



City of London Shared Use Study October 2025



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INTRODUCTION

PROJECT CONTEXT

The streets of the City of London serve as a vital network supporting commerce, culture, and daily life, accommodating a diverse mix of pedestrians, cyclists, vehicles, and public transport. As the City continues to evolve, pressures on street space are increasing, with shared-use areas playing an essential role in balancing multiple modes of movement while supporting public life.

Managing the interactions between different street users within these spaces is a growing challenge. Conflicts or negative perceptions can arise when pedestrians, cyclists, and other users compete for limited space, potentially impacting safety, comfort, and the overall user experience. Understanding how these interactions occur is critical to ensuring streets are safe, efficient, and welcoming, while maintaining the high-quality public realm expected in a leading global city.

This project focuses on four shared-use spaces, including a detailed crossing assessment at Cannon Street, to provide evidence-based insights that can guide interventions and improvements. By capturing both qualitative and quantitative data, the study will help inform strategies to enhance street safety, functionality, and user satisfaction across the City.



METHODOLOGY

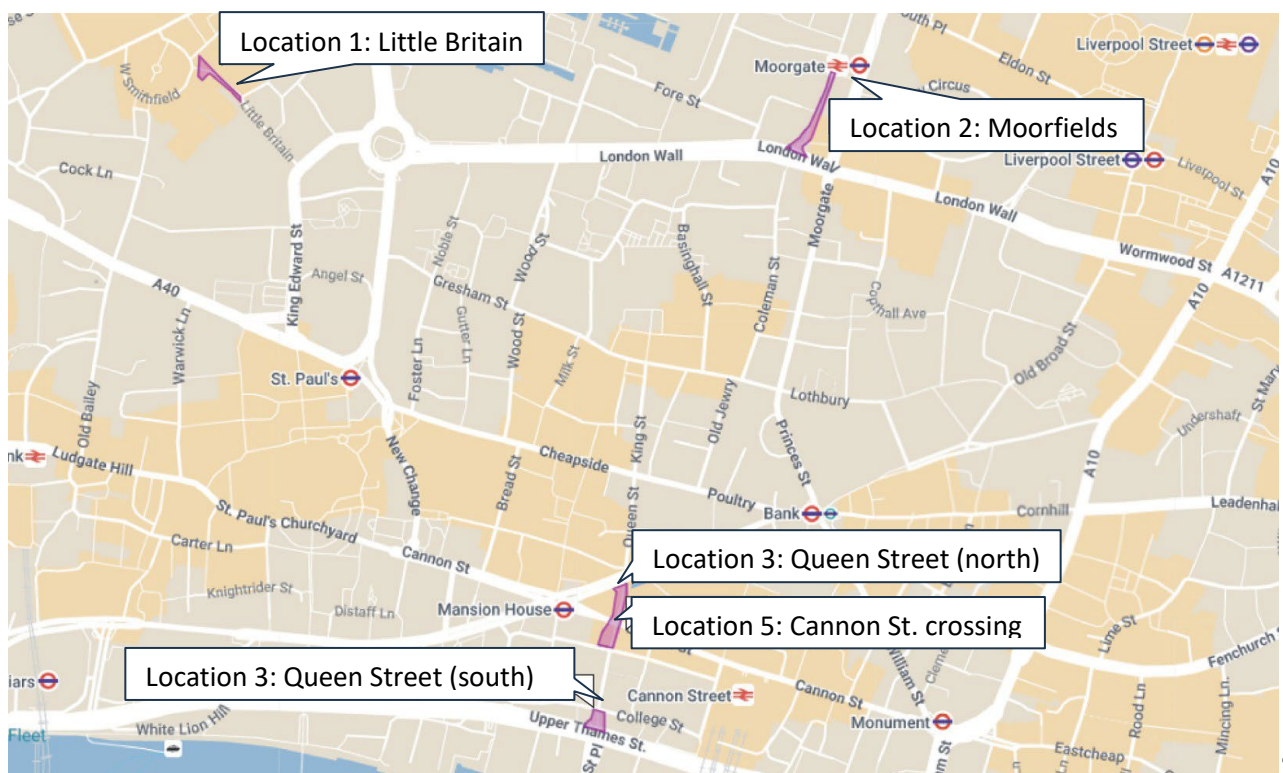
SITE SELECTION

A total of 5 sites were pre-selected by the City of London based on advice from transport officers on concerns reported by members of the public. These sites were:

- **Little Britain**
- **Moorfields**
- **Queen Street Site 1** - between Queen Victoria Street and Cloak Lane, including the toucan crossing on Cannon Street
- **Queen Street Site 2** - between College Street and Upper Thames Street
- **Cannon Street Toucan Crossing**

Each site presented different characteristics that influenced observations. Little Britain is a wide pedestrianised space framed by restaurants and outdoor seating but with limited infrastructure for camera mounting; Moorfields, outside Moorgate Tube Station, is another pedestrianised zone with heavy footfall and hospitality uses, requiring temporary posts to support effective data collection; Queen Street (Central and South) is a busier commercial corridor with higher levels of through-traffic, a public house with external seating, permanent planters, and office frontages.

OVERVIEW MAP OF ALL SITES



RESEARCH METHODS

As there is limited existing information on pedestrian conflict with cyclists, we identified the need to collect primary data across the four sites. Our data collection methods will therefore focus on assessing key themes including safety, layout, comfort, user awareness, accessibility, and overall usability.

THEMES

Safety

- Instances and severity of pedestrian/cyclist/scooter interactions (including near misses, verbal exchanges, etc.).
- Anti-social behaviour instances could also be analysed if the data shows these.

Layout

- Influence of the current layout of the area on user behaviours, focusing on public space, street furniture, and greening.
- Capacity of the space.
- In-depth analysis of specific locations within the space that attract most users and positive and negative factors which contribute to it.

Comfort

- Volumes of user traffic including, during peak times, supported by national and/or regional guidance if applicable.
- Analysis of the connection between increasing volumes and increased negative user interactions.

User awareness

- Observing user behaviour and street layout in terms of the function of the space, its effectiveness and its influence on user behaviour.
- Identifying spaces which are rarely used and causes of this.

Accessibility

- Street layouts and user behaviour' influence on the accessibility of the spaces.
- Accessibility audit of each space, identify impassable sections of spaces and/or obstacles for each group.

Useability

- Desire lines for different user groups.
- Impact of desire lines on causing/preventing possible conflict.

Our primary data collection relied on static cameras, which captured and recorded **Tuesday 2nd, Wednesday 3rd and Thursday 4th September from 7am to midnight**. This was supplemented by direct site observations to document user behaviour and interactions, including informal movement patterns. Observations focused on identifying conflicts or difficulties related to layout or infrastructure, as well as interactions with crossings, street furniture, seating, and pinch points. The methodologies for each data collection approach are outlined below.

QUANTITATIVE DATA COLLECTION

We used 13 cameras to cover all sites effectively, this was split by three at Little Britain, five at Moorfields and five spread across Queen Street. Using this footage we gathered the following information:

- Volume of users at each of the sites.
- Categorising users that are passing through, congregating, or dwelling.
- Capturing cyclist speeds using AI.
- Trace lines using AI to review paths taken by cyclists.
- Grading conflict between pedestrians and cyclists (see Table 1).

The Cannon Street toucan crossing site required a separate analysis which included:

- Waiting counts
- Pedestrian and cyclist counts of;
 - Users crossing in each direction,
 - Users crossing during the green and red lights,
 - Cyclist counts of all turning movements at the crossing;
 - During green and red lights
- Routes and desire lines of different user groups
- Conflict between users of the crossing and people moving along.
- Frequency and severity of queuing vehicles obstructing the crossing during the green man stage.

QUALITATIVE DATA COLLECTION

Though static cameras were positioned to capture the widest possible view of each area to accompany the primary data collection we conducted direct site observations from two person teams at each of the five site locations. These were conducted over three days to coincide with the duration of the site cameras recording footage.

Site observations:

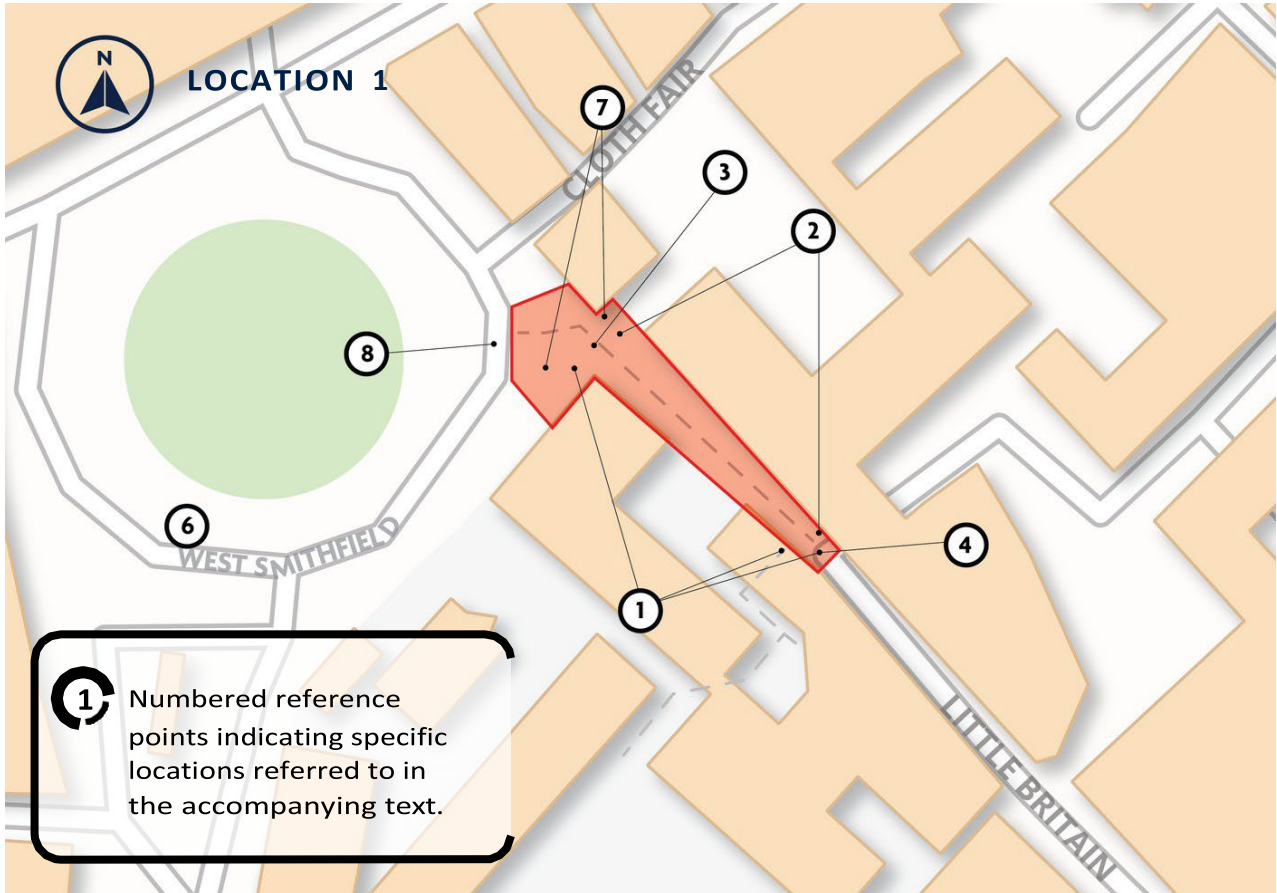
- Site observations took place on **Tuesday 2nd, Wednesday 3rd and Thursday 4th September**, from **12 - 6:30pm**. Particular focus was given to the heaviest periods of pedestrian activity: during lunchtime (**12 - 2pm**) and the evening rush hour (**4:30 - 6:30pm**) where conflict is more likely to occur and issues are more likely to be highlighted.
- Observation points were chosen where the largest number of pedestrians and cyclists passed each other, together with frequent opposing or perpendicular movements. The observer had to have an unobstructed view, but not interfere with path user's usual behaviour.
- Interactions were recorded under each of the previously outlined themes and then synthesised to build a more comprehensive understanding of the interactions and impacts occurring within the site area.
- Conflicts between cyclists and pedestrians were recorded and ranked according to severity – ranging from “A” the mildest (e.g. an early change of direction) to “H” the most severe (a physical collision between users). The following table outlines the categories used when observing interactions.

| Interaction type | Description |
|---|---|
| A - Early change of direction or slowing down | A cyclist or pedestrian noticed the presence of another user and adjusted smoothly (e.g., changed position or slowed down). |
| B - Negotiation or inconvenience | A cyclist or pedestrian adjusted their position or speed in response to another user in a way that caused mild inconvenience. |
| C - Warning | A vocal warning or alert (e.g., bell, shout) was given to another path user to announce presence (courtesy or frustration). |
| D - Late swerve/change of direction | An uncontrolled, sudden, or uncomfortable last-minute movement not anticipated earlier. |
| E - Sudden stop | A late or uncontrolled braking/stop. |
| F - Verbal (or physical) exchange | Argument, shouting, swearing, or rare physical altercation. |
| G - Near miss | A near collision requiring emergency action to avoid impact. |
| H - Collision | A physical collision between users. |



LOCATION 1 - LITTLE BRITAIN

SITE OVERVIEW MAP



OBSERVATIONS AND DATA REVIEW



The Little Britain site is a pedestrianised thoroughfare connecting Smithfield Rotunda Gardens to St Bartholomews Hospital. The space has many shop frontages and an entrance to the hospital. It is a key north to south route connecting people from Smithfields Market to the St Paul's area.



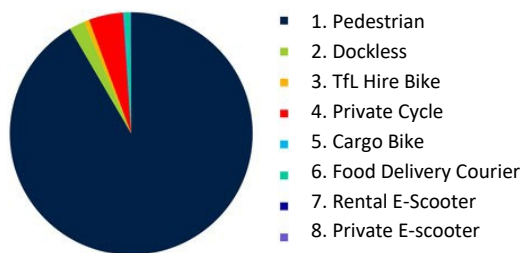
Site observations were carried out during a period of frequent heavy rainfall.

COMFORT

During peak periods, particularly when high pedestrian volumes arrived from the east at point 8, the space reached levels of congestion that reduced pedestrian comfort. Crowd density increased at known pinch points where pedestrian and cyclist movements intersected, and cyclists were required to travel through dense pedestrian flows. At points 8 and 7, pedestrian comfort levels were low, as cyclists frequently adjusted their paths around pedestrians and street furniture, resulting in reduced available space and more complex navigation for those on foot. The combination of high user volumes and constrained spatial width generated recurrent localised crowding, especially at building corners, bollards, and the carriageway connections where pedestrian and cyclist routes converged.

Pedestrians were the highest users of this space at **91.6%** (18,333) with private cycles next at **4.6%** (917). Altogether users accounted for **20,015** on average daily.

Composition of All User Classes:



Proportion of Pedestrians to Cyclists/Scooters:

91.6% Pedestrians

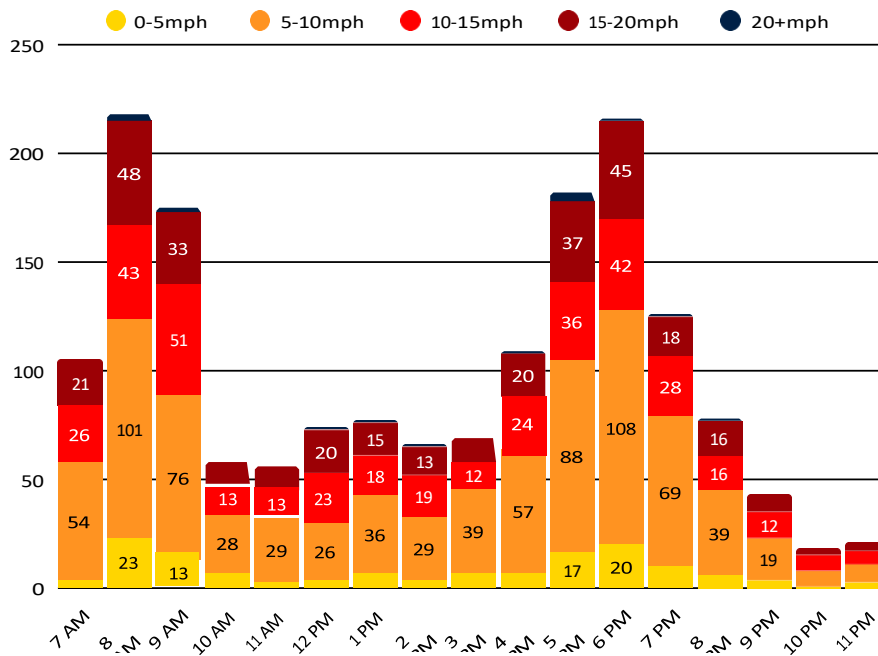
8.4% Cyclists and Scooters

| Class | | |
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SAFETY

Majority of users (**56%**) were cycling at or below **10mph**. The noticeable peaks in cycle volumes were between **8am-9am** and **6pm-7pm**.

Daily average counts of cyclists by speed ranges



Percentages of cyclists by speed ranges

| Speed | Percentage |
|-----------|------------|
| 0-5 mph | 8% |
| 5-10 mph | 48% |
| 10-15 mph | 23% |
| 15-20 mph | 20% |
| 20 mph + | 1% |

SAFETY

Interactions between people walking and cycling were generally low in severity. We used two complementary methods to assess them: **on-site** observations recorded **45 interactions** during a one-day visit, and a three-day **camera** survey recorded **311 interactions**. The camera data provides overall context, while the on-site observations validate these findings and add qualitative insight; both are summarised in the following sections.

Camera Survey Findings (3 Days)

Throughout the three-day camera survey, a total of **311** interactions were recorded, resulting in an average of **104*** interactions per day.

All interactions were within the **A** and **B** grading, with **91** daily instances falling in early change of direction or slowing down and **12** in negotiation or inconvenience. The interactions mainly occurred between pedestrians and cyclists (**97.7 %**).

Average daily counts of interactions:

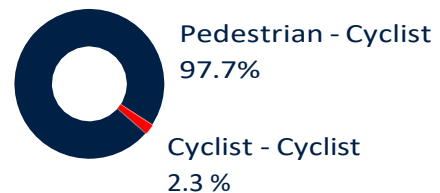
91

A - Early change of direction or slowing down

12

B - Negotiation or inconvenience

Classes involved in interactions:



*the three-day total counts of conflict is as below:

Total - 311 (average \approx 103.6 per day):

- A - Early change of direction or slowing down: 274 (Average \approx 91.3 per day)
- B - Negotiation or inconvenience: 37 (Average \approx 12.3 per day)

On-Site Observations (1 Day)

A total of **45** interactions were documented during the site visit. Most fell within **A** and **B** grading, with a smaller number of grade **D** late swerves and a few near-misses observed. These on-site observations helped identify spatial conditions where interactions tended to occur, particularly at corners where pedestrian and cyclist routes converge and in areas where pedestrians naturally congregate but the current design does not fully accommodate this movement. These areas are located at point 1 on the plan at either end of Little Britain.

Daily counts of interactions:

20

A -
Early change
of direction or
slowing down

13

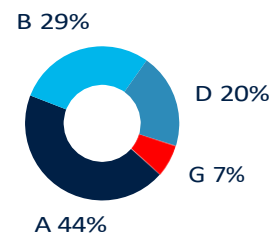
B -
Negotiation or
inconvenience

9

D -
Late swerve /
change of
direction

3

G -
Near miss

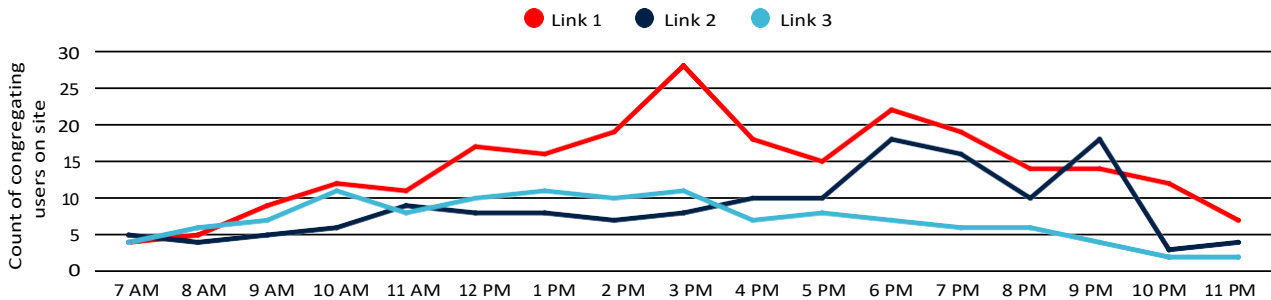


SAFETY OBSERVATIONS

On-site observations validated the interaction patterns recorded by the camera survey, with both methods showing the same overall trends. The number and severity of interactions between people walking and cycling were generally low, particularly given the volume of users. However, several safety concerns were identified, mainly related to pedestrian–cyclist interactions and unclear spatial hierarchies. A small number of near misses occurred near hospital entrances and at corner locations where routes converge (points 1, 7 and 4). Corners often acted as informal congregation points (points 1, 2 and 7), but the current design does not accommodate this, at times increasing collision risk. Ambiguous shared-space markings and overlapping desire lines also contributed to uncertainty and conflict at points 3 and 4. At the northern end, the shared crossing at West Smithfield (point 8) illustrates these issues: pedestrians from Rotunda Gardens and cyclists entering or leaving the carriageway meet at a narrow dropped kerb, creating a bottleneck that brings users into close proximity and occasionally diverts them into the carriageway. Immediately south of the crossing, the northern gateway narrows between bollards and building corners, and a similar pinch point appears at the southern end of Little Britain (point 4), where narrowed approaches lead pedestrians and cyclists directly onto the carriageway.

LAYOUT

Average daily count of users congregating on site:



LAYOUT OBSERVATIONS

The current layout presents limited spatial legibility, with several design features contributing to inefficient movement patterns. The central area containing the “From Thames to Eternity” installation, located within the shared surface, provides minimal zoning cues and is used infrequently relative to its available area. The adjacent “Thames Stone” area (point 6) shows similarly low levels of occupation, indicating potential for reconfiguration to support clearer public-realm functions. At point 7, street furniture placement affects movement efficiency: fixed chairs are positioned close to pedestrian desire lines, and a bike stand partially obstructs a frequently used route at the north-west corner, where pedestrian activity is concentrated. The shared-surface context offers no distinct visual separation between dwelling zones and primary movement routes, reducing intuitive wayfinding. Additional constraints, such as narrow passage points, bollards, and abrupt kerb transitions, create localised pinch points and increase interaction between users.

Adjusting cycle alignments and repositioning street furniture would help clarify movement hierarchies, improve spatial legibility, and align the layout more closely with observed patterns of pedestrian and cyclist use.

USER AWARENESS OBSERVATIONS

Observations revealed that unclear surface treatments, markings, and signage at points 1, 7 and 8 contribute significantly to uncertainty about the intended function of different parts of the space. Many users appeared unsure whether they were in pedestrian-priority or shared-use zones. As a result, informal desire lines have developed, reflecting the practical movement choices of users rather than the intended layout. Cyclists often followed routes that cut tangentially across pedestrian areas, while pedestrians gravitated towards the most direct paths regardless of formal demarcations. This behaviour highlights a mismatch between design intent and actual user behaviour. The central art installation area also suffers from low visibility and a lack of attractive features, which limits its potential as an inviting public zone, acting as an obstacle during periods of high traffic flows.

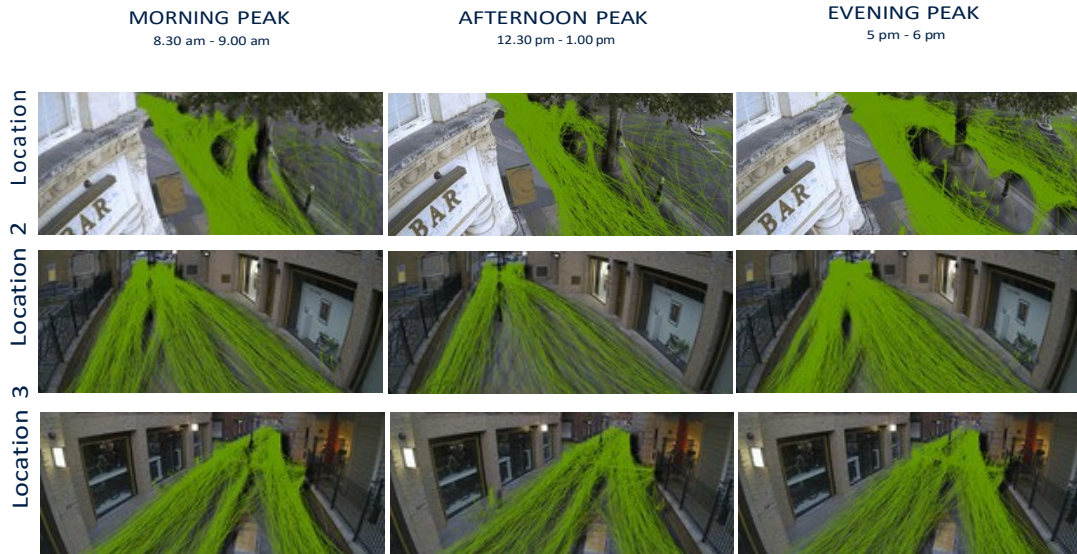
ACCESSIBILITY OBSERVATIONS

Accessibility across the site is limited by several physical and spatial constraints. Narrow dropped kerbs at points 8 and 4 reduce the ease of movement for wheelchair users, people with pushchairs, and individuals with limited mobility. Street furniture and cycle stands at point 7 occupy space within established pedestrian desire lines, resulting in detours and reduced permeability. The absence of clear differentiation within the shared-space markings may also limit use by individuals who rely on stronger visual cues, including some users with visual impairments. Taken together, these conditions reduce overall inclusivity and constrain the site's performance as an accessible public environment.

USEABILITY

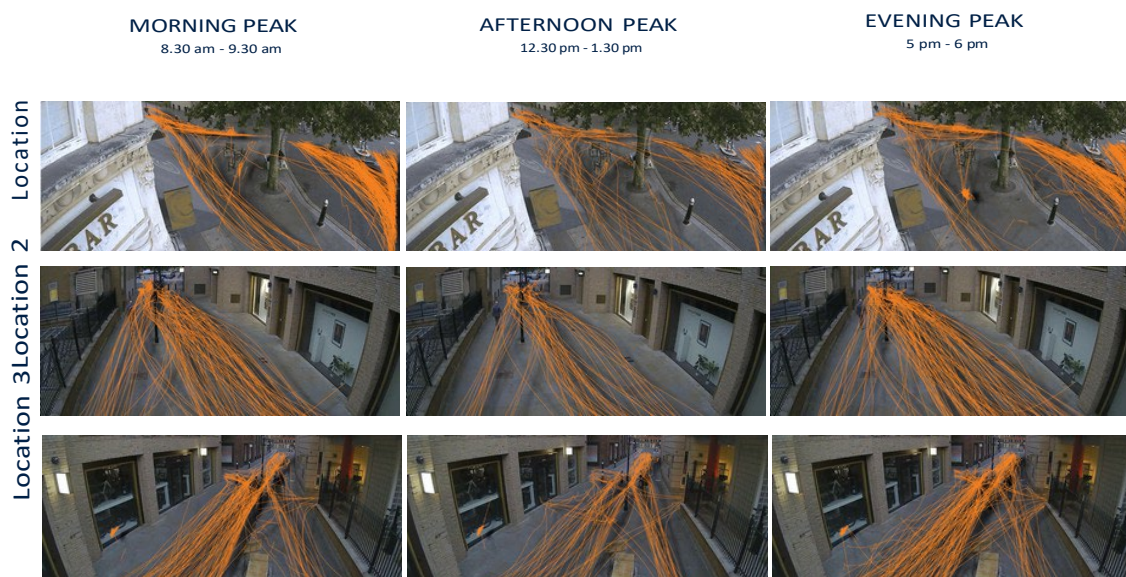
Desire Lines for Pedestrians

Due to the high pedestrian volumes, a 30-minute interval during peak periods was selected to present the pedestrian desire lines more clearly.



At location 1, pedestrian activity was concentrated along the building's footpath. At locations 2 and 3, trace lines were distributed almost evenly across the site (excluding gaps caused by obstacles), indicating that pedestrians make extensive use of the entire area.

Desire Lines for Cyclists



Cyclists at location 1 predominantly used the road link rather than the footpath. At locations 2 and 3, activity was concentrated on the east side of the

USEABILITY OBSERVATIONS

Distinct pedestrian and cyclist desire lines have clearly emerged over time, diverging significantly from the formal layout. These informal routes demonstrate how users are negotiating the space to meet their practical needs rather than following designed pathways. However, many of these paths intersect at constrained areas at point 1, either end of Little Britain, which correlate closely with the observed conflict hotspots. The current design does not adequately accommodate these natural movement patterns, leading to inefficient and sometimes unsafe interactions. Realigning street furniture, clarifying route separation, and reconfiguring gathering areas could improve overall usability, making the space more intuitive and responsive to user behaviour.

RECOMMENDATIONS

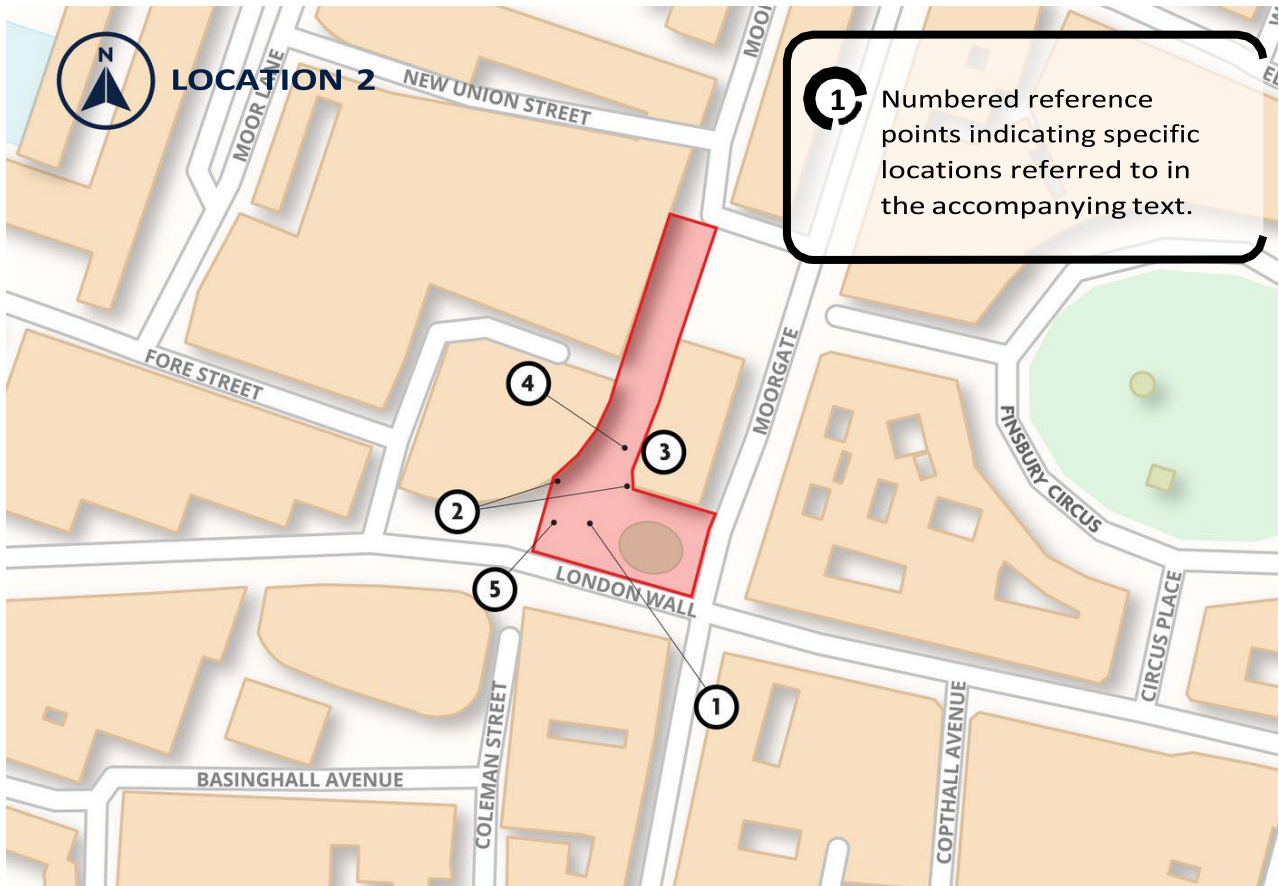
The site presents several recurring issues that should be addressed to improve safety, circulation, and user experience:

1. **Conflict zones** – Narrow passages, corners, and bottlenecks create repeated points of tension between pedestrians and cyclists. These areas should be prioritised for interventions such as better signage, surface treatments, or subtle physical separation.
2. **Spatial clarity and desire lines** – Ambiguous spatial organisation within the “From Thames to Eternity” area reduces usability, as current layouts do not fully align with observed pedestrian and cyclist desire lines. Refining the arrangement to better reflect natural movement patterns and clarifying shared-space markings would improve legibility, efficiency, and safety.
3. **Street furniture and obstacles** – Fixed chairs, bike stands, and bollards currently obstruct desire lines and crossings. Repositioning or redesigning furniture could improve flow and reduce conflict.
4. **Opportunities for public space enhancement** – Natural congregation points could be reimaged with seating or greenery to encourage safer, more comfortable use. The central zones present opportunities for active public engagement and aesthetic enhancement.



LOCATION 2 - MOORFIELDS

SITE OVERVIEW MAP



OBSERVATIONS AND DATA REVIEW



The Moorfields site is a pedestrianised area located outside of Moorgate Underground Station with a variety of retail, hospitality and outdoor seating areas. The site experiences significant numbers of pedestrian foot traffic and is a key link into the city via the Elizabeth line.



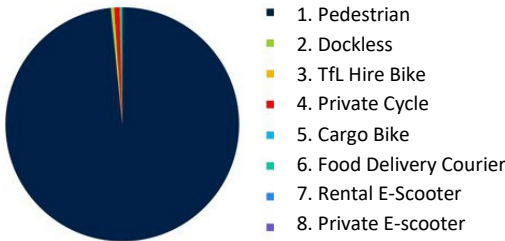
Site observations were carried out during periods of poor weather, including showers and strong winds.

COMFORT

The area generally exhibits high pedestrian comfort levels (PCLs), supported by adequate seating, planters, and designated congregation areas, particularly in the southern portion of the zone. During busy afternoon periods, PCLs decrease due to increased pedestrian and cyclist volumes, resulting in localized crowding and reduced clear-path widths. The proximity of cafés and other activity generators further concentrates foot traffic, identifying specific times and locations where circulation management interventions could improve comfort levels for all user groups.

Pedestrians were the largest user group of this space at **98.4%** (143,376) with private cycles next at **0.77%** (1131). Altogether users accounted for **145,705** on average daily.

Composition of All User Classes:



Proportion of Pedestrians to Cyclists/Scooters:

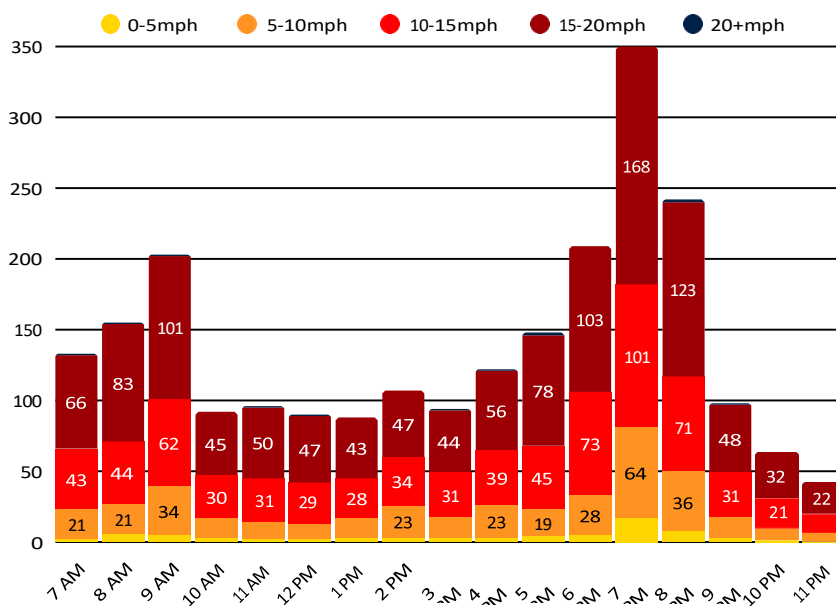
98.4% Pedestrians **1.6%** Cyclists and Scooters

| Class | | |
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SAFETY

Almost half of cyclists (**49.6%**) travelled at speeds between **15-20mph**. The noticeable peaks in cyclist volumes were between **9am-10am** and **7pm-8pm**. This site has comparatively **higher usage**, with slightly later peaks relative to commuter traffic.

Daily average counts of cyclists by speed ranges



Percentages of cyclists by speed ranges

| Speed | Percentage |
|-----------|------------|
| 0-5 mph | 3.10% |
| 5-10 mph | 15.60% |
| 10-15 mph | 31.10% |
| 15-20 mph | 49.60% |
| 20 mph + | 0.50% |

SAFETY

Interactions between people walking and cycling were generally low in severity. We used two complementary methods to assess them: **on-site** observations recorded **21 interactions** during a one-day visit, and a three-day **camera** survey recorded **896 interactions**. The camera data provides overall context, while the on-site observations validate these findings and add qualitative insight; both are summarised in the following sections.

Camera Survey Findings (3 Days)

Throughout the three-day camera survey, a total of **896** interactions were recorded, resulting an average of **299** interactions per day.

Interactions were within the **A, B** and **E** grading with **292** instances daily falling in early change of direction or slowing down and **6** in negotiation or inconvenience. **1** instance of sudden stop with grading **E** was recorded as well. Almost all interactions occurred between pedestrian and cyclist (**99.9%**).

Average daily counts of interactions:

292

A - Early change of direction or slowing down

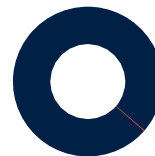
6

B - Negotiation or inconvenience

1

E - Sudden stop

Classes involved in interactions:

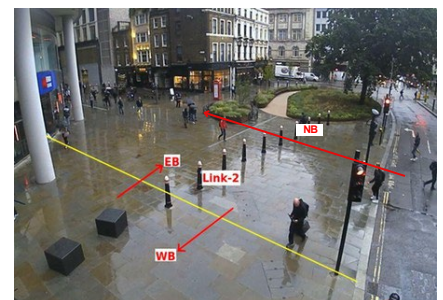


Pedestrian - Cyclist
99.9%

Cyclist - Cyclist
0.1%

E - Sudden Stop details:

- Took place on 3rd of September between a cyclist and a pedestrian at almost 7pm (18:59:58).
- The incident occurred when the pedestrian was walking westbound and the cyclist was heading northbound from the London Wall crossing.
- This resulted in a sudden stop by the pedestrian to avoid a collision.



On-Site Observations (1 Day)

A total of **21** interactions were documented during the site visit. Most fell within **A** grading where cyclists had an early change of direction or began to slow down to minimise conflict with pedestrians. What was significant was that a near miss and a collision were observed whilst on site. The site area presents a particular challenge for pedestrians and cyclists given the vicinity to a busy transport hub and crossing point.

Daily counts of interactions:

16

A -
Early change
of direction or
slowing down

1

B -
Negotiation or
inconvenience

2

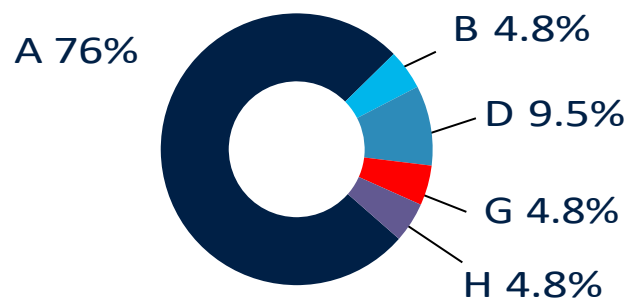
D -
Late swerve /
change of
direction

1

G -
Near miss

1

H -
Collision



H - Collision details:

- Took place on 3rd of September between a cyclist and a pedestrian. The collision was relatively slow and occurred due to lack of attention from both cyclist and pedestrian.
- The incident occurred when the pedestrian was walking southbound and the cyclist was heading northbound from the crossing at point 1 on the plan.

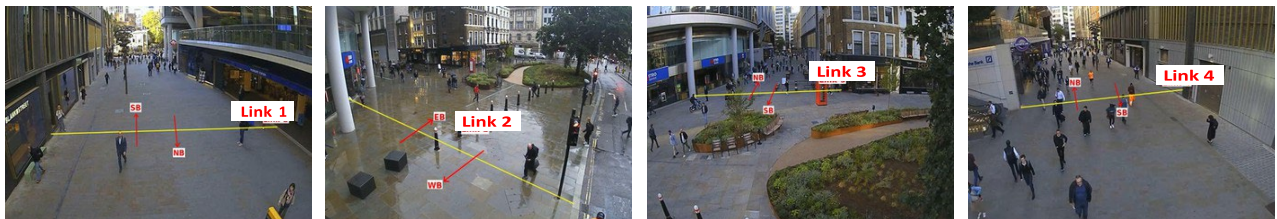
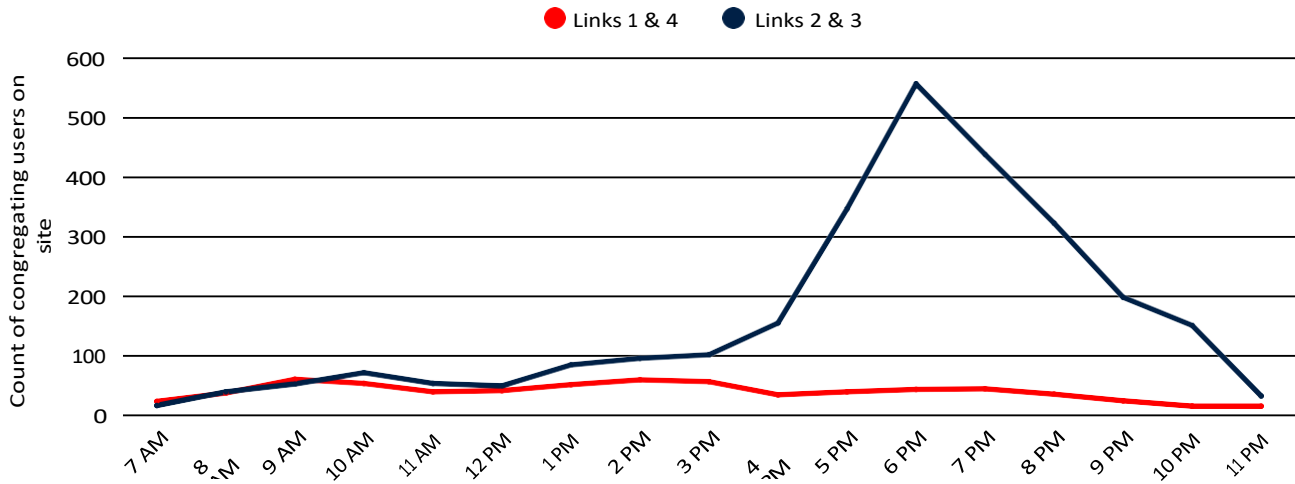
SAFETY OBSERVATION

Overall the number and severity of interactions recorded by a team on site between people walking and cycling was low, particularly given the number of people using this space.

Pedestrians were observed to be the dominant user group throughout the area, but many appeared unaware of nearby cyclists, creating potential conflict in shared spaces. Certain corners (point 2 on the map) emerged as tension points where pedestrian and cyclist movements intersected, highlighting a need for targeted safety interventions. Cafés (point 4) spilling into pedestrian zones added to the risk, as users stepping into circulation areas were often unaware of passing cyclists travelling north and south, increasing the likelihood of near misses. This was also the case when observing pedestrians frequenting the local pub (point 3). Drinkers often congregated outside of the pub and would regularly form large groups (point 4) that would obstruct footways and contribute to pedestrian and cyclist conflict. Overall, while the space functions effectively for pedestrians, these shared-use interactions indicate a need for design adjustments to mitigate conflict and enhance safety.

LAYOUT

Average daily count of users congregating on site



LAYOUT OBSERVATIONS

The general layout of the area demonstrates a relatively successful public realm intervention, with well-defined congregation points and a mix of functional elements such as seating and planters (point 5). However, some aspects of circulation require attention. Pedestrian seating located near bollards at point 5 interacts closely with entry paths at the adjacent point 1 crossing point, potentially affecting pedestrian flow. The interface between pedestrian areas and the road includes changes in paving, but in several locations it is unclear whether these are intended as shared zones or formal crossings, which reduces spatial clarity. The middle and northern sections of the zone appear underutilised and lack clearly defined gathering or movement spaces, representing opportunities for redesign and enhancement, including the introduction of “genius loci” moments to reinforce the character of the space.

USER AWARENESS OBSERVATIONS

Observations suggest that many users are not fully aware of cyclists within the shared space particularly around point 1, leading to potential conflicts. Ambiguity in the pedestrian/road interface and unclear spatial cues reduces users' understanding of how to navigate the area safely. Improving visibility, signage, or surface treatments could enhance user awareness and promote safer interaction between pedestrian and cycling flows. Clearer designation of high-traffic pedestrian and cyclist routes around points 1 and 5 would also help users anticipate movements and reduce friction in shared zones.

ACCESSIBILITY OBSERVATIONS

While the area generally supports pedestrian movement, certain layout elements affect accessibility (point 5 seating and bollards). Seating positioned near entry points and bollards may impede circulation for users with reduced mobility or larger prams. The lack of clearly defined crossings where pedestrian areas meet roads may present challenges for less confident or visually impaired users. Overall, accessibility could be improved by ensuring key desire lines remain unobstructed and by addressing the northern transition where the pedestrian zone meets the curved carriageway.

USABILITY

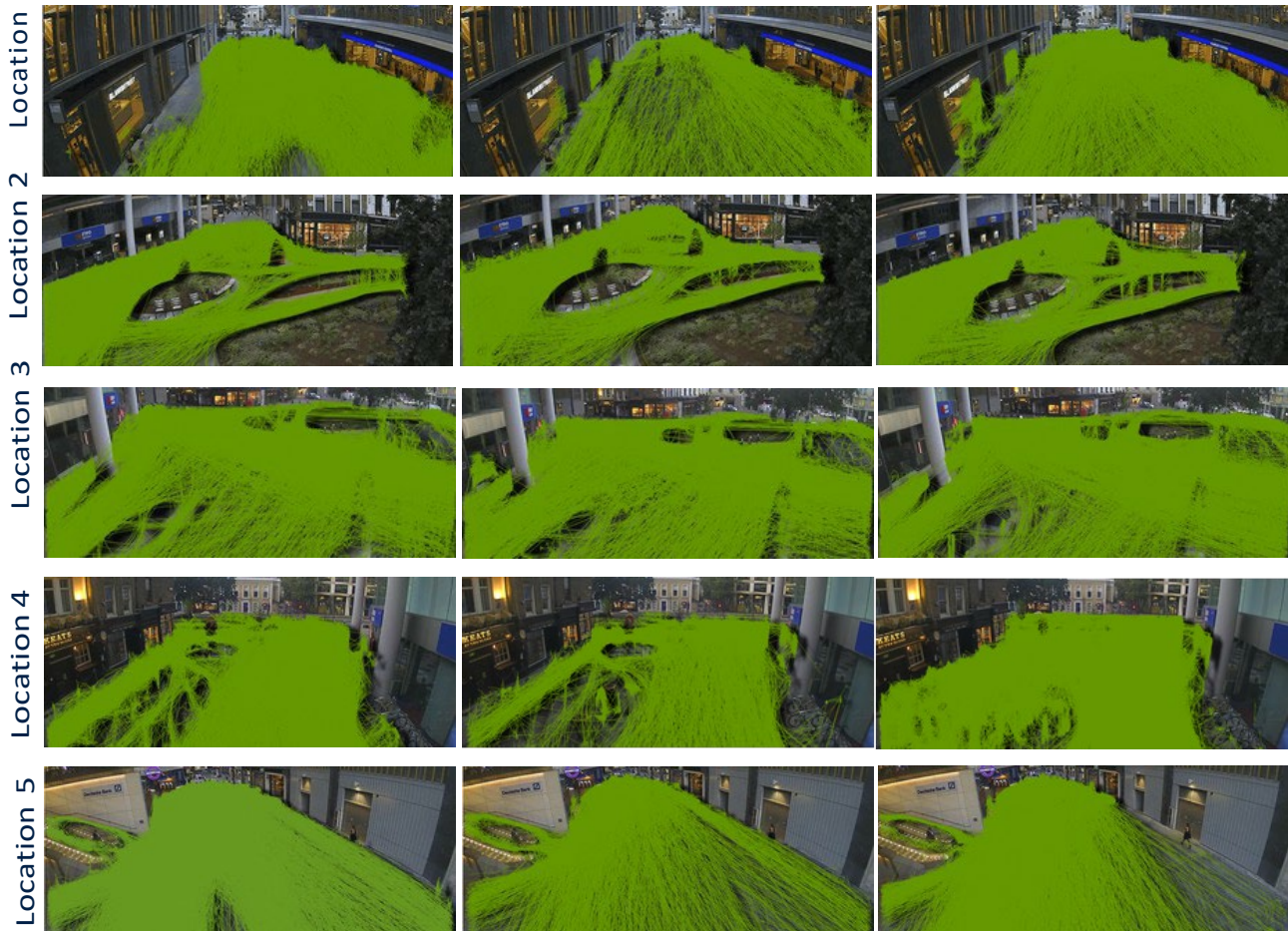
Desire Lines for Pedestrians

Due to the high pedestrian volumes, a 30-minute interval during peak periods was selected to present the pedestrian desire lines more clearly.

MORNING PEAK
8.30 am - 9.00 am

AFTERNOON PEAK
12.30 pm - 1.00 pm

EVENING PEAK
5.00 pm - 5.30 pm



Overall, all locations experience high levels of pedestrian activity. During the afternoon peak hour, a larger concentration of people was observed around the pub (location 4). At location 1, increased interaction with the building opposite the station entrance can be noted as well during the afternoon and evening peak periods.

USABILITY

Desire Lines for Cyclists

MORNING PEAK
8.30 am - 9.30 am

AFTERNOON PEAK
12.30 pm - 1.30 pm

EVENING PEAK
5.00 pm - 6.00 pm



A higher volume of cyclists was observed along the road at location 3 during the evening peak hour. The bicycle stands near the station entrance (location 4) appeared to be frequently used. Overall, cycling activity at this site was relatively low, likely due to the high volume of pedestrian traffic.

USEABILITY OBSERVATIONS

The space demonstrates effective usability for pedestrians, with well-designed south-side congregation areas (point 1 and 5) that attract users and encourage lingering. Nonetheless, informal pedestrian flows and peak-time movement highlight areas where circulation could be optimised. Directing cyclists along the central axis of the zone would reduce interactions along edges and near building fronts (points 2 and 3), aligning user behaviour with safer, more efficient routes. Middle and northern sections offer opportunities for additional pedestrian congregation and design interventions, which could enhance both usability and the overall experience of the public realm.

RECOMMENDATIONS

The observed site presents several opportunities to improve safety, circulation, and user experience:

1. **Conflict zones** – Hot corners and pedestrian/cyclist interface points should be prioritised for design interventions such as surface treatments, subtle barriers, or improved signage.
2. **Clarity of shared space** – Areas where pedestrian zones meet the road require clear designation and possibly formal crossings to reduce ambiguity and near misses.
3. **Cyclist routing** – Introducing or marking a central cycling axis can help separate flows, reducing tension with pedestrians and improving overall safety.
4. **Congregation areas** – Existing seating and planter zones could be leveraged to enhance the character of the space while managing circulation, additional zones designed to the north and mid section.



QUEEN STREET

OBSERVATIONS AND DATA OVERVIEW

SITE OVERVIEW MAP



OVERVIEW OF OBSERVATIONS AND DATA AT QUEEN STREET



Queen Street is a particularly busy area. Observations were divided across two sites and a crossing point to ensure the data collected was representative, and could identify any specific problem areas.

Interactions surrounding pedestrians and cyclists were recorded across the whole of Queen Street as opposed to each site. Most common interactions between pedestrians and cyclists were cyclists changing direction early or slowing down. In total **36** interactions were recorded during our site visit across locations 3 and 4. Camera interactions over the three-day period are broken down in the following section for locations 3 and 4.

17

A -
Early change
of direction or
slowing down

6

B -
Negotiation or
inconvenience

7

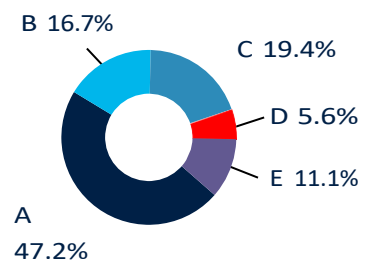
C -
Warning

2

D -
Late swerve
/ change of
direction

4

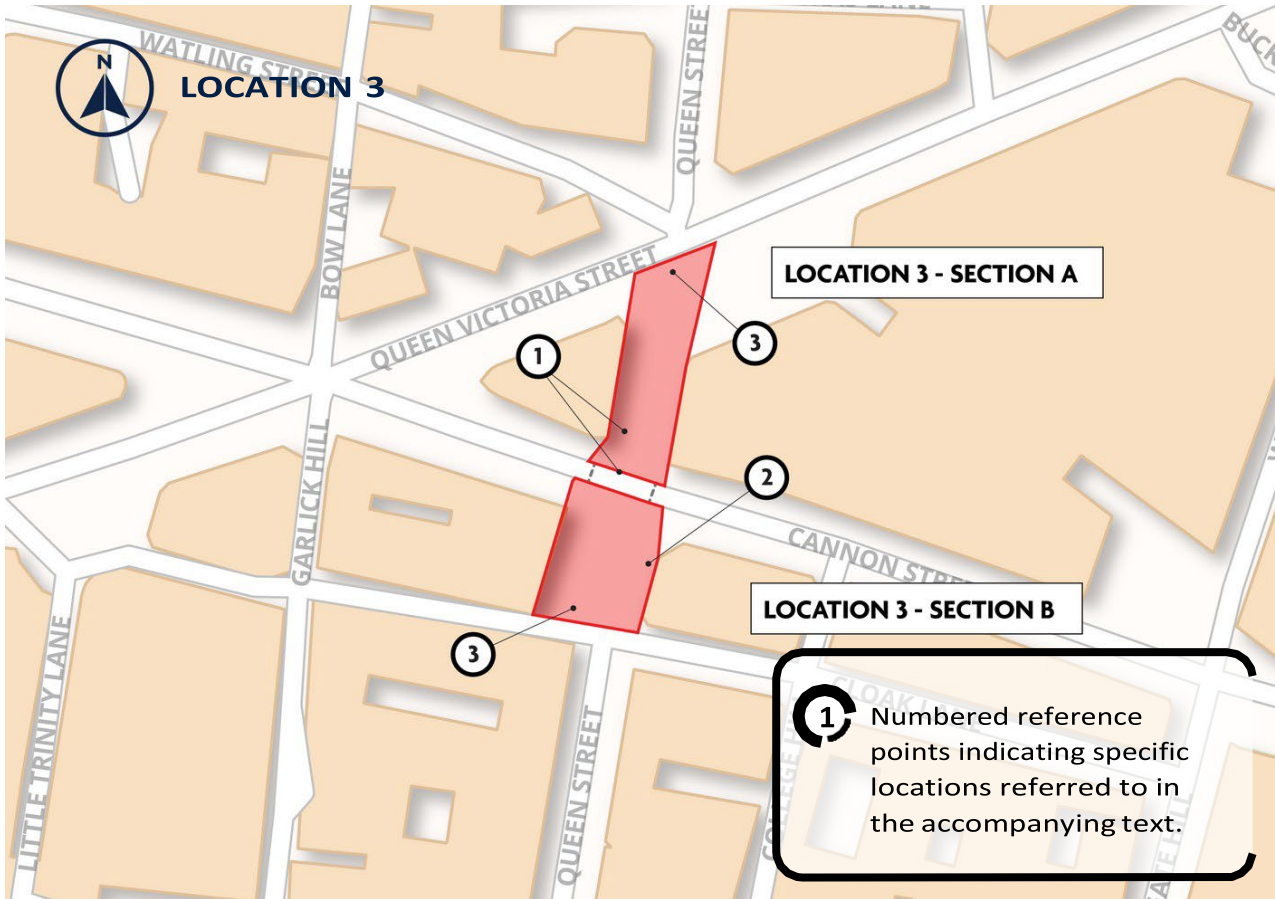
E
Sudden
stop





LOCATION 3 - QUEEN STREET

SITE OVERVIEW MAP



OBSERVATIONS AND DATA REVIEW



Queen Street location 3 is a pedestrianised area with significant foot traffic and commercial activity. Location 3 is located at the northern most section of Queen Street and is split into two sections:

- **Section A** – between Queen Victoria Street and Cannon Street
- **Section B** – between Cannon Street to Cloak Lane

These sections of the road are a key north to south corridor for cyclists and pedestrians.



Site observations were carried during a brief period of rain followed by sunny weather for the remainder of the observation period.

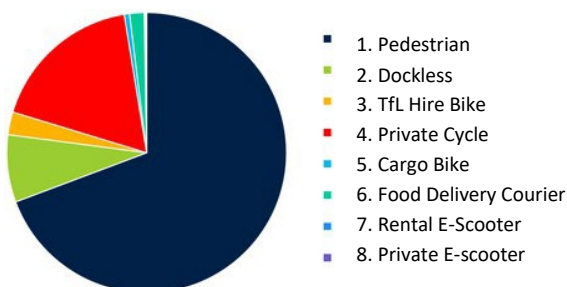
COMFORT

Pedestrian comfort levels (PCLs) in section A vary throughout the day, influenced by its proximity to the Sugar Loaf pub and the Cannon Street crossing. During quieter periods, PCLs are high, with sufficient space for movement and low interaction levels between users. In the late afternoon, PCLs decrease, particularly near the pub (point 1), as pedestrian density increases and crowding reduces available clear-path width. Interactions between pedestrians and cyclists also increase at these times; cyclists occasionally accelerate through gaps in pedestrian flow, contributing to elevated perceived risk, though overall user behaviour remains orderly. The hard-surfaced environment presents opportunities for additional greening, which could improve comfort and reduce the area's visual hardness.

In section B, PCLs are generally good, supported by open sightlines, limited street clutter, and seating near Pret (point 2). Pedestrian movement along the southbound alignment is confident, with some users extending into the carriageway at point 3 during peak periods. At the southern end, bollards and nearby building corners (point 3) reduce the effective width of the space, creating localised PCL reductions. These constraints occasionally lead to short-term bottlenecks and diversions into the carriageway, indicating areas where circulation improvements could enhance overall comfort.

The average daily user count over the survey period was 36,192. Pedestrians were the most common at 69.3% (25,079), followed by private cycles at 17.7% (6,418). The percentage of pedestrians versus other users on this site are slightly lower than the other sites.

Composition of All User Classes:



Proportion of Pedestrians to Cyclists/Scooters:

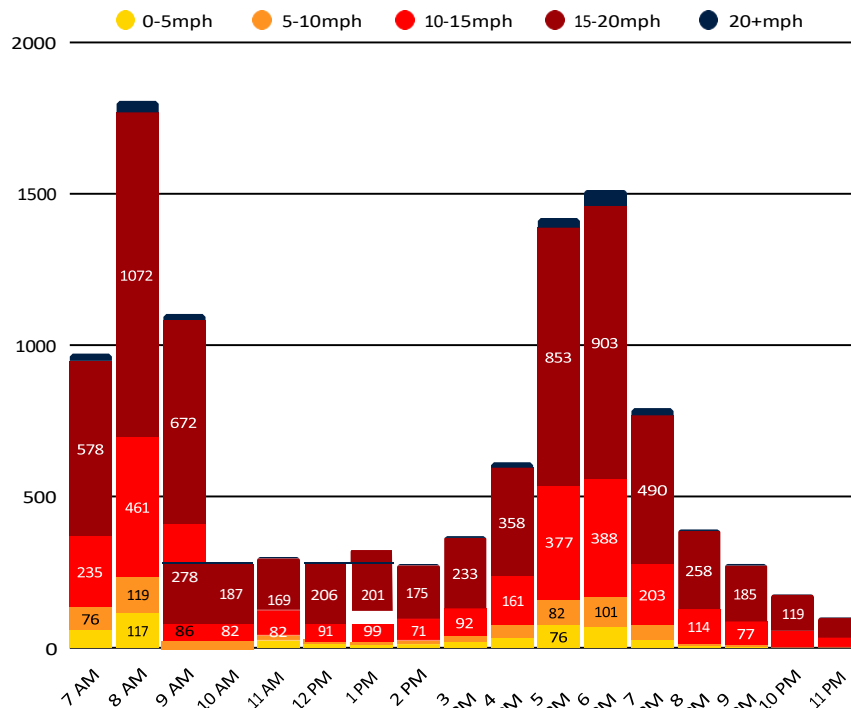
| | |
|--------------|-----------------------|
| 69.3% | 30.7% |
| Pedestrians | Cyclists and Scooters |

| Class | Average Daily Volume | Percentage |
|------------------------------|----------------------|-------------|
| 1. Pedestrian | 25,079 | 69.3% |
| 2. Dockless | 2,813 | 7.8% |
| 3. TfL Hire Bike | 950 | 2.6% |
| 4. Private Cycles | 6,418 | 17.7% |
| 5. Cargo Bike | 222 | 0.6% |
| 6. Food Delivery Courier | 612 | 1.7% |
| 7. Rental E-Scooter | 51 | 0.1% |
| 8. Private E-Scooter/Scooter | 47 | 0.1% |
| Average Daily Total | 36,192 | 100% |

SAFETY

The speed of majority of cyclists (**60.6%**) stayed between **15-20mph**. This site has comparatively higher cyclists speed. The noticeable peaks in daily count of cyclists on site were between **8am-9am** and **5pm-7pm**.

Daily average counts of cyclists by speed ranges:



Percentages of cyclists by speed ranges

| Speed | Percentage |
|-----------|------------|
| 0-5 mph | 5.0% |
| 5-10 mph | 6.0% |
| 10-15 mph | 26.1% |
| 15-20 mph | 60.6% |
| 20 mph + | 2.2% |

SAFETY

Camera Survey Findings (3 Days)

Throughout the three-day camera survey a total of **618** interactions were recorded in three days, resulting in an average of **206** interactions per day. Most daily interactions were lower-severity (Grades **A** and **B**), averaging **142** early direction changes or slowing events and **62** negotiation or inconvenience cases, with only **2** higher-severity Grade **D** instances involving late swerves or direction changes. **All interactions** occurred between pedestrian and cyclist.

Average daily counts of interactions:

Classes involved in interactions:

142

A - Early change of direction or slowing down

62

B - Negotiation or inconvenience

2

D - Late swerve/change of direction



Pedestrian - Cyclist
100%

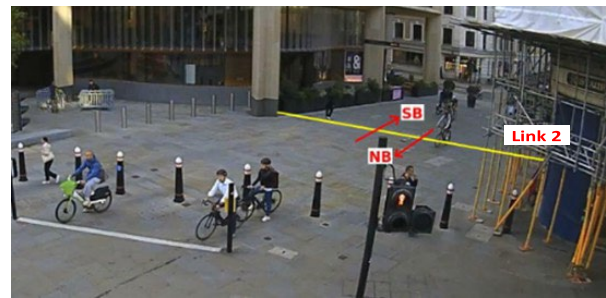
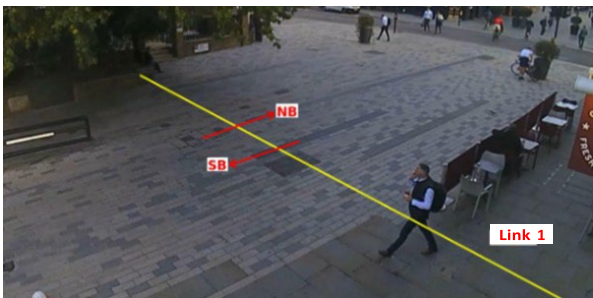
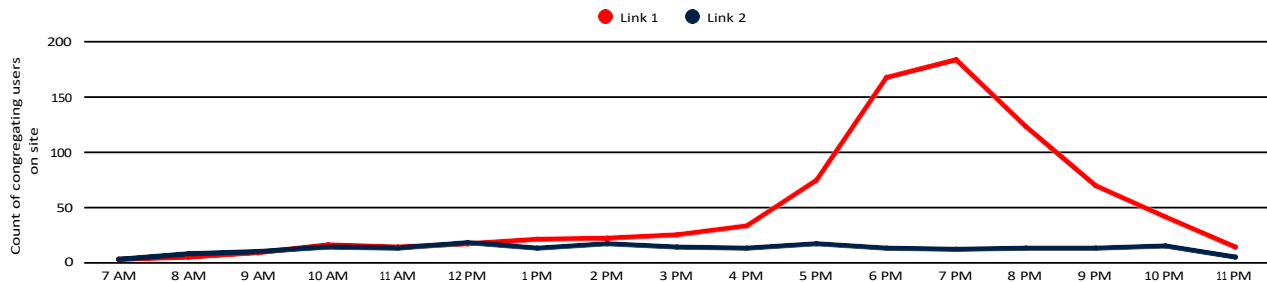
SAFETY OBSERVATIONS

In Section A, safety concerns are concentrated around the Cannon Street crossing and the shared space near the Sugar Loaf pub (point 1). The close alignment of the cycle signals with the main pedestrian desire line causes both groups to occupy the same space simultaneously. When vehicles wait across the crossing, they block the pavement and compress the movement corridor, pushing pedestrians and cyclists closer together. In late afternoon, pub users spilling into the shared space further narrow circulation routes as commuter volumes rise. Although cyclists typically travel slowly and negotiate courteously, they accelerate when gaps appear, while pedestrians and delivery riders using phones add unpredictability and increase the likelihood of near misses.

In section B, concerns relate to narrow pinch points, bollards and unclear transitions between pedestrian and cycling zones (point 3). Several near misses occurred where heavy pedestrian flows met faster-moving cyclists, especially at blind corners. Ambiguous markings and limited signage create uncertainty about priority at point 3. Occasional vehicle blockage at the Cannon Street crossing also reduces pedestrian space and heightens tension where flows converge. Despite this, cyclists generally maintained low speeds. adapted well to pedestrian movement, helping to prevent serious incidents.

LAYOUT

Average daily counts of users congregating on site



LAYOUT OBSERVATIONS

In section A the layout is spacious and uncluttered but lacks clear definition of zones or priorities. The white line running through the shared space is poorly understood, and surface treatments do not effectively signal how the space should be used. The alignment between the traffic lights, pedestrian desire lines, and cycle routes is weak, particularly for northbound cyclists exiting the Cannon Street crossing, who must weave through east–west foot traffic at point 1.

The spatial arrangement at section B lacks coherence, with narrow sections and poorly placed street furniture disrupting natural pedestrian and cyclist paths. Bollards and planters restrict circulation at point 3, and the unclear delineation between shared and dedicated areas adds confusion.

Overall, although there is advisory shared space ground signage in section A next to the tactile paving at Cannon St crossing and on the Pret (point 2) in section B, this is insufficient to convey the intended use of space.

USER AWARENESS OBSERVATIONS

Awareness of other users varies across the space. A significant proportion of pedestrians navigate while using mobile phones rather than engaging with wayfinding totems, which reduces attention to surrounding movement. Some delivery cyclists are also observed using phones while travelling. Tourists and other infrequent visitors show lower familiarity with the layout, particularly in areas with limited visual cues around point 3. Regular commuters typically adjust their trajectories and walking speeds in line with pedestrian density, oncoming cyclists, and other changing conditions throughout the day.

In section B, user awareness is influenced by limited design cues that differentiate pedestrian and cycling areas. This contributes to uncertainty about intended movement routes and results in intermittent hesitation or irregular movement patterns. Regular commuters generally accommodate these conditions, while visitors and casual users show higher levels of uncertainty, particularly at intersections, near bollards at point 3, and around clusters of street furniture.

ACCESSIBILITY OBSERVATIONS

The space at section A is physically accessible due to its openness and flat surface, but accessibility is compromised when cars block crossings or when hire bikes are parked across pavements. The lack of tactile paving, kerb differentiation, or clear pedestrian priority at the crossing makes navigation harder for visually impaired users. The area is overall easy to move through, but greater clarity at transition points such as crossings would benefit those with mobility constraints or lower spatial confidence.

Accessibility issues at Section B relate to the raised table crossing at the southern end at point 3. Although it is step-free, its effective width is narrowed by the surrounding bollards and building corners so some users (including wheelchair and pram users) are funnelled toward the carriageway outside the table. In addition, café seating (Pret point 2) currently obstructs key pedestrian paths; a clearer, longitudinal seating zone set off the façade would reduce conflicts. Aligning the table with dominant desire lines, widening bollard distance, and tidying furniture layout would materially improve inclusive access.

USEABILITY

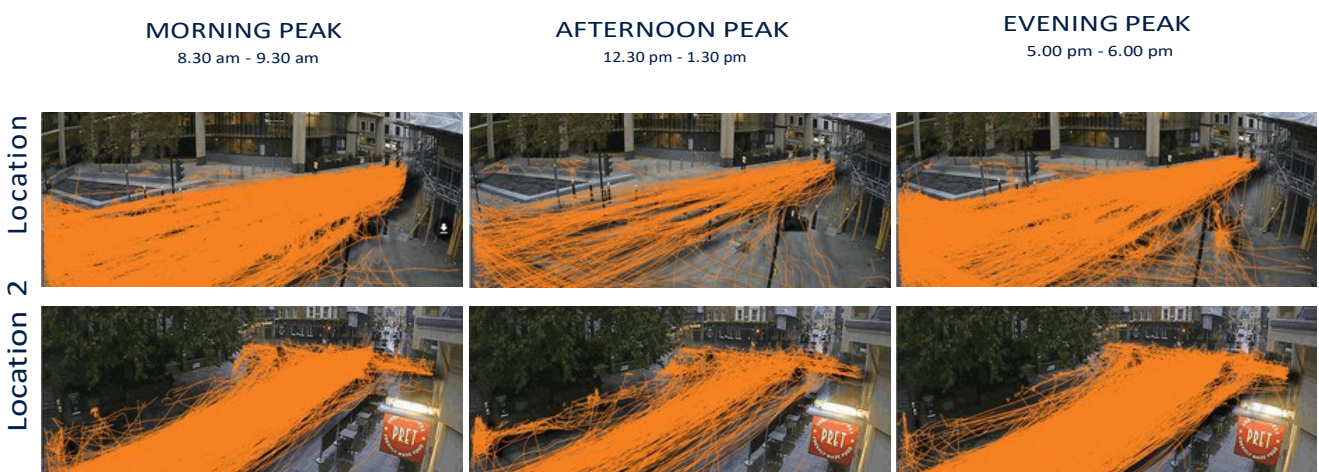
Desire Lines for Pedestrians

Due to the high pedestrian volumes, a 30-minute interval during peak periods was selected to present the pedestrian desire lines more clearly.



The site experiences consistently high pedestrian activity in all directions. Notably, during the afternoon peak hour, higher volumes of people passing through or congregating along the eastern side of the pathway (near the Pret) were observed, compared to the morning and evening peaks.

Desire Lines for Cyclists



The area is heavily used by cyclists throughout, so a single predominant path cannot be identified.

USEABILITY OBSERVATION

Section A supports fluid, adaptable movement patterns, but behaviour shifts depending on time of day. At midday, pedestrians dominate the central route; but by late afternoon, cyclists become more dominant in this zone, prompting pedestrians to divert via the Pret seating area at point 2 whilst cyclists cycle down the centre of the space. Despite these shifts, users coexist with little overt conflict, suggesting the shared-space concept is functioning but requires better design reinforcement. Setting back the cycle lights, clarifying surface markings, and formalising pub spill-out zones would strengthen usability and reduce conflict.

Distinct pedestrian and cyclist desire lines have emerged naturally at section B, but their intersections often coincide with conflict hotspots such as at the crossing and when navigating bollards. The lack of clear separation between travel modes and the presence of pinch points reduce overall efficiency of movement. Nonetheless, both groups navigate the space pragmatically, and the adaptable layout allows coexistence under moderate volumes with low conflict. Redesigning key zones to reflect real movement patterns particularly around corners and near cycle stands to provide more direct routes would improve overall usability and safety.

RECOMMENDATIONS

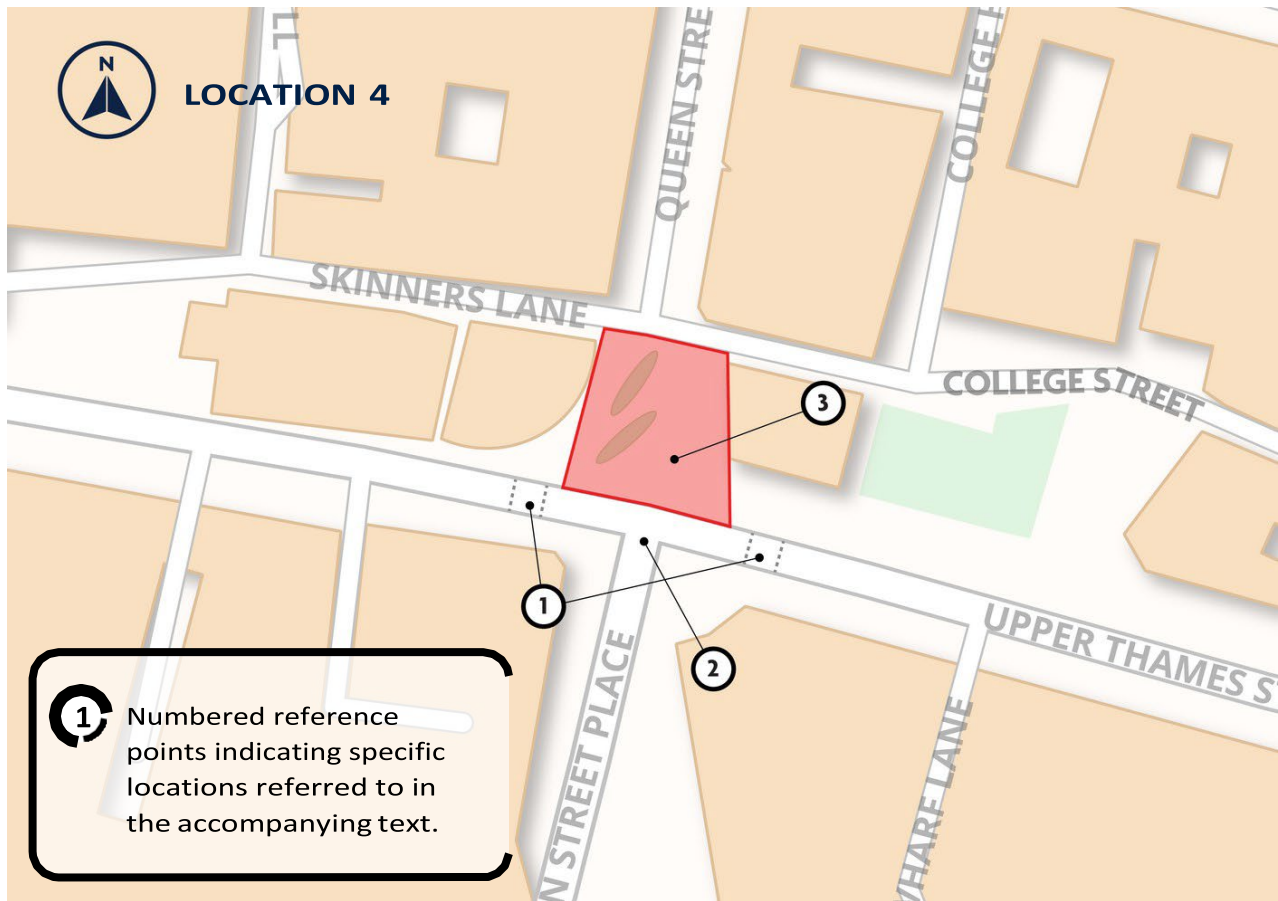
The observed site presents several opportunities to improve safety, circulation, and user experience:

1. **Clarify Movement and Priorities** - Improve alignment between pedestrian crossings, cycle routes, and traffic lights, particularly near Cannon Street, to reduce conflict. Introduce clearer surface markings and visible shared-space signage to signal user priorities and improve understanding.
2. **Enhance Safety Through Design Adjustments** - Set back cycle stop lines, manage vehicle encroachment onto crossings, and reconfigure pinch points to prevent pedestrians and cyclists from converging in the same narrow areas. Subtle surface treatments and tighter junction geometry can help moderate cycle speeds.
3. **Declutter and Redefine Space** - Reorganise street furniture, planters, and bollards, especially in section B, to open up circulation routes. Formalise pub spill-out areas using barriers and designate hire-bike parking bays to maintain clear pedestrian and cycling corridors.
4. **Improve Comfort and Accessibility** - Introduce shading, greening, and more seating in appropriate areas to enhance comfort. Add tactile paving, widened dropped kerbs and spacing between bollards and clear surfacing to support visually and mobility-impaired users, ensuring fully inclusive access.
5. **Align Design with Real User Behaviour** - Refine the layout to align with the primary desire lines running along the central axis, where most pedestrian and cyclist movement occurs. Peripheral areas could be more clearly zoned and designed to support secondary flows and dwelling without interrupting circulation. Connections between the pedestrian zones and adjoining carriageways should also be reconfigured to ease bottlenecks and better accommodate natural pedestrian paths that currently extend beyond the defined shared space. Light-touch design interventions and on-site trials could help test these adjustments before full implementation.



LOCATION 4 - QUEEN STREET SOUTH

SITE OVERVIEW MAP



OBSERVATIONS AND DATA REVIEW



Queen Street location 4 is a pedestrianised area with green infrastructure and wayfinding. It is part of the north-south Cycle Superhighway 7 which is a key route for cyclists commuting across the river, intersected by the east-west Cycle Superhighway 3 on Upper Thames Street.



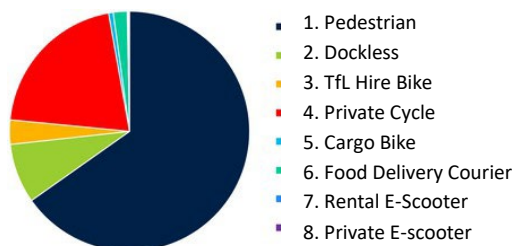
Site observations were carried during a brief period of rain followed by sunny weather for the remainder of the observation period.

COMFORT

User comfort in this space varied considerably depending on traffic flow. Cyclist numbers increased sharply in sync with light changes, resulting in bursts of high-speed movement across Upper Thames Street that made pedestrians visibly uncomfortable. During these periods, pedestrians were reluctant to use the central area (point 3) and instead waited or moved along the edges of the space at point 3. When cyclist numbers decreased, pedestrians reclaimed the space more confidently. The area also drew tourists and people stopping to check their phones, adding to congestion and occasional blockages. The correlation between increased volumes, particularly of cyclists, and more frequent negative interactions suggests that user comfort declines as cyclist density and speed rise.

The average daily user count over the survey period was 37,323. Pedestrians were the most common at **65.2%** (24,344), followed by private cycles at **20.7%** (7,711). The percentage of pedestrians versus other users are slightly lower than the other sites.

Composition of All User Classes:



Proportion of Pedestrians to Cyclists/Scooters:

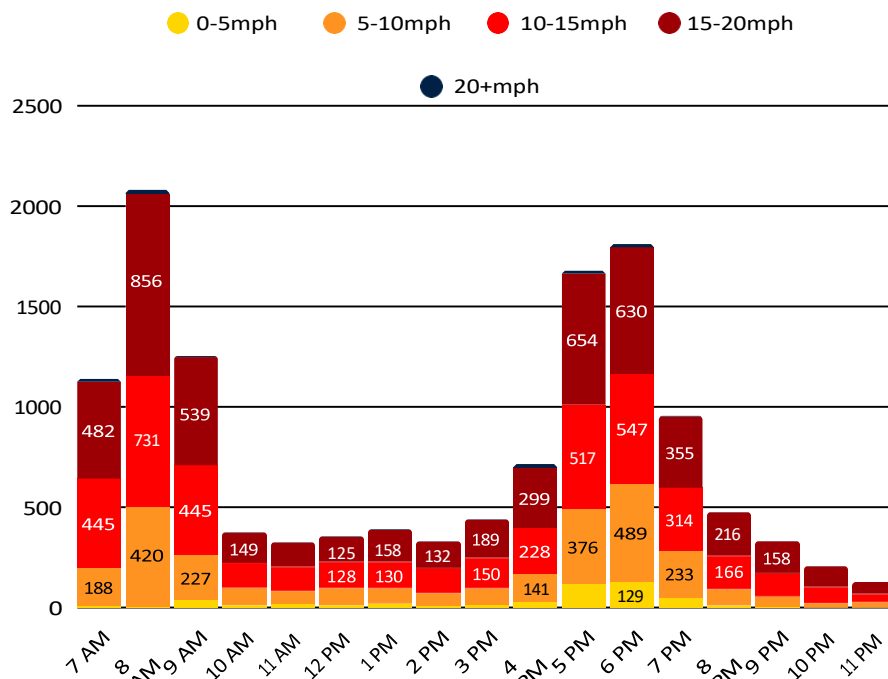
65.2% **34.8%**
Pedestrians Cyclists and Scooters

| Class | | |
|-------|--|--|
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SAFETY

Majority of cyclists (**40.2%**) had speed between **15-20mph**. The noticeable peaks in daily counts of cyclists were between **8am-9am** and **5pm-7pm**. This site comparatively has a higher cyclists speed but slightly lower than the central section of Queen Street.

Daily average counts of cyclists by speed ranges



Percentages of cyclists by speed ranges

| Speed | Percentage |
|-----------|------------|
| 0-5 mph | 4.1% |
| 5-10 mph | 20.9% |
| 10-15 mph | 33.9% |
| 15-20 mph | 40.2% |
| 20 mph + | 0.8% |

SAFETY

Camera Survey Findings (3 Days)

Throughout the three-day camera survey a total of **243** interactions were recorded, resulting in an average of **81*** interactions per day.

The interactions were within the **A** and **B** grading with **19** daily instances falling in early change of direction or slowing down and **62** in negotiation or inconvenience. The interactions mainly occurred between pedestrians and cyclists (**99.6%**).

Average daily number of interactions:

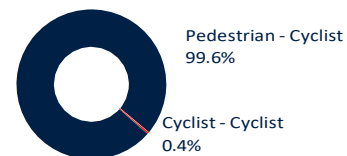
Interactions between user classes:

19

**A - Early change
of direction or
slowing down**

62

**B - Negotiation or
inconvenience**

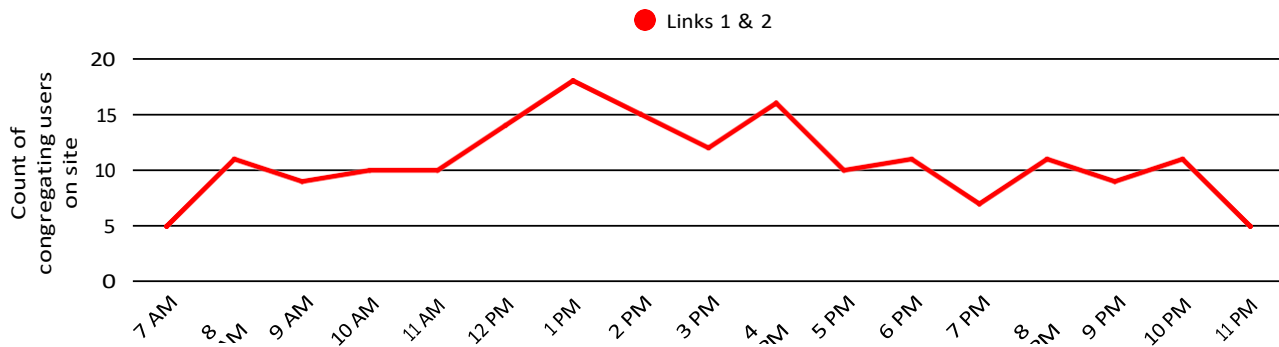


SAFETY OBSERVATIONS

Location 4 presents greater safety challenges compared to location 3. It is the most segregated in character, yet records more severe interactions between user groups, particularly as cyclists are often released in waves by the traffic lights and tend to travel at speed across Upper Thames Street (point 2 to point 3). A key safety concern is the unofficial desire line, at the southern end, used by cyclists travelling southbound on Queen Street bypassing lights at the junction with Upper Thames Street if they are turning west onto Upper Thames Street. This directly conflicts with pedestrians who have a green light to cross at point 1. When lights change, several instances were observed of cyclists attempting to proceed while pedestrians were still crossing. Additionally, bell use was most frequent here, indicating moments of tension. Although east-west pedestrian conflict is limited due to the pavement ending on the western side of the site.

LAYOUT

Average daily counts of users congregating on site



LAYOUT OBSERVATIONS

This site is the most segregated of the three shared spaces, with cyclists and pedestrians generally occupying distinct zones, although this segregation is more behavioural than formal. Cyclists move quickly, often in waves released by the traffic lights, while pedestrians tend to hug the walls or avoid the central space when bikes are present. The central zone functions as a pedestrian crossing, with people pausing to look left and right before stepping out, and stepping into the centre only when the path is clear.

Pedestrian east–west flows are minimal because the pavement ends on the western side, limiting cross-movement in that direction. However, the current layout still enables cyclists to enter the pedestrian zone to turn right and avoid the junction. Minor design adjustments to the bollard placement or surface cues could discourage this movement while maintaining permeability for all users.

LAYOUT OBSERVATIONS CONTINUED

The site lacks shared-space signage, leaving its function ambiguous. While the bike stop line and lights generally work well holding cyclists back and keeping the pavement clear for pedestrians, tensions arise when lights change and cyclists attempt to proceed while pedestrians are still crossing. Tourists stopping to take photos and pedestrians checking phones rather than using embedded markers further disrupt the flow.

The layout supports functional segregation, but the lack of clear visual cues and the presence of informal desire lines generate occasional conflict and uncertainty for both pedestrians and cyclists.

USER AWARENESS OBSERVATIONS

Observations indicated a general lack of awareness regarding the shared nature of the space. There were no visible signs or markings to communicate that pedestrians and cyclists were meant to coexist. As a result, cyclists treated the space as a dedicated route, while pedestrians viewed it as a crossing point, often exercising caution before stepping in. The absence of wayfinding cues, such as directional signs or clear surface markings, contributed to confusion, particularly among tourists and first-time visitors. Several pedestrians appeared lost or distracted, sometimes stopping mid-route to check phones or take photographs. Certain areas, such as the central section used by faster-moving cyclists, were largely avoided by pedestrians, suggesting perceived danger or discomfort.

ACCESSIBILITY OBSERVATIONS

The layout and user behaviour together influenced accessibility across the space. While cyclists could move efficiently when the lights turned green, pedestrians with mobility challenges or slower reaction times would find it difficult to navigate the space safely. The speed and dominance of cyclists effectively reduced accessibility for vulnerable users. Physical obstacles such as bollards and the large concrete planters, although intended to organise movement, sometimes constrained pedestrian flow. The absence of clear separation markings and tactile surfaces may also hinder users with visual impairments, contributing to sections that feel impassable or unsafe at times.

USEABILITY

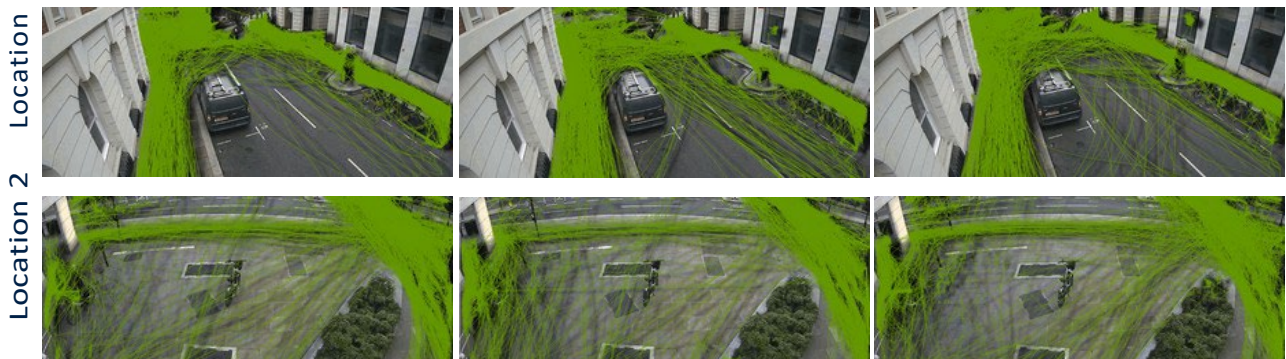
Desire Lines for Pedestrians

Due to the high pedestrian volumes, a 30-minute interval during peak periods was selected to present the pedestrian desire lines more clearly.

MORNING PEAK
8.30 am - 9.00 am

AFTERNOON PEAK
12.30 pm - 1.00 pm

EVENING PEAK
5.00 pm - 5.30 pm



At location 1, pedestrians primarily used the footpaths on both sides rather than the road. At location 2, movement was concentrated mainly along the western section of the pathway.

Desire Lines for Cyclists

MORNING PEAK
8.30 am - 9.30 am

AFTERNOON PEAK
12.30 pm - 1.30 pm

EVENING PEAK
5.00 pm - 6.00 pm

Location 1



Location 2



Cycling activity at location 1 was concentrated along the road. At location 2, higher cyclist volumes were recorded along the eastern and central sections of the site. Lower levels of cycling activity were observed at both locations during the afternoon peak compared to the morning and evening peaks.

USEABILITY OBSERVATIONS

Desire lines within the space indicate a predominant north–south pedestrian flow, alongside consistent cycling movements. Cyclists frequently used a route that enabled a westbound turn onto Upper Thames without waiting at the signal, forming an informal desire line that intersected with pedestrians crossing during their green phase. When cyclists were present in the central area, pedestrians tended to move around the perimeter and entered the central space only when gaps were available, resulting in a spatial pattern that functioned as de facto segregation rather than shared use. While the layout supports continuous cycling movements, observations show reduced pedestrian comfort levels and constrained accessibility in the central section, limiting the effective usability of the space for all user groups.

RECOMMENDATIONS

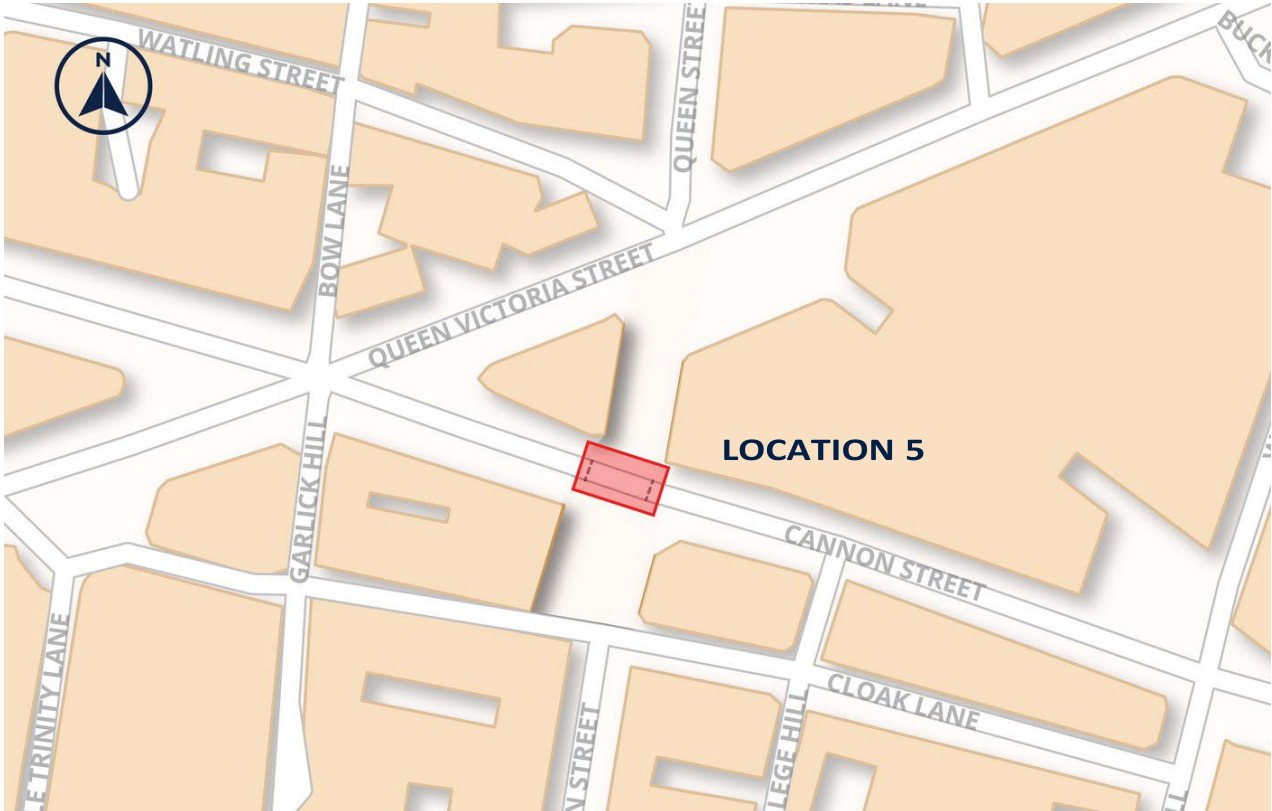
The observed site presents several opportunities to improve safety, circulation, and user experience:

1. **Introduce Clear Shared-Space Signage and Surface Markings** - Install visible signs and ground markings that communicate the shared nature of the space and remind cyclists to yield to pedestrians.
2. **Redesign or Manage the Cyclist Desire Line** - Discourage the informal right-turn shortcut used to bypass traffic lights and create a formal, safe turning route separated from pedestrian crossings.
3. **Implement Speed-Calming Measures for Cyclists** - Use subtle design features, such as textured surfaces or narrowed approaches, to naturally reduce cyclist speeds near pedestrian zones.
4. **Enhance Pedestrian Accessibility and Comfort** - Introduce tactile paving, wider waiting areas, and ensure gentle, well-aligned level transitions at crossings. Remove unnecessary obstacles to support safer movement, especially for vulnerable users.
5. **Improve Junction Signalling and Crossing Coordination** - Adjust signal timings to ensure pedestrians complete crossings safely before cyclists are released; consider a short clearance phase between signal changes.
6. **Activate Behavioural and Awareness Campaigns** - Launch signage, digital messages, or temporary installations promoting shared-space etiquette, considerate cycling, and mutual respect during peak hours.



LOCATION 5 - CANNON ST TOUCAN CROSSING

SITE OVERVIEW MAP (DATA COLLECTION)



OBSERVATIONS AND DATA REVIEW



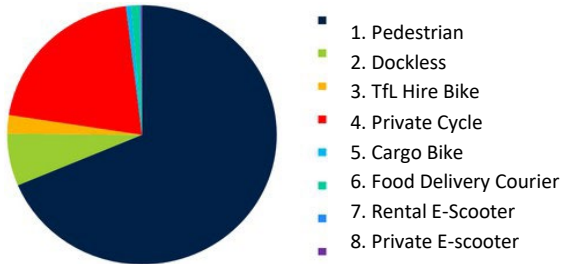
Cannon Street is a key east to west road that experiences frequent vehicle traffic from the busy Monument Station area. The crossing facilitates north-south pedestrian and cycle movements, particularly those coming to and from Cannon Street and Mansion House stations.



Site observations were carried out during a brief period of rain followed by sunny weather for the remainder of the observation period.

COMFORT

Composition of All User Classes:



Proportion of Pedestrians to Cyclists/Scooters:

68.6% **31.4%**
 Pedestrians Cyclists and Scooters

| Class | | |
|-------|--|--|
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The average daily user count over the survey period was 14,363. Pedestrians were the most common at **68.6%** (9,859), followed by private cycles at **20.6%** (2,964).

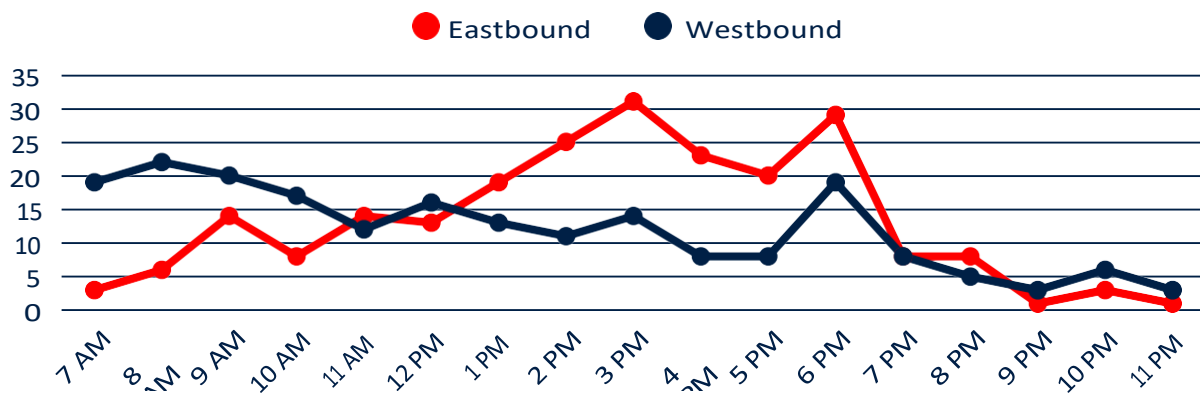
SAFETY

On daily average, a total of **431** obstructions were recorded. Among these, **227** were in eastbound (EB) direction and **204** in westbound (WB) direction.



Hourly interval analysis show that in the westbound direction, there were significantly more obstructions in the morning, particularly during the 7am-8am peak period. In contrast, more obstructions were recorded in the eastbound direction during the afternoon hours.

Average daily count of **obstructions** by direction:

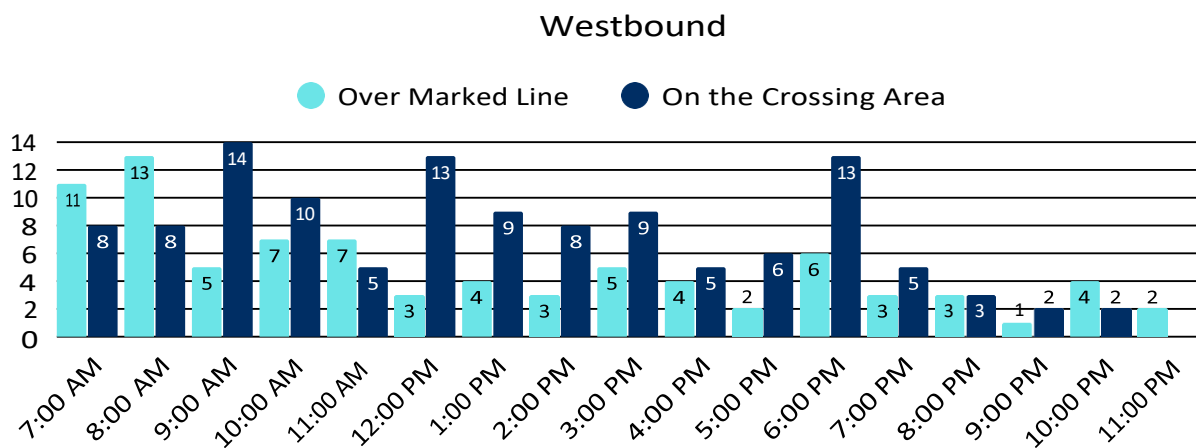
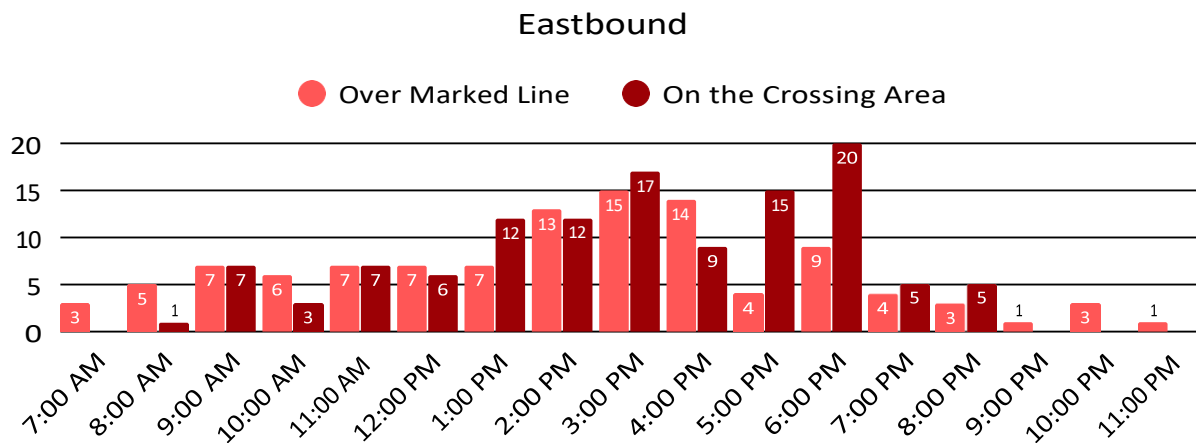


SAFETY OBSERVATIONS

Obstruction of crossings by vehicles significantly compromised safety for both pedestrians and cyclists. Parked or stopped vehicles block sightlines, making it difficult for people to see or be seen when crossing. This increases the risk of collisions and near misses, particularly for vulnerable users such as children or those with mobility impairments. For cyclists, obstructions can cause sudden lane changes and conflicts with pedestrians, while for pedestrians they undermine priority and confidence in using the crossing. Overall, blocked crossings disrupt predictable movement, heighten risk, and reduce the perceived safety and accessibility of the area.

SEVERITY OF OBSTRUCTIONS BREAKDOWN

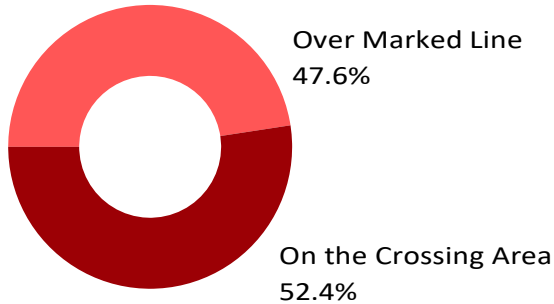
- Over Marked Line - refers to instances when vehicle has stopped over the white marked line on the lane during the Red Man.
- On the Crossing Area - refers to instances when vehicle has stopped on the area of the crossing itself during the Red Man.



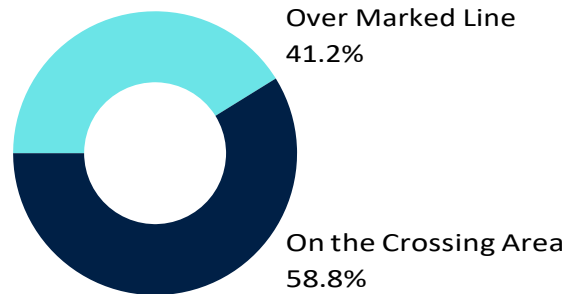
Average daily counts of obstructions:

| Obstruction type | Eastbound | Westbound | Total |
|-------------------------|------------|------------|------------|
| Over Marked Line | 108 | 84 | 192 |
| On the Crossing Area | 119 | 120 | 239 |
| All Obstructions | 227 | 204 | 431 |

Eastbound



Westbound



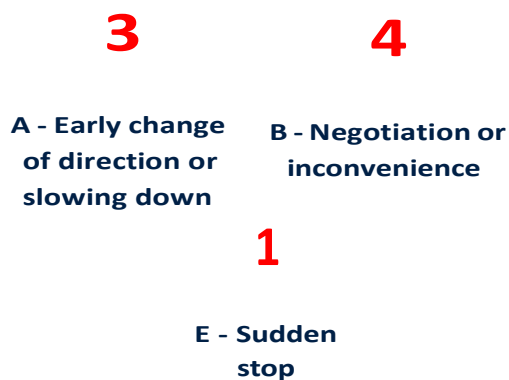
In both directions, there were more On the Crossing Area obstructions than Over Marked Line obstructions (**52.4%** in eastbound and **58.8%** in westbound direction).

INTERACTIONS

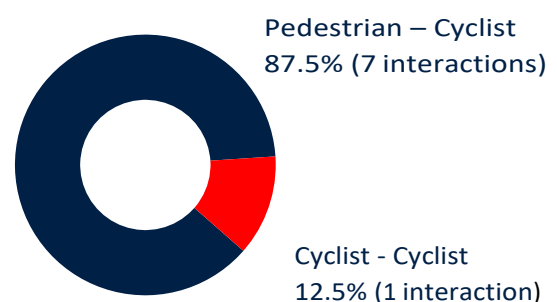
Throughout the three-day survey, a total of **8 interactions** were recorded. Among these, **3** fall into grading **A** (early change of direction or slowing down), **4** into grading **B** (negotiation or inconvenience), and **1** into grading **E** (sudden stop).

7 of these interactions occurred between pedestrians and cyclists, and **1** between two cyclists.

Total number of interactions across 3 days:



Interactions between user classes:

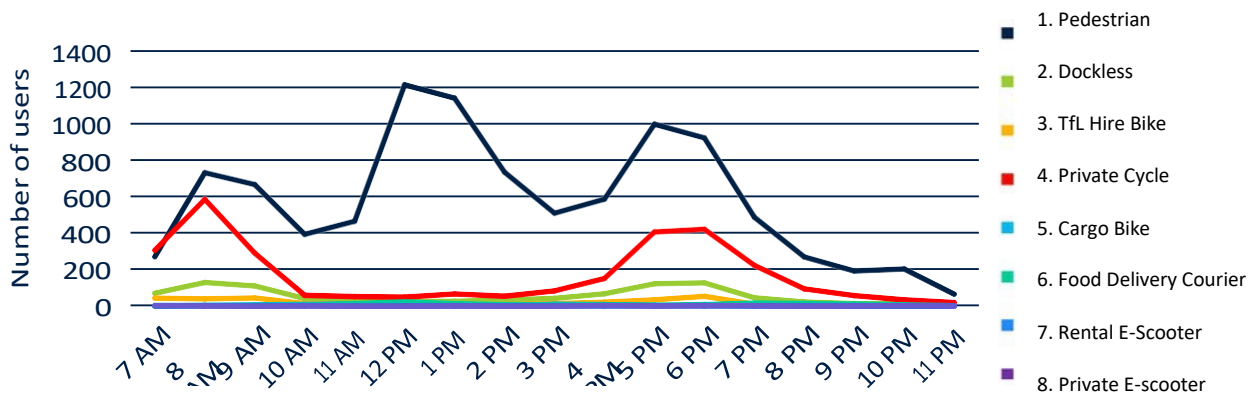


LAYOUT OBSERVATIONS

The crossing is a broad, shared space used by both pedestrians and cyclists to cross Cannon Street. It comfortably accommodates high pedestrian volumes, with good accessibility features including extensive tactile paving and a raised carriageway that aligns with the pavement to support users with mobility aids or wheeled devices. However, the absence of a designated cycle lane or waiting area creates points of conflict between pedestrians and cyclists, particularly when the crossing becomes obstructed by vehicles and both groups attempt to navigate through limited gaps. Providing a clearer spatial distinction or marked cycle zone would help reduce these conflicts and improve overall safety and comfort.

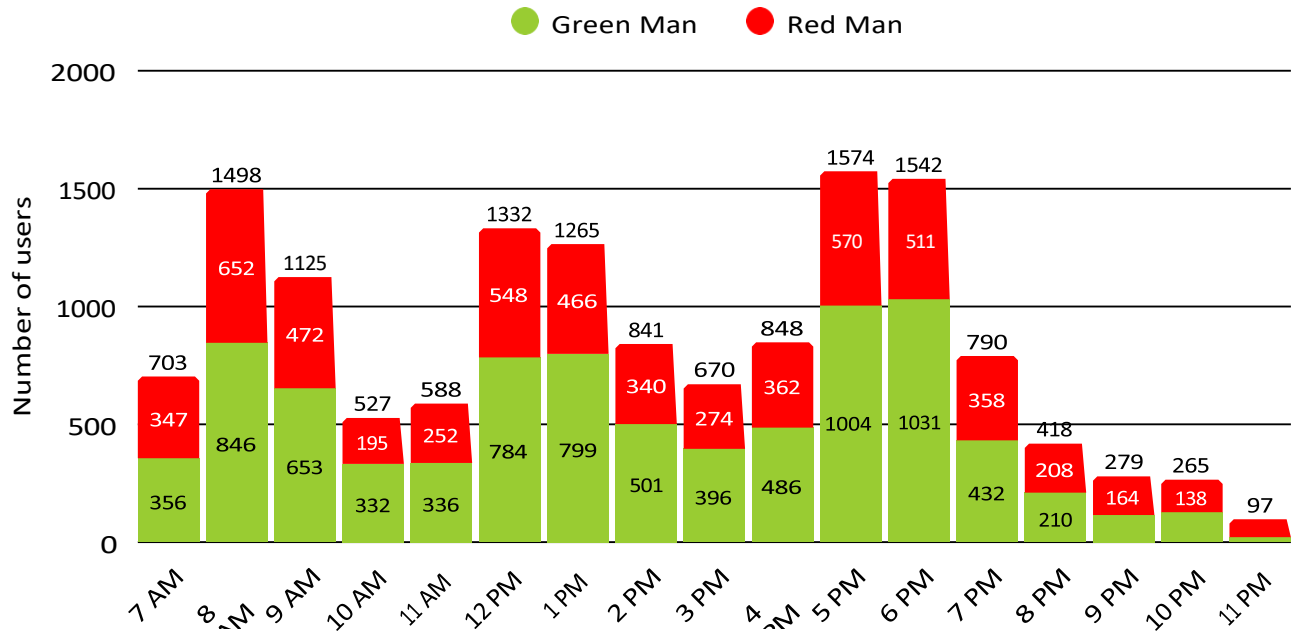
Hourly interval analysis reveals clear peak hours for all classes at **7am-8am** and **5pm-6pm**. Notably, pedestrian volumes peak around **12pm** as well, while volumes for other classes remain at their lowest during this time.

Daily Average Volumes of users by class throughout the day:



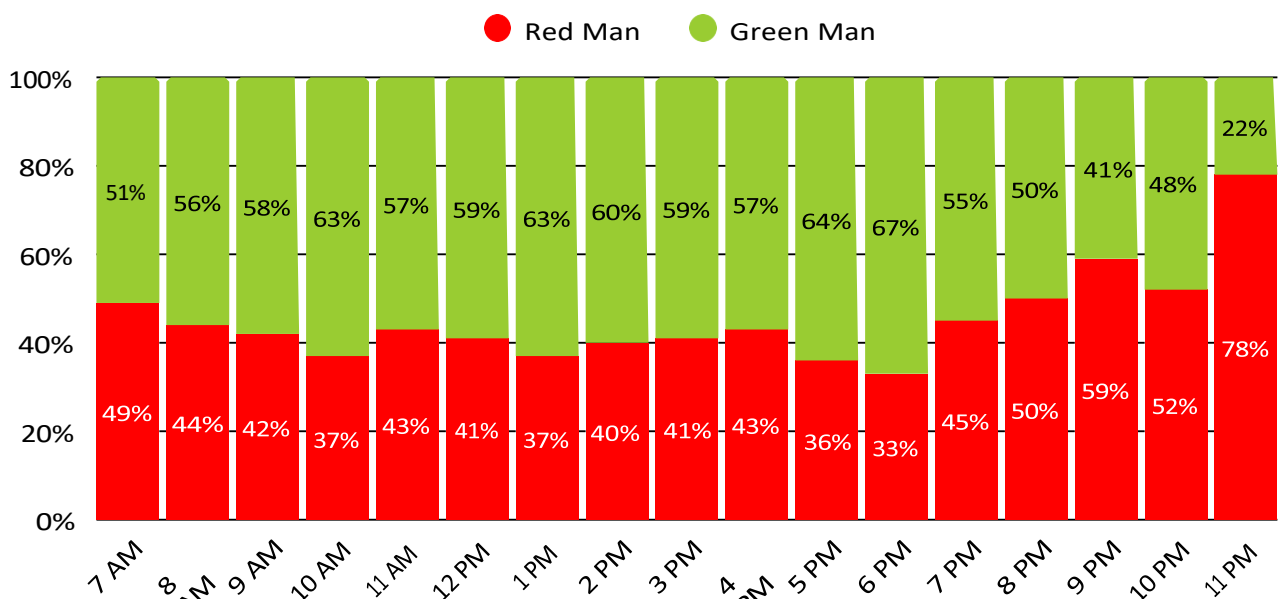
Crossing on Green Man / Red Man

Daily average volumes of all users by Green Man & Red Man throughout the day:

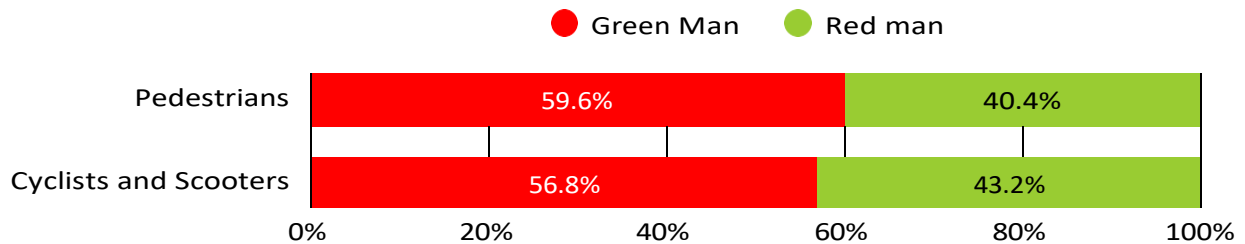


Overall, majority of users (**59%**) use the crossing during the Green Man. **41%** of users used the crossing during the Red Man. The hourly analysis reveal highest percentage of users crossing during Red Man at **11pm (78%)** and lowest at **6pm (33%)**.

Percentages of daily average volumes of all users by Green Man & Red Man throughout the day



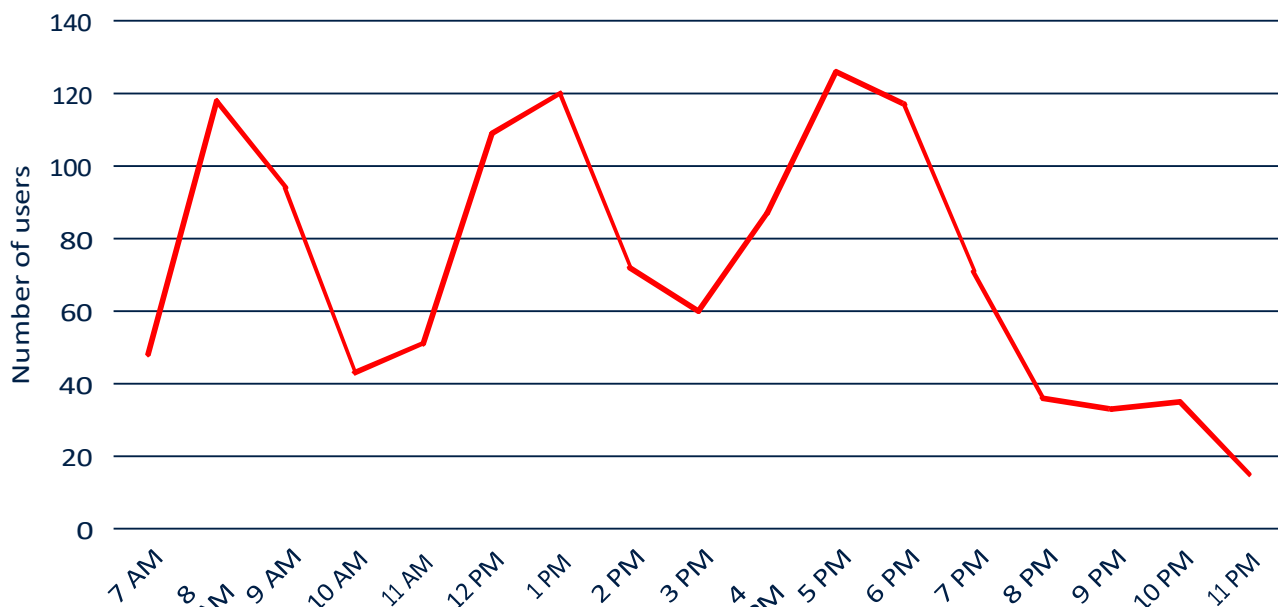
Pedestrians are slightly more likely to use the crossing during the Red Man compared to cyclists and scooters (**59.6%** and **56.8%**, respectively).



Waiting at Red Man

Three peaks - at **8am**, **1pm**, and **5pm** - can be noticed throughout the day, when the number of users waiting at the crossing during the Red Man reaches its highest levels—**118**, **120**, and **126** users per hour, respectively.

Daily average count of all users waiting at Red Man crossing throughout the day:



CYCLE TRACKING

Among cyclists, the predominant class is private cycles, accounting for **58.5%** of the daily volume (**4,970**), followed by rental e-bikes at **24.3%** (**2,068**).

Daily average volumes of cyclists/scooters by class:

| Class | Average Daily Volume | Percentage |
|----------------------------|----------------------|-------------|
| TfL Hire Bike | 682 | 8.0% |
| Private Cycle | 4,970 | 58.5% |
| Cargo Bike | 170 | 2.0% |
| Food Delivery Courier | 544 | 6.4% |
| Dockless | 2,068 | 24.3% |
| Rental E-Scooter | 33 | 0.4% |
| Private E-Scooter/Scooter | 34 | 0.4% |
| Average Daily Total | 8,500 | 100% |

Most used directions by cyclists are **A to C (2,371 users per day)** and **C to A (2,347 users per day)**. These are followed by **D to B** and **B to D** directions with **1,246** and **1,139** users per day, respectively.

Movement directions ranked by daily average volume of all cyclist classes:

[illegible]



USER AWARENESS OBSERVATIONS

User awareness at the crossing appeared limited, particularly between pedestrians and cyclists sharing the space. Pedestrians were often unaware of approaching cyclists, leading to hesitation and near-conflicts as both attempted to cross simultaneously. In addition, spill-out from the adjacent pub further reduced the available crossing width, forcing pedestrians and cyclists to negotiate a narrower space.

The presence of people leaving nearby businesses, standing outside cafés, or drinking near the crossing reduces situational awareness and increases risk for both pedestrians and cyclists. Individuals who are distracted, socialising, or under the influence of alcohol are less likely to check for approaching cyclists before stepping into the shared space. This behaviour, combined with cyclists travelling at relatively high speeds, heightens the likelihood of sudden, unpredictable interactions. The informal gathering and movement in and out of adjacent premises also blur the functional boundaries of the crossing, creating a more chaotic environment where users are less attentive to one another and safety is compromised.

ACCESSIBILITY OBSERVATIONS

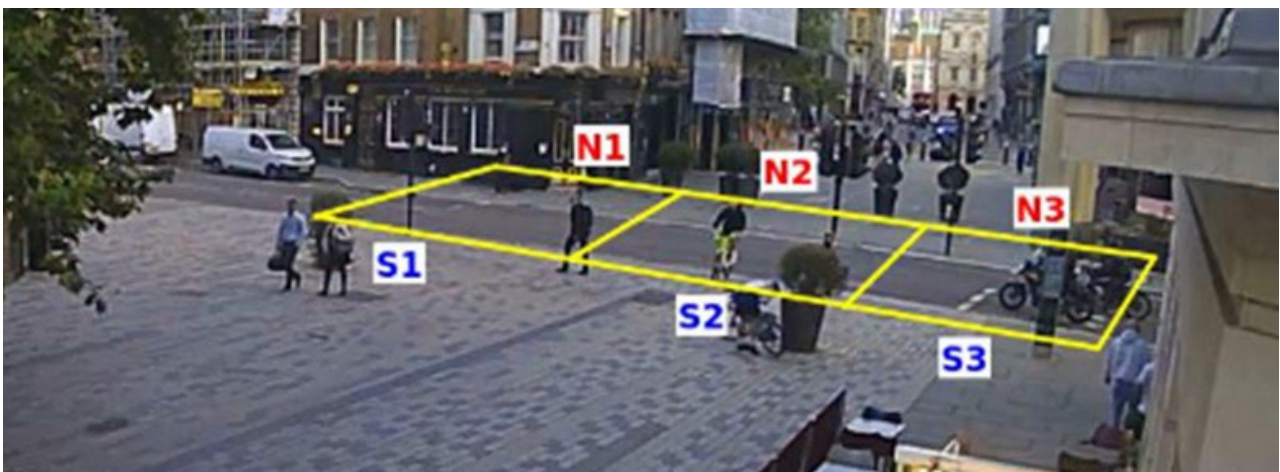
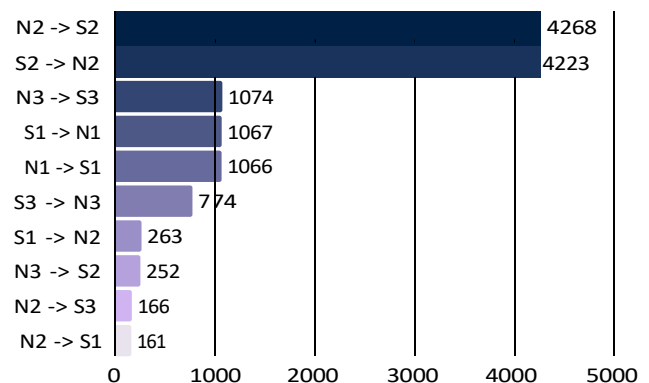
The crossing provides generally good physical accessibility, with level surfaces, tactile paving, and a raised carriageway that aligns with the pavement to support users with mobility aids, wheelchairs, or pushchairs. However, functional accessibility is often compromised by behavioural and spatial factors. Conflicts between pedestrians and cyclists, combined with vehicle obstructions that narrow the available space, can make crossing unpredictable and, at times, impassable for wheelchair users who cannot squeeze through restricted gaps. These challenges highlight the need for clearer spatial definition, better user guidance, and measures to prevent vehicle encroachment to ensure the crossing remains safe and accessible for all.

USEABILITY

N2 - S2 and S2 - N2 are most used directions with **4,268** and **4,223** users daily accordingly. These are followed by N3 - S3 (1,074) and S1 - N1 (1,066) movements.

Desire Lines - Top 10 Directions:

| | | |
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APPENDIX

APPENDIX

Location 1

Daily Average Counts and Percentages of Cyclists by Speed Ranges

| Time | Counts of Cyclists | | | | | | Percentages of Cyclists | | | | |
|-------|--------------------|---------|----------|----------|--------|-------|-------------------------|---------|----------|----------|--------|
| | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph | Total | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph |
| 7 AM | 4 | 54 | 26 | 21 | 0 | 106 | 3.8% | 50.9% | 24.5% | 19.8% | 0.0% |
| 8 AM | 23 | 101 | 43 | 48 | 3 | 218 | 10.6% | 46.3% | 19.7% | 22.0% | 1.4% |
| 9 AM | 13 | 76 | 51 | 33 | 2 | 175 | 7.4% | 43.4% | 29.1% | 18.9% | 1.1% |
| 10 AM | 7 | 28 | 13 | 10 | 0 | 57 | 12.3% | 49.1% | 22.8% | 17.5% | 0.0% |
| 11 AM | 3 | 29 | 13 | 11 | 0 | 56 | 5.4% | 51.8% | 23.2% | 19.6% | 0.0% |
| 12 PM | 4 | 26 | 23 | 20 | 1 | 73 | 5.5% | 35.6% | 31.5% | 27.4% | 1.4% |
| 1 PM | 7 | 36 | 18 | 15 | 1 | 77 | 9.1% | 46.8% | 23.4% | 19.5% | 1.3% |
| 2 PM | 4 | 29 | 19 | 13 | 1 | 65 | 6.2% | 44.6% | 29.2% | 20.0% | 1.5% |
| 3 PM | 7 | 39 | 12 | 11 | 0 | 69 | 10.1% | 56.5% | 17.4% | 15.9% | 0.0% |
| 4 PM | 7 | 57 | 24 | 20 | 1 | 108 | 6.5% | 52.8% | 22.2% | 18.5% | 0.9% |
| 5 PM | 17 | 88 | 36 | 37 | 4 | 182 | 9.3% | 48.4% | 19.8% | 20.3% | 2.2% |
| 6 PM | 20 | 108 | 42 | 45 | 1 | 217 | 9.2% | 49.8% | 19.4% | 20.7% | 0.5% |
| 7 PM | 10 | 69 | 28 | 18 | 1 | 126 | 7.9% | 54.8% | 22.2% | 14.3% | 0.8% |
| 8 PM | 6 | 39 | 16 | 16 | 1 | 78 | 7.7% | 50.0% | 20.5% | 20.5% | 1.3% |
| 9 PM | 4 | 19 | 12 | 8 | 0 | 43 | 9.3% | 44.2% | 27.9% | 18.6% | 0.0% |
| 10 PM | 1 | 7 | 7 | 3 | 0 | 18 | 5.6% | 38.9% | 38.9% | 16.7% | 0.0% |
| 11 PM | 3 | 8 | 6 | 4 | 0 | 22 | 13.6% | 36.4% | 27.3% | 18.2% | 0.0% |
| Total | 140 | 814 | 390 | 331 | 17 | 1691 | 8.3% | 48.1% | 23.1% | 19.6% | 1.0% |

Average Cycle Speeds by Links & Days

| Time | Link 1 | | | | Link 2 | | | | Link 3 | | | | Average Speed Across All Links |
|---------|------------|------------|------------|---------------|------------|------------|------------|---------------|------------|------------|------------|---------------|--------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | |
| 7 AM | 17.20 | 16.10 | 16.95 | 16.75 | 10.61 | 10.95 | 10.06 | 10.54 | 9.63 | 13.20 | 9.76 | 10.87 | 12.72 |
| 8 AM | 16.73 | 16.90 | 13.27 | 15.63 | 10.07 | 11.41 | 11.59 | 11.02 | 8.85 | 9.33 | 12.16 | 10.11 | 12.26 |
| 9 AM | 13.14 | 19.35 | 15.96 | 16.15 | 9.64 | 12.46 | 11.44 | 11.18 | 10.14 | 11.37 | 10.66 | 10.72 | 12.68 |
| 10 AM | 18.60 | 19.15 | 4.60 | 14.12 | 10.44 | 10.39 | 10.80 | 10.54 | 9.83 | 10.12 | 7.86 | 9.27 | 11.31 |
| 11 AM | 17.90 | 14.68 | 14.08 | 15.55 | 11.27 | 9.38 | 10.09 | 10.25 | 10.69 | 10.14 | 9.08 | 9.97 | 11.92 |
| 12 PM | 19.00 | 12.50 | 13.80 | 15.10 | 13.46 | 10.76 | 11.27 | 11.83 | 12.85 | 9.47 | 13.29 | 11.87 | 12.93 |
| 1 PM | / | 15.60 | 8.60 | 12.10 | 9.88 | 12.30 | 10.60 | 10.93 | 11.52 | 11.21 | 8.93 | 10.55 | 11.19 |
| 2 PM | 16.30 | 15.18 | 14.15 | 15.21 | 10.03 | 11.32 | 10.04 | 10.46 | 10.49 | 10.79 | 10.00 | 10.42 | 12.03 |
| 3 PM | 10.28 | 16.20 | 11.61 | 12.70 | 10.16 | 10.23 | 9.74 | 10.05 | 7.65 | 8.65 | 9.61 | 8.64 | 10.46 |
| 4 PM | 15.78 | 16.39 | 17.20 | 16.46 | 11.72 | 10.49 | 9.82 | 10.67 | 9.62 | 8.48 | 9.87 | 9.32 | 12.15 |
| 5 PM | 15.50 | 10.35 | 14.84 | 13.56 | 10.60 | 12.20 | 9.20 | 10.67 | 10.74 | 10.94 | 8.94 | 10.21 | 11.48 |
| 6 PM | 16.05 | 16.60 | 13.79 | 15.48 | 10.33 | 11.91 | 9.50 | 10.58 | 10.07 | 10.54 | 8.85 | 9.82 | 11.96 |
| 7 PM | 18.50 | / | 8.88 | 13.69 | 9.99 | 11.09 | 9.74 | 10.27 | 9.42 | 10.27 | 8.39 | 9.36 | 11.11 |
| 8 PM | 17.37 | 17.25 | 17.80 | 17.47 | 11.25 | 10.87 | 9.06 | 10.39 | 8.32 | 13.03 | 9.78 | 10.38 | 12.75 |
| 9 PM | / | / | 16.13 | 16.13 | 11.14 | 11.71 | 9.91 | 10.92 | 9.19 | 9.42 | 9.75 | 9.46 | 12.17 |
| 10 PM | 15.10 | 19.70 | 17.10 | 17.30 | 10.06 | 13.21 | 10.57 | 11.28 | 8.96 | 9.11 | 8.91 | 8.99 | 12.52 |
| 11 PM | / | 15.80 | 13.90 | 14.85 | 10.30 | 9.32 | 10.20 | 9.94 | 11.04 | 8.79 | 11.13 | 10.32 | 11.70 |
| Average | 16.25 | 16.12 | 13.69 | 15.35 | 10.64 | 11.18 | 10.21 | 10.68 | 9.94 | 10.29 | 9.82 | 10.02 | 12.01 |

Counts of Interactions by Type

| Hour Interval | 3-Day Total Counts | | | 3-Day Average Counts | | |
|---------------|--------------------------|----------------------|-------|--------------------------|----------------------|-------|
| | 1. Early and Considerate | 2. Considerate Give- | Total | 1. Early and Considerate | 2. Considerate Give- | Total |
| | Avoidance | Way | | Avoidance | Way | |
| 7 AM | 19 | 2 | 21 | 6 | 1 | 7 |
| 8 AM | 48 | 3 | 51 | 16 | 1 | 17 |
| 9 AM | 35 | 3 | 38 | 12 | 1 | 13 |
| 10 AM | 5 | | 5 | 2 | 0 | 2 |
| 11 AM | 4 | 2 | 6 | 1 | 1 | 2 |
| 12 PM | 13 | 1 | 14 | 4 | 0 | 4 |
| 1 PM | 12 | 2 | 14 | 4 | 1 | 5 |
| 2 PM | 7 | 1 | 8 | 2 | 0 | 2 |
| 3 PM | 13 | 3 | 16 | 4 | 1 | 5 |
| 4 PM | 16 | 5 | 21 | 5 | 2 | 7 |
| 5 PM | 37 | 2 | 39 | 12 | 1 | 13 |
| 6 PM | 36 | 6 | 42 | 12 | 2 | 14 |
| 7 PM | 24 | 6 | 30 | 8 | 2 | 10 |
| 8 PM | 4 | 1 | 5 | 1 | 0 | 1 |
| 9 PM | 1 | 0 | 1 | 0 | 0 | 0 |
| 10 PM | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 PM | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 274 | 37 | 311 | 91 | 12 | 103 |

APPENDIX

Counts of Congregating Users

| Hour Interval | Link 1 | | | | | | Link 2 | | | | | | Link 3 | | | | | | Daily Total across all links |
|---------------|------------|------------|------------|---------------|-------------|--|------------|------------|------------|---------------|-------------|--|------------|------------|------------|---------------|-------------|--|------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | |
| 7 AM | 4 | 2 | 5 | 4 | 11 | | 5 | 0 | 4 | 3 | 9 | | 5 | 3 | 5 | 4 | 13 | | 11 |
| 8 AM | 6 | 6 | 4 | 5 | 16 | | 5 | 3 | 5 | 4 | 13 | | 8 | 4 | 5 | 6 | 17 | | 15 |
| 9 AM | 8 | 8 | 12 | 9 | 28 | | 5 | 5 | 5 | 5 | 15 | | 6 | 8 | 6 | 7 | 20 | | 21 |
| 10 AM | 11 | 12 | 12 | 12 | 35 | | 7 | 6 | 6 | 6 | 19 | | 12 | 10 | 11 | 11 | 33 | | 29 |
| 11 AM | 9 | 16 | 9 | 11 | 34 | | 7 | 10 | 9 | 9 | 26 | | 4 | 8 | 11 | 8 | 23 | | 28 |
| 12 PM | 19 | 15 | 17 | 17 | 51 | | 10 | 10 | 5 | 8 | 25 | | 11 | 8 | 11 | 10 | 30 | | 35 |
| 1 PM | 14 | 15 | 18 | 16 | 47 | | 6 | 11 | 7 | 8 | 24 | | 12 | 9 | 11 | 11 | 32 | | 34 |
| 2 PM | 24 | 14 | 20 | 19 | 58 | | 7 | 7 | 7 | 7 | 21 | | 14 | 7 | 9 | 10 | 30 | | 36 |
| 3 PM | 13 | 32 | 40 | 28 | 85 | | 7 | 8 | 9 | 8 | 24 | | 10 | 10 | 12 | 11 | 32 | | 47 |
| 4 PM | 19 | 16 | 20 | 18 | 55 | | 5 | 10 | 16 | 10 | 31 | | 6 | 6 | 9 | 7 | 21 | | 36 |
| 5 PM | 17 | 8 | 21 | 15 | 46 | | 7 | 7 | 17 | 10 | 31 | | 7 | 5 | 13 | 8 | 25 | | 34 |
| 6 PM | 19 | 13 | 34 | 22 | 66 | | 18 | 5 | 31 | 18 | 54 | | 7 | 6 | 9 | 7 | 22 | | 47 |
| 7 PM | 21 | 15 | 21 | 19 | 57 | | 17 | 12 | 19 | 16 | 48 | | 7 | 4 | 7 | 6 | 18 | | 41 |
| 8 PM | 22 | 10 | 11 | 14 | 43 | | 7 | 12 | 10 | 10 | 29 | | 4 | 3 | 10 | 6 | 17 | | 30 |
| 9 PM | 10 | 24 | 8 | 14 | 42 | | 8 | 15 | 31 | 18 | 54 | | 1 | 4 | 6 | 4 | 11 | | 36 |
| 10 PM | 4 | 15 | 17 | 12 | 36 | | 2 | 3 | 5 | 3 | 10 | | 3 | 1 | 3 | 2 | 7 | | 18 |
| 11 PM | 10 | 3 | 8 | 7 | 21 | | 6 | 2 | 4 | 4 | 12 | | 0 | 2 | 0 | 1 | 2 | | 12 |
| Total | 230 | 224 | 277 | 244 | 731 | | 129 | 126 | 190 | 148 | 445 | | 117 | 98 | 138 | 118 | 353 | | 510 |

Counts of Users by Class

| Class | Link 1 | | | | | | Link 2 | | | | | | Link 3 | | | | | | Daily Average Across All Links |
|------------------------------|------------|------------|------------|---------------|-------------|--|------------|------------|------------|---------------|-------------|--|------------|------------|------------|---------------|-------------|--|--------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | | |
| 1. Pedestrian | 3,739 | 3,731 | 4,127 | 3,866 | 11,597 | | 7,468 | 6,904 | 8,055 | 7,476 | 22,427 | | 7,060 | 6,341 | 7,575 | 6,992 | 20,976 | | 18,333 |
| 2. Rental E-Bike | 20 | 19 | 41 | 27 | 80 | | 213 | 165 | 209 | 196 | 587 | | 213 | 159 | 208 | 193 | 580 | | 416 |
| 3. TFL Hire Bike | 1 | 1 | - | 1 | 2 | | 95 | 41 | 63 | 66 | 199 | | 104 | 47 | 56 | 69 | 207 | | 136 |
| 4. Private Cycle/E-Bike | 17 | 26 | 17 | 20 | 60 | | 555 | 408 | 459 | 474 | 1,422 | | 486 | 367 | 417 | 423 | 1,270 | | 917 |
| 5. Cargo Bike | - | 2 | 4 | 2 | 6 | | 15 | 27 | 22 | 21 | 64 | | 18 | 33 | 25 | 25 | 76 | | 49 |
| 6. Food Delivery Courier | 3 | 1 | 5 | 3 | 9 | | 67 | 64 | 67 | 66 | 198 | | 68 | 75 | 85 | 76 | 228 | | 145 |
| 7. Rental E-Scooter | 1 | - | - | 0 | 1 | | 3 | 3 | 1 | 2 | 7 | | 4 | 2 | 2 | 3 | 8 | | 5 |
| 8. Private E-Scooter/Scooter | 1 | 2 | 2 | 2 | 5 | | 14 | 4 | 4 | 7 | 22 | | 11 | 2 | 2 | 5 | 15 | | 14 |
| Total | 3,782 | 3,782 | 4,196 | 3,920 | 11,760 | | 8,430 | 7,616 | 8,880 | 8,309 | 24,926 | | 7,964 | 7,026 | 8,370 | 7,787 | 23,360 | | 20,015 |

Location 2

Daily Average Counts and Percentages of Cyclists by Speed Ranges

| Time | Daily Average Counts of Cyclists | | | | | | Percentages of Cyclists | | | | |
|-------|----------------------------------|---------|----------|----------|--------|-------|-------------------------|---------|----------|----------|--------|
| | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph | Total | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph |
| 7 AM | 2 | 21 | 43 | 66 | 1 | 133 | 1.5% | 15.8% | 32.3% | 49.6% | 0.8% |
| 8 AM | 6 | 21 | 44 | 83 | 1 | 155 | 3.9% | 13.5% | 28.4% | 53.5% | 0.6% |
| 9 AM | 5 | 34 | 62 | 101 | 1 | 202 | 2.5% | 16.8% | 30.7% | 50.0% | 0.5% |
| 10 AM | 3 | 14 | 30 | 45 | 0 | 92 | 3.3% | 15.2% | 32.6% | 48.9% | 0.0% |
| 11 AM | 2 | 12 | 31 | 50 | 1 | 96 | 2.1% | 12.5% | 32.3% | 52.1% | 1.0% |
| 12 PM | 2 | 11 | 29 | 47 | 1 | 90 | 2.2% | 12.2% | 32.2% | 52.2% | 1.1% |
| 1 PM | 3 | 14 | 28 | 43 | 0 | 87 | 3.4% | 16.1% | 32.2% | 49.4% | 0.0% |
| 2 PM | 3 | 23 | 34 | 47 | 0 | 106 | 2.8% | 21.7% | 32.1% | 44.3% | 0.0% |
| 3 PM | 3 | 15 | 31 | 44 | 1 | 93 | 3.2% | 16.1% | 33.3% | 47.3% | 1.1% |
| 4 PM | 3 | 23 | 39 | 56 | 1 | 123 | 2.4% | 18.7% | 31.7% | 45.5% | 0.8% |
| 5 PM | 4 | 19 | 45 | 78 | 2 | 148 | 2.7% | 12.8% | 30.4% | 52.7% | 1.4% |
| 6 PM | 5 | 28 | 73 | 103 | 0 | 209 | 2.4% | 13.4% | 34.9% | 49.3% | 0.0% |
| 7 PM | 17 | 64 | 101 | 168 | 0 | 351 | 4.8% | 18.2% | 28.8% | 47.9% | 0.0% |
| 8 PM | 10 | 36 | 71 | 123 | 2 | 241 | 4.1% | 14.9% | 29.5% | 51.0% | 0.8% |
| 9 PM | 3 | 15 | 31 | 48 | 1 | 98 | 3.1% | 15.3% | 31.6% | 49.0% | 1.0% |
| 10 PM | 2 | 8 | 21 | 32 | 0 | 64 | 3.1% | 12.5% | 32.8% | 50.0% | 0.0% |
| 11 PM | 1 | 6 | 13 | 22 | 0 | 42 | 2.4% | 14.3% | 31.0% | 52.4% | 0.0% |
| Total | 73 | 364 | 724 | 1155 | 12 | 2328 | 3.1% | 15.6% | 31.1% | 49.6% | 0.5% |

Average Cycle Speeds by Links & Days

| Time | Link 1 | | | | Link 2 | | | | Link 3 | | | | Link 4 | | | | Average speed |
|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|---------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day | |
| 7 AM | 11.67 | 15.28 | 13.57 | 13.51 | 15.85 | 14.52 | 14.72 | 15.03 | 16.34 | 16.40 | 14.82 | 15.85 | 13.72 | 12.60 | 13.44 | 13.25 | 14.41 |
| 8 AM | 13.19 | 15.68 | 16.20 | 15.02 | 13.96 | 15.11 | 14.62 | 14.56 | 16.37 | 16.83 | 15.89 | 16.36 | 12.42 | 12.94 | 13.14 | 12.83 | 14.69 |
| 9 AM | 12.04 | 15.49 | 15.31 | 14.28 | 14.90 | 15.08 | 13.71 | 14.56 | 15.98 | 16.90 | 13.95 | 15.61 | 12.36 | 13.05 | 13.48 | 12.97 | 14.35 |
| 10 AM | 13.23 | 13.90 | 16.54 | 14.56 | 9.46 | 12.69 | 13.79 | 11.98 | 16.09 | 15.59 | 16.37 | 16.02 | 12.41 | 13.48 | 11.93 | 12.61 | 13.79 |
| 11 AM | 14.80 | 12.45 | 15.13 | 14.13 | 11.34 | 14.97 | 12.73 | 13.01 | 16.46 | 16.65 | 16.35 | 16.49 | 14.01 | 14.30 | 13.22 | 13.84 | 14.37 |
| 12 PM | 14.78 | 14.94 | 15.17 | 14.96 | 13.14 | 13.25 | 12.12 | 12.84 | 15.89 | 16.54 | 16.29 | 16.24 | 13.50 | 13.60 | 14.10 | 13.73 | 14.44 |
| 1 PM | 12.06 | 14.22 | 14.45 | 13.58 | 15.22 | 11.95 | 13.43 | 13.53 | 16.19 | 15.92 | 15.88 | 16.00 | 12.70 | 14.06 | 12.84 | 13.20 | 14.08 |
| 2 PM | 10.76 | 11.18 | 12.68 | 11.54 | 11.31 | 12.50 | 12.03 | 11.95 | 16.71 | 16.47 | 16.85 | 16.68 | 12.79 | 13.55 | 11.47 | 12.60 | 13.19 |
| 3 PM | 14.44 | 13.66 | 13.17 | 13.76 | 12.55 | 12.95 | 12.82 | 12.77 | 15.63 | 16.94 | 15.91 | 16.16 | 13.73 | 12.75 | 12.80 | 13.09 | 13.95 |
| 4 PM | 13.27 | 12.69 | 10.86 | 12.27 | 16.61 | 14.76 | 14.49 | 15.29 | 16.47 | 16.84 | 16.29 | 16.54 | 12.86 | 12.76 | 12.88 | 12.83 | 14.23 |
| 5 PM | 15.49 | 15.73 | 12.88 | 14.70 | 14.81 | 15.69 | 13.28 | 14.59 | 16.26 | 16.02 | 16.41 | 16.65 | 16.31 | 12.49 | 14.11 | 13.06 | 13.22 |
| 6 PM | 14.40 | 15.44 | 13.53 | 14.46 | 13.94 | 14.31 | 14.90 | 14.39 | 16.02 | 16.41 | 15.88 | 16.11 | 12.80 | 12.30 | 12.42 | 12.51 | 14.36 |
| 7 PM | 11.74 | 13.47 | 12.22 | 12.48 | 12.11 | 13.07 | 12.85 | 12.68 | 16.00 | 16.29 | 16.60 | 16.30 | 12.73 | 12.88 | 13.53 | 13.04 | 13.62 |
| 8 PM | 12.60 | 13.18 | 13.10 | 12.96 | 13.34 | 15.20 | 14.06 | 14.20 | 16.34 | 16.19 | 16.67 | 16.40 | 14.15 | 13.46 | 13.60 | 13.73 | 14.33 |
| 9 PM | 11.25 | 12.09 | 14.07 | 12.47 | 14.99 | 14.66 | 14.63 | 14.76 | 16.10 | 16.22 | 16.18 | 16.17 | 13.82 | 15.23 | 13.46 | 14.17 | 14.39 |
| 10 PM | 11.98 | 13.64 | 12.47 | 12.70 | 15.41 | 14.39 | 13.18 | 14.33 | 16.82 | 16.05 | 16.20 | 16.36 | 13.23 | 15.41 | 13.86 | 14.17 | 14.39 |
| 11 PM | 11.02 | 14.81 | 13.33 | 13.05 | 14.67 | 10.28 | 14.88 | 13.28 | 16.19 | 17.27 | 16.75 | 16.74 | 14.67 | 16.12 | 16.16 | 15.65 | 14.68 |
| Total | 12.86 | 13.99 | 13.80 | 13.55 | 13.74 | 13.85 | 13.66 | 13.75 | 16.23 | 16.44 | 16.09 | 16.25 | 13.20 | 13.68 | 13.26 | 13.38 | 14.23 |

APPENDIX

Counts of Interactions by Type

| Hour Interval | 3-Day Total Counts | | | | 3-Day Average Counts | | | |
|---------------|---|----------------------------------|-----------------|-------|---|----------------------------------|-----------------|-------|
| | A - Early change of direction or slowing down | B - Negotiation or inconvenience | E - Sudden stop | Total | A - Early change of direction or slowing down | B - Negotiation or inconvenience | E - Sudden stop | Total |
| 07:00:00 | 71 | 1 | 0 | 72 | 24 | 1 | 0 | 25 |
| 08:00:00 | 97 | 2 | 0 | 99 | 32 | 1 | 0 | 33 |
| 09:00:00 | 81 | 3 | 0 | 84 | 27 | 1 | 0 | 28 |
| 10:00:00 | 15 | 1 | 0 | 16 | 5 | 1 | 0 | 6 |
| 11:00:00 | 16 | 1 | 0 | 17 | 5 | 1 | 0 | 6 |
| 12:00:00 | 18 | 0 | 0 | 18 | 6 | 0 | 0 | 6 |
| 13:00:00 | 71 | 0 | 0 | 71 | 24 | 0 | 0 | 24 |
| 14:00:00 | 51 | 0 | 0 | 51 | 17 | 0 | 0 | 17 |
| 15:00:00 | 45 | 0 | 0 | 45 | 15 | 0 | 0 | 15 |
| 16:00:00 | 61 | 0 | 0 | 61 | 20 | 0 | 0 | 20 |
| 17:00:00 | 89 | 1 | 0 | 90 | 30 | 1 | 0 | 31 |
| 18:00:00 | 147 | 8 | 1 | 156 | 49 | 3 | 1 | 53 |
| 19:00:00 | 75 | 0 | 0 | 75 | 25 | 0 | 0 | 25 |
| 20:00:00 | 27 | 1 | 0 | 28 | 9 | 1 | 0 | 10 |
| 21:00:00 | 7 | 0 | 0 | 7 | 2 | 0 | 0 | 2 |
| 22:00:00 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 1 |
| 23:00:00 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 2 |
| Total | 876 | 19 | 1 | 896 | 292 | 6 | 1 | 299 |

Counts of Congregating Users

| Hour Interval | Link 1&4 | | | | | Link 2&3 | | | | | Daily Total |
|---------------|------------|------------|------------|---------------|-------------|------------|------------|------------|---------------|-------------|-------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | |
| 07:00:00 | 34 | 17 | 24 | 25 | 75 | 26 | 12 | 15 | 18 | 53 | 43 |
| 08:00:00 | 46 | 23 | 49 | 39 | 118 | 59 | 21 | 42 | 41 | 122 | 80 |
| 09:00:00 | 66 | 52 | 67 | 62 | 185 | 68 | 49 | 44 | 54 | 161 | 115 |
| 10:00:00 | 63 | 47 | 55 | 55 | 165 | 88 | 62 | 69 | 73 | 219 | 128 |
| 11:00:00 | 47 | 32 | 44 | 41 | 123 | 47 | 53 | 64 | 55 | 164 | 96 |
| 12:00:00 | 43 | 53 | 33 | 43 | 129 | 28 | 52 | 73 | 51 | 153 | 94 |
| 13:00:00 | 61 | 27 | 71 | 53 | 159 | 78 | 41 | 138 | 86 | 257 | 139 |
| 14:00:00 | 52 | 59 | 73 | 61 | 184 | 63 | 84 | 144 | 97 | 291 | 158 |
| 15:00:00 | 71 | 69 | 33 | 58 | 173 | 41 | 95 | 174 | 103 | 310 | 161 |
| 16:00:00 | 44 | 36 | 27 | 36 | 107 | 70 | 138 | 260 | 156 | 468 | 192 |
| 17:00:00 | 65 | 42 | 17 | 41 | 124 | 192 | 101 | 749 | 347 | 1042 | 389 |
| 18:00:00 | 77 | 39 | 19 | 45 | 135 | 277 | 205 | 1187 | 556 | 1669 | 601 |
| 19:00:00 | 63 | 54 | 20 | 46 | 137 | 157 | 214 | 943 | 438 | 1314 | 484 |
| 20:00:00 | 39 | 59 | 13 | 37 | 111 | 78 | 155 | 736 | 323 | 969 | 360 |
| 21:00:00 | 38 | 21 | 18 | 26 | 77 | 69 | 110 | 477 | 199 | 596 | 224 |
| 22:00:00 | 17 | 16 | 17 | 17 | 50 | 17 | 133 | 305 | 152 | 455 | 168 |
| 23:00:00 | 13 | 19 | 20 | 17 | 52 | 6 | 21 | 75 | 34 | 102 | 51 |
| Total | 839 | 665 | 600 | 701 | 2104 | 1364 | 1546 | 5435 | 2782 | 8345 | 3483 |

Counts of Users by Class

| Class | Link 1 | | | | | Link 2 | | | | | Link 3 | | | | | Link 4 | | | | | Daily Total |
|------------------------------|------------|--------|------------|---------|------------|------------|--------|------------|---------|------------|------------|--------|------------|---------|------------|------------|---------|------------|--------|------------|-------------|
| | 02/09/2025 | | 03/09/2025 | | 04/09/2025 | 02/09/2025 | | 03/09/2025 | | 04/09/2025 | 02/09/2025 | | 03/09/2025 | | 04/09/2025 | 02/09/2025 | | 03/09/2025 | | 04/09/2025 | |
| | Average | 3-day | 3-day | Average | 3-day | Average | 3-day | 3-day | Average | 3-day | Average | 3-day | 3-day | Average | 3-day | 3-day | Average | 3-day | 3-day | | |
| 1. Pedestrian | 41,173 | 40,766 | 44,775 | 42,238 | 126,714 | 18,518 | 17,483 | 20,731 | 18,911 | 56,732 | 38,656 | 44,095 | 43,165 | 41,972 | 125,916 | 42,817 | 39,280 | 44,668 | 42,255 | 126,765 | 145,376 |
| 2. Rental E-Bike | 180 | 147 | 181 | 169 | 508 | 33 | 34 | 39 | 35 | 106 | 143 | 138 | 154 | 145 | 435 | 180 | 127 | 165 | 157 | 472 | 507 |
| 3. TFL Hire Bike | 57 | 33 | 32 | 41 | 122 | 27 | 20 | 19 | 22 | 66 | 73 | 50 | 23 | 49 | 146 | 83 | 40 | 26 | 50 | 149 | 101 |
| 4. Private Cycle/E-Bike | 352 | 308 | 360 | 340 | 1,020 | 151 | 126 | 168 | 148 | 445 | 360 | 305 | 338 | 334 | 1,003 | 308 | 300 | 316 | 308 | 924 | 1,131 |
| 5. Cargo Bike | 18 | 20 | 5 | 14 | 43 | 3 | 4 | 4 | 4 | 11 | 14 | 18 | 8 | 13 | 40 | 16 | 17 | 9 | 14 | 42 | 45 |
| 6. Food Delivery Courier | 108 | 121 | 100 | 110 | 329 | 98 | 126 | 85 | 103 | 309 | 120 | 134 | 94 | 116 | 348 | 118 | 141 | 101 | 120 | 360 | 449 |
| 7. Rental E-Scooter | 7 | 4 | 3 | 5 | 14 | 3 | 2 | 2 | 2 | 7 | 6 | 7 | 1 | 5 | 14 | 1 | 6 | 2 | 3 | 9 | 15 |
| 8. Private E-Scooter/Scooter | 7 | 7 | 1 | 5 | 15 | 7 | 1 | 5 | 4 | 13 | 11 | 3 | 6 | 7 | 20 | 9 | 4 | 3 | 5 | 16 | 21 |
| Total | 41,902 | 41,406 | 45,457 | 42,922 | 128,765 | 18,840 | 17,796 | 21,053 | 19,230 | 57,689 | 39,383 | 44,750 | 43,789 | 42,641 | 127,922 | 43,532 | 39,915 | 45,290 | 42,812 | 128,737 | 147,704 |

APPENDIX

Location 3

Daily Average Counts and Percentages of Cyclists by Speed Ranges

| Time | Counts of Cyclists | | | | | Total | Percentages of Cyclists | | | | |
|-------|--------------------|---------|----------|----------|--------|-------|-------------------------|---------|----------|----------|--------|
| | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph | | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph |
| 7 AM | 59 | 76 | 235 | 578 | 24 | 971 | 6.1% | 7.8% | 24.2% | 59.5% | 2.5% |
| 8 AM | 117 | 119 | 461 | 1072 | 38 | 1808 | 6.5% | 6.6% | 25.5% | 59.3% | 2.1% |
| 9 AM | 47 | 86 | 278 | 672 | 20 | 1102 | 4.3% | 7.8% | 25.2% | 61.0% | 1.8% |
| 10 AM | 31 | 20 | 82 | 187 | 5 | 325 | 9.5% | 6.2% | 25.2% | 57.5% | 1.5% |
| 11 AM | 25 | 17 | 82 | 169 | 4 | 298 | 8.4% | 5.7% | 27.5% | 56.7% | 1.3% |
| 12 PM | 14 | 15 | 91 | 206 | 5 | 330 | 4.2% | 4.5% | 27.6% | 62.4% | 1.5% |
| 1 PM | 10 | 13 | 99 | 201 | 4 | 327 | 3.1% | 4.0% | 30.3% | 61.5% | 1.2% |
| 2 PM | 13 | 12 | 71 | 175 | 4 | 275 | 4.7% | 4.4% | 25.8% | 63.6% | 1.5% |
| 3 PM | 20 | 18 | 92 | 233 | 6 | 370 | 5.4% | 4.9% | 24.9% | 63.0% | 1.6% |
| 4 PM | 35 | 41 | 161 | 358 | 18 | 614 | 5.7% | 6.7% | 26.2% | 58.3% | 2.9% |
| 5 PM | 76 | 82 | 377 | 853 | 32 | 1420 | 5.4% | 5.8% | 26.5% | 60.1% | 2.3% |
| 6 PM | 69 | 101 | 388 | 903 | 50 | 1512 | 4.6% | 6.7% | 25.7% | 59.7% | 3.3% |
| 7 PM | 26 | 49 | 203 | 490 | 24 | 792 | 3.3% | 6.2% | 25.6% | 61.9% | 3.0% |
| 8 PM | 5 | 9 | 114 | 258 | 5 | 391 | 1.3% | 2.3% | 29.2% | 66.0% | 1.3% |
| 9 PM | 2 | 8 | 77 | 185 | 5 | 277 | 0.7% | 2.9% | 27.8% | 66.8% | 1.8% |
| 10 PM | 0 | 2 | 54 | 119 | 2 | 177 | 0.0% | 1.1% | 30.5% | 67.2% | 1.1% |
| 11 PM | 1 | 1 | 31 | 64 | 2 | 99 | 1.0% | 1.0% | 31.3% | 64.6% | 2.0% |
| Total | 551 | 669 | 2897 | 6723 | 248 | 11088 | 5.0% | 6.0% | 26.1% | 60.6% | 2.2% |

Average Cycle Speeds by Links & Days

| Time | Link 1 | | | | Link 2 | | | | Average speed across All Links |
|----------|------------|------------|------------|---------------|------------|------------|------------|---------------|--------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | |
| 07:00:00 | 14.35 | 16.80 | 14.34 | 15.16 | 13.35 | 16.59 | 16.40 | 15.44 | 15.30 |
| 08:00:00 | 14.39 | 16.14 | 14.98 | 15.17 | 13.65 | 15.95 | 16.45 | 15.35 | 15.26 |
| 09:00:00 | 14.67 | 15.31 | 15.23 | 15.07 | 13.81 | 16.87 | 16.41 | 15.70 | 15.38 |
| 10:00:00 | 15.40 | 15.04 | 15.16 | 15.20 | 11.43 | 14.66 | 15.05 | 13.71 | 14.46 |
| 11:00:00 | 14.88 | 14.81 | 14.87 | 14.86 | 13.20 | 14.82 | 15.33 | 14.45 | 14.65 |
| 12:00:00 | 15.20 | 14.74 | 15.71 | 15.21 | 15.97 | 15.47 | 15.99 | 15.81 | 15.51 |
| 13:00:00 | 15.41 | 15.69 | 15.67 | 15.59 | 16.17 | 14.30 | 15.70 | 15.39 | 15.49 |
| 14:00:00 | 14.96 | 15.38 | 16.00 | 15.45 | 16.61 | 15.46 | 14.13 | 15.40 | 15.42 |
| 15:00:00 | 15.02 | 15.59 | 15.58 | 15.40 | 16.80 | 13.06 | 15.78 | 15.21 | 15.30 |
| 16:00:00 | 14.44 | 14.48 | 14.83 | 14.58 | 17.09 | 14.24 | 16.03 | 15.79 | 15.19 |
| 17:00:00 | 14.42 | 14.80 | 14.67 | 14.63 | 16.44 | 15.29 | 16.05 | 15.93 | 15.28 |
| 18:00:00 | 13.41 | 14.70 | 15.65 | 14.59 | 16.54 | 16.80 | 16.10 | 16.48 | 15.53 |
| 19:00:00 | 14.42 | 14.53 | 15.38 | 14.77 | 16.92 | 16.57 | 16.22 | 16.57 | 15.67 |
| 20:00:00 | 15.80 | 15.72 | 16.10 | 15.87 | 16.28 | 16.46 | 16.72 | 16.49 | 16.18 |
| 21:00:00 | 15.78 | 15.52 | 16.28 | 15.86 | 16.66 | 16.68 | 16.36 | 16.56 | 16.21 |
| 22:00:00 | 15.80 | 16.53 | 16.26 | 16.20 | 16.61 | 16.65 | 16.39 | 16.55 | 16.37 |
| 23:00:00 | 15.71 | 15.79 | 15.88 | 15.79 | 16.62 | 16.40 | 16.48 | 16.50 | 16.15 |
| Total | 14.95 | 15.39 | 15.45 | 15.26 | 15.54 | 15.66 | 15.97 | 15.73 | 15.49 |

Counts of Interactions by Type

| Hour Interval | 3-Day Total Counts | | | | 3-Day Average Counts | | | |
|---------------|---|----------------------------------|-------------------------------------|-------|---|----------------------------------|-------------------------------------|-------|
| | A - Early change of direction or slowing down | B - Negotiation or inconvenience | D - Late swerve/change of direction | Total | A - Early change of direction or slowing down | B - Negotiation or inconvenience | D - Late swerve/change of direction | Total |
| 07:00:00 | 22 | 19 | 1 | 42 | 7 | 6 | 1 | 14 |
| 08:00:00 | 26 | 61 | 3 | 90 | 9 | 20 | 1 | 30 |
| 09:00:00 | 21 | 10 | 0 | 31 | 7 | 3 | 0 | 10 |
| 10:00:00 | 3 | 2 | 0 | 5 | 1 | 1 | 0 | 2 |
| 11:00:00 | 5 | 3 | 0 | 8 | 2 | 1 | 0 | 3 |
| 12:00:00 | 40 | 0 | 0 | 40 | 13 | 0 | 0 | 13 |
| 13:00:00 | 66 | 4 | 0 | 70 | 22 | 1 | 0 | 23 |
| 14:00:00 | 18 | 1 | 0 | 19 | 6 | 1 | 0 | 7 |
| 15:00:00 | 18 | 2 | 0 | 20 | 6 | 1 | 0 | 7 |
| 16:00:00 | 37 | 10 | 0 | 47 | 12 | 3 | 0 | 15 |
| 17:00:00 | 64 | 31 | 0 | 95 | 21 | 10 | 0 | 31 |
| 18:00:00 | 76 | 31 | 0 | 107 | 25 | 10 | 0 | 35 |
| 19:00:00 | 20 | 8 | 1 | 29 | 7 | 3 | 1 | 11 |
| 20:00:00 | 5 | 4 | 0 | 9 | 2 | 1 | 0 | 3 |
| 21:00:00 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 22:00:00 | 2 | 1 | 0 | 3 | 1 | 1 | 0 | 2 |
| 23:00:00 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 |
| Total | 426 | 187 | 5 | 618 | 142 | 62 | 2 | 206 |

APPENDIX

Counts of Congregating Users

| Hour Interval | Link 1 | | | | | Link 2 | | | | | Daily Total across all links |
|---------------|------------|------------|------------|---------------|-------------|------------|------------|------------|---------------|-------------|------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | |
| 07:00:00 | 5 | 1 | 7 | 4 | 13 | 6 | 4 | 2 | 4 | 12 | 8 |
| 08:00:00 | 6 | 6 | 7 | 6 | 19 | 8 | 10 | 8 | 9 | 26 | 15 |
| 09:00:00 | 13 | 5 | 12 | 10 | 30 | 14 | 10 | 8 | 11 | 32 | 21 |
| 10:00:00 | 14 | 15 | 21 | 17 | 50 | 9 | 27 | 9 | 15 | 45 | 32 |
| 11:00:00 | 9 | 16 | 19 | 15 | 44 | 16 | 15 | 12 | 14 | 43 | 29 |
| 12:00:00 | 15 | 16 | 23 | 18 | 54 | 22 | 20 | 14 | 19 | 56 | 37 |
| 13:00:00 | 19 | 15 | 33 | 22 | 67 | 18 | 14 | 10 | 14 | 42 | 36 |
| 14:00:00 | 13 | 20 | 36 | 23 | 69 | 13 | 21 | 21 | 18 | 55 | 41 |
| 15:00:00 | 14 | 51 | 13 | 26 | 78 | 11 | 25 | 9 | 15 | 45 | 41 |
| 16:00:00 | 24 | 47 | 31 | 34 | 102 | 10 | 18 | 14 | 14 | 42 | 48 |
| 17:00:00 | 10 | 42 | 173 | 75 | 225 | 19 | 16 | 19 | 18 | 54 | 93 |
| 18:00:00 | 45 | 120 | 335 | 167 | 500 | 16 | 13 | 12 | 14 | 41 | 180 |
| 19:00:00 | 26 | 163 | 359 | 183 | 548 | 17 | 9 | 12 | 13 | 38 | 195 |
| 20:00:00 | 28 | 80 | 261 | 123 | 369 | 14 | 12 | 16 | 14 | 42 | 137 |
| 21:00:00 | 16 | 43 | 150 | 70 | 209 | 11 | 12 | 19 | 14 | 42 | 84 |
| 22:00:00 | 14 | 19 | 94 | 42 | 127 | 7 | 19 | 22 | 16 | 48 | 58 |
| 23:00:00 | 6 | 4 | 34 | 15 | 44 | 5 | 3 | 9 | 6 | 17 | 20 |
| Total | 277 | 663 | 1608 | 849 | 2548 | 216 | 248 | 216 | 227 | 680 | 1076 |

Counts of Users by Class

| Class | Link 1 | | | | | Link 2 | | | | | 3-day average across all links |
|------------------------------|------------|------------|------------|---------------|-------------|------------|------------|------------|---------------|-------------|--------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | |
| 1. Pedestrian | 14,007 | 12,194 | 15,136 | 13,779 | 41,337 | 10,866 | 9,700 | 13,335 | 11,300 | 33,901 | 25,079 |
| 2. Rental E-Bike | 1,802 | 1,233 | 1,548 | 1,528 | 4,583 | 1,393 | 1,062 | 1,400 | 1,285 | 3,855 | 2,813 |
| 3. TFL Hire Bike | 569 | 439 | 599 | 536 | 1,607 | 496 | 318 | 429 | 414 | 1,243 | 950 |
| 4. Private Cycle/E-Bike | 4,226 | 3,117 | 3,336 | 3,560 | 10,679 | 3,522 | 2,385 | 2,669 | 2,859 | 8,576 | 6,418 |
| 5. Cargo Bike | 119 | 134 | 118 | 124 | 371 | 89 | 107 | 98 | 98 | 294 | 222 |
| 6. Food Delivery Courier | 330 | 425 | 400 | 385 | 1,155 | 203 | 249 | 229 | 227 | 681 | 612 |
| 7. Rental E-Scooter | 30 | 41 | 21 | 31 | 92 | 19 | 23 | 19 | 20 | 61 | 51 |
| 8. Private E-Scooter/Scooter | 23 | 22 | 30 | 25 | 75 | 21 | 21 | 24 | 22 | 66 | 47 |
| Total | 21,106 | 17,605 | 21,188 | 19,966 | 59,899 | 16,609 | 13,865 | 18,203 | 16,226 | 48,677 | 36,192 |

Location 4

Daily Average Counts and Percentages of Cyclists by Speed Ranges

| Time | Daily Average Counts of Cyclists | | | | | | Percentages of Cyclists | | | | | |
|----------|----------------------------------|---------|----------|----------|--------|-------|-------------------------|---------|----------|----------|--------|--|
| | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph | Total | 0-5mph | 5-10mph | 10-15mph | 15-20mph | 20+mph | |
| 07:00:00 | 10 | 188 | 445 | 482 | 14 | 1140 | 0.9% | 16.5% | 39.0% | 42.3% | 1.2% | |
| 08:00:00 | 53 | 420 | 731 | 856 | 21 | 2081 | 2.5% | 20.2% | 35.1% | 41.1% | 1.0% | |
| 09:00:00 | 37 | 227 | 445 | 539 | 5 | 1253 | 3.0% | 18.1% | 35.5% | 43.0% | 0.4% | |
| 10:00:00 | 14 | 84 | 123 | 149 | 2 | 371 | 3.8% | 22.6% | 33.2% | 40.2% | 0.5% | |
| 11:00:00 | 20 | 64 | 120 | 120 | 2 | 326 | 6.1% | 19.6% | 36.8% | 36.8% | 0.6% | |
| 12:00:00 | 14 | 84 | 128 | 125 | 3 | 353 | 4.0% | 23.8% | 36.3% | 35.4% | 0.8% | |
| 13:00:00 | 21 | 76 | 130 | 158 | 4 | 389 | 5.4% | 19.5% | 33.4% | 40.6% | 1.0% | |
| 14:00:00 | 10 | 63 | 122 | 132 | 2 | 329 | 3.0% | 19.1% | 37.1% | 40.1% | 0.6% | |
| 15:00:00 | 15 | 82 | 150 | 189 | 3 | 440 | 3.4% | 18.6% | 34.1% | 43.0% | 0.7% | |
| 16:00:00 | 28 | 141 | 228 | 299 | 19 | 714 | 3.9% | 19.7% | 31.9% | 41.9% | 2.7% | |
| 17:00:00 | 117 | 376 | 517 | 654 | 14 | 1678 | 7.0% | 22.4% | 30.8% | 39.0% | 0.8% | |
| 18:00:00 | 129 | 489 | 547 | 630 | 16 | 1810 | 7.1% | 27.0% | 30.2% | 34.8% | 0.9% | |
| 19:00:00 | 50 | 233 | 314 | 355 | 3 | 955 | 5.2% | 24.4% | 32.9% | 37.2% | 0.3% | |
| 20:00:00 | 12 | 81 | 166 | 216 | 1 | 476 | 2.5% | 17.0% | 34.9% | 45.4% | 0.2% | |
| 21:00:00 | 5 | 51 | 114 | 158 | 1 | 330 | 1.5% | 15.5% | 34.5% | 47.9% | 0.3% | |
| 22:00:00 | 1 | 23 | 79 | 102 | 1 | 206 | 0.5% | 11.2% | 38.3% | 49.5% | 0.5% | |
| 23:00:00 | 1 | 27 | 39 | 57 | 0 | 124 | 0.8% | 21.8% | 31.5% | 46.0% | 0.0% | |
| Total | 537 | 2710 | 4397 | 5221 | 109 | 12975 | 4.1% | 20.9% | 33.9% | 40.2% | 0.8% | |

Average Cycle Speeds by Links & Days

| Time | Link 1 | | | | | Link 2 | | | | | Average speed across All Links |
|----------|------------|------------|------------|---------------|--|------------|------------|------------|---------------|--|--------------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | | |
| 07:00:00 | 12.37 | 12.64 | 14.86 | 13.29 | | 14.31 | 14.70 | 15.16 | 14.72 | | 14.01 |
| 08:00:00 | 12.61 | 13.58 | 15.22 | 13.80 | | 13.15 | 13.32 | 15.24 | 13.91 | | 13.85 |
| 09:00:00 | 12.33 | 14.49 | 14.77 | 13.86 | | 13.01 | 13.04 | 14.99 | 13.68 | | 13.77 |
| 10:00:00 | 11.38 | 11.35 | 15.76 | 12.83 | | 11.74 | 13.64 | 16.28 | 13.89 | | 13.36 |
| 11:00:00 | 12.27 | 12.04 | 15.59 | 13.30 | | 9.00 | 13.83 | 16.09 | 12.97 | | 13.14 |
| 12:00:00 | 11.75 | 11.48 | 15.29 | 12.84 | | 10.99 | 12.97 | 15.23 | 13.06 | | 12.95 |
| 13:00:00 | 11.53 | 12.22 | 16.08 | 13.28 | | 10.31 | 12.52 | 15.14 | 12.66 | | 12.97 |
| 14:00:00 | 13.37 | 11.16 | 15.87 | 13.47 | | 11.96 | 12.75 | 16.11 | 13.60 | | 13.54 |
| 15:00:00 | 15.50 | 10.45 | 15.38 | 13.78 | | 12.02 | 12.62 | 15.58 | 13.41 | | 13.59 |
| 16:00:00 | 16.07 | 11.17 | 14.73 | 13.99 | | 12.92 | 12.35 | 15.03 | 13.43 | | 13.71 |
| 17:00:00 | 12.15 | 13.98 | 14.20 | 13.44 | | 11.93 | 11.77 | 14.24 | 12.64 | | 13.04 |
| 18:00:00 | 12.41 | 11.42 | 13.95 | 12.59 | | 11.52 | 11.48 | 14.29 | 12.43 | | 12.51 |
| 19:00:00 | 12.44 | 11.93 | 14.89 | 13.08 | | 11.66 | 11.81 | 15.05 | 12.84 | | 12.96 |
| 20:00:00 | 12.58 | 12.40 | 15.64 | 13.54 | | 14.02 | 13.79 | 15.14 | 14.32 | | 13.93 |
| 21:00:00 | 13.28 | 12.23 | 15.82 | 13.77 | | 13.71 | 14.24 | 15.28 | 14.41 | | 14.09 |
| 22:00:00 | 13.65 | 12.40 | 15.67 | 13.90 | | 14.55 | 14.04 | 16.17 | 14.92 | | 14.41 |
| 23:00:00 | 13.59 | 11.02 | 16.43 | 13.68 | | 13.23 | 12.08 | 16.70 | 14.00 | | 13.84 |
| Total | 12.90 | 12.12 | 15.30 | 13.44 | | 12.36 | 13.00 | 15.39 | 13.58 | | 13.51 |

APPENDIX

Counts of Interactions by Type

| Hour Interval | 3-Day Total Counts | | | 3-Day Average Counts | | |
|---------------|---|----------------------------------|------------|---|----------------------------------|-----------|
| | A - Early change of direction or slowing down | B - Negotiation or inconvenience | Total | A - Early change of direction or slowing down | B - Negotiation or inconvenience | Total |
| 07:00:00 | 5 | 14 | 19 | 2 | 5 | 6 |
| 08:00:00 | 15 | 84 | 99 | 5 | 28 | 33 |
| 09:00:00 | 4 | 24 | 28 | 1 | 8 | 9 |
| 10:00:00 | 2 | 5 | 7 | 1 | 2 | 2 |
| 11:00:00 | 0 | 1 | 1 | 0 | 1 | 1 |
| 12:00:00 | 2 | 5 | 7 | 1 | 2 | 2 |
| 13:00:00 | 9 | 1 | 10 | 3 | 1 | 3 |
| 14:00:00 | 1 | 0 | 1 | 1 | 0 | 1 |
| 15:00:00 | 4 | 0 | 4 | 1 | 0 | 1 |
| 16:00:00 | 5 | 3 | 8 | 2 | 1 | 3 |
| 17:00:00 | 7 | 23 | 30 | 2 | 8 | 10 |
| 18:00:00 | 1 | 22 | 23 | 1 | 7 | 8 |
| 19:00:00 | 1 | 1 | 2 | 1 | 1 | 1 |
| 20:00:00 | 0 | 1 | 1 | 0 | 1 | 1 |
| 21:00:00 | 1 | 1 | 2 | 1 | 1 | 1 |
| 22:00:00 | 0 | 1 | 1 | 0 | 1 | 1 |
| 23:00:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 57 | 186 | 243 | 19 | 62 | 81 |

Counts of Congregating Users

| Hour Interval | Link 1&2 | | | 3-day Average | 3-day Total |
|---------------|------------|------------|------------|---------------|-------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | | |
| 07:00:00 | 6 | 4 | 4 | 5 | 14 |
| 08:00:00 | 17 | 7 | 8 | 11 | 32 |
| 09:00:00 | 10 | 8 | 9 | 9 | 27 |
| 10:00:00 | 15 | 7 | 9 | 10 | 31 |
| 11:00:00 | 10 | 9 | 12 | 10 | 31 |
| 12:00:00 | 13 | 10 | 18 | 14 | 41 |
| 13:00:00 | 26 | 9 | 18 | 18 | 53 |
| 14:00:00 | 16 | 20 | 10 | 15 | 46 |
| 15:00:00 | 15 | 12 | 8 | 12 | 35 |
| 16:00:00 | 7 | 17 | 24 | 16 | 48 |
| 17:00:00 | 6 | 8 | 15 | 10 | 29 |
| 18:00:00 | 6 | 13 | 15 | 11 | 34 |
| 19:00:00 | 5 | 8 | 9 | 7 | 22 |
| 20:00:00 | 13 | 9 | 10 | 11 | 32 |
| 21:00:00 | 6 | 6 | 14 | 9 | 26 |
| 22:00:00 | | 11 | 10 | 11 | 21 |
| 23:00:00 | 1 | 6 | 7 | 5 | 14 |
| Total | 172 | 164 | 200 | 179 | 536 |

Counts of Users by Class

| Class | Link 1 Footpaths 1 + 2 | | | | | Link 1 On Road | | | | | Link 2 | | | | | 3-day average across all |
|------------------------------|------------------------|---------------|---------------|---------------|---------------|----------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------|
| | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3-day Total | |
| 1. Pedestrian | 11,754 | 10,202 | 12,264 | 11,407 | 34,220 | 743 | 747 | 813 | 768 | 2,303 | 12,387 | 10,945 | 13,173 | 12,170 | 36,509 | 24,344 |
| 2. Rental E-Bike | 3 | 2 | 1 | 2 | 6 | 1,670 | 1,189 | 1,526 | 1,462 | 4,385 | 1,780 | 1,286 | 1,535 | 1,534 | 4,601 | 2,997 |
| 3. TFL Hire Bike | 1 | - | - | 0 | 1 | 716 | 425 | 628 | 596 | 1,769 | 909 | 472 | 603 | 629 | 1,884 | 1,225 |
| 4. Private Cycle/E-Bike | 4 | 4 | - | 3 | 8 | 4,731 | 3,259 | 3,643 | 3,891 | 11,673 | 4,618 | 3,207 | 3,628 | 3,818 | 11,453 | 7,711 |
| 5. Cargo Bike | 1 | - | - | 0 | 1 | 18 | 136 | 106 | 117 | 350 | 17 | 17 | 13 | 16 | 347 | 233 |
| 6. Food Delivery Courier | - | 2 | - | 1 | 2 | 292 | 358 | 344 | 331 | 994 | 335 | 413 | 351 | 365 | 1,099 | 698 |
| 7. Rental E-Scooter | - | - | - | - | - | 40 | 31 | 17 | 29 | 88 | 34 | 35 | 17 | 29 | 86 | 58 |
| 8. Private E-Scooter/Scooter | - | 1 | - | 0 | 1 | 21 | 23 | 34 | 26 | 78 | 26 | 30 | 36 | 31 | 92 | 57 |
| Total | 11,763 | 10,211 | 12,265 | 11,413 | 34,239 | 8,331 | 6,208 | 7,121 | 7,220 | 21,668 | 20,106 | 16,509 | 19,456 | 18,690 | 56,071 | 37,323 |

APPENDIX

Location 5

Daily Average Counts of vehicles obstructing the crossing

| Hour Interval | Eastbound | | | Westbound | | |
|---------------|------------------|----------------------|------------|------------------|----------------------|------------|
| | Over Marked Line | On the Crossing Area | Total | Over Marked Line | On the Crossing Area | Total |
| 7:00 AM | 3 | 0 | 3 | 11 | 8 | 19 |
| 8:00 AM | 5 | 1 | 6 | 13 | 8 | 22 |
| 9:00 AM | 7 | 7 | 14 | 5 | 14 | 20 |
| 10:00 AM | 6 | 3 | 8 | 7 | 10 | 17 |
| 11:00 AM | 7 | 7 | 14 | 7 | 5 | 12 |
| 12:00 PM | 7 | 6 | 13 | 3 | 13 | 16 |
| 1:00 PM | 7 | 12 | 19 | 4 | 9 | 13 |
| 2:00 PM | 13 | 12 | 25 | 3 | 8 | 11 |
| 3:00 PM | 15 | 17 | 31 | 5 | 9 | 14 |
| 4:00 PM | 14 | 9 | 23 | 4 | 5 | 8 |
| 5:00 PM | 4 | 15 | 20 | 2 | 6 | 8 |
| 6:00 PM | 9 | 20 | 29 | 6 | 13 | 19 |
| 7:00 PM | 4 | 5 | 8 | 3 | 5 | 8 |
| 8:00 PM | 3 | 5 | 8 | 3 | 3 | 5 |
| 9:00 PM | 1 | 0 | 1 | 1 | 2 | 3 |
| 10:00 PM | 3 | 0 | 3 | 4 | 2 | 6 |
| 11:00 PM | 1 | 0 | 1 | 2 | 0 | 3 |
| Total | 108 | 119 | 227 | 84 | 120 | 204 |

3 - Day Total counts of interactions by Type:

| Hour Interval | A - Early change of direction or slowing down | B - Negotiation or inconvenience | E - Sudden stop | Total |
|---------------|---|----------------------------------|-----------------|----------|
| 07:00:00 | 2 | | | 2 |
| 08:00:00 | | 1 | | 1 |
| 09:00:00 | | | | 0 |
| 10:00:00 | | | | 0 |
| 11:00:00 | | | | 0 |
| 12:00:00 | | | | 0 |
| 13:00:00 | | | | 0 |
| 14:00:00 | | | 1 | 1 |
| 15:00:00 | | 2 | | 2 |
| 16:00:00 | | | | 0 |
| 17:00:00 | 1 | 1 | | 2 |
| 18:00:00 | | | | 0 |
| 19:00:00 | | | | 0 |
| 20:00:00 | | | | 0 |
| 21:00:00 | | | | 0 |
| 22:00:00 | | | | 0 |
| 23:00:00 | | | | 0 |
| Total | 3 | 4 | 1 | 8 |

APPENDIX

Counts of Users Congregating on Site:

| Hour Interval | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3- day Average | 3-day total |
|---------------|-------------|-------------|-------------|----------------|-------------|
| 07:00:00 | 53 | 33 | 58 | 48.0 | 144 |
| 08:00:00 | 137 | 112 | 106 | 118.3 | 355 |
| 09:00:00 | 113 | 70 | 98 | 93.7 | 281 |
| 10:00:00 | 32 | 63 | 35 | 43.3 | 130 |
| 11:00:00 | 54 | 43 | 55 | 50.7 | 152 |
| 12:00:00 | 81 | 95 | 152 | 109.3 | 328 |
| 13:00:00 | 122 | 98 | 140 | 120.0 | 360 |
| 14:00:00 | 50 | 95 | 70 | 71.7 | 215 |
| 15:00:00 | 58 | 44 | 78 | 60.0 | 180 |
| 16:00:00 | 61 | 122 | 79 | 87.3 | 262 |
| 17:00:00 | 134 | 90 | 153 | 125.7 | 377 |
| 18:00:00 | 128 | 84 | 139 | 117.0 | 351 |
| 19:00:00 | 59 | 55 | 98 | 70.7 | 212 |
| 20:00:00 | 29 | 28 | 50 | 35.7 | 107 |
| 21:00:00 | 39 | 24 | 35 | 32.7 | 98 |
| 22:00:00 | 39 | 33 | 32 | 34.7 | 104 |
| 23:00:00 | 13 | 7 | 24 | 14.7 | 44 |
| Total | 1202 | 1096 | 1402 | 1233.3 | 3700 |

Volumes of Users by Days and Classes

| Class | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Average | 3 -day Total | Percentage |
|------------------------------|------------|------------|------------|---------------|--------------|-------------|
| 1. Pedestrian | 9222 | 9414 | 10940 | 9,859 | 29576 | 68.6% |
| 2. Rental E-Bike | 996 | 727 | 1080 | 934 | 2803 | 6.5% |
| 3. TFL Hire Bike | 403 | 212 | 378 | 331 | 993 | 2.3% |
| 4. Private Cycle/E-Bike | 3580 | 2606 | 2706 | 2,964 | 8892 | 20.6% |
| 5. Cargo Bike | 91 | 111 | 76 | 93 | 278 | 0.6% |
| 6. Food Delivery Courier | 85 | 154 | 199 | 146 | 438 | 1.0% |
| 7. Rental E-Scooter | 19 | 18 | 19 | 19 | 56 | 0.1% |
| 8. Private E-Scooter/Scooter | 8 | 26 | 19 | 18 | 53 | 0.1% |
| Total | 469 | 421 | 402 | 14,363 | 1292 | 100% |

Daily Average Volumes by class and hour intervals

| Hour Interval | 1. Pedestrian | 2. Rental E-Bike | 3. TFL Hire Bike | 4. Private Cycle/E-Bike | 5. Cargo Bike | 6. Food Delivery Courier | 7. Rental E-Scooter | 8. Private E-Scooter/Scooter | All classes |
|---------------|---------------|------------------|------------------|-------------------------|---------------|--------------------------|---------------------|------------------------------|--------------|
| 07:00:00 | 271 | 71 | 44 | 307 | 4 | 1 | 1 | 3 | 703 |
| 08:00:00 | 732 | 130 | 40 | 586 | 5 | 3 | 2 | 1 | 1498 |
| 09:00:00 | 667 | 111 | 45 | 291 | 7 | 4 | 1 | 0 | 1126 |
| 10:00:00 | 394 | 42 | 14 | 60 | 9 | 5 | 2 | 1 | 527 |
| 11:00:00 | 466 | 30 | 13 | 53 | 12 | 13 | 0 | 0 | 588 |
| 12:00:00 | 1214 | 25 | 8 | 50 | 12 | 23 | 1 | 0 | 1333 |
| 13:00:00 | 1141 | 27 | 5 | 67 | 11 | 13 | 1 | 1 | 1265 |
| 14:00:00 | 735 | 33 | 7 | 55 | 3 | 7 | 1 | 0 | 841 |
| 15:00:00 | 510 | 43 | 14 | 84 | 10 | 7 | 1 | 0 | 670 |
| 16:00:00 | 587 | 68 | 22 | 152 | 8 | 7 | 1 | 3 | 848 |
| 17:00:00 | 998 | 123 | 35 | 407 | 4 | 5 | 1 | 1 | 1574 |
| 18:00:00 | 923 | 128 | 54 | 422 | 2 | 9 | 3 | 2 | 1543 |
| 19:00:00 | 488 | 46 | 11 | 224 | 3 | 16 | 1 | 2 | 790 |
| 20:00:00 | 270 | 23 | 11 | 95 | 3 | 14 | 1 | 0 | 418 |
| 21:00:00 | 193 | 14 | 2 | 58 | 0 | 11 | 1 | 1 | 279 |
| 22:00:00 | 204 | 13 | 3 | 35 | 0 | 7 | 1 | 2 | 265 |
| 23:00:00 | 66 | 6 | 2 | 20 | 0 | 2 | 1 | 1 | 97 |
| TOTAL | 9859 | 934 | 331 | 2964 | 93 | 146 | 19 | 18 | 14363 |

Daily Average Volumes by Green and Red Man, by hour interval

| Hour Interval | Green Man | Red Man | Total | % of Green Man | % of Red Man |
|---------------|-------------|-------------|--------------|----------------|--------------|
| 07:00:00 | 356 | 347 | 703 | 51% | 49% |
| 08:00:00 | 846 | 652 | 1498 | 56% | 44% |
| 09:00:00 | 653 | 472 | 1126 | 58% | 42% |
| 10:00:00 | 332 | 195 | 527 | 63% | 37% |
| 11:00:00 | 336 | 252 | 588 | 57% | 43% |
| 12:00:00 | 784 | 548 | 1333 | 59% | 41% |
| 13:00:00 | 799 | 466 | 1265 | 63% | 37% |
| 14:00:00 | 501 | 340 | 841 | 60% | 40% |
| 15:00:00 | 396 | 274 | 670 | 59% | 41% |
| 16:00:00 | 486 | 362 | 848 | 57% | 43% |
| 17:00:00 | 1004 | 570 | 1574 | 64% | 36% |
| 18:00:00 | 1031 | 511 | 1543 | 67% | 33% |
| 19:00:00 | 432 | 358 | 790 | 55% | 45% |
| 20:00:00 | 210 | 208 | 418 | 50% | 50% |
| 21:00:00 | 115 | 164 | 279 | 41% | 59% |
| 22:00:00 | 127 | 138 | 265 | 48% | 52% |
| 23:00:00 | 21 | 76 | 97 | 22% | 78% |
| TOTAL | 8430 | 5933 | 14363 | 59% | 41% |

APPENDIX

Cycle Tracking - direction of movement ranked by daily average volumes of cyclists

| TOP | Direction | 3-day Average |
|-----|-----------|---------------|
| 1 | A - C | 2371 |
| 2 | C - A | 2347 |
| 3 | D - B | 1246 |
| 4 | B - D | 1139 |
| 5 | D - C | 472 |
| 6 | C - D | 348 |
| 7 | B - C | 247 |
| 8 | C - B | 171 |
| 9 | B - A | 67 |
| 10 | A - B | 60 |
| 11 | D - A | 16 |
| 12 | A - D | 13 |
| 13 | D - D | 2 |
| 14 | A - A | 1 |
| 15 | B - B | 1 |
| 16 | C - C | 1 |

Cycle Tracking - Counts of Cyclists by Class and Days

| Class | 02/09/2025 | 03/09/2025 | 04/09/2025 | 3-day Total | 3-day Average |
|---------------------------|------------|------------|------------|-------------|---------------|
| Cargo Bike | 167 | 165 | 177 | 509 | 170 |
| Food Delivery Courier | 540 | 538 | 554 | 1,632 | 544 |
| Private Cycle/E-Bike | 5,905 | 4,225 | 4,780 | 14,910 | 4,970 |
| Private E-Scooter/Scooter | 46 | 24 | 33 | 103 | 34 |
| Rental E-Bike | 2,188 | 1,571 | 2,444 | 6,203 | 2,068 |
| Rental E-Scooter | 28 | 35 | 35 | 98 | 33 |
| TfL Hire Bike | 951 | 510 | 585 | 2,046 | 682 |
| All Classes | 9,825 | 7,068 | 8,608 | 25,501 | 8,500 |

Desire Lines - Direction of Movement Ranked by 3-Day Average Volumes

| Direction | 02/09/2025 | 03/09/2025 | 04/09/2025 | AVERAGE |
|---------------|------------|------------|------------|---------|
| N2 -> S2 | 4613 | 3619 | 4571 | 4268 |
| S2 -> N2 | 4873 | 3601 | 4194 | 4223 |
| N3 -> S3 | 1057 | 899 | 1266 | 1074 |
| S1 -> N1 | 873 | 939 | 1390 | 1067 |
| N1 -> S1 | 1093 | 846 | 1260 | 1066 |
| S3 -> N3 | 781 | 682 | 860 | 774 |
| S1 -> N2 | 129 | 184 | 477 | 263 |
| N3 -> S2 | 191 | 299 | 267 | 252 |
| N2 -> S3 | 118 | 128 | 251 | 166 |
| N2 -> S1 | 85 | 212 | 187 | 161 |
| N1 -> S2 | 149 | 178 | 153 | 160 |
| S2 -> N3 | 116 | 112 | 182 | 137 |
| S3 -> N2 | 102 | 126 | 180 | 136 |
| S2 -> N1 | 69 | 73 | 107 | 83 |
| S2 -> Outside | 57 | 30 | 13 | 33 |
| S3 -> Outside | 34 | 13 | 13 | 20 |
| N1 -> Outside | 12 | 19 | 5 | 12 |
| N3 -> S1 | 10 | 10 | 13 | 11 |
| S1 -> Outside | 12 | 15 | 5 | 11 |
| N2 -> Outside | 7 | 12 | 4 | 8 |
| S1 -> N3 | 6 | 10 | 6 | 7 |
| N3 -> Outside | 7 | 10 | 0 | 6 |
| S3 -> N1 | 5 | 4 | 7 | 5 |
| N1 -> S3 | 5 | 4 | 6 | 5 |
| Outside -> N2 | 3 | 2 | 6 | 4 |
| Outside -> N1 | 2 | 4 | 0 | 2 |
| Outside -> N3 | 1 | 2 | 1 | 1 |
| Outside -> S2 | 2 | 0 | 2 | 1 |
| Outside -> S3 | 0 | 0 | 1 | 1 |
| Total | 14412 | 12033 | 15427 | 13957 |