84 Absolute magnitude: -1.51 Constellation: Ara

143. Alcyone Section 2

RA 3h 48′ 35.3″ Decl. 24° 9′ 4″

Apparent magnitude: 2.85 Absolute magnitude: -2.41 Constellation: Taurus

144. Vindemiatrix

Section 5

RA 13h 3′ 5.9″ Decl. 10° 51′ 3″

Apparent magnitude: 2.85 Absolute magnitude: 0.37 Constellation: Virgo 145. Deneb Algedi Section 8 RA 21h 48′ 3.6″ Decl. -16° 2′ 3″ Apparent magnitude: 2.85 Absolute magnitude: 2.49 Constellation: Capricornus

146.  $\alpha$  Hydri Section 2 RA 1h 59′ 21.1″ Decl.  $-61^{\circ}$  28′ 49″

Apparent magnitude: 2.86 Absolute magnitude: 1.16 Constellation: Hydrus

147.  $\delta$  Cygni Section 8 RA 19h 45' 33.2" Decl. 45° 10' 3"

Apparent magnitude: 2.86 Absolute magnitude: -0.74 Constellation: Cygnus

148. Tejat Section 3 RA 6h 24' 4.8'' Decl.  $22^{\circ} 30' 0''$ 

Apparent magnitude: 2.87v Absolute magnitude: -1.39v Constellation: Gemini

149.  $\gamma$ Trianguli Australis Section 6

RA  $15h\,18'\,54.582''$ Decl.  $-68^{\circ}\,40'\,46.3654''$ Apparent magnitude: 2.87Absolute magnitude: -0.87

Constellation: Triangulum Australe

150.  $\alpha$  Tucanæ Section 8 RA 22h 19' 45.2" Decl.  $-60^{\circ}$  10' 0"

Apparent magnitude: 2.87 Absolute magnitude: -1.05 Constellation: Tucana

151. Acamar Section 2

RA 2h 58′ 15.6792″ Decl. -40° 18′ 16.8457″ Apparent magnitude: 2.88 Absolute magnitude: -0.59 Constellation: Eridanus

152. Albaldah Section 7

RA 19h 10' 51.8''Decl.  $-20^{\circ} 59' 3''$ 

Apparent magnitude: 2.88 Absolute magnitude: -2.77 Constellation: Sagittarius 153. Gomeisa Section 3 RA 7h 28' 9.2" Decl.  $8^{\circ}$  15' 0"

Apparent magnitude: 2.89 Absolute magnitude: -0.7 Constellation: Canis Minor

154.  $\pi$  Scorpii Section 6 RA 15h 59' 58.5" Decl.  $-26^{\circ}$  9' 5"

Apparent magnitude: 2.89 Absolute magnitude: -2.85 Constellation: Scorpius

155.  $\epsilon$  Persei Section 2 RA 3h 59' 6.1" Decl. 40° 3' 4"

Apparent magnitude: 2.9 Absolute magnitude: -3.19 Constellation: Perseus

156. Alniyat Section 6 RA  $16h\,22'\,19''$  Decl.  $-25^{\circ}\,38'\,0''$ 

Apparent magnitude: 2.9v Absolute magnitude: -3.86v Constellation: Scorpius

157. Albireo Section 8 RA 19h 31′ 28.1″ Decl. 27° 59′ 5″

Apparent magnitude: 2.9 Absolute magnitude: -2.31 Constellation: Cygnus

158. Sadalsuud Section 8 RA 21h 32' 31.9" Decl.  $-5^{\circ}$  29' 2"

Apparent magnitude: 2.9 Absolute magnitude: -3.47 Constellation: Aquarius

159.  $\gamma$  Persei Section 2 RA  $3h\,6'\,8.9''$  Decl.  $53^{\circ}\,34'\,3''$ 

Apparent magnitude: 2.91 Absolute magnitude: -1.57 Constellation: Perseus

160. *v* Carinæ Section 4

 $\begin{array}{ll} {\rm RA} & 9h\,47'\,33.8'' \\ {\rm Decl.} & -65^{\circ}\,9'\,29'' \end{array}$ 

Apparent magnitude: 2.92 Absolute magnitude: -5.56 Constellation: Carina 161. Matar Section 1

RA 22h 43′ 52.3″ Decl. 30° 19′ 0″

Apparent magnitude: 2.93 Absolute magnitude: -1.16 Constellation: Pegasus

162.  $\tau$  Puppis Section 3 RA 6h 50′ 23.7″ Decl.  $-50^{\circ}$  38′ 14″

Apparent magnitude: 2.94 Absolute magnitude: -0.8 Constellation: Puppis

163. Algorel Section 5

RA 12h 30' 49.4''Decl.  $-16^{\circ} 37' 0''$ 

Apparent magnitude: 2.94 Absolute magnitude: 0.79 Constellation: Corvus

164. Sadalmelik Section 8 RA  $22h\,6'\,44''$  Decl.  $0^{\circ}\,13'\,4''$ 

Apparent magnitude: 2.95 Absolute magnitude: -3.88 Constellation: Aquarius

165. Zaurak Section 2 RA 3h 58′ 53.6″ Decl. -13° 27′ 2″

Apparent magnitude: 2.97 Absolute magnitude: -1.19 Constellation: Eridanus

166. Alheka Section 3 RA 5h 38′ 48

RA 5h 38' 45.1" Decl. 21° 9' 0"

Apparent magnitude: 2.97 Absolute magnitude: -2.56 Constellation: Taurus

167. Ras Elased Australis Section 4

RA 9h 46′ 53.9″ Decl. 23° 41′ 1″

Apparent magnitude: 2.97 Absolute magnitude: -1.46 Constellation: Leo

168. Alnasl

Section 7 RA 18h 6' 59.8" Decl. -30° 25' 2"

Apparent magnitude: 2.98 Absolute magnitude: 0.63 Constellation: Sagittarius

169.  $\gamma$  Hydræ Section 5 RA  $13h \, 19' \, 55.9''$ Decl.  $-23^{\circ} \, 16' \, 0''$ 

Apparent magnitude: 2.99 Absolute magnitude: -0.05

Constellation: Hydra

170.  $\iota^1$  Scorpii Section 7 RA 17h 48' 52.8" Decl.  $-40^{\circ} 7' 56''$ 

Apparent magnitude: 2.99 Absolute magnitude: -5.71 Constellation: Scorpius

171. Deneb el Okab Section 7 RA 19h 6' 15.6"

Decl.  $13^{\circ} 53' 3''$ Apparent magnitude: 2.99 Absolute magnitude: 0.96 Constellation: Aquila

172.  $\beta$ Trianguli Section 2 RA  $2h \, 10' \, 39.1''$ Decl.  $35^{\circ} 4' 2''$ 

Apparent magnitude: 3 Absolute magnitude: 0.09 Constellation: Triangulum

173.  $\psi$  Ursae Majoris Section 5 RA 11h 10' 41.8" Decl.  $44^{\circ} 23' 5''$ Apparent magnitude: 3

Absolute magnitude: -0.27 Constellation: Ursa Major

174. Pherkad Major Section 6 RA 15h 20' 42.8''Decl.  $71^{\circ} 46' 0''$ Apparent magnitude: 3 Absolute magnitude: -2.84 Constellation: Ursa Minor

175.  $\mu^1$  Scorpii Section 7 RA  $16h\,53'\,7.6''$ Decl.  $-38^{\circ} 4' 39''$ Apparent magnitude: 3 Absolute magnitude: -4.01 Constellation: Scorpius

176.  $\gamma$  Gruis Section 8 RA 21h 55′ 2.6″ Decl.  $-37^{\circ} \, 16' \, 37''$ Apparent magnitude: 3 Absolute magnitude: -0.97 Constellation: Grus

177.  $\delta$  Persei Section 2  $RA \quad 3h\,44'\,15''$ Decl.  $47^{\circ} 50' 4''$ 

Apparent magnitude: 3.01 Absolute magnitude: -3.04 Constellation: Perseus

178. Phurad Section 3 RA 6h 21' 1.4" Decl.  $-30^{\circ} 4' 2''$ 

Apparent magnitude: 3.02 Absolute magnitude: -2.05 Constellation: Canis Major

179.  $o^2$  Canis Majoris Section 3 RA 7h 3' 1.47211" Decl.  $-23^{\circ} 49' 59.8523''$ Apparent magnitude: 3.02 Absolute magnitude: -6.46 Constellation: Canis Major

180. Minkar Section 5 RA 12h 11' 4.7''Decl.  $-22^{\circ} 43' 2''$ Apparent magnitude: 3.02

Absolute magnitude: -1.82 Constellation: Corvus

181. Almaaz Section 3  $RA \quad 5h\,3'\,18''$ Decl.  $43^{\circ} 50' 5''$ 

Apparent magnitude: 3.03 Absolute magnitude: -5.95 Constellation: Auriga

182.  $\beta$  Muscæ Section 5 RA  $12h\,47'\,26.1''$ Decl.  $-68^{\circ} 12' 32''$ Apparent magnitude: 3.04 Absolute magnitude: -1.86 Constellation: Musca

183. Seginus Section 6 RA 14h 32' 49.3" Decl.  $38^{\circ} 13' 4''$ Apparent magnitude: 3.04 Absolute magnitude: 0.96 Constellation: Boötes

184. Dabih Section 8 RA  $20h\,22'\,2.9''$ Decl.  $-14^{\circ} 43' 1''$ Apparent magnitude: 3.05 Absolute magnitude: -2.07 Constellation: Capricornus 185. Mebsuta Section 3 RA 6h 45' 4.2''Decl.  $25^{\circ} 6' 4''$ 

Apparent magnitude: 3.06 Absolute magnitude: -4.15 Constellation: Gemini

186. Tania Australis Section 4 RA 10h 23' 25.5" Decl.  $41^{\circ} 24' 2''$ 

Apparent magnitude: 3.06 Absolute magnitude: -1.35 Constellation: Ursa Major

187. Tais Section 7 RA 19h 12' 33.3" Decl. 67° 41′ 3″

Apparent magnitude: 3.07 Absolute magnitude: 0.63 Constellation: Draco

188.  $\eta$  Sagittarii Section 7 RA 18h 18' 52.7" Decl.  $-36^{\circ} 45' 16''$ Apparent magnitude: 3.1 Absolute magnitude: -0.2 Constellation: Sagittarius

189.  $\zeta$  Hydræ Section 4 RA 8h 56' 22.2" Decl.  $5^{\circ} 52' 2''$ 

Apparent magnitude: 3.11 Absolute magnitude: -0.21 Constellation: Hydra

190.  $\nu$  Hydræ Section 5 RA 10h 50' 32.3" Decl.  $-16^{\circ} 17' 27''$ 

Apparent magnitude: 3.11 Absolute magnitude: -0.03 Constellation: Hydra

191.  $\lambda$  Centauri Section 5 RA 11h 36′ 38.6″ Decl.  $-63^{\circ} 7' 20''$ Apparent magnitude: 3.11 Absolute magnitude: -2.39

Constellation: Centaurus 192. Persian Section 8 RA 20h 38' 51.6" Decl.  $-47^{\circ} \, 13' \, 32''$ 

Apparent magnitude: 3.11 Absolute magnitude: 0.65 Constellation: Indus

193. Wazn Section 3 RA  $5h\,51'\,36.8''$  Decl.  $-35^{\circ}\,45'\,44''$ 

Apparent magnitude: 3.12 Absolute magnitude: 1.02 Constellation: Columba

194. Talita Section 4 RA 9h 0′ 28″ Decl. 47° 58′ 0″

Apparent magnitude: 3.12 Absolute magnitude: 2.29 Constellation: Ursa Major

195.  $\zeta$  Aræ Section 7 RA 17h 0' 9.4" Decl.  $-56^{\circ}$  1' 2"

Apparent magnitude: 3.12 Absolute magnitude: -3.11

Constellation: Ara

196. Sarin Section 7 RA 17h 15' 47.5" Decl. 24° 49' 0"

Apparent magnitude: 3.12 Absolute magnitude: 1.21 Constellation: Hercules

197. Ke Kwan Section 6 RA  $15h\,0'\,22.3''$  Decl.  $-42^{\circ}\,10'\,38''$ 

Apparent magnitude: 3.13 Absolute magnitude: -2.96 Constellation: Centaurus

198.  $\alpha$  Lyncis Section 4 RA 9h 22' 10.6" Decl. 34° 18' 4"

Apparent magnitude: 3.14 Absolute magnitude: -1.02

Constellation: Lynx

199. N Velorum Section 4 RA 9h 31'13.3189''Decl.  $-57^{\circ}$  2' 3.7578''Apparent magnitude: 3.16Absolute magnitude: -1.15

Constellation: Vela

200.  $\pi$  Herculis Section 7 RA 17h 15' 41.5" Decl. 36° 47' 2"

Apparent magnitude: 3.16 Absolute magnitude: -2.1 Constellation: Hercules

## Stars According to Section (RA)

# Section 1

## RA 22h 30m-1h 30m

18. Fomalhaut Section 1

RA  $22h\,57'\,39.0465''$ Decl.  $-29^{\circ}\,37'\,20.05''$ Apparent magnitude: 1.15 Absolute magnitude: 1.72 Constellation: Piscis Austrinus

51. Diphda Section 1 RA 0h 44' 31'' Decl.  $-17^{\circ} 53' 0''$ 

Apparent magnitude: 2.04 Absolute magnitude: -0.3 Constellation: Cetus

54. Alpheratz Section 1 RA 0h9' 20.9"

Decl. 29° 11′ 3″
Apparent magnit

Apparent magnitude: 2.07 Absolute magnitude: -0.3 Constellation: Andromeda

55. Mirach Section 1

RA 1h 10' 46.4''Decl.  $35^{\circ} 43' 0''$ 

Apparent magnitude: 2.07 Absolute magnitude: -1.86 Constellation: Andromeda

58. Al Dhanab Section 1

RA  $22h\,43'\,45.8''$ Decl.  $-46^{\circ}\,47'\,14''$ 

Apparent magnitude: 2.07v Absolute magnitude: 1.52 Constellation: Grus

63. Cih Section 1

RA  $0h\,57'\,50.4''$ Decl.  $60^{\circ}\,48'\,5''$ 

Apparent magnitude: 2.15v Absolute magnitude: -4.22 Constellation: Cassiopeia

71. Schedar Section 1

RA 0h 41′ 34.1″ Decl. 56° 38′ 1″

Apparent magnitude: 2.24 Absolute magnitude: -1.99 Constellation: Cassiopeia 74. Caph Section 1 RA 0h 10′ 10.6″

Decl. 59° 15′ 0″

Apparent magnitude: 2.28 Absolute magnitude: 1.17 Constellation: Cassiopeia

84. Ankaa Section 1 RA 0h 27' 11.7'' Decl.  $-42^{\circ} 12' 20''$ 

Apparent magnitude: 2.4 Absolute magnitude: 0.52 Constellation: Phoenix

87. Scheat Section 1 RA 23h 4' 40.4" Decl. 28° 11' 0"

Apparent magnitude: 2.44v Absolute magnitude: -1.49 Constellation: Pegasus

92. Markab Section 1 RA 23h 5′ 41″ Decl. 15° 18′ 1″

Apparent magnitude: 2.49 Absolute magnitude: -0.67 Constellation: Pegasus

109. Ruchbah Section 1 RA 1h 27′ 2.5″ Decl. 60° 19′ 5″

Apparent magnitude: 2.66 Absolute magnitude: 0.24 Constellation: Cassiopeia

134.  $\beta$  Hydri Section 1 RA 0h 26′ 41.9″ Decl.  $-77^{\circ}$  9′ 1″

Apparent magnitude: 2.82 Absolute magnitude: 3.45 Constellation: Hydrus

 $\begin{array}{ll} 137. \ \, \text{Algenib} \\ \text{Section 1} \\ \text{RA} \quad 0\text{h}\,14'\,11.4'' \\ \text{Decl.} \ 15^{\circ}\,17'\,1'' \end{array}$ 

Apparent magnitude: 2.83 Absolute magnitude: -2.22 Constellation: Pegasus 161. Matar Section 1 RA 22h 43′ 52.3″ Decl. 30° 19′ 0″

Apparent magnitude: 2.93 Absolute magnitude: -1.16 Constellation: Pegasus

# Section 2 RA 1h 30m-4h 30m

9. Achernar Section 2 RA 1h 38′ 24″ Decl. -57° 8′ 36″

Apparent magnitude: 0.45 Absolute magnitude: -2.77 Constellation: Eridanus

33. Mirfak Section 2 RA 3h 25′ 39.2″ Decl. 49° 55′ 3″

Apparent magnitude: 1.8 Absolute magnitude: -4.49 Constellation: Perseus

50. Hamal Section 2 RA 2h 8′ 13.2″ Decl. 23° 32′ 5″

Apparent magnitude: 2.01 Absolute magnitude: 0.48 Constellation: Aries

60. Algol Section 2 RA 3h 9' 22.8" Decl. 41° 1' 3"

Apparent magnitude: 2.09 Absolute magnitude: 0.18 Constellation: Perseus

61. Almach Section 2

RA 2h 3′ 53.9523″ Decl. 42° 19′ 47.0223″ Apparent magnitude: 2.1 Absolute magnitude: -3.08 Constellation: Andromeda

93. Menkar Section 2 RA 3h3'14.9''Decl.  $4^{\circ}9'4''$ 

Apparent magnitude: 2.54 Absolute magnitude: -1.61 Constellation: Cetus 104. Sheratan Section 2 RA 1h 55′ 40″ Decl. 20° 53′ 5″

Apparent magnitude: 2.64 Absolute magnitude: 1.33 Constellation: Aries

140.  $\zeta$  Persei Section 2 RA 3h 55' 18''

Decl. 31° 56′ 1″ Apparent magnitude: 2.84 Absolute magnitude: -4.55

Constellation: Perseus

143. Alcyone Section 2 RA 3h 48′ 35.3″ Decl. 24° 9′ 4″

Apparent magnitude: 2.85 Absolute magnitude: -2.41 Constellation: Taurus

146.  $\alpha$  Hydri Section 2 RA 1h 59′ 21.1″ Decl.  $-61^{\circ}$  28′ 49″

Apparent magnitude: 2.86 Absolute magnitude: 1.16 Constellation: Hydrus

151. Acamar Section 2 RA 2h 58′ 15.6792″ Decl. -40° 18′ 16.8457″ Apparent magnitude: 2.88 Absolute magnitude: -0.59 Constellation: Eridanus

155.  $\epsilon$  Persei Section 2 RA 3h 59′ 6.1″ Decl. 40° 3′ 4″

Apparent magnitude: 2.9 Absolute magnitude: -3.19 Constellation: Perseus

159.  $\gamma$  Persei Section 2 RA 3h 6' 8.9" Decl. 53° 34' 3"

Apparent magnitude: 2.91 Absolute magnitude: -1.57 Constellation: Perseus

165. Zaurak Section 2 RA 3h 58′ 53.6″ Decl. -13° 27′ 2″

Apparent magnitude: 2.97 Absolute magnitude: -1.19 Constellation: Eridanus 172.  $\beta$  Trianguli Section 2 RA 2h 10′ 39.1″ Decl. 35° 4′ 2″

Apparent magnitude: 3 Absolute magnitude: 0.09 Constellation: Triangulum

177.  $\delta$  Persei Section 2 RA 3h 44′ 15″ Decl. 47° 50′ 4″

Apparent magnitude: 3.01 Absolute magnitude: -3.04 Constellation: Perseus

## Section 3

## RA 4h 30m-7h 30m

1. Sirius
Section 3
RA 6h 45' 57.4"
Decl. -16° 44' 3"
Apparent magnitud

Apparent magnitude: -1.46 Absolute magnitude: 1.43 Constellation: Canis Major

2. Canopus
Section 3
RA 6h 24' 21.8"
Decl. -52° 42' 23"
Apparent magnitude: -0.73
Absolute magnitude: -5.64
Constellation: Carina

6. Capella Section 3 RA 5h 18′ 3.5″ Decl. 46° 0′ 5″ Apparent magnitude: 0.07 Absolute magnitude: -0.49 Constellation: Auriga

7. Rigel
Section 3
RA 5h 15' 25.7"
Decl. -8° 10' 5"
Apparent magnitude: 0.15v
Absolute magnitude: -6.72v
Constellation: Orion

10. Betelgeuse Section 3 RA 5h 56′ 10.4″ Decl. 7° 24′ 3″ Apparent magnitude: 0.55v Absolute magnitude: -5.04v Constellation: Orion 14. Aldebaran Section 3 RA 4h 36′ 59.1″ Decl. 16° 32′ 4″ Apparent magnitude: 0.86v Absolute magnitude: -0.64v Constellation: Taurus

22. Adhara
Section 3
RA 6h 59′ 21.2″
Decl. -28° 59′ 5″
Apparent magnitude: 1.5
Absolute magnitude: -4.1
Constellation: Canis Major

26. Bellatrix
Section 3
RA 5h 26' 7.5"
Decl. 6° 21' 5"
Apparent magnitude: 1.64
Absolute magnitude: -2.72
Constellation: Orion

27. Elnath
Section 3
RA 5h 27' 27.8"
Decl. 28° 37' 1"
Apparent magnitude: 1.66
Absolute magnitude: 1.26

Apparent magnitude: 1.66
Absolute magnitude: -1.36
Constellation: Taurus
29. Alnilam

Section 3 RA 5h37'9.2''Decl.  $-1^{\circ}11'2''$ Apparent magnitude: 1.69 Absolute magnitude: -6.38 Constellation: Orion

Section 3 RA  $5h\,41'\,41.6''$ Decl.  $-1^{\circ}\,56'\,0''$ Apparent magnitude: 1.75 Absolute magnitude: -5.25 Constellation: Orion

31. Alnitak

36. Wezen
Section 3
RA 7h 9' 8.6"
Decl. -26° 25' 2"
Apparent magnitude: 1.83
Absolute magnitude: -6.87
Constellation: Canis Major

41. Menkalinan Section 3 RA 6h 0' 53.2" Decl. 44° 56' 5" Apparent magnitude: 1.9

Absolute magnitude: -0.1 Constellation: Auriga 43. Alhena Section 3 RA 6h38'46.8" Decl. 16°22'5"

Apparent magnitude: 1.93 Absolute magnitude: -0.6 Constellation: Gemini

46. Mirzam Section 3 RA 6h 23' 30.9'' Decl.  $-17^{\circ} 57' 5''$ 

Apparent magnitude: 1.98 Absolute magnitude: -3.95 Constellation: Canis Major

56. Saiph Section 3 RA 5h 48′ 38.1″ Decl. -9° 39′ 5″

Apparent magnitude: 2.07 Absolute magnitude: -4.65 Constellation: Orion

73. Mintaka Section 3 RA  $5h\,32'\,57.2''$  Decl.  $0^{\circ}\,17'\,1''$ 

Apparent magnitude: 2.25 Absolute magnitude: -4.99 Constellation: Orion

88. Aludra Section 3 RA 7h 24' 49.6''Decl.  $-29^{\circ} 20' 2''$ 

Apparent magnitude: 2.45 Absolute magnitude: -7.51 Constellation: Canis Major

98. Arneb Section 3 RA 5h 33′ 32.8″ Decl. -17° 48′ 3″

Apparent magnitude: 2.58 Absolute magnitude: -5.4 Constellation: Lepus

106. Phact Section 3

 $\begin{array}{ll} {\rm RA} & 5{\rm h}\,40'\,19.2'' \\ {\rm Decl.} & -34^{\circ}\,3'\,55'' \end{array}$ 

Apparent magnitude: 2.65 Absolute magnitude: -1.93 Constellation: Columba

107.  $\theta$  Aurigæ Section 3 RA 6h 0′ 59″ Decl. 37° 12′ 4″

Apparent magnitude: 2.65 Absolute magnitude: -0.98 Constellation: Auriga 112. Hassaleh Section 3 RA 4h 58' 12.1'' Decl.  $33^{\circ} 11' 3''$ 

Apparent magnitude: 2.69 Absolute magnitude: -3.29 Constellation: Auriga

116.  $\pi$  Puppis Section 3 RA 7h 17' 47.8" Decl.  $-37^{\circ}$  7' 54"

Apparent magnitude: 2.71 Absolute magnitude: -4.92 Constellation: Puppis

123. Hatysa Section 3 RA 5h 36' 20.3'' Decl.  $-5^{\circ} 53' 5''$ 

Apparent magnitude: 2.75 Absolute magnitude: -5.3 Constellation: Orion

126. Kursa Section 3 RA 5h 8' 45.6'' Decl.  $-5^{\circ} 3' 5''$ 

Apparent magnitude: 2.78 Absolute magnitude: 0.6 Constellation: Eridanus

132. Nihal
Section 3
RA 5h 29' 2.3"
Decl. -20° 44' 4"
Apparent magnitude: 2.81
Absolute magnitude: -0.63
Constellation: Lepus

148. Tejat Section 3 RA 6h 24′ 4.8″ Decl. 22° 30′ 0″

Apparent magnitude: 2.87v Absolute magnitude: -1.39v Constellation: Gemini

153. Gomeisa Section 3 RA 7h 28′ 9.2″ Decl. 8° 15′ 0″ Apparent magnitude: 2.89 Absolute magnitude: -0.7

Constellation: Canis Minor

162.  $\tau$  Puppis Section 3 RA 6h 50′ 23.7″ Decl.  $-50^{\circ}$  38′ 14″

Apparent magnitude: 2.94 Absolute magnitude: -0.8 Constellation: Puppis 166. Alheka Section 3 RA 5h 38' 45.1" Decl. 21° 9' 0"

Apparent magnitude: 2.97 Absolute magnitude: -2.56 Constellation: Taurus

178. Phurad Section 3 RA 6h 21' 1.4" Decl. -30° 4' 2"

Apparent magnitude: 3.02 Absolute magnitude: -2.05 Constellation: Canis Major

179.  $o^2$  Canis Majoris Section 3 RA 7h 3' 1.47211" Decl.  $-23^{\circ}$  49' 59.8523" Apparent magnitude: 3.02 Absolute magnitude: -6.46 Constellation: Canis Major

181. Almaaz Section 3 RA 5h 3′ 18″ Decl. 43° 50′ 5″

Apparent magnitude: 3.03 Absolute magnitude: -5.95 Constellation: Auriga

185. Mebsuta Section 3 RA 6h 45′ 4.2″ Decl. 25° 6′ 4″

Apparent magnitude: 3.06 Absolute magnitude: -4.15 Constellation: Gemini

193. Wazn
Section 3
RA 5h 51′ 36.8″
Decl. -35° 45′ 44″
Apparent magnitude: 3.12

Absolute magnitude: 1.02 Constellation: Columba

# Section 4 RA 7h 30m-10h 30m

8. Procyon Section 4 RA 7h 40′ 16.3″ Decl. 5° 10′ 3″

Apparent magnitude: 0.36 Absolute magnitude: 2.64 Constellation: Canis Minor 17. Pollux Section 4 RA  $^{7}$ h 46′ 26.7″ Decl. 27° 58′ 4″

Apparent magnitude: 1.14 Absolute magnitude: 1.07 Constellation: Gemini

21. Regulus Section 4 RA 10h 9′ 21.3″ Decl. 11° 52′ 3″

Apparent magnitude: 1.36 Absolute magnitude: -0.52

Constellation: Leo

23. Castor Section 4 RA 7h 34'

RA 7h 34′ 35.863″ Decl. 31° 53′ 17.79″

Apparent magnitude: 1.58 Absolute magnitude: 0.59 Constellation: Gemini

28. Miaplacidus Section 4 RA 9h 13' 23.7" Decl.  $-69^{\circ}$  47' 37"

Apparent magnitude: 1.67 Absolute magnitude: -0.99 Constellation: Carina

35. Regor Section 4

RA  $8h\,9'\,31.9501''$ Decl.  $-47^{\circ}\,20'\,11.7108''$ Apparent magnitude: 1.81Absolute magnitude: -5.25

Constellation: Vela

40. Avior Section 4 RA 8h 22′ 53.5″ Decl. -59° 34′ 10″ Apparent magnitude: 1.87 Absolute magnitude: -4.57 Constellation: Carina

45. Koo She Section 4 RA 8h 45' 12.9''Decl.  $-54^{\circ} 46' 38''$ Apparent magnitude: 1.95 Absolute magnitude: 0.01 Constellation: Vela

47. Alphard
Section 4
RA 9h 28′ 29.8″
Decl. -8° 44′ 2″
Apparent magnitude: 1.98
Absolute magnitude: -1.7
Constellation: Hydra

49. Algieba Section 4

RA  $10h\,19'\,58.3506''$ Decl.  $19^{\circ}\,50'\,29.3468''$ Apparent magnitude: 2Absolute magnitude: -0.93

Constellation: Leo

65. Naos Section 4 RA 8h 4' 14.1" Decl.  $-40^{\circ}$  3' 22"

Apparent magnitude: 2.21 Absolute magnitude: -5.95

Constellation: Puppis

66. Aspidiske Section 4 RA 9h17'35.1" Decl. -59°21'12"

Apparent magnitude: 2.21v Absolute magnitude: -4.42

Constellation: Carina

68. Suhail Section 4 RA 9h 8′ 40.7″ Decl. -43° 30′ 29″

Apparent magnitude: 2.23 Absolute magnitude: -3.99

Constellation: Vela

90. Markeb Section 4 RA 9h 22′ 41.2″ Decl. -55° 5′ 25″

Apparent magnitude: 2.47 Absolute magnitude: -3.62

Constellation: Vela

138. Turais Section 4 RA 8h 8' 19.9'' Decl.  $-24^{\circ} 21' 3''$ 

Apparent magnitude: 2.83 Absolute magnitude: 1.41 Constellation: Puppis

160. v Carinæ
Section 4
RA 9h 47′ 33.8″
Decl. -65° 9′ 29″
Apparent magnitude: 2.92

Absolute magnitude: -5.56 Constellation: Carina

167. Ras Elased Australis Section 4 RA 9h 46' 53.9'' Decl.  $23^{\circ} 41' 1''$ 

Apparent magnitude: 2.97 Absolute magnitude: -1.46

Constellation: Leo

186. Tania Australis Section 4 RA 10h 23' 25.5'' Decl.  $41^{\circ} 24' 2''$ 

Apparent magnitude: 3.06 Absolute magnitude: -1.35 Constellation: Ursa Major

189.  $\zeta$  Hydræ Section 4 RA 8h 56′ 22.2″ Decl. 5° 52′ 2″

Apparent magnitude: 3.11 Absolute magnitude: -0.21 Constellation: Hydra

194. Talita Section 4 RA 9h 0′ 28″ Decl. 47° 58′ 0″

Apparent magnitude: 3.12 Absolute magnitude: 2.29 Constellation: Ursa Major

198.  $\alpha$  Lyncis Section 4 RA 9h 22' 10.6" Decl. 34° 18' 4"

Apparent magnitude: 3.14 Absolute magnitude: -1.02

Constellation: Lynx

199. N Velorum
Section 4
RA 9h 31′ 13.3189″
Decl. -57° 2′ 3.7578″
Apparent magnitude: 3.16
Absolute magnitude: -1.15
Constellation: Vela

# Section 5

RA 10h 30m-13h 30m 16. Spica

Section 5 RA 13h 26' 10.2" Decl. -11° 15' 2"

Apparent magnitude: 0.97 Absolute magnitude: -3.56 Constellation: Virgo

20. Mimosa
Section 5
RA 12h 48' 48.9"
Decl. -59° 47' 22"
Apparent magnitude: 1.26
Absolute magnitude: -3.91
Constellation: Crux

25. Gacrux Section 5 RA  $12h \, 32' \, 12.2''$ Decl.  $-57^{\circ} 13' 0''$ 

Apparent magnitude: 1.63 Absolute magnitude: -0.52

Constellation: Crux

32. Alioth Section 5

RA  $12h \, 54' \, 50.3''$ Decl.  $55^{\circ} 51' 3''$ 

Apparent magnitude: 1.77 Absolute magnitude: -0.2 Constellation: Ursa Major

34. Dubhe Section 5

 $RA \quad 11h\,4'\,51.2''$ Decl.  $61^{\circ} 39' 0''$ 

Apparent magnitude: 1.8 Absolute magnitude: -1.09 Constellation: Ursa Major

62. Denebola Section 5

RA  $11h\,50'\,0.1''$ Decl.  $14^{\circ} 28' 0''$ 

Apparent magnitude: 2.14 Absolute magnitude: 1.92

Constellation: Leo

64. Muhlifain Section 5

RA 12h 42' 32.8" Decl.  $-49^{\circ} 3' 40''$ 

Apparent magnitude: 2.2 Absolute magnitude: -0.81 Constellation: Centaurus

69. Mizar Section 5

RA 13h 24' 40.1" Decl.  $54^{\circ} 49' 4''$ 

Apparent magnitude: 2.23 Absolute magnitude: 0.33 Constellation: Ursa Major

80. Merak Section 5

RA 11h 2' 56.8''Decl.  $56^{\circ} 16' 5''$ 

Apparent magnitude: 2.34 Absolute magnitude: 0.41 Constellation: Ursa Major

85. Phecda Section 5

RA 11h 54' 47.8" Decl.  $53^{\circ} 35' 3''$ 

Apparent magnitude: 2.41 Absolute magnitude: 0.36 Constellation: Ursa Major 96. Zosma Section 5

 $RA \quad 11h\,15^\prime\,5.4^{\prime\prime}$ Decl.  $20^{\circ} 25' 1''$ 

Apparent magnitude: 2.56 Absolute magnitude: 1.32

Constellation: Leo

99.  $\delta$  Centauri Section 5

RA 12h 9' 19.5''Decl.  $-50^{\circ} 49' 31''$ 

Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus

100. Gienah Ghurab

Section 5

RA 12h 16' 45.6" Decl.  $-17^{\circ} 38' 4''$ 

Apparent magnitude: 2.58 Absolute magnitude: -0.94 Constellation: Corvus

108. Kraz Section 5

 $RA \quad 12h\,35^\prime\,21.7^{\prime\prime}$ Decl.  $-23^{\circ} 29' 5''$ 

Apparent magnitude: 2.65 Absolute magnitude: -0.51 Constellation: Corvus

113.  $\mu$  Velorum Section 5

RA  $10h\,47'\,34.2''$ Decl.  $-49^{\circ} 31' 6''$ 

Apparent magnitude: 2.69 Absolute magnitude: -0.06 Constellation: Vela

114.  $\alpha$  Muscæ

Section 5

RA 12h 38' 18.4" Decl.  $-69^{\circ} 14' 14''$ 

Apparent magnitude: 2.69 Absolute magnitude: -2.17 Constellation: Musca

121.  $\theta$  Carinæ Section 5

RA 10h 43' 37.3" Decl.  $-64^{\circ} 29' 30''$ 

Apparent magnitude: 2.74 Absolute magnitude: -2.91 Constellation: Carina

122. Porrima Section 5

RA 12h 41' 39.6434" Decl.  $-1^{\circ} 26' 57.7421''$ Apparent magnitude: 2.74 Absolute magnitude: 2.38 Constellation: Virgo

124.  $\iota$  Centauri Section 5

RA 13h 21' 38.6" Decl.  $-36^{\circ} 48' 34''$ 

Apparent magnitude: 2.75 Absolute magnitude: 1.48 Constellation: Centaurus

128.  $\delta$  Crucis Section 5

RA 12h 16' 8.3" Decl.  $-58^{\circ} 51' 6''$ 

Apparent magnitude: 2.79 Absolute magnitude: -2.45 Constellation: Crux

130. Cor Caroli 2

Section 5

RA 12h 56' 1.66622" Decl.  $38^{\circ} 19' 6.1541''$ 

Apparent magnitude: 2.98v Absolute magnitude: 0.16 Constellation: Canes Venatici

144. Vindemiatrix

Section 5

RA 13h 3′ 5.9″ Decl.  $10^{\circ} 51' 3''$ 

Apparent magnitude: 2.85 Absolute magnitude: 0.37 Constellation: Virgo

163. Algorel Section 5

RA 12h 30' 49.4''Decl.  $-16^{\circ} \, 37' \, 0''$ 

Apparent magnitude: 2.94 Absolute magnitude: 0.79 Constellation: Corvus

169.  $\gamma$  Hydræ Section 5

RA 13h 19' 55.9" Decl.  $-23^{\circ} 16' 0''$ 

Apparent magnitude: 2.99 Absolute magnitude: -0.05 Constellation: Hydra

173.  $\psi$  Ursae Majoris

Section 5

RA 11h 10' 41.8" Decl.  $44^{\circ} 23' 5''$ 

Apparent magnitude: 3 Absolute magnitude: -0.27 Constellation: Ursa Major

180. Minkar Section 5

RA  $12h \, 11' \, 4.7''$ Decl.  $-22^{\circ} 43' 2''$ 

Apparent magnitude: 3.02 Absolute magnitude: -1.82 Constellation: Corvus

182.  $\beta$  Muscæ Section 5

 $RA - 12h\,47'\,26.1''$ Decl.  $-68^{\circ} 12' 32''$ 

Apparent magnitude: 3.04 Absolute magnitude: -1.86 Constellation: Musca

190.  $\nu$  Hydræ Section 5

RA 10h 50' 32.3" Decl.  $-16^{\circ} 17' 27''$ 

Apparent magnitude: 3.11 Absolute magnitude: -0.03 Constellation: Hydra

191.  $\lambda$  Centauri Section 5

 $RA - 11h\,36'\,38.6''$ Decl.  $-63^{\circ} 7' 20''$ 

Apparent magnitude: 3.11 Absolute magnitude: -2.39 Constellation: Centaurus

## Section 6

## RA 13h 30m-16h 30m

3.  $\alpha$  Centauri Section 6 RA 14h 39' 35.0631" Decl.  $-60^{\circ} 50' 15.0992''$ Apparent magnitude: -0.29 Absolute magnitude: 4.06 Constellation: Centaurus

4. Arcturus Section 6 RA  $14h\,16'\,30.3''$ Decl.  $19^{\circ} 5' 1''$ 

Apparent magnitude: -0.05 Absolute magnitude: -0.31 Constellation: Boötes

11. Hadar Section 6 RA  $14h \, 5' \, 8.7''$ Decl.  $-60^{\circ} 27' 41''$ Apparent magnitude: 0.61

Absolute magnitude: -5.42 Constellation: Centaurus

38. Alkaid Section 6 RA 13h 48' 16.1" Decl. 49° 13′ 1″ Apparent magnitude: 1.86

Absolute magnitude: -0.59 Constellation: Ursa Major

53. Menkent Section 6  $RA - 14h\,7'\,46.7''$ Decl.  $-36^{\circ} 27' 3''$ 

Apparent magnitude: 2.06 Absolute magnitude: 0.7 Constellation: Centaurus

57. Kochab Section 6 RA 14h 50′ 40.2″

Decl.  $74^{\circ} 4' 4''$ Apparent magnitude: 2.07

Absolute magnitude: -0.87 Constellation: Ursa Minor

67. Alphecca Section 6 RA 15h 35′ 28.3″ Decl.  $26^{\circ} 39' 1''$ 

Apparent magnitude: 2.22 Absolute magnitude: 0.42 Constellation: Corona Borealis

75.  $\epsilon$  Centauri Section 6  $RA = 13h\,41'\,4.3''$ Decl.  $-53^{\circ} 33' 35''$ 

Apparent magnitude: 2.29 Absolute magnitude: -3.02 Constellation: Centaurus

76. Dschubba Section 6 RA 16h 1' 25.8''Decl.  $-22^{\circ} 40' 2''$ 

Apparent magnitude: 2.29 Absolute magnitude: -3.16 Constellation: Scorpius

78. Men Section 6  $RA - 14h\,43'\,10.1''$ Decl.  $-47^{\circ} 27' 59''$ 

Apparent magnitude: 2.3 Absolute magnitude: -3.83 Constellation: Lupus

79.  $\eta$  Centauri Section 6 RA 14h 36' 41.4" Decl.  $-42^{\circ} 14' 17''$ 

Apparent magnitude: 2.33v Absolute magnitude: -2.55 Constellation: Centaurus

81. Izar Section 6  $RA - 14h\,45'\,47.7''$ Decl.  $26^{\circ} 59' 4''$ 

Apparent magnitude: 2.35 Absolute magnitude: -1.69 Constellation: Boötes

95.  $\zeta$  Centauri Section 6 RA  $13h\,56'\,42.2''$ Decl.  $-47^{\circ} 22' 43''$ 

Apparent magnitude: 2.55 Absolute magnitude: -2.81 Constellation: Centaurus

102. Zubeneschamali Section 6 RA 15h 18' 0.3"

Decl.  $-9^{\circ} 27' 0''$ 

Apparent magnitude: 2.61 Absolute magnitude: -0.84 Constellation: Libra

103. Unukalhai Section 6 RA 15h 45' 10.8" Decl.  $6^{\circ} 22' 0''$ 

Apparent magnitude: 2.63 Absolute magnitude: 0.87 Constellation: Serpens

105. Zubenelgenubi Section 6 RA 14h 50′ 52.7131″ Decl.  $-16^{\circ} 2' 30.3955''$ Apparent magnitude: 2.64 Absolute magnitude: 0.77

110. Muphrid Section 6 RA 13h 55′ 33.9″ Decl.  $18^{\circ} 18' 2''$ 

Constellation: Libra

Apparent magnitude: 2.68 Absolute magnitude: 2.41 Constellation: Boötes

111. Ke Kouan Section 6 RA 14h 59' 45.1" Decl.  $-43^{\circ} 12' 26''$ 

Apparent magnitude: 2.68 Absolute magnitude: -3.35 Constellation: Lupus

119. Yed Prior Section 6 RA 16h 15′ 19″ Decl.  $-3^{\circ} 44' 2''$ 

Apparent magnitude: 2.73 Absolute magnitude: -0.86 Constellation: Ophiuchus

120. Aldhibain Section 6 RA 16h 24' 14.7" Decl. 61° 28′ 2″

Apparent magnitude: 2.73 Absolute magnitude: 0.58 Constellation: Draco

131.  $\gamma$  Lupi Section 6

RA 15h 36' 22.8" Decl. -41° 13' 39"

Apparent magnitude: 2.8 Absolute magnitude: -3.4 Constellation: Lupus

139.  $\beta$ Trianguli Australis

Section 6

RA  $15h\,56'\,47.3''$ Decl.  $-63^{\circ}\,29'\,9''$ 

Apparent magnitude: 2.83 Absolute magnitude: 2.38

Constellation: Triangulum Australe

149.  $\gamma$ Trianguli Australis

Section 6

RA  $15h\,18'\,54.582''$ Decl.  $-68^{\circ}\,40'\,46.3654''$ Apparent magnitude: 2.87Absolute magnitude: -0.87

Constellation: Triangulum Australe

154.  $\pi$  Scorpii

Section 6

RA  $15h\,59'\,58.5''$ Decl.  $-26^{\circ}\,9'\,5''$ 

Apparent magnitude: 2.89 Absolute magnitude: -2.85 Constellation: Scorpius

156. Alniyat Section 6

RA  $16h\,22'\,19''$ Decl.  $-25^{\circ}\,38'\,0''$ 

Apparent magnitude: 2.9v Absolute magnitude: -3.86v Constellation: Scorpius

174. Pherkad Major

Section 6

RA 15h 20' 42.8''Decl.  $71^{\circ} 46' 0''$ 

Apparent magnitude: 3 Absolute magnitude: -2.84 Constellation: Ursa Minor

183. Seginus Section 6

RA 14h 32′ 49.3″ Decl. 38° 13′ 4″

Apparent magnitude: 3.04 Absolute magnitude: 0.96 Constellation: Boötes

197. Ke Kwan

Section 6 RA 15h 0' 22.3''

Decl. -42° 10′ 38″

Apparent magnitude: 3.13 Absolute magnitude: -2.96 Constellation: Centaurus

## Section 7

#### RA 16h 30m-19h 30m

5. Vega Section 7

RA 18h 37′ 33.9″ Decl. 38° 48′ 0″

Apparent magnitude: 0.03 Absolute magnitude: 0.58 Constellation: Lyra

15. Antares Section 7

RA 16h 30′ 32.7″ Decl. -26° 28′ 1″

Apparent magnitude: 0.95v Absolute magnitude: -5.39v Constellation: Scorpius

24. Shaula Section 7

RA 17h 34' 52''Decl.  $-37^{\circ} 6' 5''$ 

Apparent magnitude: 1.62 Absolute magnitude: -5.05 Constellation: Scorpius

37. Kaus Australis

Section 7

RA 18h 25' 24''Decl.  $-34^{\circ} 22' 2''$ 

Apparent magnitude: 1.84 Absolute magnitude: -1.39 Constellation: Sagittarius

39. Sargas Section 7

RA 17h 38' 39''Decl.  $-43^{\circ} 0' 28''$ 

Apparent magnitude: 1.86 Absolute magnitude: -2.75 Constellation: Scorpius

42. Atria Section 7

RA 16h 48′ 39.8951″ Decl. -69° 1′ 39.7626″ Apparent magnitude: 1.92 Absolute magnitude: -3.61

Constellation: Triangulum Australe

52. Nunki

Section 7

RA  $18h\,56'\,24.7''$ Decl.  $-26^{\circ}\,16'\,2''$ 

Apparent magnitude: 2.05 Absolute magnitude: -2.14 Constellation: Sagittarius 59. Rasalhague Section 7

RA 17h 35′ 47.6″ Decl. 12° 32′ 5″

Apparent magnitude: 2.08 Absolute magnitude: 1.3 Constellation: Ophiuchus

72. Eltanin Section 7

RA 17h 57′ 2.2″ Decl. 51° 29′ 1″

Apparent magnitude: 2.24 Absolute magnitude: -1.04 Constellation: Draco

77. Wei Section 7

RA 16h 51' 21.9" Decl. -34° 19' 3"

Apparent magnitude: 2.29 Absolute magnitude: 0.78 Constellation: Scorpius

83. Girtab Section 7

RA 17h 43' 46.1" Decl. -39° 2' 16"

Apparent magnitude: 2.39 Absolute magnitude: -3.38 Constellation: Scorpius

86. Sabik Section 7

RA  $17h \, 11' \, 26.4''$ Decl.  $-15^{\circ} \, 44' \, 4''$ 

Apparent magnitude: 2.43 Absolute magnitude: 0.37 Constellation: Ophiuchus

94. Han Section 7

RA 16h 38' 10.8" Decl. -10° 36' 1"

Apparent magnitude: 2.54 Absolute magnitude: -3.2 Constellation: Ophiuchus

101. Ascella Section 7

RA 19h 3' 47.2''Decl.  $-29^{\circ} 51' 0''$ 

Apparent magnitude: 2.6 Absolute magnitude: 0.42 Constellation: Sagittarius

115. Lesath Section 7 RA 17h 32' 1.4'' Decl.  $-37^{\circ} 18' 3''$ 

Apparent magnitude: 2.7 Absolute magnitude: -3.31 Constellation: Scorpius 117. Kaus Meridionalis Section 7 RA 18h 22' 10.7''Decl.  $-29^{\circ} 49' 0''$ Apparent magnitude: 2.72

Absolute magnitude: -2.14 Constellation: Sagittarius

125. Cebalrai Section 7

RA  $17h \, 44' \, 23.2''$ Decl.  $4^{\circ} \, 33' \, 3''$ 

Apparent magnitude: 2.76 Absolute magnitude: 0.76 Constellation: Ophiuchus

127. Kornephoros Section 7 RA 16h 31' 1'' Decl.  $21^{\circ} 27' 0''$ 

Apparent magnitude: 2.78 Absolute magnitude: -0.5 Constellation: Hercules

129. Rastaban Section 7

RA 17h 30′ 51.1″ Decl. 52° 17′ 1″

Apparent magnitude: 2.79 Absolute magnitude: -2.43 Constellation: Draco

133. Rutilicus Section 7 RA  $16h\,41'\,59.1''$ Decl.  $31^{\circ}\,34'\,1''$ 

Apparent magnitude: 2.81 Absolute magnitude: 2.64 Constellation: Hercules

135.  $\tau$  Scorpii Section 7 RA 16h 37' 2.2" Decl.  $-28^{\circ}$  15' 1"

Apparent magnitude: 2.82 Absolute magnitude: -2.78 Constellation: Scorpius

136. Kaus Borealis Section 7 RA  $18h\,29'\,6.7''$  Decl.  $-25^{\circ}\,24'\,3''$ 

Apparent magnitude: 2.82 Absolute magnitude: 0.95 Constellation: Sagittarius

141.  $\beta$  Aræ Section 7

RA 17h 26' 50.5''Decl.  $-55^{\circ} 32' 43''$ 

Apparent magnitude: 2.84 Absolute magnitude: -3.49

Constellation: Ara

142. Choo Section 7

RA 17h 33' 16.4" Decl. -49° 53' 20"

Apparent magnitude: 2.84 Absolute magnitude: -1.51

Constellation: Ara

Section 7

RA  $19h \, 10' \, 51.8''$ Decl.  $-20^{\circ} \, 59' \, 3''$ 

152. Albaldah

Apparent magnitude: 2.88 Absolute magnitude: -2.77 Constellation: Sagittarius

168. AlnaslSection 7RA 18h 6' 59.8"

Decl. -30° 25′ 2″

Apparent magnitude: 2.98 Absolute magnitude: 0.63 Constellation: Sagittarius

170.  $\iota^1$  Scorpii Section 7 RA 17h 48' 52.8" Decl.  $-40^{\circ}$  7' 56"

Apparent magnitude: 2.99 Absolute magnitude: -5.71 Constellation: Scorpius

171. Deneb el Okab Section 7 RA 19h 6′ 15.6″ Decl. 13° 53′ 3″

Apparent magnitude: 2.99 Absolute magnitude: 0.96 Constellation: Aquila

175.  $\mu^1$  Scorpii Section 7 RA 16h 53' 7.6" Decl.  $-38^{\circ}$  4' 39" Apparent magnitude: 3 Absolute magnitude: -4.01 Constellation: Scorpius

187. Tais Section 7 RA  $19h\,12'\,33.3''$  Decl.  $67^{\circ}\,41'\,3''$ 

Apparent magnitude: 3.07 Absolute magnitude: 0.63 Constellation: Draco

188.  $\eta$  Sagittarii Section 7 RA 18h 18' 52.7" Decl.  $-36^{\circ}$  45' 16" Apparent magnitu

Apparent magnitude: 3.1 Absolute magnitude: -0.2 Constellation: Sagittarius 195.  $\zeta$  Aræ Section 7 RA 17h 0' 9.4" Decl.  $-56^{\circ}$  1' 2"

Apparent magnitude: 3.12 Absolute magnitude: -3.11

Constellation: Ara

196. Sarin Section 7 RA 17h 15' 47.5" Decl. 24° 49' 0"

Apparent magnitude: 3.12 Absolute magnitude: 1.21 Constellation: Hercules

200.  $\pi$  Herculis Section 7 RA 17h 15' 41.5" Decl. 36° 47' 2"

Apparent magnitude: 3.16 Absolute magnitude: -2.1 Constellation: Hercules

# Section 8 RA 19h 30m-22h 30m

12. Altair
Section 8
RA 19h 51' 41.1"
Decl. 8° 55' 0"
Apparent magnitude: 0.77
Absolute magnitude: 2.21

Constellation: Aquila

19. Deneb Section 8 RA 20h 42′ 3.8″ Decl. 45° 20′ 5″ Apparent magnitude: 1.24 Absolute magnitude: -8.74 Constellation: Cygnus

30. Alnair
Section 8
RA 22h 9' 23.4"
Decl. -46° 52' 14"
Apparent magnitude: 1.74
Absolute magnitude: -0.72
Constellation: Grus

44. Peacock
Section 8
RA 20h 27' 6"
Decl. -56° 40′ 27"
Apparent magnitude: 1.93
Absolute magnitude: -1.82
Constellation: Pavo

70. Sadr Section 8

RA  $20h\ 22'\ 53.6''$ Decl.  $40^{\circ}\ 19'\ 0''$ 

Apparent magnitude: 2.23 Absolute magnitude: -6.12 Constellation: Cygnus

82. Enif Section 8

RA  $21h\,45'\,5.7''$ Decl.  $9^{\circ}\,57'\,3''$ 

Apparent magnitude: 2.38 Absolute magnitude: -4.19 Constellation: Pegasus

89. Alderamin Section 8

RA 21h 19' 1.2''Decl.  $62^{\circ} 39' 5''$ 

Apparent magnitude: 2.45 Absolute magnitude: 1.58 Constellation: Cepheus

91. Gienah Section 8

RA  $20h\,46'\,57.6''$ Decl.  $34^{\circ}\,2'\,2''$ 

Apparent magnitude: 2.48 Absolute magnitude: 0.76 Constellation: Cygnus  $\begin{array}{c} 118. \ {\rm Tarazed} \\ {\rm Section} \ 8 \end{array}$ 

RA  $19h\,47'\,8.3''$ Decl.  $10^{\circ}\,39'\,3''$ 

Apparent magnitude: 2.72 Absolute magnitude: -3.03 Constellation: Aquila

145. Deneb Algedi

Section 8

RA 21h 48′ 3.6″ Decl. -16° 2′ 3″

Apparent magnitude: 2.85 Absolute magnitude: 2.49 Constellation: Capricornus

147.  $\delta$ Cygni Section 8

RA  $19h\,45'\,33.2''$ Decl.  $45^{\circ}\,10'\,3''$ 

Apparent magnitude: 2.86 Absolute magnitude: -0.74 Constellation: Cygnus

150.  $\alpha$  Tucanæ Section 8

RA 22h 19' 45.2''Decl.  $-60^{\circ} 10' 0''$ 

Apparent magnitude: 2.87 Absolute magnitude: -1.05 Constellation: Tucana

157. Albireo Section 8

RA  $19h\,31'\,28.1''$ Decl.  $27^{\circ}\,59'\,5''$ 

Apparent magnitude: 2.9 Absolute magnitude: -2.31 Constellation: Cygnus 158. Sadalsuud Section 8

RA 21h 32' 31.9''Decl.  $-5^{\circ} 29' 2''$ 

Apparent magnitude: 2.9 Absolute magnitude: -3.47 Constellation: Aquarius

164. Sadalmelik Section 8 RA 22h 6′ 44″ Decl. 0° 13′ 4″

Apparent magnitude: 2.95 Absolute magnitude: -3.88 Constellation: Aquarius

176.  $\gamma$  Gruis Section 8

RA  $21h\,55'\,2.6''$ Decl.  $-37^{\circ}\,16'\,37''$ Apparent magnitude: 3Absolute magnitude: -0.97Constellation: Grus

184. Dabih Section 8

RA 20h 22′ 2.9″ Decl. -14° 43′ 1″

Apparent magnitude: 3.05 Absolute magnitude: -2.07 Constellation: Capricornus

192. Persian Section 8

 $\begin{array}{ll} {\rm RA} & 20 {\rm h}\, 38'\, 51.6'' \\ {\rm Decl.} & -47^{\circ}\, 13'\, 32'' \end{array}$ 

Apparent magnitude: 3.11 Absolute magnitude: 0.65 Constellation: Indus

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