TABLE 2

L-Dwarf Feature Identifications in the Far Optical

Atom/Molecule (1)	Location (Å) (2)	Transition (3)
Hα[a]	6563	$3d^2D_{\frac{5}{2}}$–$2p^2P_{\frac{3}{2}}$
Li I[a]	6708	$2s^2S_{\frac{1}{2}}$–$2p^2P_{\frac{3}{2}\frac{1}{2}}$
CaH[a,b]	broad trough ∼6750–7050	0-0 band of $A^2\Pi$–$X^2\Sigma$
TiO[a]	7053 head, degraded to red	0-0 band of $A^3\Phi$–$X^3\Delta$
VO[a]	broad trough ∼7334–7534	1-0 band of $B^4\Pi$–$X^4\Sigma^-$
TiO[a]	7589 head, degraded to red	0-1 band of $A^3\Phi$–$X^3\Delta$
K I[b]	7665	$4s^2S_{\frac{1}{2}}$–$4p^2P_{\frac{3}{2}}$
K I	7699	$4s^2S_{\frac{1}{2}}$–$4p^2P_{\frac{1}{2}}$
Rb I	7800	$5s^2S_{\frac{1}{2}}$–$5p^2P_{\frac{3}{2}}$
VO[a]	broad trough ∼7851–7973	0-0 band of $B^4\Pi$–$X^4\Sigma^-$
Rb I	7948	$5s^2S_{\frac{1}{2}}$–$5p^2P_{\frac{1}{2}}$
Na I	8183	$3p^2P_{\frac{1}{2}}$–$3d^2D_{\frac{3}{2}}$
Na I	8195	$3p^2P_{\frac{3}{2}}$–$3d^2D_{\frac{5}{2}\frac{3}{2}}$
TiO[a]	8206 head, degraded to red	0-2 band of $A^3\Phi$–$X^3\Delta$
TiO[a]	8432 head, degraded to red	0-0 band of $E^3\Pi$–$X^3\Delta$
Cs I	8521	$6s^2S_{\frac{1}{2}}$–$6p^2P_{\frac{3}{2}}$
CrH	8611 head, degraded to red	0-0 band of $A^6\Sigma^+$–$X^6\Sigma^+$
FeH	8692 head, degraded to red	1-0 band of $A^4\Delta$–$X^4\Delta$
Cs I	8943	$6s^2S_{\frac{1}{2}}$–$6p^2P_{\frac{1}{2}}$
H_2O[b]	broad trough around ∼9300	$\nu_1 + \nu_3 = 3$
VO[a,b]	broad trough ∼9540–9630	1-0 band of $A^4\Pi$–$X^4\Sigma^-$
FeH	9896 head, degraded to red	0-0 band of $A^4\Delta$–$X^4\Delta$
CrH	9969 head, degraded to red	0-1 band of $A^6\Sigma^+$–$X^6\Sigma^+$

[a]Feature not seen in all L dwarfs.

[b]Contaminated by telluric absorption bands.