

**Key**

- Site Boundary
- Lit Turbine
- Unlit Turbine
- 20 km Study Area
- 5 km Distance Radii
- Wild Land Area (WLA)

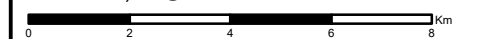
**Theoretical Visibility of Lighting Intensity**

| Vertical Angle | 2000 candela<br>(visibility is <5km) | 200 candela<br>(visibility is >5km) |
|----------------|--------------------------------------|-------------------------------------|
| 1° to 3°       | 2280 to 2030                         | 228 to 203                          |
| 0° to 1°       | 2270                                 | 227                                 |
| 0° to -1°      | 1770                                 | 177                                 |
| -1° to -2°     | 750                                  | 75                                  |
| -2° to -3°     | 90                                   | 9                                   |
| Below -3°      | Below 45                             | Below 4.5                           |

**Notes**

1. ZTV is based on cardinal lighting of 6 turbines with visible aviation lighting mounted on the hub (119m).
2. ZTV calculations returned no results for landform greater than 3° from the turbine hubs.
3. Theoretical lighting intensity shown may be the result of one turbine.
4. ZTV is based on turbine lighting intensity of 2000 candela. Current CAA guidance allows for the light intensity to be reduced 200 candela if visibility is greater than 5 km.
5. Theoretical lighting intensity does not take into account reductions based on distance.
6. Intensity values are for the highest value of average intensity in each given elevation band.

Scale 1:150,000@ A3



**TA Figure 4.2.5  
Cardinal Aviation Lighting Strategy:  
Theoretical Intensity ZTV**

**Strathy South  
Supplementary Information**