

Celestial Sphere Models—Star Data

This document is part of GNU 3DLDF, a package for three-dimensional drawing.

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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 magnitude. A “v” following the apparent or absolute magnitude of a star (or system of stars) means that this value varies.

Greek Alphabet

α	alpha	ι	iota	ρ, ϱ	rho
β	beta	κ	kappa	σ, ς	sigma
γ	gamma	λ	lambda	τ	tau
δ	delta	μ	mu	υ	upsilon
ϵ, ε	epsilon	ν	nu	ϕ, φ	phi
ζ	zeta	ξ	xi	χ	chi
η	eta	\omicron	omicron	ψ	psi
θ, ϑ	theta	π, ϖ	pi	ω	omega

Stars Sorted Alphabetically

151. Acamar
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. $-57^{\circ} 8' 36''$
Apparent magnitude: 0.45
Absolute magnitude: -2.77
Constellation: Eridanus

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

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. $27^{\circ} 59' 5''$
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. $16^{\circ} 32' 4''$
Apparent magnitude: 0.86v
Absolute magnitude: -0.64v
Constellation: Taurus

89. Alderamin
Section 8
RA 21h 19' 1.2"
Decl. $62^{\circ} 39' 5''$
Apparent magnitude: 2.45
Absolute magnitude: 1.58
Constellation: Cepheus

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

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. $15^{\circ} 17' 1''$
Apparent magnitude: 2.83
Absolute magnitude: -2.22
Constellation: Pegasus

49. Algieba
Section 4
RA 10h 19' 58.3506"
Decl. $19^{\circ} 50' 29.3468''$
Apparent magnitude: 2
Absolute magnitude: -0.93
Constellation: Leo

60. Algol
Section 2
RA 3h 9' 22.8"
Decl. $41^{\circ} 1' 3''$
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. $21^{\circ} 9' 0''$
Apparent magnitude: 2.97
Absolute magnitude: -2.56
Constellation: Taurus

43. Alhena
Section 3
RA 6h 38' 46.8"
Decl. $16^{\circ} 22' 5''$
Apparent magnitude: 1.93
Absolute magnitude: -0.6
Constellation: Gemini

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

38. Alkaid
Section 6
RA 13h 48' 16.1"
Decl. $49^{\circ} 13' 1''$
Apparent magnitude: 1.86
Absolute magnitude: -0.59
Constellation: Ursa Major

181. Almaaz
Section 3
RA 5h 3' 18"
Decl. $43^{\circ} 50' 5''$
Apparent magnitude: 3.03
Absolute magnitude: -5.95
Constellation: Auriga

61. Almach
Section 2
RA 2h 3' 53.9523"
Decl. $42^{\circ} 19' 47.0223''$
Apparent magnitude: 2.1
Absolute magnitude: -3.08
Constellation: Andromeda

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

168. Alnasl
Section 7
RA 18h 6' 59.8"
Decl. $-30^{\circ} 25' 2''$
Apparent magnitude: 2.98
Absolute magnitude: 0.63
Constellation: Sagittarius

29. Alnilam
Section 3
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. $-25^{\circ} 38' 0''$
Apparent magnitude: 2.9v
Absolute magnitude: -3.86v
Constellation: Scorpius

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

146. α Hydri
Section 2
RA 1h 59' 21.1"
Decl. $-61^{\circ} 28' 49''$
Apparent magnitude: 2.86
Absolute magnitude: 1.16
Constellation: Hydrus

198. α Lyncis
Section 4
RA 9h 22' 10.6"
Decl. $34^{\circ} 18' 4''$
Apparent magnitude: 3.14
Absolute magnitude: -1.02
Constellation: Lynx

114. α Muscæ
Section 5
RA 12h 38' 18.4"
Decl. $-69^{\circ} 14' 14''$
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. α 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 0h 9' 20.9"
Decl. $29^{\circ} 11' 3''$
Apparent magnitude: 2.07
Absolute magnitude: -0.3
Constellation: Andromeda

12. Altair
Section 8
RA 19h 51' 41.1"
Decl. $8^{\circ} 55' 0''$
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. $-26^{\circ} 28' 1''$
Apparent magnitude: 0.95v
Absolute magnitude: -5.39v
Constellation: Scorpius

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

98. Arneb
Section 3
RA 5h 33' 32.8"
Decl. $-17^{\circ} 48' 3''$
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. $-59^{\circ} 21' 12''$
Apparent magnitude: 2.21v
Absolute magnitude: -4.42
Constellation: Carina

42. Atria
Section 7
RA 16h 48' 39.8951"
Decl. $-69^{\circ} 1' 39.7626''$
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. $6^{\circ} 21' 5''$
Apparent magnitude: 1.64
Absolute magnitude: -2.72
Constellation: Orion

141. β Aræ
Section 7
RA 17h 26' 50.5"
Decl. $-55^{\circ} 32' 43''$
Apparent magnitude: 2.84
Absolute magnitude: -3.49
Constellation: Ara

134. β Hydri Section 1 RA 0h 26' 41.9" Decl. $-77^{\circ} 9' 1''$ Apparent magnitude: 2.82 Absolute magnitude: 3.45 Constellation: Hydrus	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	147. δ Cygni Section 8 RA 19h 45' 33.2" Decl. $45^{\circ} 10' 3''$ Apparent magnitude: 2.86 Absolute magnitude: -0.74 Constellation: Cygnus
182. β Muscae Section 5 RA 12h 47' 26.1" Decl. $-68^{\circ} 12' 32''$ Apparent magnitude: 3.04 Absolute magnitude: -1.86 Constellation: Musca	125. Cebalrai Section 7 RA 17h 44' 23.2" Decl. $4^{\circ} 33' 3''$ Apparent magnitude: 2.76 Absolute magnitude: 0.76 Constellation: Ophiuchus	177. δ Persei Section 2 RA 3h 44' 15" Decl. $47^{\circ} 50' 4''$ Apparent magnitude: 3.01 Absolute magnitude: -3.04 Constellation: Perseus
139. β 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	142. Choo Section 7 RA 17h 33' 16.4" Decl. $-49^{\circ} 53' 20''$ Apparent magnitude: 2.84 Absolute magnitude: -1.51 Constellation: Ara	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
172. β Trianguli Section 2 RA 2h 10' 39.1" Decl. $35^{\circ} 4' 2''$ Apparent magnitude: 3 Absolute magnitude: 0.09 Constellation: Triangulum	63. Cih Section 1 RA 0h 57' 50.4" Decl. $60^{\circ} 48' 5''$ Apparent magnitude: 2.15v Absolute magnitude: -4.22 Constellation: Cassiopeia	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
10. Betelgeuse Section 3 RA 5h 56' 10.4" Decl. $7^{\circ} 24' 3''$ Apparent magnitude: 0.55v Absolute magnitude: -5.04v Constellation: Orion	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	62. Denebola Section 5 RA 11h 50' 0.1" Decl. $14^{\circ} 28' 0''$ Apparent magnitude: 2.14 Absolute magnitude: 1.92 Constellation: Leo
2. Canopus Section 3 RA 6h 24' 21.8" Decl. $-52^{\circ} 42' 23''$ Apparent magnitude: -0.73 Absolute magnitude: -5.64 Constellation: Carina	184. Dabih Section 8 RA 20h 22' 2.9" Decl. $-14^{\circ} 43' 1''$ Apparent magnitude: 3.05 Absolute magnitude: -2.07 Constellation: Capricornus	19. Deneb Section 8 RA 20h 42' 3.8" Decl. $45^{\circ} 20' 5''$ Apparent magnitude: 1.24 Absolute magnitude: -8.74 Constellation: Cygnus
6. Capella Section 3 RA 5h 18' 3.5" Decl. $46^{\circ} 0' 5''$ Apparent magnitude: 0.07 Absolute magnitude: -0.49 Constellation: Auriga	99. δ Centauri Section 5 RA 12h 9' 19.5" Decl. $-50^{\circ} 49' 31''$ Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus	51. Diphda Section 1 RA 0h 44' 31" Decl. $-17^{\circ} 53' 0''$ Apparent magnitude: 2.04 Absolute magnitude: -0.3 Constellation: Cetus
74. Caph Section 1 RA 0h 10' 10.6" Decl. $59^{\circ} 15' 0''$ Apparent magnitude: 2.28 Absolute magnitude: 1.17 Constellation: Cassiopeia	128. δ Crucis Section 5 RA 12h 16' 8.3" Decl. $-58^{\circ} 51' 6''$ Apparent magnitude: 2.79 Absolute magnitude: -2.45 Constellation: Crux	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° 57' 3"
Apparent magnitude: 2.38
Absolute magnitude: -4.19
Constellation: Pegasus

75. ϵ Centauri
Section 6
RA 13h 41' 4.3"
Decl. -53° 33' 35"
Apparent magnitude: 2.29
Absolute magnitude: -3.02
Constellation: Centaurus

155. ϵ Persei
Section 2
RA 3h 59' 6.1"
Decl. 40° 3' 4"
Apparent magnitude: 2.9
Absolute magnitude: -3.19
Constellation: Perseus

79. η Centauri
Section 6
RA 14h 36' 41.4"
Decl. -42° 14' 17"
Apparent magnitude: 2.33v
Absolute magnitude: -2.55
Constellation: Centaurus

188. η Sagittarii
Section 7
RA 18h 18' 52.7"
Decl. -36° 45' 16"
Apparent magnitude: 3.1
Absolute magnitude: -0.2
Constellation: Sagittarius

18. Fomalhaut
Section 1
RA 22h 57' 39.0465"
Decl. -29° 37' 20.05"
Apparent magnitude: 1.15
Absolute magnitude: 1.72
Constellation: Piscis Austrinus

25. Gacrux
Section 5
RA 12h 32' 12.2"
Decl. -57° 13' 0"
Apparent magnitude: 1.63
Absolute magnitude: -0.52
Constellation: Crux

176. γ Gruis
Section 8
RA 21h 55' 2.6"
Decl. -37° 16' 37"
Apparent magnitude: 3
Absolute magnitude: -0.97
Constellation: Grus

169. γ Hydræ
Section 5
RA 13h 19' 55.9"
Decl. -23° 16' 0"
Apparent magnitude: 2.99
Absolute magnitude: -0.05
Constellation: Hydra

131. γ Lupi
Section 6
RA 15h 36' 22.8"
Decl. -41° 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. γ Trianguli Australis
Section 6
RA 15h 18' 54.582"
Decl. -68° 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° 2' 2"
Apparent magnitude: 2.48
Absolute magnitude: 0.76
Constellation: Cygnus

83. Girtab
Section 7
RA 17h 43' 46.1"
Decl. -39° 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° 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° 36' 1"
Apparent magnitude: 2.54
Absolute magnitude: -3.2
Constellation: Ophiuchus

112. Hassaleh
Section 3
RA 4h 58' 12.1"
Decl. 33° 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. ι^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. ι Centauri
 Section 5
 RA 13h 21' 38.6"
 Decl. $-36^\circ 48' 34''$
 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
 RA 18h 29' 6.7"
 Decl. $-25^\circ 24' 3''$
 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
 RA 14h 59' 45.1"
 Decl. $-43^\circ 12' 26''$
 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. $-54^\circ 46' 38''$
 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. $-5^\circ 3' 5''$
 Apparent magnitude: 2.78
 Absolute magnitude: 0.6
 Constellation: Eridanus

191. λ 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. $15^\circ 18' 1''$
 Apparent magnitude: 2.49
 Absolute magnitude: -0.67
 Constellation: Pegasus

90. Markeb
 Section 4
 RA 9h 22' 41.2"
 Decl. $-55^\circ 5' 25''$
 Apparent magnitude: 2.47
 Absolute magnitude: -3.62
 Constellation: Vela

161. Matar
 Section 1
 RA 22h 43' 52.3"
 Decl. $30^\circ 19' 0''$
 Apparent magnitude: 2.93
 Absolute magnitude: -1.16
 Constellation: Pegasus

185. Mebsuta
 Section 3
 RA 6h 45' 4.2"
 Decl. $25^\circ 6' 4''$
 Apparent magnitude: 3.06
 Absolute magnitude: -4.15
 Constellation: Gemini

41. Menkalinan
 Section 3
 RA 6h 0' 53.2"
 Decl. $44^\circ 56' 5''$
 Apparent magnitude: 1.9
 Absolute magnitude: -0.1
 Constellation: Auriga

93. Menkar
 Section 2
 RA 3h 3' 14.9"
 Decl. $4^\circ 9' 4''$
 Apparent magnitude: 2.54
 Absolute magnitude: -1.61
 Constellation: Cetus

53. Menkent
 Section 6
 RA 14h 7' 46.7"
 Decl. $-36^\circ 27' 3''$
 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. $56^\circ 16' 5''$
 Apparent magnitude: 2.34
 Absolute magnitude: 0.41
 Constellation: Ursa Major

28. Miaplacidus
Section 4
RA 9h 13' 23.7"
Decl. $-69^{\circ} 47' 37''$
Apparent magnitude: 1.67
Absolute magnitude: -0.99
Constellation: Carina

20. Mimosa
Section 5
RA 12h 48' 48.9"
Decl. $-59^{\circ} 47' 22''$
Apparent magnitude: 1.26
Absolute magnitude: -3.91
Constellation: Crux

180. Minkar
Section 5
RA 12h 11' 4.7"
Decl. $-22^{\circ} 43' 2''$
Apparent magnitude: 3.02
Absolute magnitude: -1.82
Constellation: Corvus

73. Mintaka
Section 3
RA 5h 32' 57.2"
Decl. $0^{\circ} 17' 1''$
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. $49^{\circ} 55' 3''$
Apparent magnitude: 1.8
Absolute magnitude: -4.49
Constellation: Perseus

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

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

175. μ^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. $-49^{\circ} 3' 40''$
Apparent magnitude: 2.2
Absolute magnitude: -0.81
Constellation: Centaurus

110. Muphrid
Section 6
RA 13h 55' 33.9"
Decl. $18^{\circ} 18' 2''$
Apparent magnitude: 2.68
Absolute magnitude: 2.41
Constellation: Boötes

113. μ Velorum
Section 5
RA 10h 47' 34.2"
Decl. $-49^{\circ} 31' 6''$
Apparent magnitude: 2.69
Absolute magnitude: -0.06
Constellation: Vela

65. Naos
Section 4
RA 8h 4' 14.1"
Decl. $-40^{\circ} 3' 22''$
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. ν 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. $-26^{\circ} 16' 2''$
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. ϕ^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. $-56^{\circ} 40' 27''$
Apparent magnitude: 1.93
Absolute magnitude: -1.82
Constellation: Pavo

192. Persian
Section 8
RA 20h 38' 51.6"
Decl. $-47^{\circ} 13' 32''$
Apparent magnitude: 3.11
Absolute magnitude: 0.65
Constellation: Indus

106. Phact
Section 3
RA 5h 40' 19.2"
Decl. $-34^{\circ} 3' 55''$
Apparent magnitude: 2.65
Absolute magnitude: -1.93
Constellation: Columba

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

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

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

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

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

116. π Puppis
 Section 3
 RA 7h 17' 47.8"
 Decl. -37° 7' 54"
 Apparent magnitude: 2.71
 Absolute magnitude: -4.92
 Constellation: Puppis

154. π Scorpii
 Section 6
 RA 15h 59' 58.5"
 Decl. -26° 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° 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 magnitude: 0.36
 Absolute magnitude: 2.64
 Constellation: Canis Minor

173. ψ 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° 20' 11.7108"
 Apparent magnitude: 1.81
 Absolute 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° 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 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° 39' 5"
 Apparent magnitude: 2.07
 Absolute magnitude: -4.65
 Constellation: Orion

39. Sargas
 Section 7
 RA 17h 38' 39"
 Decl. -43° 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° 38' 1"
Apparent magnitude: 2.24
Absolute magnitude: -1.99
Constellation: Cassiopeia

183. Seginus
Section 6
RA 14h 32' 49.3"
Decl. 38° 13' 4"
Apparent magnitude: 3.04
Absolute magnitude: 0.96
Constellation: Boötes

24. Shaula
Section 7
RA 17h 34' 52"
Decl. -37° 6' 5"
Apparent magnitude: 1.62
Absolute magnitude: -5.05
Constellation: Scorpius

104. Sheratan
Section 2
RA 1h 55' 40"
Decl. 20° 53' 5"
Apparent magnitude: 2.64
Absolute magnitude: 1.33
Constellation: Aries

1. Sirius
Section 3
RA 6h 45' 57.4"
Decl. -16° 44' 3"
Apparent magnitude: -1.46
Absolute magnitude: 1.43
Constellation: Canis Major

16. Spica
Section 5
RA 13h 26' 10.2"
Decl. -11° 15' 2"
Apparent magnitude: 0.97
Absolute magnitude: -3.56
Constellation: Virgo

68. Suhail
Section 4
RA 9h 8' 40.7"
Decl. -43° 30' 29"
Apparent magnitude: 2.23
Absolute magnitude: -3.99
Constellation: Vela

187. Tais
Section 7
RA 19h 12' 33.3"
Decl. 67° 41' 3"
Apparent magnitude: 3.07
Absolute magnitude: 0.63
Constellation: Draco

194. Talita
Section 4
RA 9h 0' 28"
Decl. 47° 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° 24' 2"
Apparent magnitude: 3.06
Absolute magnitude: -1.35
Constellation: Ursa Major

118. Tarazed
Section 8
RA 19h 47' 8.3"
Decl. 10° 39' 3"
Apparent magnitude: 2.72
Absolute magnitude: -3.03
Constellation: Aquila

162. τ Puppis
Section 3
RA 6h 50' 23.7"
Decl. -50° 38' 14"
Apparent magnitude: 2.94
Absolute magnitude: -0.8
Constellation: Puppis

135. τ Scorpii
Section 7
RA 16h 37' 2.2"
Decl. -28° 15' 1"
Apparent magnitude: 2.82
Absolute magnitude: -2.78
Constellation: Scorpius

148. Tejat
Section 3
RA 6h 24' 4.8"
Decl. 22° 30' 0"
Apparent magnitude: 2.87v
Absolute magnitude: -1.39v
Constellation: Gemini

107. θ Aurigæ
Section 3
RA 6h 0' 59"
Decl. 37° 12' 4"
Apparent magnitude: 2.65
Absolute magnitude: -0.98
Constellation: Auriga

121. θ Carinæ
Section 5
RA 10h 43' 37.3"
Decl. -64° 29' 30"
Apparent magnitude: 2.74
Absolute magnitude: -2.91
Constellation: Carina

138. Turais
Section 4
RA 8h 8' 19.9"
Decl. -24° 21' 3"
Apparent magnitude: 2.83
Absolute magnitude: 1.41
Constellation: Puppis

103. Unukalhai
Section 6
RA 15h 45' 10.8"
Decl. 6° 22' 0"
Apparent magnitude: 2.63
Absolute magnitude: 0.87
Constellation: Serpens

160. ν Carinæ
Section 4
RA 9h 47' 33.8"
Decl. -65° 9' 29"
Apparent magnitude: 2.92
Absolute magnitude: -5.56
Constellation: Carina

5. Vega
Section 7
RA 18h 37' 33.9"
Decl. 38° 48' 0"
Apparent magnitude: 0.03
Absolute magnitude: 0.58
Constellation: Lyra

144. Vindemiatrix
Section 5
RA 13h 3' 5.9"
Decl. 10° 51' 3"
Apparent magnitude: 2.85
Absolute magnitude: 0.37
Constellation: Virgo

193. Wazn
Section 3
RA 5h 51' 36.8"
Decl. -35° 45' 44"
Apparent magnitude: 3.12
Absolute magnitude: 1.02
Constellation: Columba

77. Wei
Section 7
RA 16h 51' 21.9"
Decl. -34° 19' 3"
Apparent magnitude: 2.29
Absolute magnitude: 0.78
Constellation: Scorpius

36. Wezen
Section 3
RA 7h 9' 8.6"
Decl. -26° 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
 RA 3h 58' 53.6"
 Decl. $-13^{\circ} 27' 2''$
 Apparent magnitude: 2.97
 Absolute magnitude: -1.19
 Constellation: Eridanus

195. ζ Aræ
 Section 7
 RA 17h 0' 9.4"
 Decl. $-56^{\circ} 1' 2''$
 Apparent magnitude: 3.12
 Absolute magnitude: -3.11
 Constellation: Ara

95. ζ Centauri
 Section 6
 RA 13h 56' 42.2"
 Decl. $-47^{\circ} 22' 43''$
 Apparent magnitude: 2.55
 Absolute magnitude: -2.81
 Constellation: Centaurus

189. ζ Hydræ
 Section 4
 RA 8h 56' 22.2"
 Decl. $5^{\circ} 52' 2''$
 Apparent magnitude: 3.11
 Absolute magnitude: -0.21
 Constellation: Hydra

140. ζ Persei
 Section 2
 RA 3h 55' 18"
 Decl. $31^{\circ} 56' 1''$
 Apparent magnitude: 2.84
 Absolute magnitude: -4.55
 Constellation: Perseus

96. Zosma
 Section 5
 RA 11h 15' 5.4"
 Decl. $20^{\circ} 25' 1''$
 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. Zubeneshamali
 Section 6
 RA 15h 18' 0.3"
 Decl. $-9^{\circ} 27' 0''$
 Apparent magnitude: 2.61
 Absolute magnitude: -0.84
 Constellation: Libra

Stars According to Brightness

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

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

3. α 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

5. Vega
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 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. $16^{\circ} 32' 4''$
Apparent magnitude: 0.86v
Absolute magnitude: -0.64v
Constellation: Taurus

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. $27^{\circ} 58' 4''$
Apparent magnitude: 1.14
Absolute magnitude: 1.07
Constellation: Gemini

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

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

21. Regulus
Section 4
RA 10h 9' 21.3"
Decl. $11^{\circ} 52' 3''$
Apparent magnitude: 1.36
Absolute magnitude: -0.52
Constellation: Leo

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° 6' 5"
Apparent magnitude: 1.62
Absolute magnitude: -5.05
Constellation: Scorpius

25. Gacrux
Section 5
RA 12h 32' 12.2"
Decl. -57° 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° 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° 52' 14"
Apparent magnitude: 1.74
Absolute magnitude: -0.72
Constellation: Grus

31. Alnitak
Section 3
RA 5h 41' 41.6"
Decl. -1° 56' 0"
Apparent magnitude: 1.75
Absolute magnitude: -5.25
Constellation: Orion

32. Alioth
Section 5
RA 12h 54' 50.3"
Decl. 55° 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° 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° 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° 1' 39.7626"
Apparent magnitude: 1.92
Absolute magnitude: -3.61
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 magnitude: 1.95
Absolute magnitude: 0.01
Constellation: Vela

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

47. Alphard Section 4 RA 9h 28' 29.8" Decl. $-8^{\circ} 44' 2''$ Apparent magnitude: 1.98 Absolute magnitude: -1.7 Constellation: Hydra	56. Saiph Section 3 RA 5h 48' 38.1" Decl. $-9^{\circ} 39' 5''$ Apparent magnitude: 2.07 Absolute magnitude: -4.65 Constellation: Orion	64. Muhlifain Section 5 RA 12h 42' 32.8" Decl. $-49^{\circ} 3' 40''$ Apparent magnitude: 2.2 Absolute magnitude: -0.81 Constellation: Centaurus
49. Algieba Section 4 RA 10h 19' 58.3506" Decl. $19^{\circ} 50' 29.3468''$ Apparent magnitude: 2 Absolute magnitude: -0.93 Constellation: Leo	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	65. Naos Section 4 RA 8h 4' 14.1" Decl. $-40^{\circ} 3' 22''$ Apparent magnitude: 2.21 Absolute magnitude: -5.95 Constellation: Puppis
50. Hamal Section 2 RA 2h 8' 13.2" Decl. $23^{\circ} 32' 5''$ Apparent magnitude: 2.01 Absolute magnitude: 0.48 Constellation: Aries	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	66. Aspidiske Section 4 RA 9h 17' 35.1" Decl. $-59^{\circ} 21' 12''$ Apparent magnitude: 2.21v Absolute magnitude: -4.42 Constellation: Carina
51. Diphda Section 1 RA 0h 44' 31" Decl. $-17^{\circ} 53' 0''$ Apparent magnitude: 2.04 Absolute magnitude: -0.3 Constellation: Cetus	59. Rasalhague Section 7 RA 17h 35' 47.6" Decl. $12^{\circ} 32' 5''$ Apparent magnitude: 2.08 Absolute magnitude: 1.3 Constellation: Ophiuchus	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
52. Nunki Section 7 RA 18h 56' 24.7" Decl. $-26^{\circ} 16' 2''$ Apparent magnitude: 2.05 Absolute magnitude: -2.14 Constellation: Sagittarius	60. Algol Section 2 RA 3h 9' 22.8" Decl. $41^{\circ} 1' 3''$ Apparent magnitude: 2.09 Absolute magnitude: 0.18 Constellation: Perseus	68. Suhail Section 4 RA 9h 8' 40.7" Decl. $-43^{\circ} 30' 29''$ Apparent magnitude: 2.23 Absolute magnitude: -3.99 Constellation: Vela
53. Menkent Section 6 RA 14h 7' 46.7" Decl. $-36^{\circ} 27' 3''$ Apparent magnitude: 2.06 Absolute magnitude: 0.7 Constellation: Centaurus	61. Almach Section 2 RA 2h 3' 53.9523" Decl. $42^{\circ} 19' 47.0223''$ Apparent magnitude: 2.1 Absolute magnitude: -3.08 Constellation: Andromeda	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
54. Alpheratz Section 1 RA 0h 9' 20.9" Decl. $29^{\circ} 11' 3''$ Apparent magnitude: 2.07 Absolute magnitude: -0.3 Constellation: Andromeda	62. Denebola Section 5 RA 11h 50' 0.1" Decl. $14^{\circ} 28' 0''$ Apparent magnitude: 2.14 Absolute magnitude: 1.92 Constellation: Leo	70. Sadr Section 8 RA 20h 22' 53.6" Decl. $40^{\circ} 19' 0''$ Apparent magnitude: 2.23 Absolute magnitude: -6.12 Constellation: Cygnus
55. Mirach Section 1 RA 1h 10' 46.4" Decl. $35^{\circ} 43' 0''$ Apparent magnitude: 2.07 Absolute magnitude: -1.86 Constellation: Andromeda	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. Schar Section 1 RA 0h 41' 34.1" Decl. $56^{\circ} 38' 1''$ Apparent magnitude: 2.24 Absolute magnitude: -1.99 Constellation: Cassiopeia

72. Eltanin
Section 7
RA 17h 57' 2.2"
Decl. 51° 29' 1"
Apparent magnitude: 2.24
Absolute magnitude: -1.04
Constellation: Draco

73. Mintaka
Section 3
RA 5h 32' 57.2"
Decl. 0° 17' 1"
Apparent magnitude: 2.25
Absolute magnitude: -4.99
Constellation: Orion

74. Caph
Section 1
RA 0h 10' 10.6"
Decl. 59° 15' 0"
Apparent magnitude: 2.28
Absolute magnitude: 1.17
Constellation: Cassiopeia

75. ϵ Centauri
Section 6
RA 13h 41' 4.3"
Decl. -53° 33' 35"
Apparent magnitude: 2.29
Absolute magnitude: -3.02
Constellation: Centaurus

76. Dschubba
Section 6
RA 16h 1' 25.8"
Decl. -22° 40' 2"
Apparent magnitude: 2.29
Absolute magnitude: -3.16
Constellation: Scorpius

77. Wei
Section 7
RA 16h 51' 21.9"
Decl. -34° 19' 3"
Apparent magnitude: 2.29
Absolute magnitude: 0.78
Constellation: Scorpius

78. Men
Section 6
RA 14h 43' 10.1"
Decl. -47° 27' 59"
Apparent magnitude: 2.3
Absolute magnitude: -3.83
Constellation: Lupus

79. η Centauri
Section 6
RA 14h 36' 41.4"
Decl. -42° 14' 17"
Apparent magnitude: 2.33v
Absolute magnitude: -2.55
Constellation: Centaurus

80. Merak
Section 5
RA 11h 2' 56.8"
Decl. 56° 16' 5"
Apparent magnitude: 2.34
Absolute magnitude: 0.41
Constellation: Ursa Major

81. Izar
Section 6
RA 14h 45' 47.7"
Decl. 26° 59' 4"
Apparent magnitude: 2.35
Absolute magnitude: -1.69
Constellation: Boötes

82. Enif
Section 8
RA 21h 45' 5.7"
Decl. 9° 57' 3"
Apparent magnitude: 2.38
Absolute magnitude: -4.19
Constellation: Pegasus

83. Girtab
Section 7
RA 17h 43' 46.1"
Decl. -39° 2' 16"
Apparent magnitude: 2.39
Absolute magnitude: -3.38
Constellation: Scorpius

84. Ankaa
Section 1
RA 0h 27' 11.7"
Decl. -42° 12' 20"
Apparent magnitude: 2.4
Absolute magnitude: 0.52
Constellation: Phoenix

85. Phecda
Section 5
RA 11h 54' 47.8"
Decl. 53° 35' 3"
Apparent magnitude: 2.41
Absolute magnitude: 0.36
Constellation: Ursa Major

86. Sabik
Section 7
RA 17h 11' 26.4"
Decl. -15° 44' 4"
Apparent magnitude: 2.43
Absolute magnitude: 0.37
Constellation: Ophiuchus

87. Scheat
Section 1
RA 23h 4' 40.4"
Decl. 28° 11' 0"
Apparent magnitude: 2.44v
Absolute magnitude: -1.49
Constellation: Pegasus

88. Aludra
Section 3
RA 7h 24' 49.6"
Decl. -29° 20' 2"
Apparent magnitude: 2.45
Absolute magnitude: -7.51
Constellation: Canis Major

89. Alderamin
Section 8
RA 21h 19' 1.2"
Decl. 62° 39' 5"
Apparent magnitude: 2.45
Absolute magnitude: 1.58
Constellation: Cepheus

90. Markeb
Section 4
RA 9h 22' 41.2"
Decl. -55° 5' 25"
Apparent magnitude: 2.47
Absolute magnitude: -3.62
Constellation: Vela

91. Gienah
Section 8
RA 20h 46' 57.6"
Decl. 34° 2' 2"
Apparent magnitude: 2.48
Absolute magnitude: 0.76
Constellation: Cygnus

92. Markab
Section 1
RA 23h 5' 41"
Decl. 15° 18' 1"
Apparent magnitude: 2.49
Absolute magnitude: -0.67
Constellation: Pegasus

93. Menkar
Section 2
RA 3h 3' 14.9"
Decl. 4° 9' 4"
Apparent magnitude: 2.54
Absolute magnitude: -1.61
Constellation: Cetus

94. Han
Section 7
RA 16h 38' 10.8"
Decl. -10° 36' 1"
Apparent magnitude: 2.54
Absolute magnitude: -3.2
Constellation: Ophiuchus

95. ζ Centauri
Section 6
RA 13h 56' 42.2"
Decl. -47° 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	105. Zubenelgenubi Section 6 RA 14h 50' 52.7131" Decl. -16° 2' 30.3955" Apparent magnitude: 2.64 Absolute magnitude: 0.77 Constellation: Libra	113. μ Velorum Section 5 RA 10h 47' 34.2" Decl. -49° 31' 6" Apparent magnitude: 2.69 Absolute magnitude: -0.06 Constellation: Vela
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 RA 5h 40' 19.2" Decl. -34° 3' 55" Apparent magnitude: 2.65 Absolute magnitude: -1.93 Constellation: Columba	114. α Muscae Section 5 RA 12h 38' 18.4" Decl. -69° 14' 14" Apparent magnitude: 2.69 Absolute magnitude: -2.17 Constellation: Musca
99. δ Centauri Section 5 RA 12h 9' 19.5" Decl. -50° 49' 31" Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus	107. θ Aurigae Section 3 RA 6h 0' 59" Decl. 37° 12' 4" Apparent magnitude: 2.65 Absolute magnitude: -0.98 Constellation: Auriga	115. Lesath Section 7 RA 17h 32' 1.4" Decl. -37° 18' 3" Apparent magnitude: 2.7 Absolute magnitude: -3.31 Constellation: Scorpis
100. Gienah Ghurab Section 5 RA 12h 16' 45.6" Decl. -17° 38' 4" Apparent magnitude: 2.58 Absolute magnitude: -0.94 Constellation: Corvus	108. Kraz Section 5 RA 12h 35' 21.7" Decl. -23° 29' 5" Apparent magnitude: 2.65 Absolute magnitude: -0.51 Constellation: Corvus	116. π Puppis Section 3 RA 7h 17' 47.8" Decl. -37° 7' 54" Apparent magnitude: 2.71 Absolute magnitude: -4.92 Constellation: Puppis
101. Ascella Section 7 RA 19h 3' 47.2" Decl. -29° 51' 0" Apparent magnitude: 2.6 Absolute magnitude: 0.42 Constellation: Sagittarius	109. Ruchbah Section 1 RA 1h 27' 2.5" Decl. 60° 19' 5" Apparent magnitude: 2.66 Absolute magnitude: 0.24 Constellation: Cassiopeia	117. Kaus Meridionalis Section 7 RA 18h 22' 10.7" Decl. -29° 49' 0" Apparent magnitude: 2.72 Absolute magnitude: -2.14 Constellation: Sagittarius
102. Zubeneshamali Section 6 RA 15h 18' 0.3" Decl. -9° 27' 0" Apparent magnitude: 2.61 Absolute magnitude: -0.84 Constellation: Libra	110. Muphrid Section 6 RA 13h 55' 33.9" Decl. 18° 18' 2" Apparent magnitude: 2.68 Absolute magnitude: 2.41 Constellation: Boötes	118. Tarazed Section 8 RA 19h 47' 8.3" Decl. 10° 39' 3" Apparent magnitude: 2.72 Absolute magnitude: -3.03 Constellation: Aquila
103. Unukalhai Section 6 RA 15h 45' 10.8" Decl. 6° 22' 0" Apparent magnitude: 2.63 Absolute magnitude: 0.87 Constellation: Serpens	111. Ke Kouan Section 6 RA 14h 59' 45.1" Decl. -43° 12' 26" Apparent magnitude: 2.68 Absolute magnitude: -3.35 Constellation: Lupus	119. Yed Prior Section 6 RA 16h 15' 19" Decl. -3° 44' 2" Apparent magnitude: 2.73 Absolute magnitude: -0.86 Constellation: Ophiuchus
104. Sheratan Section 2 RA 1h 55' 40" Decl. 20° 53' 5" Apparent magnitude: 2.64 Absolute magnitude: 1.33 Constellation: Aries	112. Hassaleh Section 3 RA 4h 58' 12.1" Decl. 33° 11' 3" Apparent magnitude: 2.69 Absolute magnitude: -3.29 Constellation: Auriga	120. Aldhibain Section 6 RA 16h 24' 14.7" Decl. 61° 28' 2" Apparent magnitude: 2.73 Absolute magnitude: 0.58 Constellation: Draco

121. θ Carinae
 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. ι 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. $21^{\circ} 27' 0''$
 Apparent magnitude: 2.78
 Absolute magnitude: -0.5
 Constellation: Hercules

128. δ Crucis
 Section 5
 RA 12h 16' 8.3"
 Decl. $-58^{\circ} 51' 6''$
 Apparent magnitude: 2.79
 Absolute magnitude: -2.45
 Constellation: Crux

129. Rastaban
 Section 7
 RA 17h 30' 51.1"
 Decl. $52^{\circ} 17' 1''$
 Apparent magnitude: 2.79
 Absolute magnitude: -2.43
 Constellation: Draco

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

131. γ Lupi
 Section 6
 RA 15h 36' 22.8"
 Decl. $-41^{\circ} 13' 39''$
 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. β Hydri
 Section 1
 RA 0h 26' 41.9"
 Decl. $-77^{\circ} 9' 1''$
 Apparent magnitude: 2.82
 Absolute magnitude: 3.45
 Constellation: Hydrus

135. τ 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

137. Algenib
 Section 1
 RA 0h 14' 11.4"
 Decl. $15^{\circ} 17' 1''$
 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. β 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. ζ Persei
 Section 2
 RA 3h 55' 18"
 Decl. $31^{\circ} 56' 1''$
 Apparent magnitude: 2.84
 Absolute magnitude: -4.55
 Constellation: Perseus

141. β Arae
 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. $-49^{\circ} 53' 20''$
 Apparent magnitude: 2.84
 Absolute magnitude: -1.51
 Constellation: Ara

143. Alcyone
 Section 2
 RA 3h 48' 35.3"
 Decl. $24^{\circ} 9' 4''$
 Apparent magnitude: 2.85
 Absolute magnitude: -2.41
 Constellation: Taurus

144. Vindemiatrix
 Section 5
 RA 13h 3' 5.9"
 Decl. $10^{\circ} 51' 3''$
 Apparent magnitude: 2.85
 Absolute magnitude: 0.37
 Constellation: Virgo

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	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	161. Matar Section 1 RA 22h 43' 52.3" Decl. $30^{\circ} 19' 0''$ Apparent magnitude: 2.93 Absolute magnitude: -1.16 Constellation: Pegasus
146. α Hydri Section 2 RA 1h 59' 21.1" Decl. $-61^{\circ} 28' 49''$ Apparent magnitude: 2.86 Absolute magnitude: 1.16 Constellation: Hydrus	154. π Scorpii Section 6 RA 15h 59' 58.5" Decl. $-26^{\circ} 9' 5''$ Apparent magnitude: 2.89 Absolute magnitude: -2.85 Constellation: Scorpius	162. τ Puppis Section 3 RA 6h 50' 23.7" Decl. $-50^{\circ} 38' 14''$ Apparent magnitude: 2.94 Absolute magnitude: -0.8 Constellation: Puppis
147. δ Cygni Section 8 RA 19h 45' 33.2" Decl. $45^{\circ} 10' 3''$ Apparent magnitude: 2.86 Absolute magnitude: -0.74 Constellation: Cygnus	155. ϵ Persei Section 2 RA 3h 59' 6.1" Decl. $40^{\circ} 3' 4''$ Apparent magnitude: 2.9 Absolute magnitude: -3.19 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
148. Tejat Section 3 RA 6h 24' 4.8" Decl. $22^{\circ} 30' 0''$ Apparent magnitude: 2.87v Absolute magnitude: -1.39v Constellation: Gemini	156. Alniyat Section 6 RA 16h 22' 19" Decl. $-25^{\circ} 38' 0''$ Apparent magnitude: 2.9v Absolute magnitude: -3.86v Constellation: Scorpius	164. Sadalmelik Section 8 RA 22h 6' 44" Decl. $0^{\circ} 13' 4''$ Apparent magnitude: 2.95 Absolute magnitude: -3.88 Constellation: Aquarius
149. γ 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	157. Albireo Section 8 RA 19h 31' 28.1" Decl. $27^{\circ} 59' 5''$ Apparent magnitude: 2.9 Absolute magnitude: -2.31 Constellation: Cygnus	165. Zaurak Section 2 RA 3h 58' 53.6" Decl. $-13^{\circ} 27' 2''$ Apparent magnitude: 2.97 Absolute magnitude: -1.19 Constellation: Eridanus
150. α Tucanæ Section 8 RA 22h 19' 45.2" Decl. $-60^{\circ} 10' 0''$ Apparent magnitude: 2.87 Absolute magnitude: -1.05 Constellation: Tucana	158. Sadalsuud Section 8 RA 21h 32' 31.9" Decl. $-5^{\circ} 29' 2''$ Apparent magnitude: 2.9 Absolute magnitude: -3.47 Constellation: Aquarius	166. Alheka Section 3 RA 5h 38' 45.1" Decl. $21^{\circ} 9' 0''$ Apparent magnitude: 2.97 Absolute magnitude: -2.56 Constellation: Taurus
151. Acamar Section 2 RA 2h 58' 15.6792" Decl. $-40^{\circ} 18' 16.8457''$ Apparent magnitude: 2.88 Absolute magnitude: -0.59 Constellation: Eridanus	159. γ Persei Section 2 RA 3h 6' 8.9" Decl. $53^{\circ} 34' 3''$ Apparent magnitude: 2.91 Absolute magnitude: -1.57 Constellation: Perseus	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
152. Albaldah Section 7 RA 19h 10' 51.8" Decl. $-20^{\circ} 59' 3''$ Apparent magnitude: 2.88 Absolute magnitude: -2.77 Constellation: Sagittarius	160. ν Carinæ Section 4 RA 9h 47' 33.8" Decl. $-65^{\circ} 9' 29''$ Apparent magnitude: 2.92 Absolute magnitude: -5.56 Constellation: Carina	168. Alnasl Section 7 RA 18h 6' 59.8" Decl. $-30^{\circ} 25' 2''$ Apparent magnitude: 2.98 Absolute magnitude: 0.63 Constellation: Sagittarius

169. γ Hydræ
 Section 5
 RA 13h 19' 55.9"
 Decl. $-23^{\circ} 16' 0''$
 Apparent magnitude: 2.99
 Absolute magnitude: -0.05
 Constellation: Hydra

170. ι^1 Scorpïi
 Section 7
 RA 17h 48' 52.8"
 Decl. $-40^{\circ} 7' 56''$
 Apparent magnitude: 2.99
 Absolute magnitude: -5.71
 Constellation: Scorpïus

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. β Trianguli
 Section 2
 RA 2h 10' 39.1"
 Decl. $35^{\circ} 4' 2''$
 Apparent magnitude: 3
 Absolute magnitude: 0.09
 Constellation: Triangulum

173. ψ Ursæ 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. μ^1 Scorpïi
 Section 7
 RA 16h 53' 7.6"
 Decl. $-38^{\circ} 4' 39''$
 Apparent magnitude: 3
 Absolute magnitude: -4.01
 Constellation: Scorpïus

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

177. δ Persei
 Section 2
 RA 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. σ^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 5h 3' 18"
 Decl. $43^{\circ} 50' 5''$
 Apparent magnitude: 3.03
 Absolute magnitude: -5.95
 Constellation: Auriga

182. β 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. $67^{\circ} 41' 3''$
 Apparent magnitude: 3.07
 Absolute magnitude: 0.63
 Constellation: Draco

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

189. ζ Hydræ
 Section 4
 RA 8h 56' 22.2"
 Decl. $5^{\circ} 52' 2''$
 Apparent magnitude: 3.11
 Absolute magnitude: -0.21
 Constellation: Hydra

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

191. λ 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. $47^{\circ} 58' 0''$
 Apparent magnitude: 3.12
 Absolute magnitude: 2.29
 Constellation: Ursa Major

195. ζ 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. $24^{\circ} 49' 0''$
 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. α Lyncis
 Section 4
 RA 9h 22' 10.6"
 Decl. $34^{\circ} 18' 4''$
 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: 3.16
 Absolute magnitude: -1.15
 Constellation: Vela

200. π Herculis
 Section 7
 RA 17h 15' 41.5"
 Decl. $36^{\circ} 47' 2''$
 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 0h 9' 20.9"

Decl. $29^{\circ} 11' 3''$

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. $56^{\circ} 38' 1''$

Apparent magnitude: 2.24

Absolute magnitude: -1.99

Constellation: Cassiopeia

74. Caph

Section 1

RA 0h 10' 10.6"

Decl. $59^{\circ} 15' 0''$

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. $28^{\circ} 11' 0''$

Apparent magnitude: 2.44v

Absolute magnitude: -1.49

Constellation: Pegasus

92. Markab

Section 1

RA 23h 5' 41"

Decl. $15^{\circ} 18' 1''$

Apparent magnitude: 2.49

Absolute magnitude: -0.67

Constellation: Pegasus

109. Ruchbah

Section 1

RA 1h 27' 2.5"

Decl. $60^{\circ} 19' 5''$

Apparent magnitude: 2.66

Absolute magnitude: 0.24

Constellation: Cassiopeia

134. β Hydri

Section 1

RA 0h 26' 41.9"

Decl. $-77^{\circ} 9' 1''$

Apparent magnitude: 2.82

Absolute magnitude: 3.45

Constellation: Hydrus

137. Algenib

Section 1

RA 0h 14' 11.4"

Decl. $15^{\circ} 17' 1''$

Apparent magnitude: 2.83

Absolute magnitude: -2.22

Constellation: Pegasus

161. Matar

Section 1

RA 22h 43' 52.3"

Decl. $30^{\circ} 19' 0''$

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. $-57^{\circ} 8' 36''$

Apparent magnitude: 0.45

Absolute magnitude: -2.77

Constellation: Eridanus

33. Mirfak

Section 2

RA 3h 25' 39.2"

Decl. $49^{\circ} 55' 3''$

Apparent magnitude: 1.8

Absolute magnitude: -4.49

Constellation: Perseus

50. Hamal

Section 2

RA 2h 8' 13.2"

Decl. $23^{\circ} 32' 5''$

Apparent magnitude: 2.01

Absolute magnitude: 0.48

Constellation: Aries

60. Algol

Section 2

RA 3h 9' 22.8"

Decl. $41^{\circ} 1' 3''$

Apparent magnitude: 2.09

Absolute magnitude: 0.18

Constellation: Perseus

61. Almach

Section 2

RA 2h 3' 53.9523"

Decl. $42^{\circ} 19' 47.0223''$

Apparent magnitude: 2.1

Absolute magnitude: -3.08

Constellation: Andromeda

93. Menkar

Section 2

RA 3h 3' 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. ζ 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. α Hydri
Section 2
RA 1h 59' 21.1"
Decl. -61° 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. ϵ Persei
Section 2
RA 3h 59' 6.1"
Decl. 40° 3' 4"
Apparent magnitude: 2.9
Absolute magnitude: -3.19
Constellation: Perseus

159. γ 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. β Trianguli
Section 2
RA 2h 10' 39.1"
Decl. 35° 4' 2"
Apparent magnitude: 3
Absolute magnitude: 0.09
Constellation: Triangulum

177. δ 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 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: -1.36
Constellation: Taurus

29. Alnilam
Section 3
RA 5h 37' 9.2"
Decl. -1° 11' 2"
Apparent magnitude: 1.69
Absolute magnitude: -6.38
Constellation: Orion

31. Alnitak
Section 3
RA 5h 41' 41.6"
Decl. -1° 56' 0"
Apparent magnitude: 1.75
Absolute magnitude: -5.25
Constellation: Orion

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 6h 38' 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° 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° 17' 1"
Apparent magnitude: 2.25
Absolute magnitude: -4.99
Constellation: Orion

88. Aludra
Section 3
RA 7h 24' 49.6"
Decl. -29° 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
RA 5h 40' 19.2"
Decl. -34° 3' 55"
Apparent magnitude: 2.65
Absolute magnitude: -1.93
Constellation: Columba

107. θ 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° 11' 3"
Apparent magnitude: 2.69
Absolute magnitude: -3.29
Constellation: Auriga

116. π Puppis
Section 3
RA 7h 17' 47.8"
Decl. -37° 7' 54"
Apparent magnitude: 2.71
Absolute magnitude: -4.92
Constellation: Puppis

123. Hatysa
Section 3
RA 5h 36' 20.3"
Decl. -5° 53' 5"
Apparent magnitude: 2.75
Absolute magnitude: -5.3
Constellation: Orion

126. Kursa
Section 3
RA 5h 8' 45.6"
Decl. -5° 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. τ Puppis
Section 3
RA 6h 50' 23.7"
Decl. -50° 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. α^2 Canis Majoris
Section 3
RA 7h 3' 1.47211"
Decl. -23° 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 7h 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' 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° 47' 37"
Apparent magnitude: 1.67
Absolute magnitude: -0.99
Constellation: Carina

35. Regor
Section 4
RA 8h 9' 31.9501"
Decl. -47° 20' 11.7108"
Apparent magnitude: 1.81
Absolute 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° 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° 50' 29.3468"
Apparent magnitude: 2
Absolute magnitude: -0.93
Constellation: Leo

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 9h 17' 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° 21' 3"
Apparent magnitude: 2.83
Absolute magnitude: 1.41
Constellation: Puppis

160. ν Carinae
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° 41' 1"
Apparent magnitude: 2.97
Absolute magnitude: -1.46
Constellation: Leo

186. Tania Australis
Section 4
RA 10h 23' 25.5"
Decl. 41° 24' 2"
Apparent magnitude: 3.06
Absolute magnitude: -1.35
Constellation: Ursa Major

189. ζ Hydrae
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. α 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	96. Zosma Section 5 RA 11h 15' 5.4" Decl. $20^{\circ} 25' 1''$ Apparent magnitude: 2.56 Absolute magnitude: 1.32 Constellation: Leo	124. ι Centauri Section 5 RA 13h 21' 38.6" Decl. $-36^{\circ} 48' 34''$ Apparent magnitude: 2.75 Absolute magnitude: 1.48 Constellation: Centaurus
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	99. δ Centauri Section 5 RA 12h 9' 19.5" Decl. $-50^{\circ} 49' 31''$ Apparent magnitude: 2.58v Absolute magnitude: -2.84 Constellation: Centaurus	128. δ Crucis Section 5 RA 12h 16' 8.3" Decl. $-58^{\circ} 51' 6''$ Apparent magnitude: 2.79 Absolute magnitude: -2.45 Constellation: Crux
34. Dubhe Section 5 RA 11h 4' 51.2" Decl. $61^{\circ} 39' 0''$ Apparent magnitude: 1.8 Absolute magnitude: -1.09 Constellation: Ursa Major	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	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
62. Denebola Section 5 RA 11h 50' 0.1" Decl. $14^{\circ} 28' 0''$ Apparent magnitude: 2.14 Absolute magnitude: 1.92 Constellation: Leo	108. Kraz Section 5 RA 12h 35' 21.7" Decl. $-23^{\circ} 29' 5''$ Apparent magnitude: 2.65 Absolute magnitude: -0.51 Constellation: Corvus	144. Vindemiatrix Section 5 RA 13h 3' 5.9" Decl. $10^{\circ} 51' 3''$ Apparent magnitude: 2.85 Absolute magnitude: 0.37 Constellation: Virgo
64. Muhlifain Section 5 RA 12h 42' 32.8" Decl. $-49^{\circ} 3' 40''$ Apparent magnitude: 2.2 Absolute magnitude: -0.81 Constellation: Centaurus	113. μ Velorum Section 5 RA 10h 47' 34.2" Decl. $-49^{\circ} 31' 6''$ Apparent magnitude: 2.69 Absolute magnitude: -0.06 Constellation: Vela	163. Algorel Section 5 RA 12h 30' 49.4" Decl. $-16^{\circ} 37' 0''$ Apparent magnitude: 2.94 Absolute magnitude: 0.79 Constellation: Corvus
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	114. α Muscæ Section 5 RA 12h 38' 18.4" Decl. $-69^{\circ} 14' 14''$ Apparent magnitude: 2.69 Absolute magnitude: -2.17 Constellation: Musca	169. γ Hydræ Section 5 RA 13h 19' 55.9" Decl. $-23^{\circ} 16' 0''$ Apparent magnitude: 2.99 Absolute magnitude: -0.05 Constellation: Hydra
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	121. θ Carinæ Section 5 RA 10h 43' 37.3" Decl. $-64^{\circ} 29' 30''$ Apparent magnitude: 2.74 Absolute magnitude: -2.91 Constellation: Carina	173. ψ Ursæ Majoris Section 5 RA 11h 10' 41.8" Decl. $44^{\circ} 23' 5''$ Apparent magnitude: 3 Absolute magnitude: -0.27 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	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	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. β Muscæ
 Section 5
 RA 12h 47' 26.1"
 Decl. $-68^{\circ} 12' 32''$
 Apparent magnitude: 3.04
 Absolute magnitude: -1.86
 Constellation: Musca

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

191. λ 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. α 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. $49^{\circ} 13' 1''$
 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. ϵ 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. η 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. ζ Centauri
 Section 6
 RA 13h 56' 42.2"
 Decl. $-47^{\circ} 22' 43''$
 Apparent magnitude: 2.55
 Absolute magnitude: -2.81
 Constellation: Centaurus

102. Zubeneshchamali
 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
 Constellation: Libra

110. Muphrid
 Section 6
 RA 13h 55' 33.9"
 Decl. $18^{\circ} 18' 2''$
 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. $61^{\circ} 28' 2''$
 Apparent magnitude: 2.73
 Absolute magnitude: 0.58
 Constellation: Draco

131. γ Lupi

Section 6

RA 15h 36' 22.8"

Decl. $-41^{\circ} 13' 39''$

Apparent magnitude: 2.8

Absolute magnitude: -3.4

Constellation: Lupus

139. β 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. γ 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

154. π 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. $38^{\circ} 13' 4''$

Apparent magnitude: 3.04

Absolute magnitude: 0.96

Constellation: Boötes

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

Section 7**RA 16h 30m–19h 30m**

5. Vega

Section 7

RA 18h 37' 33.9"

Decl. $38^{\circ} 48' 0''$

Apparent magnitude: 0.03

Absolute magnitude: 0.58

Constellation: Lyra

15. Antares

Section 7

RA 16h 30' 32.7"

Decl. $-26^{\circ} 28' 1''$

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. $-69^{\circ} 1' 39.7626''$

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. $12^{\circ} 32' 5''$

Apparent magnitude: 2.08

Absolute magnitude: 1.3

Constellation: Ophiuchus

72. Eltanin

Section 7

RA 17h 57' 2.2"

Decl. $51^{\circ} 29' 1''$

Apparent magnitude: 2.24

Absolute magnitude: -1.04

Constellation: Draco

77. Wei

Section 7

RA 16h 51' 21.9"

Decl. $-34^{\circ} 19' 3''$

Apparent magnitude: 2.29

Absolute magnitude: 0.78

Constellation: Scorpius

83. Girtab

Section 7

RA 17h 43' 46.1"

Decl. $-39^{\circ} 2' 16''$

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. $-10^{\circ} 36' 1''$

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. $52^{\circ} 17' 1''$
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. τ 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. β 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. $-49^{\circ} 53' 20''$
Apparent magnitude: 2.84
Absolute magnitude: -1.51
Constellation: Ara

152. Albaldah
Section 7
RA 19h 10' 51.8"
Decl. $-20^{\circ} 59' 3''$
Apparent magnitude: 2.88
Absolute magnitude: -2.77
Constellation: Sagittarius

168. Alnasl
Section 7
RA 18h 6' 59.8"
Decl. $-30^{\circ} 25' 2''$
Apparent magnitude: 2.98
Absolute magnitude: 0.63
Constellation: Sagittarius

170. ι^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

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

195. ζ 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. $24^{\circ} 49' 0''$
Apparent magnitude: 3.12
Absolute magnitude: 1.21
Constellation: Hercules

200. π Herculis
Section 7
RA 17h 15' 41.5"
Decl. $36^{\circ} 47' 2''$
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. $8^{\circ} 55' 0''$
Apparent magnitude: 0.77
Absolute magnitude: 2.21
Constellation: Aquila

19. Deneb
Section 8
RA 20h 42' 3.8"
Decl. $45^{\circ} 20' 5''$
Apparent magnitude: 1.24
Absolute magnitude: -8.74
Constellation: Cygnus

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

44. Peacock
Section 8
RA 20h 27' 6"
Decl. $-56^{\circ} 40' 27''$
Apparent magnitude: 1.93
Absolute magnitude: -1.82
Constellation: Pavo

70. Sadr
 Section 8
 RA 20h 22' 53.6"
 Decl. 40° 19' 0"
 Apparent magnitude: 2.23
 Absolute magnitude: -6.12
 Constellation: Cygnus

82. Enif
 Section 8
 RA 21h 45' 5.7"
 Decl. 9° 57' 3"
 Apparent magnitude: 2.38
 Absolute magnitude: -4.19
 Constellation: Pegasus

89. Alderamin
 Section 8
 RA 21h 19' 1.2"
 Decl. 62° 39' 5"
 Apparent magnitude: 2.45
 Absolute magnitude: 1.58
 Constellation: Cepheus

91. Gienah
 Section 8
 RA 20h 46' 57.6"
 Decl. 34° 2' 2"
 Apparent magnitude: 2.48
 Absolute magnitude: 0.76
 Constellation: Cygnus

118. Tarazed
 Section 8
 RA 19h 47' 8.3"
 Decl. 10° 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. δ Cygni
 Section 8
 RA 19h 45' 33.2"
 Decl. 45° 10' 3"
 Apparent magnitude: 2.86
 Absolute magnitude: -0.74
 Constellation: Cygnus

150. α Tucanæ
 Section 8
 RA 22h 19' 45.2"
 Decl. -60° 10' 0"
 Apparent magnitude: 2.87
 Absolute magnitude: -1.05
 Constellation: Tucana

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° 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. γ Gruis
 Section 8
 RA 21h 55' 2.6"
 Decl. -37° 16' 37"
 Apparent magnitude: 3
 Absolute magnitude: -0.97
 Constellation: 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
 RA 20h 38' 51.6"
 Decl. -47° 13' 32"
 Apparent magnitude: 3.11
 Absolute magnitude: 0.65
 Constellation: Indus

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