Appendix AA Electric drive motor performance

CFHT electric drive / Motor Performance
(Dome Drive)

- 20 HP motor @ sea level
- 15 HP motor @ sea level
- 20 HP motor @ altitude
- 10 HP motor @ sea level
- 15 HP motor @ altitude
- 10 HP motor @ altitude

- Torque values beyond 1800 rpm not to scale

- Slow speed
  - Continuous 231 rpm
  - 1.652 rpm
  - 0.0361 rpm
  - 13 deg/min
  - 4.5 1hp ft

- 1/4 HP

- 10 HP
  - Sea level: 30 lb ft
  - Altitude: 30.3 lb ft

- 15 HP
  - Sea level: 45 lb ft
  - Altitude: 45 lb ft

- 20 HP
  - Sea level: 60 lb ft
  - Altitude: 60 lb ft

- Gearbox mechanical advantage/reduction ratio: 1/140

- Wheel reduction ratio: 1/45.75

- Total drive train reduction ratio: 1/6405

Baumgar
8/9/10