

Tree Report of 20677



Genus
Samanea

Species
saman


Common Name
Hujan-hujan

Date of report
27th January, 2026

Address
Jalan P11

Position
2.950677222667906, 101.67573021521858



 Static map of tree location



Tree Report of 20677



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Samanea

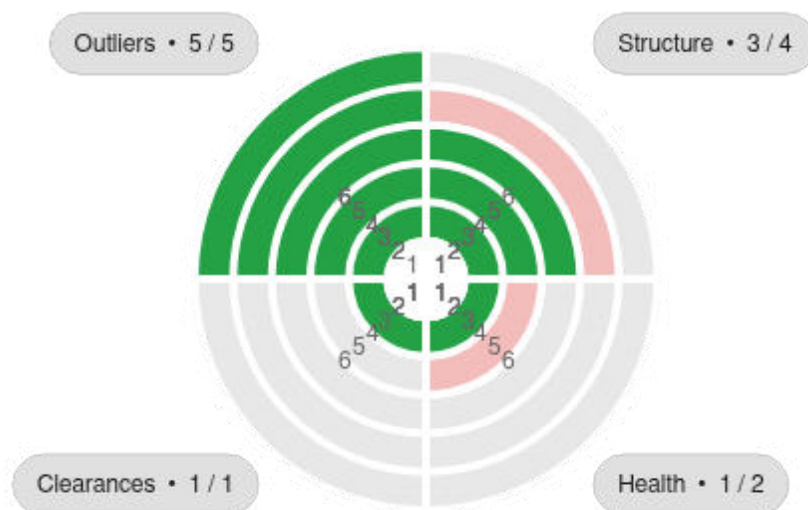
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Structural assessment

- ✗ Trunk stability (base)
- ✓ Crown Lean Angle
- ✓ Slenderness
- ✓ Dieback

Health & Vitality

- ✓ Dieback
- ✗ Foliage Transparency

Clearances

- ✓ Road

Outliers

- ✓ DBH vs Leaf Area
- ✓ Height vs Crown Volume
- ✓ DBH vs Height
- ✓ Leaf Area vs Crown Volume
- ✓ DBH vs Crown Volume

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Dimensions

Total Height	Very high	19.89 m	Crown Spread	Very large	29.95 m
Trunk Height	High	2.89 m	Tree Protection Zone	Very large	11.47 m
DBH	Very large	0.96 m	Root Protection Zone	Very large	17.21 m
Crown Height	Very large	12.1 m	Number Of Stems	Low	2

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Structural assessment

Stability

Slenderness	Low	20.81	Crown Lean Angle	High	10.42 °
Trunk Stability Index		2.49	Trunk Lean Angle	High	6.79 °
Critical Wind Speed		105 kmh			

Limbs

Number of Limbs	-	Fork Types	-
Codominant Stems	-	Cross-sectional shape	-
Included Bark	-		

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Health and vitality

Condition & Vigor

Dieback	Low	0%	Foliage Transparency	17.77%
Basal Area Increment	-		Leaf Area	Very large 3,743.04 m ²
NDVI	-		Leaf Area Index	Medium 6.66

Foliage

Leaf Area Density	Low	0.65 m ² /m ³	Live Crown Ratio	Medium 60.8%
Crown Volume	Very large	5,803.73 m ³		

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Benefits

Water management

Avoided Water Runoff	Very high	1.92 m ³ /yr	Evaporation	Very high	33.7 m ³ /yr
Potential Evapotranspiration	Very high	208.04 m ³ /yr	Transpiration	Very high	39.91 m ³ /yr
Water Intercepted	Very high	33.92 m ³ /yr			

Ecosystem services

Carbon Storage	Very high	2,653.26 kg	CO Removal	Low	0.78 g/yr
Carbon Sequestration	Very high	107.99 kg/yr	NO ₂ Removal	Low	3.07 g/yr
Oxygen Production	Very high	285.35 kg/yr	O ₃ Removal	Low	36.95 g/yr
PM _{2.5} Removal	Low	1.93 g/yr	SO ₂ Removal	Low	6.62 g/yr

Economical value

Cavat Value **Very valuable** 31,489.68 £

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Outlier information

Height / Crown Volume	No	Trunk Diameter / Height	No
Height / Leaf Area	No	Trunk Diameter / Leaf Area	No
Leaf Area Density Outlier	No	Overall Outlier Index	Low 0
Trunk Diameter / Crown Volume	No		

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Clearances

Building Clearance

⌵ Not available

Road Clearance

✅ No issue

Wire Clearance

⌵ Not available

Traffic Sign Clearance

⌵ Not available

Visibility Clearance

⌵ Not available

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