Table 4. L and T Dwarfs within (or Possibly within) 25 Parsecs of the Sun

Name of Dwarf	Discovery Paper	Type[a]	J (mag)[b]	K_s (mag)[b]	Distance (pc)[c]		
					from J	from K_s	from π_{trig}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2MASSI J0746425+200032	Reid et al. (2000)	L0.5 V	11.74±0.03	10.49±0.03	···	···	12.3
2MASSW J1412244+163312	this paper	L0.5 V	13.89±0.04	12.59±0.03	25	26	···
2MASSW J1439284+192915	Paper I	L1 V	12.76±0.04	11.58±0.04	···	···	14.3
2MASSW J1300425+191235	Gizis et al. (2000)	L1 V	12.71±0.02	11.61±0.03	14	16	···
2MASSW J1108307+683017	Gizis et al. (2000)	L1 V	13.14±0.03	11.60±0.03	17	16	···
2MASSW J1658037+702701	Gizis et al. (2000)	L1 V	13.31±0.03	11.92±0.03	18	18	···
2MASSW J0208183+254253	this paper	L1 V	14.02±0.03	12.58±0.04	25	25	···
2MASSW J0832045−012835	this paper	L1.5 V	14.13±0.03	12.69±0.03	25	25	···
DENIS-P J1441−0945	Martín et al. (1999b)	~L1 V	14.00±0.03	12.64±0.04	25	26	···
Kelu-1	Ruiz et al. (1997)	L2 V	13.38±0.03	11.81±0.03	···	···	19.2
2MASSW J0015447+351603	this paper	L2 V	13.82±0.04	12.24±0.03	20	19	···
2MASSW J1338261+414034	this paper	L2.5 V	14.22±0.03	12.75±0.04	23	23	···
2MASSI J1029216+162652	this paper	L2.5 V	14.31±0.04	12.61±0.04	24	22	···
G 196-3B	Rebolo et al. (1998)	L2 V	14.90±0.05	12.81±0.13	34	25	···
2MASSW J0036159+182110	Reid et al. (2000)	L3.5 V	12.44±0.04	11.03±0.03	···	···	8.7
2MASSW J1506544+132106	Gizis et al. (2000)	L3 V	13.41±0.03	11.75±0.03	15	14	···
DENIS-P J1058.7−1548	Delfosse et al. (1997)	L3 V	14.18±0.03	12.53±0.03	···	···	17.5
SDSSp J120358.19+001550.3	Fan et al. (2000)	~L3 V	14.02±0.03	12.48±0.03	19	19	···
DENIS-P J1047−1815	Martín et al. (1999b)	~L3 V	14.20±0.03	12.90±0.03	21	24	···
2MASSW J1615441+355900	this paper	L3 V	14.55±0.04	12.89±0.05	25	23	···
2MASSW J2224438−015852	this paper	L4.5 V	14.05±0.03	12.02±0.03	15	13	···
2MASSW J1112257+354813[d]	this paper	L4.5 V	14.57±0.04	12.69±0.05	···	···	21.7
2MASSW J1246467+402715	this paper	L4 V	15.00±0.04	13.30±0.04	26	25	···
2MASSW J1507476−162738	Reid et al. (2000)	L5 V	12.82±0.03	11.30±0.03	···	···	8.:
GJ 1001B	Goldman et al. (1999)	L5 V	13.10±0.03	11.40±0.03	···	···	9.6
SDSSp J053951.99−005902.0	Fan et al. (2000)	~L5 V	13.99±0.03	12.58±0.03	13	15	···
2MASSW J1239272+551537	this paper	L5 V	14.67±0.03	12.74±0.03	18	16	···
DENIS-P J1228.2−1547AB	Delfosse et al. (1997)	L5 V[e]	14.38±0.04[e]	12.81±0.03[e]	···	···	19.6
2MASSW J0205034+125142	this paper	L5 V	15.69±0.06	13.68±0.05	29	25	···
2MASSW J0920122+351742	this paper	L6.5 V	15.59±0.07	13.93±0.08	20	22	···
2MASSI J0825196+211552	this paper	L7.5 V	15.12±0.04	13.05±0.04	13	12	···
DENIS-P J0205.4−1159AB	Delfosse et al. (1997)	L7 V[e]	14.55±0.03[e]	12.99±0.04[e]	···	···	17.5
2MASSI J1526140+204341	this paper	L7 V	15.62±0.07	13.92±0.06	18	20	···
2MASSW J1728114+394859	this paper	L7 V	15.96±0.08	13.90±0.05	22	19	···
2MASSW J0030300−145033	this paper	L7 V	16.79±0.16	14.38±0.08	32	24	···
DENIS-P J0255−4700	Martín et al. (1999b)	~L8 V	13.23±0.03	11.53±0.03	5	5	···
2MASSW J1632291+190441	Paper I	L8 V	15.86±0.07	13.98±0.05	···	···	16.8
SDSSp J132629.82−003831.5	Fan et al. (2000)	~L8 V	16.11±0.07	14.23±0.07	18	18	···
2MASSW J1523226+301456[f]	this paper	L8 V	16.32±0.11	14.24±0.07	···	···	18.6
2MASSW J0310599+164816	this paper	L8 V	16.43±0.11	14.40±0.10	21	20	···

TABLE 4. (continued)

Name of Dwarf (1)	Discovery Paper (2)	Type[a] (3)	J (mag)[b] (4)	K_s (mag)[b] (5)	Distance (pc)[c] from J (6)	from K_s (7)	from π_{trig} (8)
2MASSW J0929336+342952	this paper	L8 V	16.60±0.13	14.62±0.11	23	22	...
2MASSW J0328426+230205	this paper	L8 V	16.67±0.14	14.84±0.13	23	24	...
Gl 229B	Nakajima et al. (1995)	T dwarf	14.4±0.1[g]	14.5±0.1[g]	...	...	5.8
Gl 570D	Burgasser et al. (2000a)	T dwarf	15.33±0.05	15.27±0.17	...	...	5.9
2MASSW J0559191−140448	Burgasser et al. (2000c)	T dwarf	13.83±0.03	13.61±0.05	6	...	...
2MASSW J1225543−273947	Burgasser et al. (1999)	T dwarf	15.23±0.05	15.06±0.15	10	...	...
SDSSp J162414.37+002915.6	Strauss et al. (1999)	T dwarf	15.53±0.03[h]	15.70±0.05[h]	12	...	...
SDSSp J134646.45−003150.4	Tsvetanov et al. (2000)	T dwarf	15.82±0.05[h]	15.84±0.07[h]	13	...	...
2MASSI J1047539+212423	Burgasser et al. (1999)	T dwarf	15.82±0.06	>16.29	13	...	...
2MASSW J1217111−031113	Burgasser et al. (1999)	T dwarf	15.85±0.07	>15.91	14	...	...
2MASSW J1237392+652615	Burgasser et al. (1999)	T dwarf	15.90±0.06	>15.90	14	...	...

[a]All spectral types are on the system of Paper I. Approximate spectral types are given for those objects for which we do not have spectra. For those objects, types have be (re-)assigned by eye based on the published spectra.

[b]Photometry is from 2MASS unless otherwise noted.

[c]Distances are computed from π_{trig} when available. For L dwarfs without π_{trig} measures, one distance estimate has been computed from the spectral type using equation (1) and the apparent J magnitude, and another has been computed using equation (2) and the apparent K_s magnitude. For T dwarfs without π_{trig} measures, the method of Burgasser et al. 1999 has been used to estimate distances from the apparent J magnitude, except for 2MASSW J0559−1404 whose distance estimate comes from Burgasser et al. 2000c.

[d]Also known as Gl 417B. See Kirkpatrick et al. 2000.

[e]This is a combine measure for the AB pair.

[f]Also known as Gl 584C. See Kirkpatrick et al. 2000.

[g]Photometry from Matthews et al. 1996.

[h]Magnitude is from the discovery paper cited. Listed magnitude is K, not K_s.