

Simulation Summary

Technical summary for the current simulation artifact.

BUILDING

99742 West Dragonfly Lane

DISPATCHER

rust_eta_route_aware

CAPACITY FACTOR

80%

GENERATED

2026-04-18 12:22 UTC

TRAFFIC PATTERN

Mixed

COINCIDENT CALL BONUS

Auto

LOAD BYPASS THRESHOLD

80%

AUDIT

e33bf145-aeb6-4563-8d78-fd34ba314c1d

Building Data

Building summary followed by the floor-by-floor table.

Building Type	Residential	Total population	798
Upper floors	42		
Basements	0		

Floor	Height	Population	Entrance	Bias Weight	Lobby	Zone
Lobby	3.6 m	0	Yes	100%	Yes	--
Level 1	3.6 m	19	No	--	No	--
Level 2	3.6 m	19	No	--	No	--
Level 3	3.6 m	19	No	--	No	--
Level 4	3.6 m	19	No	--	No	--
Level 5	3.6 m	19	No	--	No	--
Level 6	3.6 m	19	No	--	No	--
Level 7	3.6 m	19	No	--	No	--
Level 8	3.6 m	19	No	--	No	--
Level 9	3.6 m	19	No	--	No	--
Level 10	3.6 m	19	No	--	No	--
Level 11	3.6 m	19	No	--	No	--
Level 12	3.6 m	19	No	--	No	--
Level 13	3.6 m	19	No	--	No	--
Level 14	3.6 m	19	No	--	No	--
Level 15	3.6 m	19	No	--	No	--
Level 16	3.6 m	19	No	--	No	--

Building floors (continued)

Floor	Height	Population	Entrance	Bias Weight	Lobby	Zone
Level 17	3.6 m	19	No	--	No	--
Level 18	3.6 m	19	No	--	No	--
Level 19	3.6 m	19	No	--	No	--
Level 20	3.6 m	19	No	--	No	--
Level 21	3.6 m	19	No	--	No	--
Level 22	3.6 m	19	No	--	No	--
Level 23	3.6 m	19	No	--	No	--
Level 24	3.6 m	19	No	--	No	--
Level 25	3.6 m	19	No	--	No	--
Level 26	3.6 m	19	No	--	No	--
Level 27	3.6 m	19	No	--	No	--
Level 28	3.6 m	19	No	--	No	--
Level 29	3.6 m	19	No	--	No	--
Level 30	3.6 m	19	No	--	No	--
Level 31	3.6 m	19	No	--	No	--
Level 32	3.6 m	19	No	--	No	--
Level 33	3.6 m	19	No	--	No	--
Level 34	3.6 m	19	No	--	No	--
Level 35	3.6 m	19	No	--	No	--
Level 36	3.6 m	19	No	--	No	--
Level 37	3.6 m	19	No	--	No	--
Level 38	3.6 m	19	No	--	No	--
Level 39	3.6 m	19	No	--	No	--
Level 40	3.6 m	19	No	--	No	--
Level 41	3.6 m	19	No	--	No	--
Level 42	3.6 m	19	No	--	No	--

Elevator Data

Group configuration and service zoning.

Cars	4	Jerk	1.5 m/s ³
Capacity	1,275 kg	Door type	Center opening
Capacity (persons)	17	Door width	1,100 mm
Speed	6 m/s	Door open time	1.7 s
Acceleration	1 m/s ²	Door close time	2.5 s
Levelling delay	0.5 s	Dwell 2	2 s
Door reopening	0 s	Main floor dwell	3 s

Zone	Cars	Served floors
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Passenger Data

Traffic assumptions and passenger handling inputs.

Traffic Pattern	Mixed	Interfloor %	3%
Demand	12% population / 5 min	Passenger mass	75 kg
Incoming %	6%	Loading time	1.1 s
Outgoing %	3%	Unloading time	1.1 s

Key Results

Primary service KPIs followed by numeric result tables.

COMPLETION RATE	AVERAGE WAITING	AVERAGE TRANSIT	AVERAGE JOURNEY	AVERAGE INTERVAL	EVENTS PROCESSED
78.2%	364.2 s	114.1 s	478.3 s	119.1 s	5,715

Metric	Average	Std dev	P50	P75	P90	P95	P99
Waiting Time	364.2 s	315.2	281.5	550	868.4	975.9	1,078.7
Transit Time	114.1 s	67.2	107	162.8	210.6	232.5	259.6
Journey Time	478.3 s	334.2	376	684.3	1,014	1,115.5	1,290
Dispatch Interval	119.1 s	152.3	22.1	234.2	367.7	380.7	421.9

Window	Waiting	Transit	Journey	Interval	Lobby load	Stops
0-60 min	331.3 s	111.4 s	442.6 s	89.7 s	10.9	--
5-55 min	364.2 s	114.1 s	478.3 s	119.1 s	13	--

Primary Charts

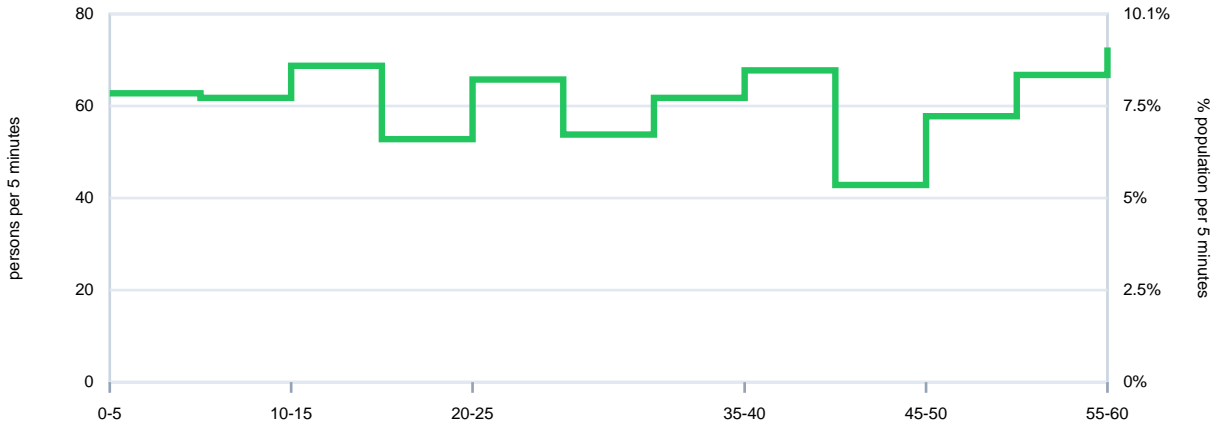
Core simulation behavior and service quality over time.

PRIMARY

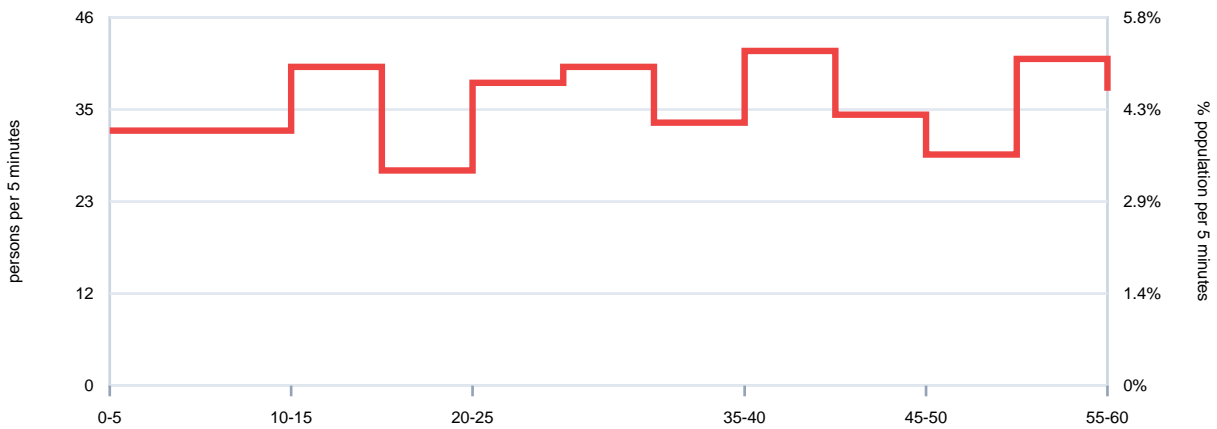
Passenger Demand

Total Up/Down Traffic - solid green/red line above/below

Up Demand



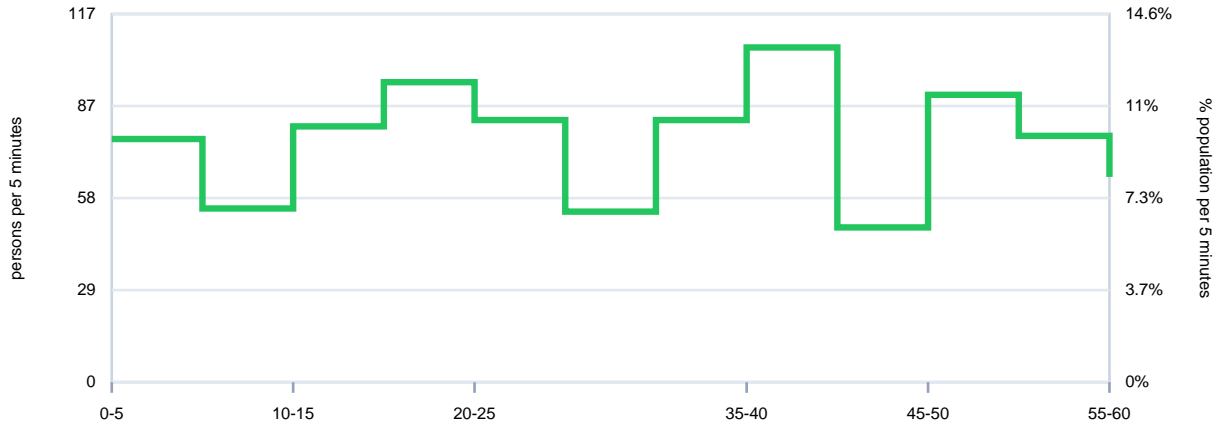
Down Demand



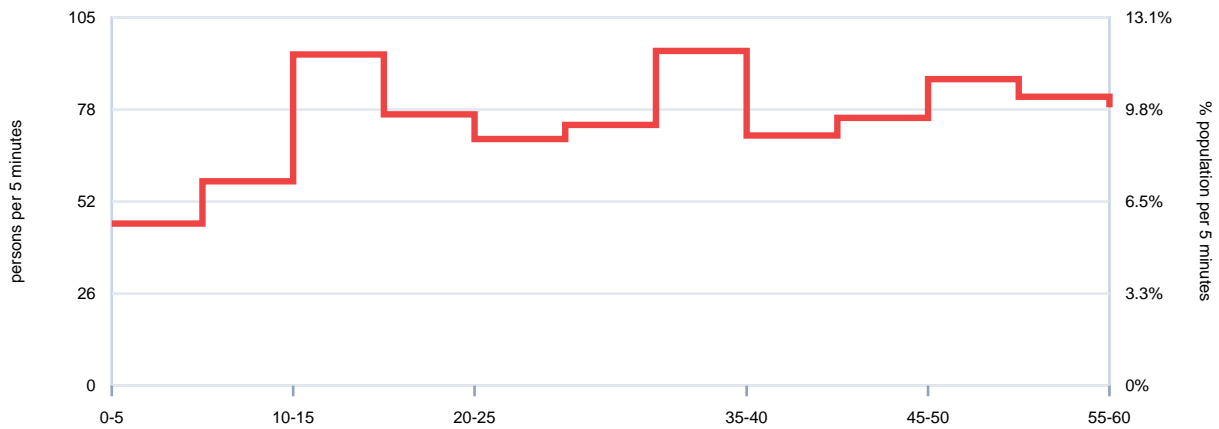
Passenger Transfer by Floor

Total Loading/Unloading for all floors - solid green/red line above/below

Boarding

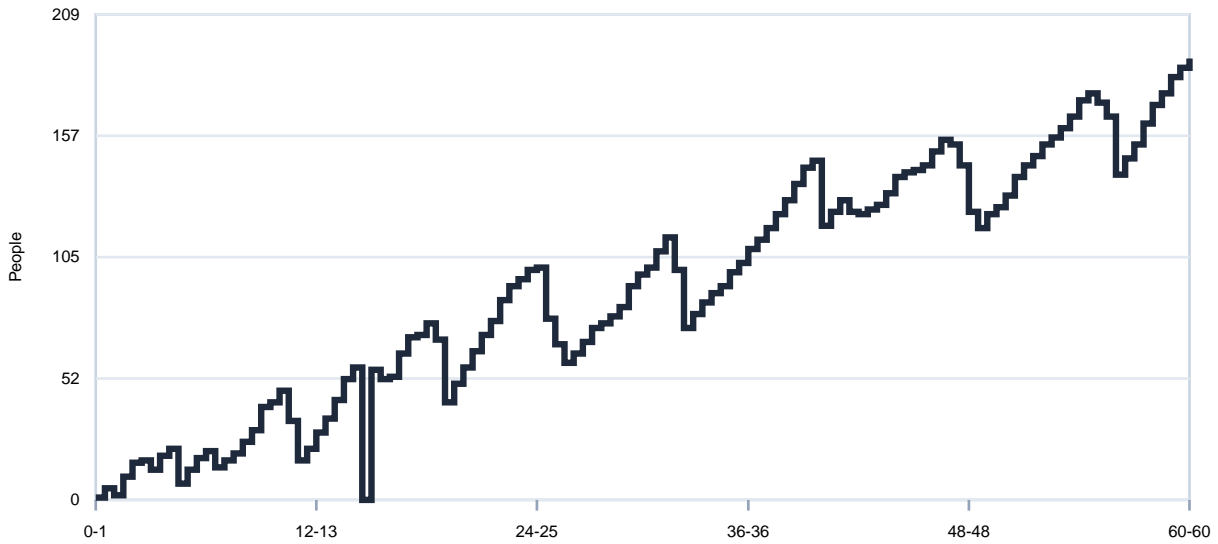


Alighting



Queue Lengths

Total for all floors

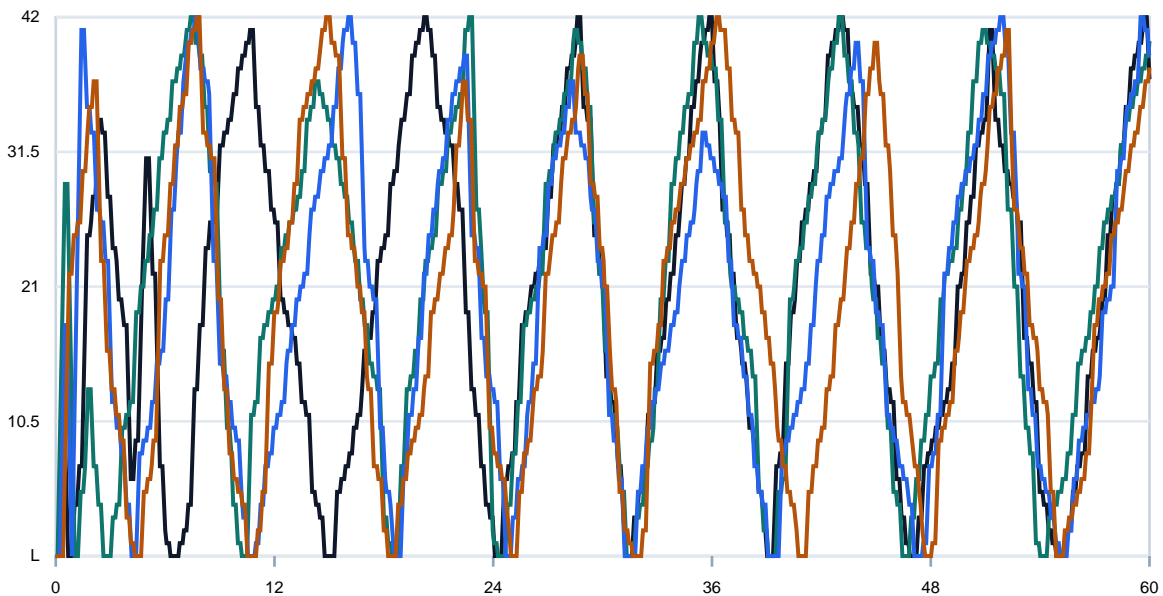


Time (minutes)

● Queue Length

Spatial Plot

All Elevators

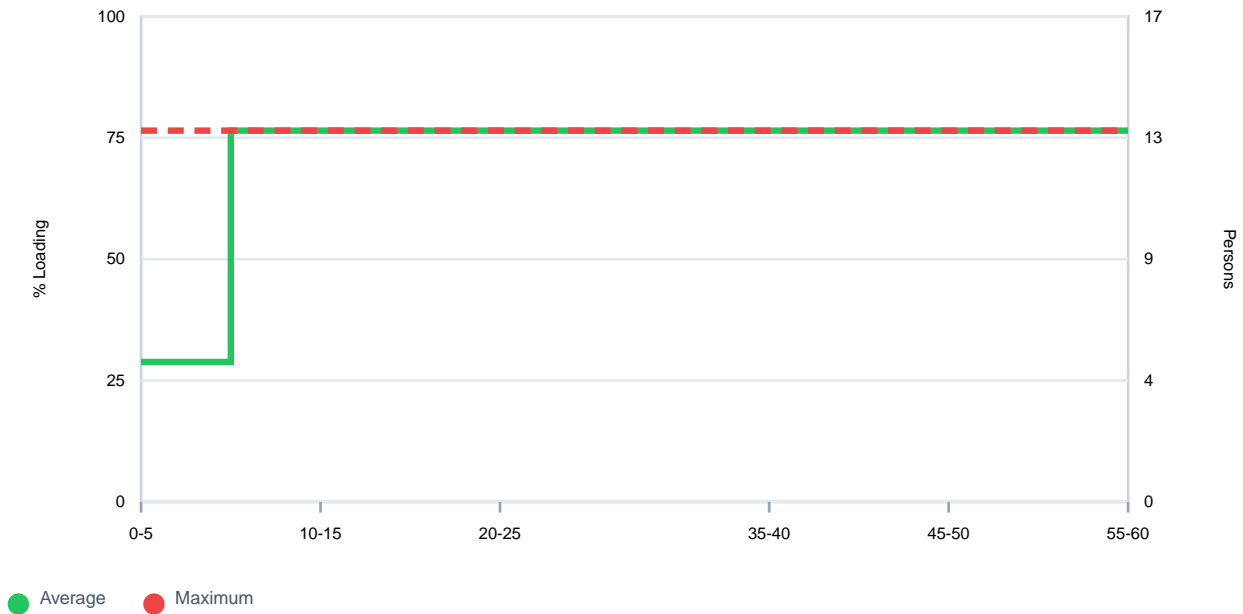


Time (minutes) / Level

● Elevator 1 ● Elevator 2 ● Elevator 3 ● Elevator 4

Car Loading on Departure from Home Floor

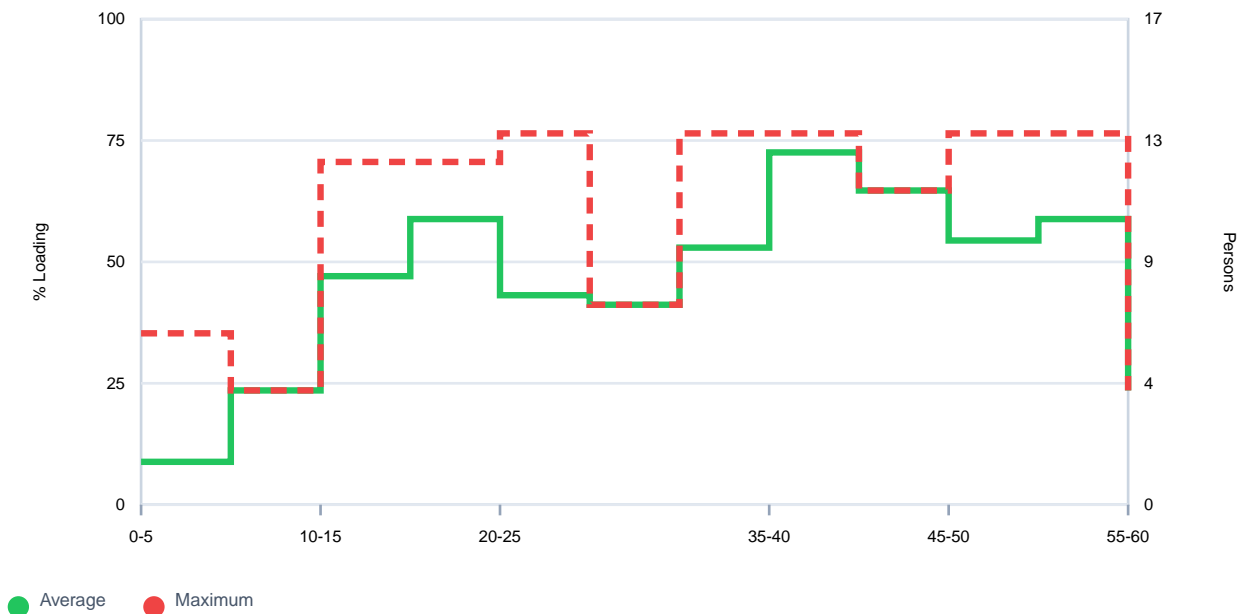
in 5 minute periods Average - solid green line, Maximum - dotted red line



Worst Average Capacity Factor by Area during any 5 min period (%): 76.5

Car Loading on Arrival at Home Floor

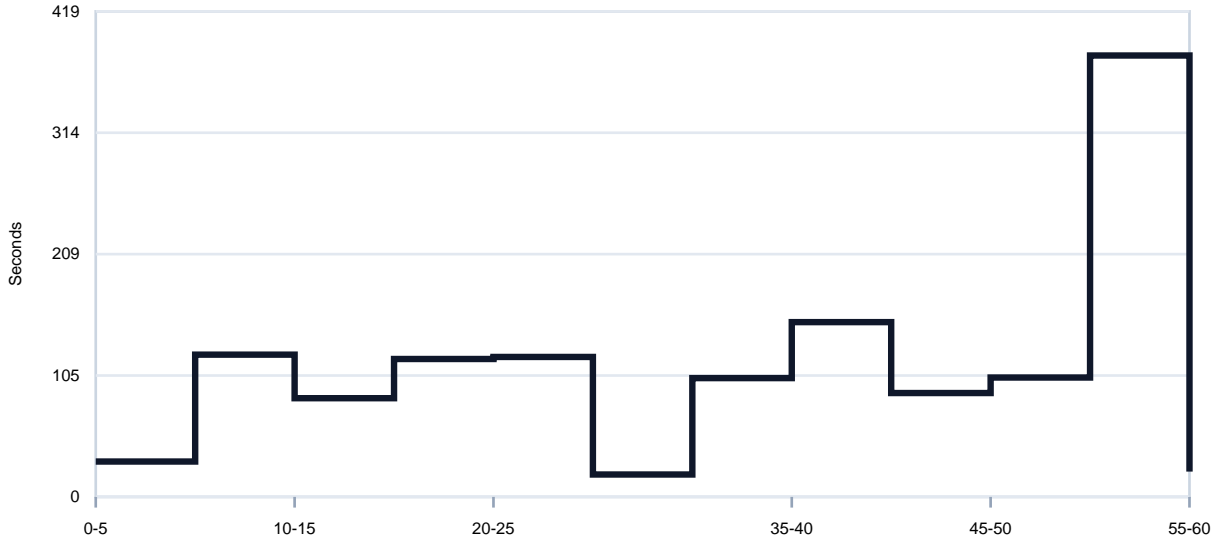
in 5 minute periods Average - solid green line, Maximum - dotted red line



Worst Average Capacity Factor by Area during any 5 min period (%): 72.5

Average Interval

Headway entre salidas consecutivas del lobby agrupado por ventana temporal.



Time (minutes)

● Interval

Average Waiting and Time to Destination

Waiting - solid red line; Time to Destination - dotted green line. All Floors over complete duration



Time (minutes)

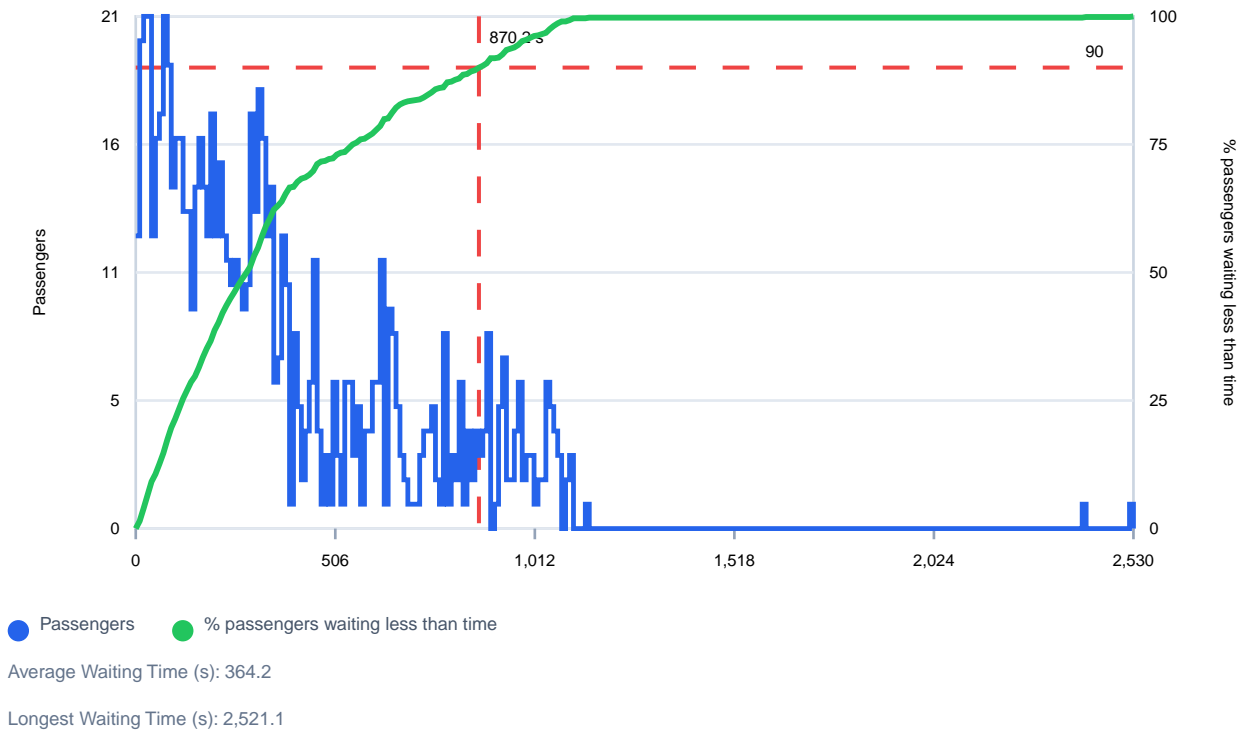
● Waiting ● Time to Destination

Worst Average Waiting Time during any 5 min period (s): 617

Worst Average Time to Destination during any 5 min period (s): 743.6

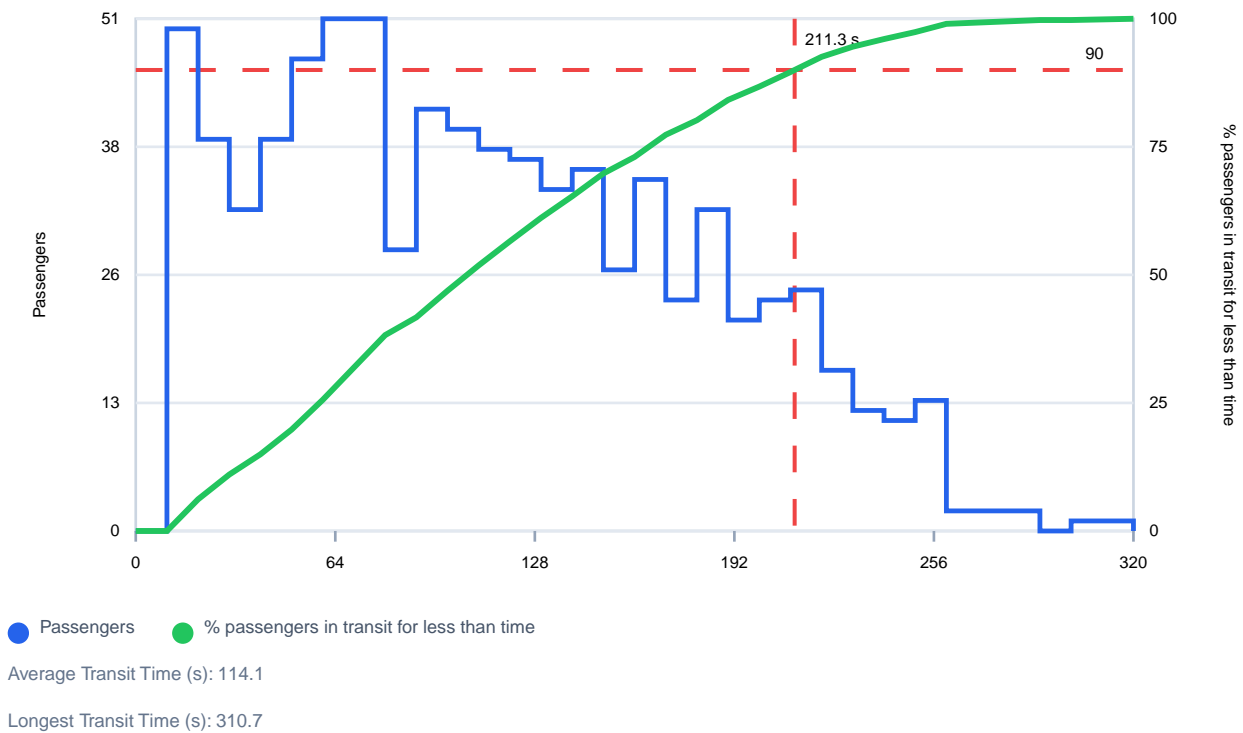
Distribution of Passenger Waiting Times

All Floors over complete duration



Distribution of Passenger Transit Times

All Floors over complete duration



Distribution of Passenger Journey Times

All Floors over complete duration

