

Junctions 9
ARCADY 9 - Roundabout Module
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»Base 2023, AM
»Base 2023, PM
»FB 2025, AM
»FB 2025, PM
»FB 2028, AM
»FB 2028, PM
»DS 2028, AM
»DS 2028, PM
»FB 2036, AM
»FB 2036, PM
»DS 2036, AM
»DS 2036, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
Base 2023								
1 - Wide Lane (NE)	1.4	5.64	0.55	A	2.2	7.33	0.69	A
2 - Wide Lane (S)	1.6	6.12	0.61	A	1.4	6.07	0.58	A
3 - A335 (NW)	14.1	65.67	0.96	F	2.5	13.39	0.71	B
4 - A335 (NW)	2.5	15.46	0.70	C	1.5	9.42	0.59	A
FB 2025								
1 - Wide Lane (NE)	1.5	6.03	0.58	A	2.5	8.05	0.71	A
2 - Wide Lane (S)	1.8	6.70	0.64	A	1.7	6.78	0.62	A
3 - A335 (NW)	20.0	88.03	1.00	F	2.8	14.64	0.73	B
4 - A335 (NW)	3.1	18.66	0.75	C	1.7	10.32	0.62	B
FB 2028								
1 - Wide Lane (NE)	1.7	6.82	0.61	A	3.0	9.64	0.75	A
2 - Wide Lane (S)	2.4	8.06	0.70	A	2.3	8.41	0.69	A
3 - A335 (NW)	29.8	122.57	1.04	F	3.2	16.66	0.76	C
4 - A335 (NW)	5.6	30.82	0.85	D	2.3	12.87	0.69	B
DS 2028								
1 - Wide Lane (NE)	2.3	8.58	0.68	A	4.3	13.85	0.82	B
2 - Wide Lane (S)	4.5	13.35	0.81	B	6.9	20.90	0.88	C
3 - A335 (NW)	33.4	135.48	1.05	F	3.5	18.26	0.78	C
4 - A335 (NW)	80.7	301.75	1.18	F	6.9	32.95	0.88	D
FB 2036								
1 - Wide Lane (NE)	2.3	8.50	0.68	A	4.5	13.66	0.82	B
2 - Wide Lane (S)	4.3	12.87	0.81	B	4.7	15.19	0.83	C
3 - A335 (NW)	64.7	242.91	1.15	F	4.7	23.96	0.83	C
4 - A335 (NW)	27.8	120.57	1.03	F	4.0	20.48	0.80	C
DS 2036								
1 - Wide Lane (NE)	2.7	9.48	0.72	A	6.9	21.55	0.88	C
2 - Wide Lane (S)	10.9	29.82	0.93	D	33.1	80.50	1.02	F
3 - A335 (NW)	68.3	257.09	1.16	F	5.1	25.81	0.84	D
4 - A335 (NW)	170.6	714.03	1.37	F	19.1	79.98	0.99	F

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	A335, Wide Ln Rbt
Location	50.950678, -1.364807
Site number	
Date	28/03/2019
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CORP\INJV01568
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2023	AM	ONE HOUR	07:45	09:15	15	✓
D2	Base 2023	PM	ONE HOUR	16:45	18:15	15	✓
D3	FB 2025	AM	ONE HOUR	07:45	09:15	15	✓
D4	FB 2025	PM	ONE HOUR	16:45	18:15	15	✓
D5	FB 2028	AM	ONE HOUR	07:45	09:15	15	✓
D6	FB 2028	PM	ONE HOUR	16:45	18:15	15	✓
D7	DS 2028	AM	ONE HOUR	07:45	09:15	15	✓
D8	DS 2028	PM	ONE HOUR	16:45	18:15	15	✓
D9	FB 2036	AM	ONE HOUR	07:45	09:15	15	✓
D10	FB 2036	PM	ONE HOUR	16:45	18:15	15	✓
D11	DS 2036	AM	ONE HOUR	07:45	09:15	15	✓
D12	DS 2036	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

Base 2023, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	22.69	C

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	Wide Lane (NE)	
2	Wide Lane (S)	
3	A335 (NW)	
4	A335 (NW)	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1 - Wide Lane (NE)	6.00	7.80	13.0	29.0	22.0	62.7	
2 - Wide Lane (S)	3.72	9.60	19.0	69.0	22.0	42.0	
3 - A335 (NW)	3.80	3.80	0.0	25.3	22.0	38.5	
4 - A335 (NW)	3.80	3.80	0.0	25.6	22.0	38.5	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1 - Wide Lane (NE)	0.691	1980
2 - Wide Lane (S)	0.725	2008
3 - A335 (NW)	0.540	1129
4 - A335 (NW)	0.540	1130

The slope and intercept shown above include any corrections and adjustments.

Arm Capacity Adjustments

Arm	Type	Reason	Direct capacity adjustment (PCU/hr)
2 - Wide Lane (S)	Direct		0

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2023	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	790	100.000
2 - Wide Lane (S)		ONE HOUR	✓	864	100.000
3 - A335 (NW)		ONE HOUR	✓	737	100.000
4 - A335 (NW)		ONE HOUR	✓	539	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	232	558	0
	2 - Wide Lane (S)	484	0	380	0
	3 - A335 (NW)	0	0	0	737
	4 - A335 (NW)	0	536	3	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	3	13	0
	2 - Wide Lane (S)	1	0	7	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	7	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.55	5.64	1.4	A	725	1087
2 - Wide Lane (S)	0.61	6.12	1.6	A	793	1189
3 - A335 (NW)	0.96	65.67	14.1	F	676	1014
4 - A335 (NW)	0.70	15.46	2.5	C	495	742

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	595	149	403	1702	0.349	592	363	0.0	0.6	3.557	A
2 - Wide Lane (S)	650	163	421	1703	0.382	648	574	0.0	0.6	3.523	A
3 - A335 (NW)	555	139	363	933	0.594	549	706	0.0	1.5	9.596	A
4 - A335 (NW)	406	101	363	934	0.435	403	549	0.0	0.8	7.220	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	710	178	483	1647	0.431	709	434	0.6	0.8	4.215	A
2 - Wide Lane (S)	777	194	504	1643	0.473	776	688	0.6	0.9	4.292	A
3 - A335 (NW)	663	166	434	895	0.740	657	845	1.5	2.8	15.427	C
4 - A335 (NW)	485	121	434	895	0.541	483	657	0.8	1.2	9.319	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	870	217	589	1573	0.553	868	531	0.8	1.3	5.589	A
2 - Wide Lane (S)	951	238	616	1562	0.609	949	840	0.9	1.6	6.055	A
3 - A335 (NW)	811	203	531	842	0.963	779	1033	2.8	11.0	44.622	E
4 - A335 (NW)	593	148	531	843	0.704	589	779	1.2	2.4	14.909	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	870	217	593	1570	0.554	870	533	1.3	1.4	5.644	A
2 - Wide Lane (S)	951	238	618	1561	0.610	951	845	1.6	1.6	6.118	A
3 - A335 (NW)	811	203	533	842	0.964	799	1036	11.0	14.1	65.670	F
4 - A335 (NW)	593	148	533	842	0.705	593	799	2.4	2.5	15.461	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	710	178	489	1642	0.432	712	437	1.4	0.8	4.262	A
2 - Wide Lane (S)	777	194	506	1642	0.473	779	696	1.6	0.9	4.336	A
3 - A335 (NW)	663	166	437	894	0.741	706	849	14.1	3.2	23.797	C
4 - A335 (NW)	485	121	437	894	0.542	489	706	2.5	1.3	9.641	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	595	149	408	1699	0.350	596	365	0.8	0.6	3.591	A
2 - Wide Lane (S)	650	163	423	1702	0.382	652	580	0.9	0.6	3.553	A
3 - A335 (NW)	555	139	365	932	0.595	561	710	3.2	1.6	10.267	B
4 - A335 (NW)	406	101	365	933	0.435	408	561	1.3	0.8	7.373	A

Base 2023, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	8.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2023	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	990	100.000
2 - Wide Lane (S)		ONE HOUR	✓	762	100.000
3 - A335 (NW)		ONE HOUR	✓	620	100.000
4 - A335 (NW)		ONE HOUR	✓	519	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	4	297	689	0
	2 - Wide Lane (S)	274	0	488	0
	3 - A335 (NW)	0	0	0	620
	4 - A335 (NW)	0	514	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	2	0	4	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.69	7.33	2.2	A	908	1363
2 - Wide Lane (S)	0.58	6.07	1.4	A	699	1049
3 - A335 (NW)	0.71	13.39	2.5	B	569	853
4 - A335 (NW)	0.59	9.42	1.5	A	476	714

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	745	186	388	1712	0.435	742	208	0.0	0.8	3.736	A
2 - Wide Lane (S)	574	143	523	1629	0.352	571	607	0.0	0.6	3.508	A
3 - A335 (NW)	467	117	208	1017	0.459	463	886	0.0	0.9	6.788	A
4 - A335 (NW)	391	98	208	1017	0.384	388	463	0.0	0.6	5.870	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	890	222	466	1659	0.537	888	250	0.8	1.2	4.711	A
2 - Wide Lane (S)	685	171	626	1554	0.441	684	728	0.6	0.8	4.268	A
3 - A335 (NW)	557	139	250	995	0.560	556	1061	0.9	1.3	8.577	A
4 - A335 (NW)	467	117	250	995	0.469	466	556	0.6	0.9	6.986	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1090	273	569	1587	0.687	1086	305	1.2	2.2	7.200	A
2 - Wide Lane (S)	839	210	766	1453	0.577	837	889	0.8	1.4	6.007	A
3 - A335 (NW)	683	171	305	965	0.708	678	1297	1.3	2.4	12.996	B
4 - A335 (NW)	571	143	305	965	0.592	569	678	0.9	1.5	9.313	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1090	273	571	1585	0.688	1090	306	2.2	2.2	7.331	A
2 - Wide Lane (S)	839	210	768	1451	0.578	839	893	1.4	1.4	6.072	A
3 - A335 (NW)	683	171	306	964	0.708	682	1301	2.4	2.5	13.389	B
4 - A335 (NW)	571	143	306	964	0.592	571	682	1.5	1.5	9.425	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	890	222	469	1656	0.537	894	251	2.2	1.2	4.793	A
2 - Wide Lane (S)	685	171	630	1551	0.442	687	732	1.4	0.8	4.314	A
3 - A335 (NW)	557	139	251	994	0.561	562	1067	2.5	1.4	8.836	A
4 - A335 (NW)	467	117	251	994	0.469	469	562	1.5	0.9	7.082	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	745	186	392	1709	0.436	747	210	1.2	0.8	3.785	A
2 - Wide Lane (S)	574	143	527	1626	0.353	575	612	0.8	0.6	3.537	A
3 - A335 (NW)	467	117	210	1016	0.459	469	892	1.4	0.9	6.926	A
4 - A335 (NW)	391	98	210	1017	0.384	392	469	0.9	0.6	5.946	A

FB 2025, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	28.88	D

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	FB 2025	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	811	100.000
2 - Wide Lane (S)		ONE HOUR	✓	908	100.000
3 - A335 (NW)		ONE HOUR	✓	752	100.000
4 - A335 (NW)		ONE HOUR	✓	568	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	241	570	0
	2 - Wide Lane (S)	504	0	404	0
	3 - A335 (NW)	0	0	0	752
	4 - A335 (NW)	0	568	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	3	13	0
	2 - Wide Lane (S)	1	0	6	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	7	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.58	6.03	1.5	A	744	1116
2 - Wide Lane (S)	0.64	6.70	1.8	A	833	1250
3 - A335 (NW)	1.00	88.03	20.0	F	690	1035
4 - A335 (NW)	0.75	18.66	3.1	C	521	782

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	611	153	424	1687	0.362	608	378	0.0	0.6	3.657	A
2 - Wide Lane (S)	684	171	427	1698	0.402	681	605	0.0	0.7	3.641	A
3 - A335 (NW)	566	142	378	925	0.612	560	730	0.0	1.6	10.077	B
4 - A335 (NW)	428	107	378	926	0.462	424	560	0.0	0.9	7.624	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	729	182	509	1629	0.448	728	452	0.6	0.9	4.383	A
2 - Wide Lane (S)	816	204	512	1637	0.499	815	725	0.7	1.0	4.508	A
3 - A335 (NW)	676	169	452	885	0.764	670	874	1.6	3.1	16.917	C
4 - A335 (NW)	511	128	452	885	0.577	509	670	0.9	1.4	10.163	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	893	223	619	1553	0.575	891	553	0.9	1.5	5.951	A
2 - Wide Lane (S)	1000	250	626	1554	0.643	997	884	1.0	1.8	6.618	A
3 - A335 (NW)	828	207	553	831	0.997	783	1069	3.1	14.3	54.064	F
4 - A335 (NW)	625	156	553	831	0.753	619	783	1.4	3.0	17.642	C

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	893	223	625	1548	0.577	893	555	1.5	1.5	6.030	A
2 - Wide Lane (S)	1000	250	628	1553	0.644	1000	890	1.8	1.8	6.705	A
3 - A335 (NW)	828	207	555	830	0.998	805	1072	14.3	20.0	88.027	F
4 - A335 (NW)	625	156	555	830	0.753	625	805	3.0	3.1	18.661	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	729	182	517	1623	0.449	731	455	1.5	0.9	4.446	A
2 - Wide Lane (S)	816	204	514	1636	0.499	819	735	1.8	1.0	4.569	A
3 - A335 (NW)	676	169	455	884	0.765	741	879	20.0	3.7	34.786	D
4 - A335 (NW)	511	128	455	884	0.578	517	741	3.1	1.5	10.675	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	611	153	430	1683	0.363	612	380	0.9	0.6	3.692	A
2 - Wide Lane (S)	684	171	430	1697	0.403	685	612	1.0	0.7	3.675	A
3 - A335 (NW)	566	142	380	924	0.613	574	735	3.7	1.7	10.942	B
4 - A335 (NW)	428	107	380	924	0.463	430	574	1.5	0.9	7.823	A

FB 2025, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	9.51	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	FB 2025	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	1015	100.000
2 - Wide Lane (S)		ONE HOUR	✓	810	100.000
3 - A335 (NW)		ONE HOUR	✓	633	100.000
4 - A335 (NW)		ONE HOUR	✓	541	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	4	308	703	0
	2 - Wide Lane (S)	291	0	519	0
	3 - A335 (NW)	0	0	0	633
	4 - A335 (NW)	0	536	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	2	0	4	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.71	8.05	2.5	A	931	1397
2 - Wide Lane (S)	0.62	6.78	1.7	A	743	1115
3 - A335 (NW)	0.73	14.64	2.8	B	581	871
4 - A335 (NW)	0.62	10.32	1.7	B	496	745

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	764	191	405	1701	0.449	761	221	0.0	0.8	3.856	A
2 - Wide Lane (S)	610	152	534	1621	0.376	607	632	0.0	0.6	3.657	A
3 - A335 (NW)	477	119	221	1010	0.472	473	920	0.0	0.9	6.992	A
4 - A335 (NW)	407	102	221	1010	0.403	405	473	0.0	0.7	6.093	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	912	228	485	1645	0.555	911	265	0.8	1.2	4.941	A
2 - Wide Lane (S)	728	182	639	1545	0.471	727	757	0.6	0.9	4.538	A
3 - A335 (NW)	569	142	265	986	0.577	567	1101	0.9	1.4	8.974	A
4 - A335 (NW)	486	122	265	987	0.493	485	567	0.7	1.0	7.371	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1118	279	593	1571	0.712	1113	324	1.2	2.4	7.862	A
2 - Wide Lane (S)	892	223	781	1442	0.618	889	925	0.9	1.6	6.684	A
3 - A335 (NW)	697	174	324	955	0.730	692	1346	1.4	2.7	14.107	B
4 - A335 (NW)	596	149	324	955	0.624	593	692	1.0	1.7	10.164	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1118	279	596	1569	0.712	1117	325	2.4	2.5	8.047	A
2 - Wide Lane (S)	892	223	784	1440	0.619	892	929	1.6	1.7	6.778	A
3 - A335 (NW)	697	174	325	954	0.731	697	1351	2.7	2.8	14.641	B
4 - A335 (NW)	596	149	325	954	0.624	596	697	1.7	1.7	10.323	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	912	228	489	1642	0.556	917	266	2.5	1.3	5.047	A
2 - Wide Lane (S)	728	182	643	1542	0.472	731	763	1.7	0.9	4.603	A
3 - A335 (NW)	569	142	266	986	0.577	574	1108	2.8	1.5	9.301	A
4 - A335 (NW)	486	122	266	986	0.493	489	574	1.7	1.0	7.500	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	764	191	409	1698	0.450	766	223	1.3	0.8	3.909	A
2 - Wide Lane (S)	610	152	537	1619	0.377	611	637	0.9	0.6	3.695	A
3 - A335 (NW)	477	119	223	1009	0.472	479	926	1.5	1.0	7.151	A
4 - A335 (NW)	407	102	223	1010	0.403	409	479	1.0	0.7	6.179	A

FB 2028, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	39.42	E

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	FB 2028	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	839	100.000
2 - Wide Lane (S)		ONE HOUR	✓	983	100.000
3 - A335 (NW)		ONE HOUR	✓	765	100.000
4 - A335 (NW)		ONE HOUR	✓	630	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	259	580	0
	2 - Wide Lane (S)	535	0	448	0
	3 - A335 (NW)	0	0	0	765
	4 - A335 (NW)	0	627	3	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	3	13	0
	2 - Wide Lane (S)	1	0	6	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	6	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.61	6.82	1.7	A	770	1155
2 - Wide Lane (S)	0.70	8.06	2.4	A	902	1353
3 - A335 (NW)	1.04	122.57	29.8	F	702	1053
4 - A335 (NW)	0.85	30.82	5.6	D	578	867

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	632	158	470	1656	0.382	629	401	0.0	0.7	3.837	A
2 - Wide Lane (S)	740	185	437	1691	0.438	737	662	0.0	0.8	3.881	A
3 - A335 (NW)	576	144	401	913	0.631	569	773	0.0	1.7	10.689	B
4 - A335 (NW)	474	119	401	913	0.519	470	569	0.0	1.1	8.536	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	754	189	563	1591	0.474	753	480	0.7	1.0	4.706	A
2 - Wide Lane (S)	884	221	523	1629	0.543	882	793	0.8	1.2	4.964	A
3 - A335 (NW)	688	172	480	870	0.790	680	925	1.7	3.6	18.996	C
4 - A335 (NW)	566	142	480	871	0.651	563	680	1.1	1.9	12.307	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	924	231	681	1510	0.612	921	587	1.0	1.7	6.673	A
2 - Wide Lane (S)	1082	271	640	1544	0.701	1078	962	1.2	2.4	7.885	A
3 - A335 (NW)	842	211	587	813	1.036	780	1131	3.6	19.1	67.538	F
4 - A335 (NW)	694	173	587	813	0.853	681	780	1.9	5.1	26.596	D

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	924	231	692	1502	0.615	924	589	1.7	1.7	6.823	A
2 - Wide Lane (S)	1082	271	642	1543	0.701	1082	974	2.4	2.4	8.056	A
3 - A335 (NW)	842	211	589	811	1.038	799	1135	19.1	29.8	122.573	F
4 - A335 (NW)	694	173	589	812	0.855	692	799	5.1	5.6	30.816	D

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	754	189	580	1579	0.478	757	483	1.7	1.0	4.820	A
2 - Wide Lane (S)	884	221	526	1627	0.543	888	811	2.4	1.2	5.063	A
3 - A335 (NW)	688	172	483	868	0.792	788	931	29.8	4.7	64.472	F
4 - A335 (NW)	566	142	483	869	0.652	580	788	5.6	2.1	13.855	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	632	158	478	1650	0.383	633	404	1.0	0.7	3.888	A
2 - Wide Lane (S)	740	185	440	1689	0.438	742	671	1.2	0.8	3.929	A
3 - A335 (NW)	576	144	404	911	0.632	587	778	4.7	1.8	11.932	B
4 - A335 (NW)	474	119	404	912	0.520	478	587	2.1	1.2	8.877	A

FB 2028, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	11.31	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	FB 2028	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	1051	100.000
2 - Wide Lane (S)		ONE HOUR	✓	900	100.000
3 - A335 (NW)		ONE HOUR	✓	644	100.000
4 - A335 (NW)		ONE HOUR	✓	588	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	4	331	716	0
	2 - Wide Lane (S)	324	0	576	0
	3 - A335 (NW)	0	0	0	644
	4 - A335 (NW)	0	583	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	2	0	3	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.75	9.64	3.0	A	964	1447
2 - Wide Lane (S)	0.69	8.41	2.3	A	826	1239
3 - A335 (NW)	0.76	16.66	3.2	C	591	886
4 - A335 (NW)	0.69	12.87	2.3	B	540	809

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	791	198	439	1677	0.472	788	246	0.0	0.9	4.074	A
2 - Wide Lane (S)	678	169	543	1614	0.420	675	684	0.0	0.7	3.920	A
3 - A335 (NW)	485	121	246	997	0.487	481	972	0.0	1.0	7.274	A
4 - A335 (NW)	443	111	246	997	0.444	439	481	0.0	0.8	6.611	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	945	236	527	1616	0.585	943	294	0.9	1.4	5.384	A
2 - Wide Lane (S)	809	202	650	1537	0.526	808	819	0.7	1.1	5.055	A
3 - A335 (NW)	579	145	294	970	0.597	577	1164	1.0	1.5	9.549	A
4 - A335 (NW)	529	132	294	971	0.544	527	577	0.8	1.2	8.321	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1157	289	643	1536	0.753	1151	360	1.4	3.0	9.299	A
2 - Wide Lane (S)	991	248	794	1433	0.692	986	1000	1.1	2.2	8.200	A
3 - A335 (NW)	709	177	360	935	0.758	703	1421	1.5	3.1	15.843	C
4 - A335 (NW)	647	162	360	936	0.692	643	703	1.2	2.2	12.509	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1157	289	647	1533	0.755	1157	361	3.0	3.0	9.644	A
2 - Wide Lane (S)	991	248	798	1430	0.693	991	1006	2.2	2.3	8.409	A
3 - A335 (NW)	709	177	361	934	0.759	709	1428	3.1	3.2	16.657	C
4 - A335 (NW)	647	162	361	935	0.693	647	709	2.2	2.3	12.866	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	945	236	533	1612	0.586	951	297	3.0	1.5	5.551	A
2 - Wide Lane (S)	809	202	656	1533	0.528	814	828	2.3	1.2	5.169	A
3 - A335 (NW)	579	145	297	969	0.597	585	1173	3.2	1.6	10.001	B
4 - A335 (NW)	529	132	297	970	0.545	533	585	2.3	1.3	8.560	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	791	198	444	1673	0.473	793	248	1.5	0.9	4.144	A
2 - Wide Lane (S)	678	169	547	1611	0.420	679	690	1.2	0.8	3.970	A
3 - A335 (NW)	485	121	248	996	0.487	487	979	1.6	1.0	7.466	A
4 - A335 (NW)	443	111	248	996	0.444	444	487	1.3	0.8	6.741	A

DS 2028, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	105.71	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	DS 2028	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	882	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1140	100.000
3 - A335 (NW)		ONE HOUR	✓	765	100.000
4 - A335 (NW)		ONE HOUR	✓	858	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	302	580	0
	2 - Wide Lane (S)	553	0	587	0
	3 - A335 (NW)	0	0	0	765
	4 - A335 (NW)	0	855	3	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	2	13	0
	2 - Wide Lane (S)	1	0	15	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	8	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.68	8.58	2.3	A	809	1214
2 - Wide Lane (S)	0.81	13.35	4.5	B	1046	1569
3 - A335 (NW)	1.05	135.48	33.4	F	702	1053
4 - A335 (NW)	1.18	301.75	80.7	F	787	1181

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	664	166	636	1541	0.431	661	414	0.0	0.8	4.441	A
2 - Wide Lane (S)	858	215	437	1692	0.507	854	860	0.0	1.1	4.606	A
3 - A335 (NW)	576	144	414	906	0.636	569	876	0.0	1.8	10.901	B
4 - A335 (NW)	646	161	414	906	0.713	636	569	0.0	2.5	13.922	B

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	793	198	754	1459	0.543	791	496	0.8	1.3	5.853	A
2 - Wide Lane (S)	1025	256	523	1629	0.629	1022	1022	1.1	1.8	6.359	A
3 - A335 (NW)	688	172	496	862	0.798	680	1049	1.8	3.7	19.764	C
4 - A335 (NW)	771	193	496	862	0.895	754	680	2.5	6.9	31.759	D

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	971	243	794	1431	0.678	967	604	1.3	2.2	8.383	A
2 - Wide Lane (S)	1255	314	639	1545	0.812	1245	1123	1.8	4.3	12.515	B
3 - A335 (NW)	842	211	604	803	1.049	774	1280	3.7	20.7	72.228	F
4 - A335 (NW)	945	236	604	804	1.176	794	774	6.9	44.5	131.397	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	971	243	800	1428	0.680	971	609	2.2	2.3	8.581	A
2 - Wide Lane (S)	1255	314	641	1543	0.813	1254	1129	4.3	4.5	13.348	B
3 - A335 (NW)	842	211	609	801	1.052	791	1287	20.7	33.4	135.479	F
4 - A335 (NW)	945	236	609	801	1.179	800	791	44.5	80.7	288.312	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	793	198	847	1395	0.568	796	502	2.3	1.5	6.589	A
2 - Wide Lane (S)	1025	256	527	1627	0.630	1035	1117	4.5	1.9	6.677	A
3 - A335 (NW)	688	172	502	858	0.801	801	1060	33.4	5.2	79.803	F
4 - A335 (NW)	771	193	502	859	0.898	847	801	80.7	61.7	301.745	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	664	166	878	1374	0.483	666	418	1.5	1.0	5.556	A
2 - Wide Lane (S)	858	215	441	1689	0.508	861	1103	1.9	1.1	4.704	A
3 - A335 (NW)	576	144	418	904	0.637	589	884	5.2	1.9	12.372	B
4 - A335 (NW)	646	161	418	904	0.714	878	589	61.7	3.7	135.795	F

DS 2028, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	20.79	C

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	DS 2028	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	1061	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1142	100.000
3 - A335 (NW)		ONE HOUR	✓	644	100.000
4 - A335 (NW)		ONE HOUR	✓	729	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	4	341	716	0
	2 - Wide Lane (S)	359	0	783	0
	3 - A335 (NW)	0	0	0	644
	4 - A335 (NW)	0	724	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	1	0	6	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	10	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.82	13.85	4.3	B	974	1460
2 - Wide Lane (S)	0.88	20.90	6.9	C	1048	1572
3 - A335 (NW)	0.78	18.26	3.5	C	591	886
4 - A335 (NW)	0.88	32.95	6.9	D	669	1003

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	799	200	543	1605	0.498	795	272	0.0	1.0	4.468	A
2 - Wide Lane (S)	860	215	543	1615	0.533	855	795	0.0	1.2	4.917	A
3 - A335 (NW)	485	121	272	983	0.493	481	1126	0.0	1.0	7.474	A
4 - A335 (NW)	549	137	272	983	0.558	543	481	0.0	1.4	8.897	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	954	238	652	1530	0.623	951	325	1.0	1.6	6.251	A
2 - Wide Lane (S)	1027	257	650	1537	0.668	1023	953	1.2	2.1	7.262	A
3 - A335 (NW)	579	145	325	954	0.607	577	1348	1.0	1.6	9.962	A
4 - A335 (NW)	655	164	325	954	0.687	652	577	1.4	2.3	12.912	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1168	292	787	1437	0.813	1158	394	1.6	4.1	12.646	B
2 - Wide Lane (S)	1257	314	791	1434	0.877	1240	1154	2.1	6.4	17.935	C
3 - A335 (NW)	709	177	394	917	0.774	702	1637	1.6	3.3	17.086	C
4 - A335 (NW)	803	201	394	917	0.875	787	702	2.3	6.2	27.625	D

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1168	292	800	1428	0.818	1167	399	4.1	4.3	13.849	B
2 - Wide Lane (S)	1257	314	798	1430	0.879	1255	1170	6.4	6.9	20.900	C
3 - A335 (NW)	709	177	399	914	0.776	708	1654	3.3	3.5	18.259	C
4 - A335 (NW)	803	201	399	914	0.878	800	708	6.2	6.9	32.945	D

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	954	238	673	1515	0.629	964	332	4.3	1.7	6.713	A
2 - Wide Lane (S)	1027	257	659	1531	0.671	1046	978	6.9	2.2	8.038	A
3 - A335 (NW)	579	145	332	950	0.609	586	1372	3.5	1.7	10.585	B
4 - A335 (NW)	655	164	332	950	0.690	673	586	6.9	2.6	15.061	C

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	799	200	553	1598	0.500	802	275	1.7	1.0	4.584	A
2 - Wide Lane (S)	860	215	548	1611	0.534	864	807	2.2	1.2	5.054	A
3 - A335 (NW)	485	121	275	981	0.494	487	1137	1.7	1.0	7.695	A
4 - A335 (NW)	549	137	275	982	0.559	553	487	2.6	1.4	9.338	A

FB 2036, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	85.96	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	FB 2036	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	900	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1122	100.000
3 - A335 (NW)		ONE HOUR	✓	806	100.000
4 - A335 (NW)		ONE HOUR	✓	728	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	289	611	0
	2 - Wide Lane (S)	597	0	525	0
	3 - A335 (NW)	0	0	0	806
	4 - A335 (NW)	0	728	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	3	13	0
	2 - Wide Lane (S)	1	0	5	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	5	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.68	8.50	2.3	A	826	1239
2 - Wide Lane (S)	0.81	12.87	4.3	B	1030	1544
3 - A335 (NW)	1.15	242.91	64.7	F	740	1109
4 - A335 (NW)	1.03	120.57	27.8	F	668	1002

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	678	169	542	1606	0.422	674	447	0.0	0.8	4.220	A
2 - Wide Lane (S)	845	211	458	1676	0.504	841	758	0.0	1.0	4.409	A
3 - A335 (NW)	607	152	447	888	0.683	598	851	0.0	2.1	12.582	B
4 - A335 (NW)	548	137	447	888	0.617	542	598	0.0	1.6	10.712	B

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	809	202	647	1533	0.528	807	535	0.8	1.2	5.426	A
2 - Wide Lane (S)	1009	252	548	1611	0.626	1006	907	1.0	1.7	6.093	A
3 - A335 (NW)	725	181	535	840	0.862	712	1019	2.1	5.4	26.711	D
4 - A335 (NW)	654	164	535	841	0.778	647	712	1.6	3.4	18.898	C

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	991	248	744	1467	0.676	987	652	1.2	2.2	8.155	A
2 - Wide Lane (S)	1235	309	670	1523	0.811	1226	1061	1.7	4.1	12.085	B
3 - A335 (NW)	887	222	652	777	1.142	765	1243	5.4	36.0	112.758	F
4 - A335 (NW)	802	200	652	778	1.031	744	765	3.4	17.9	67.029	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	991	248	762	1454	0.682	991	657	2.2	2.3	8.504	A
2 - Wide Lane (S)	1235	309	673	1521	0.812	1235	1080	4.1	4.3	12.872	B
3 - A335 (NW)	887	222	657	775	1.146	773	1250	36.0	64.7	242.906	F
4 - A335 (NW)	802	200	657	775	1.034	762	773	17.9	27.8	120.574	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	809	202	748	1463	0.553	813	542	2.3	1.4	6.098	A
2 - Wide Lane (S)	1009	252	552	1608	0.627	1019	1009	4.3	1.8	6.385	A
3 - A335 (NW)	725	181	542	837	0.866	823	1028	64.7	40.0	230.182	F
4 - A335 (NW)	654	164	542	837	0.782	748	823	27.8	4.4	59.786	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	678	169	559	1594	0.425	680	451	1.4	0.8	4.325	A
2 - Wide Lane (S)	845	211	462	1674	0.505	848	777	1.8	1.1	4.497	A
3 - A335 (NW)	607	152	451	886	0.685	757	858	40.0	2.5	57.820	F
4 - A335 (NW)	548	137	451	886	0.618	559	757	4.4	1.8	11.882	B

FB 2036, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	17.40	C

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	FB 2036	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	1106	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1054	100.000
3 - A335 (NW)		ONE HOUR	✓	679	100.000
4 - A335 (NW)		ONE HOUR	✓	657	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	4	348	754	0
	2 - Wide Lane (S)	380	0	674	0
	3 - A335 (NW)	0	0	0	679
	4 - A335 (NW)	0	652	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	1	0	3	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.82	13.66	4.5	B	1015	1522
2 - Wide Lane (S)	0.83	15.19	4.7	C	967	1451
3 - A335 (NW)	0.83	23.96	4.7	C	623	935
4 - A335 (NW)	0.80	20.48	4.0	C	603	904

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	833	208	490	1641	0.507	829	288	0.0	1.0	4.451	A
2 - Wide Lane (S)	794	198	572	1594	0.498	789	747	0.0	1.0	4.554	A
3 - A335 (NW)	511	128	288	974	0.525	507	1073	0.0	1.1	8.011	A
4 - A335 (NW)	495	124	288	974	0.508	490	507	0.0	1.0	7.596	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	994	249	588	1574	0.632	992	344	1.0	1.7	6.215	A
2 - Wide Lane (S)	948	237	684	1512	0.627	945	896	1.0	1.7	6.456	A
3 - A335 (NW)	610	153	344	943	0.647	608	1285	1.1	1.9	11.152	B
4 - A335 (NW)	591	148	344	944	0.626	588	608	1.0	1.7	10.344	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1218	304	715	1486	0.819	1208	419	1.7	4.3	12.608	B
2 - Wide Lane (S)	1160	290	833	1404	0.826	1149	1090	1.7	4.5	13.866	B
3 - A335 (NW)	748	187	419	903	0.828	737	1564	1.9	4.4	21.526	C
4 - A335 (NW)	723	181	419	904	0.801	715	737	1.7	3.8	18.863	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1218	304	723	1481	0.822	1217	422	4.3	4.5	13.661	B
2 - Wide Lane (S)	1160	290	839	1400	0.829	1160	1100	4.5	4.7	15.186	C
3 - A335 (NW)	748	187	422	901	0.829	746	1577	4.4	4.7	23.963	C
4 - A335 (NW)	723	181	422	902	0.802	723	746	3.8	4.0	20.476	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	994	249	599	1566	0.635	1005	349	4.5	1.8	6.597	A
2 - Wide Lane (S)	948	237	693	1506	0.629	959	911	4.7	1.8	6.878	A
3 - A335 (NW)	610	153	349	941	0.649	621	1303	4.7	2.0	12.214	B
4 - A335 (NW)	591	148	349	941	0.628	599	621	4.0	1.8	11.108	B

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	833	208	497	1637	0.509	836	290	1.8	1.1	4.557	A
2 - Wide Lane (S)	794	198	576	1590	0.499	796	757	1.8	1.0	4.656	A
3 - A335 (NW)	511	128	290	973	0.526	514	1083	2.0	1.2	8.309	A
4 - A335 (NW)	495	124	290	973	0.508	497	514	1.8	1.1	7.841	A

DS 2036, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	235.22	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	DS 2036	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	943	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1278	100.000
3 - A335 (NW)		ONE HOUR	✓	806	100.000
4 - A335 (NW)		ONE HOUR	✓	956	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	332	611	0
	2 - Wide Lane (S)	614	0	664	0
	3 - A335 (NW)	0	0	0	806
	4 - A335 (NW)	0	956	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
	1 - Wide Lane (NE)	0	2	13	0
	2 - Wide Lane (S)	1	0	13	0
	3 - A335 (NW)	0	0	0	4
	4 - A335 (NW)	0	7	50	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.72	9.48	2.7	A	865	1298
2 - Wide Lane (S)	0.93	29.82	10.9	D	1173	1759
3 - A335 (NW)	1.16	257.09	68.3	F	740	1109
4 - A335 (NW)	1.37	714.03	170.6	F	877	1316

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	710	177	703	1495	0.475	706	460	0.0	1.0	4.947	A
2 - Wide Lane (S)	962	241	457	1677	0.574	956	951	0.0	1.4	5.303	A
3 - A335 (NW)	607	152	460	881	0.689	598	954	0.0	2.2	12.851	B
4 - A335 (NW)	720	180	460	882	0.816	703	598	0.0	4.2	20.009	C

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	848	212	800	1428	0.594	845	550	1.0	1.6	6.702	A
2 - Wide Lane (S)	1149	287	548	1611	0.713	1144	1097	1.4	2.6	8.160	A
3 - A335 (NW)	725	181	550	833	0.870	711	1142	2.2	5.7	27.973	D
4 - A335 (NW)	859	215	550	833	1.032	800	711	4.2	19.2	68.183	F

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1038	260	770	1448	0.717	1034	663	1.6	2.7	9.363	A
2 - Wide Lane (S)	1407	352	670	1523	0.924	1379	1134	2.6	9.6	23.298	C
3 - A335 (NW)	887	222	663	772	1.150	760	1386	5.7	37.4	117.456	F
4 - A335 (NW)	1053	263	663	772	1.363	770	760	19.2	89.7	266.942	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1038	260	766	1451	0.715	1038	673	2.7	2.7	9.481	A
2 - Wide Lane (S)	1407	352	673	1521	0.925	1402	1131	9.6	10.9	29.824	D
3 - A335 (NW)	887	222	673	766	1.159	764	1401	37.4	68.3	257.089	F
4 - A335 (NW)	1053	263	673	766	1.374	766	764	89.7	161.4	582.154	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	848	212	823	1412	0.600	852	568	2.7	1.7	7.047	A
2 - Wide Lane (S)	1149	287	552	1608	0.714	1182	1123	10.9	2.8	9.672	A
3 - A335 (NW)	725	181	568	823	0.881	811	1166	68.3	46.8	255.796	F
4 - A335 (NW)	859	215	568	823	1.044	823	811	161.4	170.6	714.027	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	710	177	873	1377	0.516	712	465	1.7	1.2	5.912	A
2 - Wide Lane (S)	962	241	461	1674	0.575	967	1124	2.8	1.5	5.485	A
3 - A335 (NW)	607	152	465	878	0.691	784	964	46.8	2.6	80.671	F
4 - A335 (NW)	720	180	465	879	0.819	873	784	170.6	132.2	624.893	F

DS 2036, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A335, Wide Ln Rbt	Standard Roundabout		1, 2, 3, 4	53.94	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	DS 2036	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - Wide Lane (NE)		ONE HOUR	✓	1115	100.000
2 - Wide Lane (S)		ONE HOUR	✓	1295	100.000
3 - A335 (NW)		ONE HOUR	✓	679	100.000
4 - A335 (NW)		ONE HOUR	✓	799	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	4	357	754	0
	2 - Wide Lane (S)	414	0	881	0
	3 - A335 (NW)	0	0	0	679
	4 - A335 (NW)	0	794	5	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - Wide Lane (NE)	2 - Wide Lane (S)	3 - A335 (NW)	4 - A335 (NW)
From	1 - Wide Lane (NE)	0	1	1	0
	2 - Wide Lane (S)	1	0	5	0
	3 - A335 (NW)	0	0	0	5
	4 - A335 (NW)	0	9	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - Wide Lane (NE)	0.88	21.55	6.9	C	1023	1535
2 - Wide Lane (S)	1.02	80.50	33.1	F	1188	1782
3 - A335 (NW)	0.84	25.81	5.1	D	623	935
4 - A335 (NW)	0.99	79.98	19.1	F	733	1100

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	839	210	594	1570	0.535	835	313	0.0	1.1	4.919	A
2 - Wide Lane (S)	975	244	571	1594	0.612	969	858	0.0	1.6	5.907	A
3 - A335 (NW)	511	128	313	961	0.532	507	1227	0.0	1.2	8.243	A
4 - A335 (NW)	602	150	313	961	0.626	594	507	0.0	1.8	10.510	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1002	251	712	1489	0.673	999	374	1.1	2.0	7.370	A
2 - Wide Lane (S)	1164	291	683	1513	0.770	1157	1027	1.6	3.3	10.308	B
3 - A335 (NW)	610	153	374	928	0.658	607	1467	1.2	1.9	11.684	B
4 - A335 (NW)	718	180	374	928	0.774	712	607	1.8	3.4	17.577	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1228	307	838	1401	0.876	1211	437	2.0	6.2	17.789	C
2 - Wide Lane (S)	1426	356	829	1408	1.013	1353	1221	3.3	21.5	44.050	E
3 - A335 (NW)	748	187	437	893	0.837	737	1745	1.9	4.7	22.652	C
4 - A335 (NW)	880	220	437	894	0.984	838	737	3.4	13.8	50.373	F

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1228	307	858	1387	0.885	1224	445	6.2	6.9	21.551	C
2 - Wide Lane (S)	1426	356	838	1401	1.018	1379	1245	21.5	33.1	80.495	F
3 - A335 (NW)	748	187	445	889	0.841	746	1772	4.7	5.1	25.810	D
4 - A335 (NW)	880	220	445	889	0.989	858	746	13.8	19.1	79.980	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	1002	251	776	1444	0.694	1021	413	6.9	2.4	8.938	A
2 - Wide Lane (S)	1164	291	699	1502	0.775	1281	1098	33.1	3.8	25.178	D
3 - A335 (NW)	610	153	413	906	0.674	622	1567	5.1	2.3	13.773	B
4 - A335 (NW)	718	180	413	907	0.792	776	622	19.1	4.7	37.975	E

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - Wide Lane (NE)	839	210	613	1557	0.539	844	317	2.4	1.2	5.134	A
2 - Wide Lane (S)	975	244	578	1589	0.613	984	879	3.8	1.7	6.245	A
3 - A335 (NW)	511	128	317	958	0.534	515	1244	2.3	1.2	8.617	A
4 - A335 (NW)	602	150	317	958	0.628	613	515	4.7	1.9	11.688	B