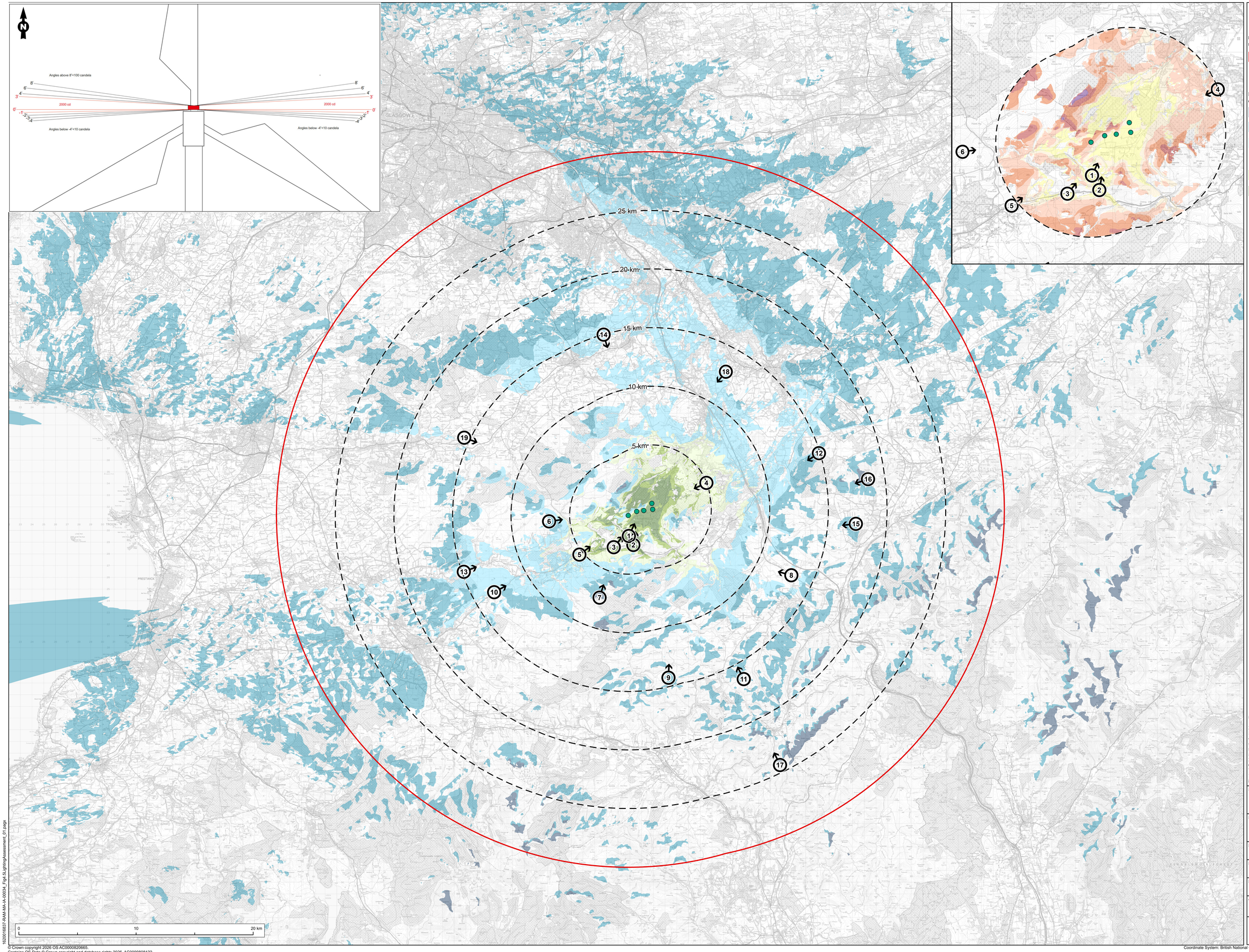

Legend

- Extension Turbine Layout (Scoping)
- 5 km Radii from Outer Turbines
- Extension Turbine Layout (Scoping) - 30 km Buffer
- Viewpoint

Based on Maximum Lighting Intensity of NacelleLights set at 200 Candella

- 3 to 0 (200 candela)
- 0 to -1 (reducing from 200 to 75 candela)
- -1 to -2 (reducing from 75 to 8 candela)
- -2 to -3 (reducing from 8 to 4 candela)
- -3 to -4 (reducing from 4 to 1 candela)
- <-4 (reducing from 1 to 0 candela)

Based on Maximum Lighting Intensity of NacelleLights set at 2000 Candella

- 3 to 0 (2000 candela)
- 0 to -1 (reducing from 2000 to 750 candela)
- -1 to -2 (reducing from 750 to 80 candela)
- -2 to -3 (reducing from 80 to 40 candela)
- -3 to -4 (reducing from 40 to 10 candela)
- < -4 (reducing from 10 to 0 candela)

VP	VP Name
1	Glenbuck Heritage Village Interpretation Site
2	A70 Glenbuck Loch
3	River Ayr Way, approach to Glenbuck Loch
4	Core path south of Coalburn
5	A70, east of Muirkirk
6	Middlefield Law
7	Cairn Table
8	Cycleway 74, west of Abington
9	Footpath, Sheil Hill
10	A70, Boghead
11	Slough Hill, Lowther Hills
12	Black Hill
13	River Ayr Way, north of Airds Moss
14	Glassford
15	Dungavel Hill
16	The Dimple, Tinto Hills
17	East Mount Lowther, Lowther Hills
18	Blackhill Cairn Fort
19	Loudon Hill

Notes:
1. Intensity values are unmitigated
2. No receptor locations identified over 8
3. Angles below -4 degree below 10 candela
4. The ZTV analysis does not take into account the screening effect of vegetation, buildings and other surface features.
5. Predicted visibility based on a viewer eye height 2m above ground.
6. Visibility calculated using Ordnance Survey Terrain 5 DTM on a 5m Grid.
7. Effect of earth curvature and light refraction is included.

Figure Title
Lighting Assessment - Light Intensity Mapping

Project Name
Galawhistle Wind Farm Extension

Project No./Filery ID
1620016837 / REH2024N01343

Date	Figure No.	Revision
June 2026	4.5	1.0

Prepared By	Scale
RS	1:140,000 @A1

Client
nadara
RAMBOLL

1620016837-RAM-MA-IA-00034_Fig4.5LightingAssessment_01.pagx

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Coordinate System: British National Grid. Projection: Transverse Mercator. Datum: OSGB 1936.