

- Key**
- Two-way Cycle Lane
 - Segregated Footway
 - Shared Facility
 - Crossover/Access
 - Existing Kerb
 - Proposed Kerb
 - Edging Kerb
 - Blister paving
 - 'Tram' paving
 - 'Ladder' paving

Highway Construction and Design
 Cyngor Bro Morgannwg, Yr Aisau, Cardiff, CF5 6AA
 Vale of Glamorgan Council, The Alps, Wenvoe, CF5 6AA
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VALE of GLAMORGAN
BRO MORGANNWG

Project No.	2253	Revision No.	HP/01/118
Scale	1:500	Sheet No.	2 of 2
Author		Check	
Drawn		Approved	

CONCEPT DESIGN

VALE of GLAMORGAN COUNCIL

WEYCOCK CROSS TO
 CARDIFF WALES AIRPORT

Proposed Segregated Facility
 along Southern Side

SHEET 2 of 2



Appendix C BREEAM Assessment

CaVC Advanced Technology Centre, Vale of Glamorgan

Transport Assessment

WEPCo Limited

SLR Project No.: 425.002058.00001

5 April 2024

Cardiff and Vale College

CAVC Advanced Technology Centre

SLR Project No.: 425.002058.00001

18 December 2023

Revision: V1

BREEAM ASSESSMENT COMPLIANCE

1.0 Introduction

- 1.1 The purpose of this note is to provide a summary of the BREEAM requirements of the site and demonstrate compliance with these requirements.

BREEAM Requirements

- 1.2 The relevant BREEAM Requirements are set out below in relation to the Transport Assessment (TA) and Travel Plan (TP) in line with UK New Construction 2018: TRA 01.

Two Credits – Transport assessment and Travel Plan

1. No later than Concept Design stage, undertake a site-specific transport assessment (or develop a travel statement) and draft travel Plan, which can be demonstrably be used to influence the site layout and built form; see Methodology.
2. The site-specific travel assessment (or statement) shall cover as a minimum:
 - 2.a If relevant, travel patterns and attitudes of existing building or site users towards cycling, walking and public transport, to identify relevant constraints and opportunities.
 - 2.b Predicted travel patterns and transport impact of future building or site users.
 - 2.c Current local environment for pedestrians and cyclists, accounting for any age-related requirements of occupants and visitors.



- 2.d Reporting of the number and type of existing accessible amenities, see Table 7.1 below, within 500m of the site.
- 2.e Disabled access accounting for varying levels and types of disability, including visual impairment.
- 2.f Calculation of the existing public transport Accessibility Index (AI), see Methodology on the facing page.
- 2.g Current facilities for cyclists.

1.3 **Table 1** demonstrates compliance with the BREEAM requirements listed above and includes references to the relevant section of the Transport Assessment or Travel Plan where this is demonstrated.

Table 1: BREEAM Requirements

BREEAM Requirement	Relevant Section in TA/TP
2.a	n/a (there are no existing buildings or site users)
2.b	See Chapter 5 'Trip Generation' in the TA and TP
2.c	See Chapter 2 'Existing Conditions' in the TA and TP
2.d	See Chapter 2 'Existing Conditions' in the TA and TP paragraphs 2.22 to 2.27
2.e	See Chapter 4 'Development Proposals' in the TA and TP, paragraphs 4.6, 4.8 and 4.12.
2.f	See Chapter 2 'Existing Conditions' in the TA and TP paragraphs 2.40 to 2.42 and Appendix C
2.g	See Chapter 2 'Existing Conditions' in the TA and TP paragraphs 2.10 to 2.14

Summary

1.4 **Table 1** demonstrates that the BREEAM requirements from TRA 01 have been met within the Transport Assessment and Travel Plan for the proposed ATC site.



Average frequency per hour										
----------------------------	--	--	--	--	--	--	--	--	--	--

NODE 14

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 15

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 16

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 17

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 18

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 19

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

NODE 20

Public transport type	
Distance to node (m)	
	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6 Service 7 Service 8 Service 9 Service 10
Average frequency per hour	

Accessibility Index	3.42
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Appendix D Baseline Traffic Survey Data

CaVC Advanced Technology Centre, Vale of Glamorgan

Transport Assessment

WEPCo Limited

SLR Project No.: 425.002058.00001

5 April 2024



THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

Head Office: 73 Porth-Y-Castell, Barry, Vale of Glam CF62 6QE
Office: Unit 17, Atlantic Business Park, Hayes Lane, Barry, Vale of Glam CF64 5XU

Severnside Transportation Data Collection is registered Ltd Company
Company Registration Number: 11503589

VAT Number: 306 4112 48

Survey Overview

Job No'/Job Name	SS1254 Vale of Glamorgan
Date	24th October 2023
Time	07:00 - 19:00
Survey Type	Junction turning count
Weather Conditions	Clear

Overview Map



Comments



THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

SS1254 Vale of Glamorgan

24th October 2023

07:00 - 19:00

Site ?

Site 1 - Cam 1-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

SS1254 Vale of Glamorgan

24th October 2023

07:00 - 19:00

Site ?

Site 2 - Cam 2-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

SS1254 Vale of Glamorgan

24th October 2023

07:00 - 19:00

Site ?

Site 3 - Cam 3-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

SS1254 Vale of Glamorgan

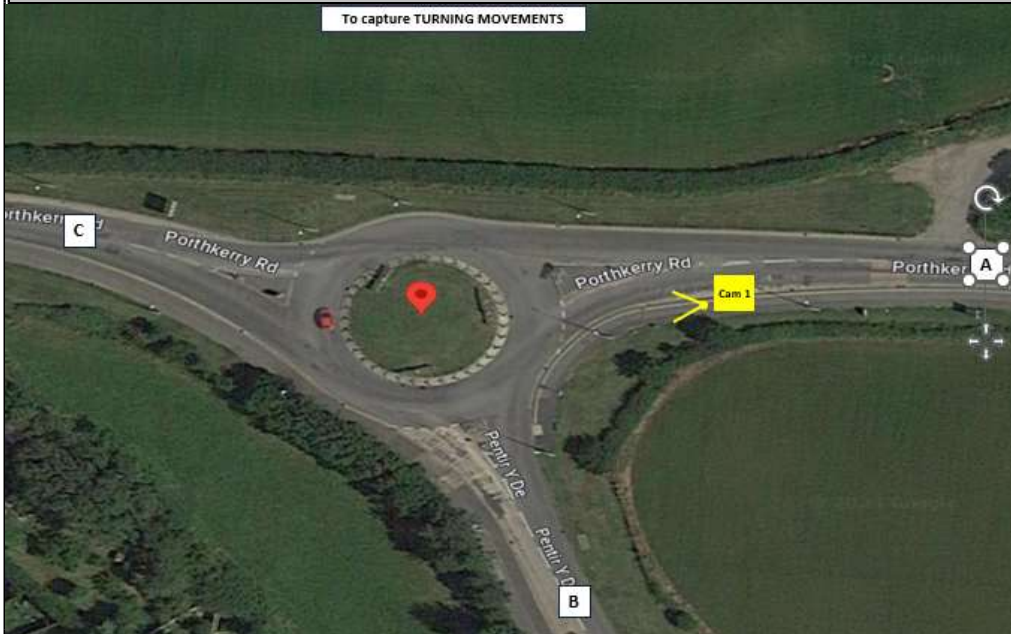
24th October 2023

07:00 - 19:00

Site ?

Site 4 - Cam 4-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

SS1254 Vale of Glamorgan

24th October 2023

07:00 - 19:00

Site ?

Site 5 - Cam 5-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 6 - Cam 6-1

Overview



Streetview



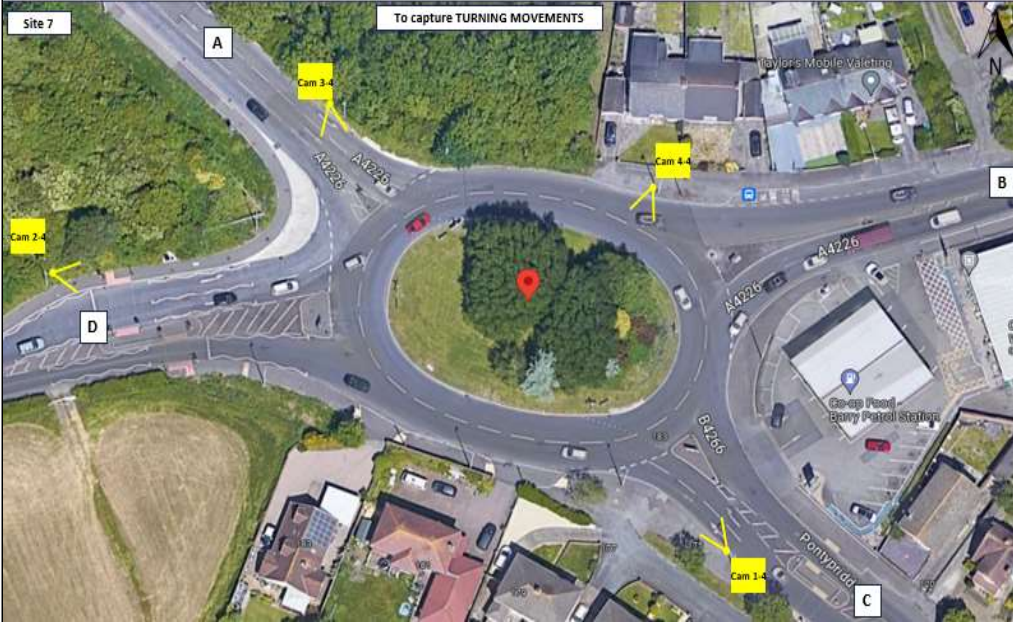


THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 7 - Cam 7-1

Overview



Streetview



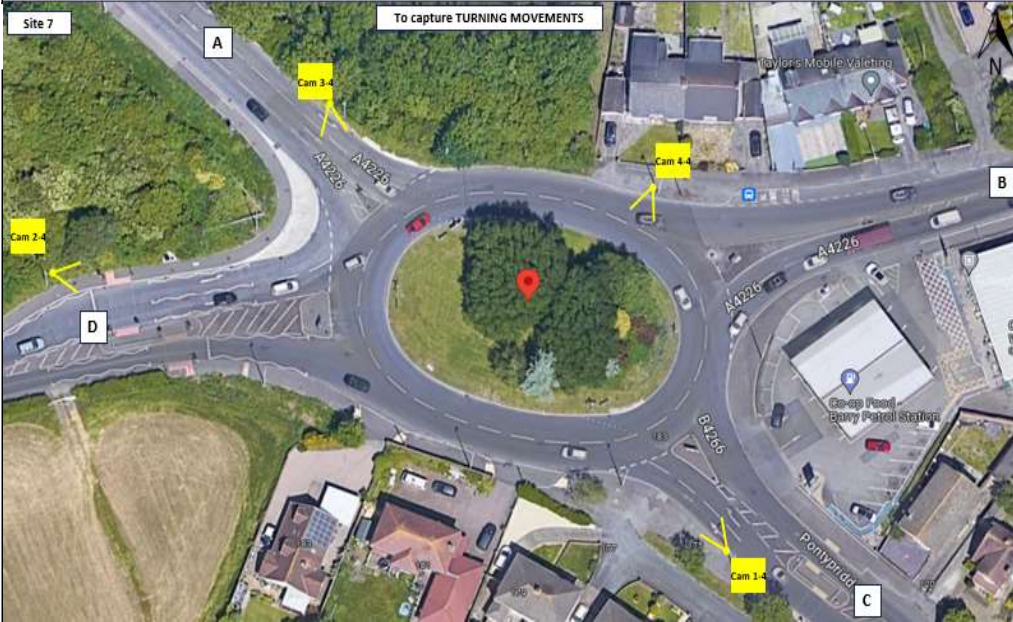


THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 7 - Cam 7-2

Overview



Streetview

**NO FOOTAGE BUT COVERED BY OTHER CAMS
ON SITE**

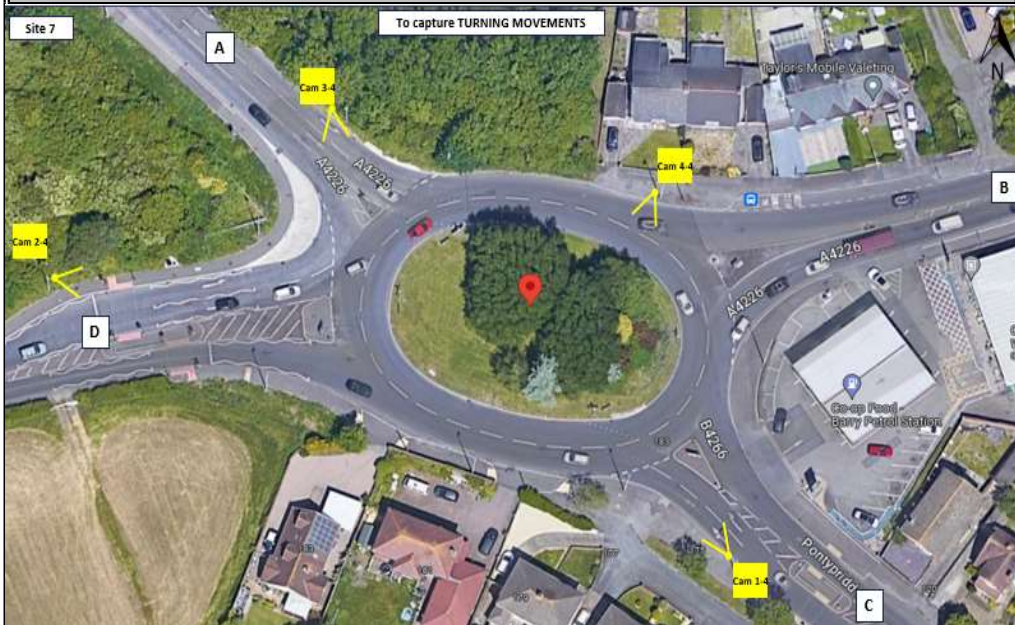


THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 7 - Cam 7-3

Overview



Streetview



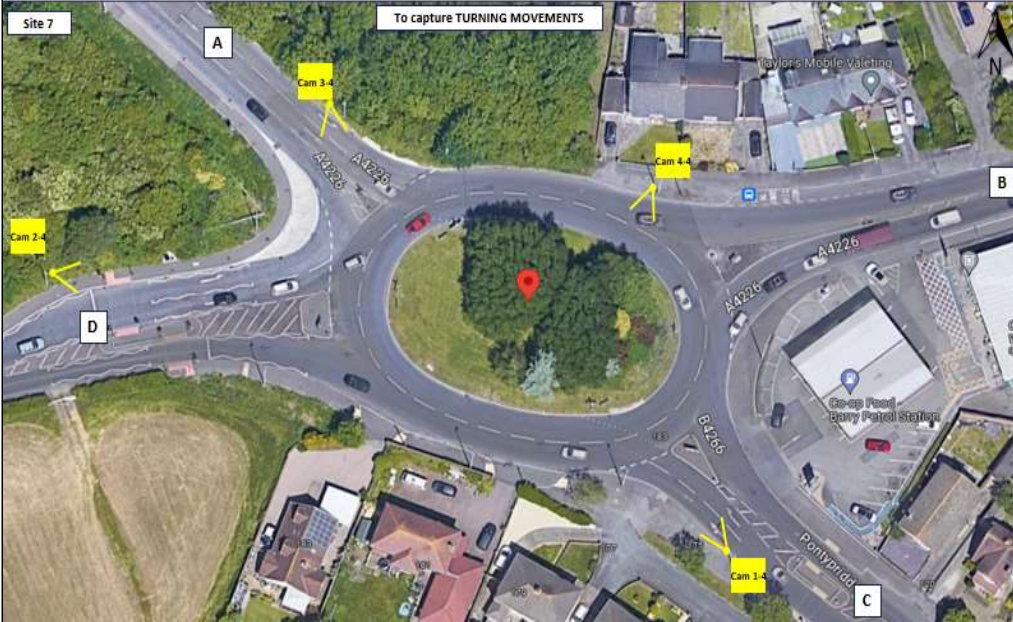


THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 7 - Cam 7-4

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

0
0
00 January 1900
Site ?

Site 8 - Cam 8-1

Overview



Streetview





THE SEVERNSIDE GROUP
Transportation Data Collection
Traffic Management
Inductive Loop Cutting
Fabrication

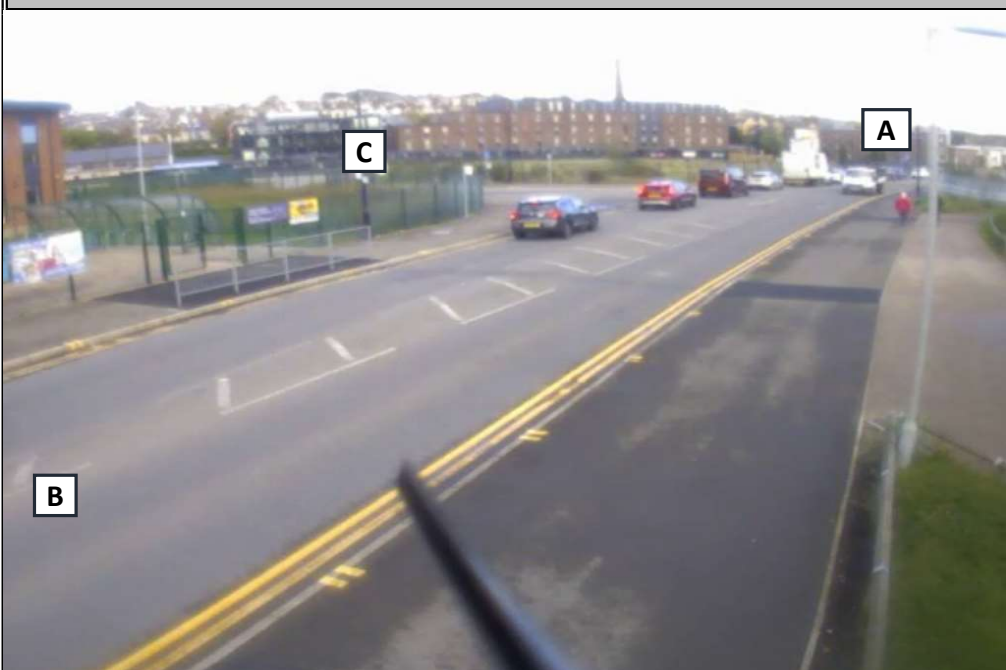
0
0
00 January 1900
Site ?

Site 9 - Cam 9-1

Overview



Streetview



Arm B - Arm A								
	Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
0700-0715	0	0	0	1	0	0	0	1
0715-0730	2	0	0	1	0	0	0	3
0730-0745	6	0	0	6	0	0	0	12
0745-0800	2	0	0	0	0	0	0	2
Hourly Total	10	0	0	8	0	0	0	18
0800-0815	0	0	0	0	0	0	0	0
0815-0830	0	0	0	0	0	0	0	0
0830-0845	1	1	0	0	0	0	0	2
0845-0900	0	0	0	5	0	0	0	5
Hourly Total	1	1	0	5	0	0	0	7
0900-0915	0	0	1	1	0	0	0	2
0915-0930	1	0	0	2	0	0	0	3
0930-0945	4	0	0	1	0	0	0	5
0945-1000	1	1	0	2	0	0	0	4
Hourly Total	6	1	1	6	0	0	0	14
1000-1015	0	2	1	2	0	0	0	5
1015-1030	3	1	0	0	0	0	0	4
1030-1045	3	1	0	0	0	0	0	4
1045-1100	1	1	0	1	0	0	0	3
Hourly Total	7	5	1	3	0	0	0	16
1100-1115	0	1	0	1	0	0	0	2
1115-1130	2	1	0	1	0	0	0	4
1130-1145	1	1	1	1	0	0	0	4
1145-1200	5	0	1	3	0	0	0	9
Hourly Total	8	3	2	6	0	0	0	19
1200-1215	2	0	1	2	0	0	0	5
1215-1230	2	1	0	4	0	0	0	7
1230-1245	1	1	0	2	0	0	0	4
1245-1300	0	1	0	5	0	0	0	6
Hourly Total	5	3	1	13	0	0	0	22
1300-1315	2	2	0	6	0	0	0	10
1315-1330	3	2	0	2	0	1	0	8
1330-1345	6	1	1	1	0	0	0	9
1345-1400	2	0	0	0	0	0	0	2
Hourly Total	13	5	1	9	0	1	0	29
1400-1415	3	2	0	1	0	0	2	8
1415-1430	4	2	0	0	0	0	0	6
1430-1445	0	2	0	0	0	0	0	2
1445-1500	8	1	0	0	0	0	0	9
Hourly Total	15	7	0	1	0	0	2	25
1500-1515	10	1	0	3	0	0	0	14
1515-1530	3	0	0	0	0	0	0	3
1530-1545	4	1	0	1	0	0	0	6
1545-1600	1	1	0	1	0	0	0	3
Hourly Total	18	3	0	5	0	0	0	26
1600-1615	12	0	0	0	0	1	0	13
1615-1630	8	1	0	0	0	0	0	9
1630-1645	3	1	0	0	0	0	1	5
1645-1700	0	0	0	0	0	0	0	0
Hourly Total	23	2	0	0	0	1	1	27
1700-1715	4	1	0	1	0	0	0	6
1715-1730	2	0	0	1	0	0	0	3
1730-1745	5	0	0	0	0	0	0	5
1745-1800	1	0	0	0	0	0	0	1
Hourly Total	12	1	0	2	0	0	0	15
1800-1815	0	1	0	0	0	0	0	1
1815-1830	2	0	0	1	0	0	0	3
1830-1845	0	1	0	0	0	0	0	1
1845-1900	3	0	0	0	0	0	0	3
Hourly Total	5	2	0	1	0	0	0	8

Total	123	33	6	59	0	2	3	226
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Arm C - Arm A								
	Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
0700-0715	59	2	1	1	0	0	0	63
0715-0730	87	4	0	0	0	1	0	92
0730-0745	98	7	0	0	1	2	0	108
0745-0800	92	8	0	0	0	2	0	102

Hourly Total	336	21	1	1	1	5	0	365
0800-0815	79	7	2	4	2	1	0	95
0815-0830	88	11	0	0	2	0	0	101
0830-0845	83	3	2	1	2	0	0	91
0845-0900	68	7	3	1	0	2	0	81
Hourly Total	318	28	7	6	6	3	0	368
0900-0915	62	12	3	0	0	0	0	77
0915-0930	49	6	1	0	0	1	0	57
0930-0945	46	11	3	2	1	1	0	64
0945-1000	53	7	5	3	0	1	0	69
Hourly Total	210	36	12	5	1	3	0	267
1000-1015	58	8	5	2	0	0	0	73
1015-1030	49	4	0	1	0	0	0	54
1030-1045	55	15	0	4	0	0	0	74
1045-1100	57	5	3	1	0	1	0	67
Hourly Total	219	32	8	8	0	1	0	268
1100-1115	60	9	2	1	0	0	0	72
1115-1130	67	14	3	3	0	0	1	88
1130-1145	45	6	0	2	0	0	0	53
1145-1200	48	11	3	4	1	1	0	68
Hourly Total	220	40	8	10	1	1	1	281
1200-1215	47	9	2	1	0	0	0	59
1215-1230	55	6	1	1	0	1	0	64
1230-1245	47	4	1	1	0	0	0	53
1245-1300	38	14	4	1	0	3	0	60
Hourly Total	187	33	8	4	0	4	0	236
1300-1315	52	9	2	0	0	0	0	63
1315-1330	68	13	3	0	0	2	0	86
1330-1345	46	11	1	0	0	1	0	59
1345-1400	50	11	2	0	0	2	1	66
Hourly Total	216	44	8	0	0	5	1	274
1400-1415	57	10	4	1	0	1	0	73
1415-1430	75	13	1	1	1	0	1	92
1430-1445	66	10	2	1	1	0	0	80
1445-1500	60	10	1	2	0	2	1	76
Hourly Total	258	43	8	5	2	3	2	321
1500-1515	56	2	2	3	0	2	0	65
1515-1530	60	13	2	0	2	1	0	78
1530-1545	87	9	2	0	1	2	0	101
1545-1600	83	17	0	1	0	0	1	102
Hourly Total	286	41	6	4	3	5	1	346
1600-1615	73	18	1	1	2	2	0	97
1615-1630	60	11	1	0	0	1	0	73
1630-1645	59	5	2	0	0	1	0	67
1645-1700	48	7	2	0	0	0	0	57
Hourly Total	240	41	6	1	2	4	0	294
1700-1715	61	17	1	0	0	0	0	79
1715-1730	72	6	0	0	0	0	0	78
1730-1745	46	5	0	0	1	0	0	52
1745-1800	51	6	0	0	0	0	0	57
Hourly Total	230	34	1	0	1	0	0	266
1800-1815	41	8	1	0	0	0	0	50
1815-1830	38	1	1	0	0	0	0	40
1830-1845	50	4	0	2	0	0	0	56
1845-1900	39	0	2	0	0	0	0	41
Hourly Total	168	13	4	2	0	0	0	187
Total	2888	406	77	46	17	34	5	3473

Origin - Arm A								
	Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
0700-0715	42	0	1	5	0	0	0	48
0715-0730	46	8	3	3	1	0	0	61
0730-0745	52	11	8	1	1	3	0	76
0745-0800	71	20	4	5	0	0	0	100
Hourly Total	211	39	16	14	2	3	0	285
0800-0815	60	11	3	0	1	1	0	76
0815-0830	54	10	0	0	2	0	0	66
0830-0845	45	10	2	0	0	0	0	57
0845-0900	42	9	5	2	0	0	0	58

Hourly Total	201	40	10	2	3	1	0	257
0900-0915	53	11	4	1	0	0	0	69
0915-0930	41	13	3	2	0	0	0	59
0930-0945	38	14	4	4	0	0	0	60
0945-1000	36	10	2	6	0	0	0	54
Hourly Total	168	48	13	13	0	0	0	242
1000-1015	28	6	0	4	0	0	0	38
1015-1030	40	13	2	2	0	0	0	57
1030-1045	46	11	3	5	1	0	0	66
1045-1100	45	10	1	1	0	0	0	57
Hourly Total	159	40	6	12	1	0	0	218
1100-1115	37	8	2	3	0	1	0	51
1115-1130	50	11	2	2	0	2	0	67
1130-1145	46	8	0	6	0	1	0	61
1145-1200	55	14	0	2	0	0	0	71
Hourly Total	188	41	4	13	0	4	0	250
1200-1215	51	4	2	1	0	0	0	58
1215-1230	62	11	1	1	0	0	0	75
1230-1245	51	8	3	5	0	0	0	67
1245-1300	54	9	3	4	2	0	0	72
Hourly Total	218	32	9	11	2	0	0	272
1300-1315	43	6	1	2	1	1	0	54
1315-1330	52	13	3	1	0	1	0	70
1330-1345	66	5	0	1	3	0	1	76
1345-1400	51	12	1	3	1	0	0	68
Hourly Total	212	36	5	7	5	2	1	268
1400-1415	66	6	3	3	0	1	0	79
1415-1430	54	9	2	2	1	2	0	70
1430-1445	65	9	1	1	0	2	0	78
1445-1500	85	14	1	5	0	1	0	106
Hourly Total	270	38	7	11	1	6	0	333
1500-1515	73	6	2	1	0	0	0	82
1515-1530	74	12	2	3	2	1	0	94
1530-1545	71	11	1	1	2	2	0	88
1545-1600	31	7	2	1	0	0	1	42
Hourly Total	249	36	7	6	4	3	1	306
1600-1615	47	6	0	0	2	2	0	57
1615-1630	71	9	0	7	1	2	1	91
1630-1645	40	5	1	1	2	0	0	49
1645-1700	40	3	0	0	0	1	0	44
Hourly Total	198	23	1	8	5	5	1	241
1700-1715	104	7	0	3	1	1	0	116
1715-1730	115	11	0	1	0	0	0	127
1730-1745	87	10	0	1	0	0	0	98
1745-1800	74	6	0	1	1	0	0	82
Hourly Total	380	34	0	6	2	1	0	423
1800-1815	72	5	0	2	0	2	0	81
1815-1830	68	2	0	0	0	0	0	70
1830-1845	96	2	0	3	0	1	0	102
1845-1900	90	3	0	2	0	0	0	95
Hourly Total	326	12	0	7	0	3	0	348

Total	2780	419	78	110	25	28	3	3443
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	Destination - Arm A							Total
	Car	LGV	OGV1	OGV2	PSV	MC	PC	
0700-0715	59	2	1	2	0	0	0	64
0715-0730	89	4	0	1	0	1	0	95
0730-0745	104	7	0	6	1	2	0	120
0745-0800	94	8	0	0	0	2	0	104
Hourly Total	346	21	1	9	1	5	0	383
0800-0815	79	7	2	4	2	1	0	95
0815-0830	88	11	0	0	2	0	0	101
0830-0845	84	4	2	1	2	0	0	93
0845-0900	68	7	3	6	0	2	0	86
Hourly Total	319	29	7	11	6	3	0	375
0900-0915	62	12	4	1	0	0	0	79
0915-0930	50	6	1	2	0	1	0	60
0930-0945	50	11	3	3	1	1	0	69
0945-1000	54	8	5	5	0	1	0	73

Hourly Total	216	37	13	11	1	3	0	281
1000-1015	58	10	6	4	0	0	0	78
1015-1030	52	5	0	1	0	0	0	58
1030-1045	58	16	0	4	0	0	0	78
1045-1100	58	6	3	2	0	1	0	70
Hourly Total	226	37	9	11	0	1	0	284
1100-1115	60	10	2	2	0	0	0	74
1115-1130	69	15	3	4	0	0	1	92
1130-1145	46	7	1	3	0	0	0	57
1145-1200	53	11	4	7	1	1	0	77
Hourly Total	228	43	10	16	1	1	1	300
1200-1215	49	9	3	3	0	0	0	64
1215-1230	57	7	1	5	0	1	0	71
1230-1245	48	5	1	3	0	0	0	57
1245-1300	38	15	4	6	0	3	0	66
Hourly Total	192	36	9	17	0	4	0	258
1300-1315	54	11	2	6	0	0	0	73
1315-1330	71	15	3	2	0	3	0	94
1330-1345	52	12	2	1	0	1	0	68
1345-1400	52	11	2	0	0	2	1	68
Hourly Total	229	49	9	9	0	6	1	303
1400-1415	60	12	4	2	0	1	2	81
1415-1430	79	15	1	1	1	0	1	98
1430-1445	66	12	2	1	1	0	0	82
1445-1500	68	11	1	2	0	2	1	85
Hourly Total	273	50	8	6	2	3	4	346
1500-1515	66	3	2	6	0	2	0	79
1515-1530	63	13	2	0	2	1	0	81
1530-1545	91	10	2	1	1	2	0	107
1545-1600	84	18	0	2	0	0	1	105
Hourly Total	304	44	6	9	3	5	1	372
1600-1615	85	18	1	1	2	3	0	110
1615-1630	68	12	1	0	0	1	0	82
1630-1645	62	6	2	0	0	1	1	72
1645-1700	48	7	2	0	0	0	0	57
Hourly Total	263	43	6	1	2	5	1	321
1700-1715	65	18	1	1	0	0	0	85
1715-1730	74	6	0	1	0	0	0	81
1730-1745	51	5	0	0	1	0	0	57
1745-1800	52	6	0	0	0	0	0	58
Hourly Total	242	35	1	2	1	0	0	281
1800-1815	41	9	1	0	0	0	0	51
1815-1830	40	1	1	1	0	0	0	43
1830-1845	50	5	0	2	0	0	0	57
1845-1900	42	0	2	0	0	0	0	44
Hourly Total	173	15	4	3	0	0	0	195

Total	3011	439	83	105	17	36	8	3699
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SS1254 Vale of Glamorgan
 24th October 2023
 07:00 - 19:00
 Site 1

Arm A - Arm B							
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
6	0	0	3	0	0	0	9
6	0	0	3	0	0	0	9
9	0	0	0	0	0	0	9
6	0	0	2	0	0	0	8
27	0	0	8	0	0	0	35
4	0	0	0	0	0	0	4
2	0	0	0	0	0	0	2
1	0	2	0	0	0	0	3
1	0	1	1	0	0	0	3
8	0	3	1	0	0	0	12
3	0	0	0	0	0	0	3
0	1	1	1	0	0	0	3
1	0	0	4	0	0	0	5
0	2	0	2	0	0	0	4
4	3	1	7	0	0	0	15
3	0	0	2	0	0	0	5
2	1	0	2	0	0	0	5
2	1	0	0	0	0	0	3
0	0	0	0	0	0	0	0
7	2	0	4	0	0	0	13
1	0	0	3	0	0	0	4
3	1	1	1	0	0	0	6
3	0	0	4	0	0	0	7
3	1	0	1	0	0	0	5
10	2	1	9	0	0	0	22
0	0	0	1	0	0	0	1
3	1	0	1	0	0	0	5
2	2	0	1	0	0	0	5
2	0	0	3	2	0	0	7
7	3	0	6	2	0	0	18
5	1	0	1	0	0	0	7
3	0	0	0	0	0	0	3
1	0	0	0	0	0	0	1
1	1	0	2	0	0	0	4
10	2	0	3	0	0	0	15
4	1	0	1	0	0	0	6
2	0	0	1	0	0	0	3
4	0	0	1	0	0	0	5
2	1	0	2	0	0	0	5
12	2	0	5	0	0	0	19
1	1	0	1	0	0	0	3
4	1	0	3	0	0	0	8
0	1	0	1	1	0	0	3
0	0	0	1	0	0	0	1
5	3	0	6	1	0	0	15
3	0	0	0	0	0	0	3
1	0	0	0	0	0	0	1
1	0	0	1	0	0	0	2
2	0	0	0	0	0	0	2
7	0	0	1	0	0	0	8
4	0	0	1	0	0	0	5
7	0	0	0	0	0	0	7
2	0	0	1	0	0	0	3
1	0	0	0	0	0	0	1
14	0	0	2	0	0	0	16
3	0	0	2	0	0	0	5
5	0	0	0	0	0	0	5
5	0	0	2	0	0	0	7
4	0	0	1	0	0	0	5
17	0	0	5	0	0	0	22

128	17	5	57	3	0	0	210
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Arm B - Arm B

Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

0 0 0 0 0 0 0 0

Arm C - Arm B

Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
8	0	0	2	0	0	0	10
12	3	0	0	1	0	0	16
16	2	0	2	1	1	0	22
18	1	0	0	0	0	0	19

54	6	0	4	2	1	0	67
21	7	0	4	1	0	0	33
17	7	0	0	0	0	0	24
31	4	1	4	1	0	0	41
23	3	0	1	0	0	0	27
92	21	1	9	2	0	0	125
17	1	2	2	0	0	0	22
9	1	1	0	0	0	0	11
11	1	0	2	1	0	0	15
18	4	1	1	0	0	0	24
55	7	4	5	1	0	0	72
15	1	0	3	0	0	0	19
15	4	0	0	0	0	0	19
9	2	0	0	1	0	0	12
18	2	1	0	0	0	0	21
57	9	1	3	1	0	0	71
13	6	1	2	0	1	0	23
14	4	0	2	1	0	0	21
11	2	0	0	0	0	1	14
22	3	0	1	0	0	0	26
60	15	1	5	1	1	1	84
20	1	1	0	0	0	0	22
28	1	0	2	1	0	0	32
18	3	1	7	0	0	1	30
31	3	0	2	0	0	0	36
97	8	2	11	1	0	1	120
12	4	2	2	0	0	0	20
16	6	2	2	1	0	5	32
21	5	0	3	0	0	1	30
14	1	3	1	0	0	0	19
63	16	7	8	1	0	6	101
16	2	0	0	0	0	0	18
24	3	2	0	1	0	1	31
30	2	0	0	0	0	0	32
18	1	1	0	0	0	0	20
88	8	3	0	1	0	1	101
21	3	0	3	0	0	0	27
30	3	0	3	3	0	0	39
37	3	1	1	1	0	0	43
39	3	1	5	2	0	0	50
127	12	2	12	6	0	0	159
37	4	0	1	0	1	0	43
66	3	0	1	1	2	0	73
57	12	2	1	0	0	0	72
87	6	0	1	1	1	0	96
247	25	2	4	2	4	0	284
84	8	0	1	1	0	0	94
73	9	0	2	0	0	1	85
54	5	1	0	1	0	0	61
54	6	0	0	0	0	0	60
265	28	1	3	2	0	1	300
33	3	0	1	1	1	0	39
46	4	0	1	1	0	0	52
26	1	0	0	0	0	0	27
31	0	0	0	0	0	0	31
136	8	0	2	2	1	0	149

1341	163	24	66	22	7	10	1633
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Origin - Arm B							
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
18	1	0	2	1	0	0	22
24	2	0	1	0	1	0	28
27	4	1	6	1	0	0	39
28	3	1	0	1	0	0	33
97	10	2	9	3	1	0	122
43	3	0	2	2	0	0	50
39	5	0	4	0	0	0	48
25	5	0	0	0	0	0	30
24	3	1	6	1	0	0	35

131	16	1	12	3	0	0	163
26	2	2	1	1	0	0	32
20	4	0	2	0	0	0	26
16	1	0	2	0	0	0	19
18	5	1	4	1	0	0	29
80	12	3	9	2	0	0	106
15	4	1	5	0	0	0	25
16	5	0	2	0	0	0	23
19	5	1	0	1	0	1	27
29	3	1	1	0	0	0	34
79	17	3	8	1	0	1	109
19	5	0	2	0	0	0	26
15	4	1	2	0	1	0	23
18	2	1	2	1	0	0	24
26	5	1	3	0	0	1	36
78	16	3	9	1	1	1	109
15	3	1	4	0	0	0	23
17	7	1	6	0	0	2	33
14	4	0	3	1	0	0	22
17	5	0	5	0	0	0	27
63	19	2	18	1	0	2	105
24	4	1	8	0	0	0	37
21	7	0	3	0	1	0	32
22	6	1	1	3	0	1	34
26	3	0	0	0	0	0	29
93	20	2	12	3	1	1	132
22	4	1	1	0	0	2	30
28	4	0	1	0	0	0	33
17	3	0	0	0	0	3	23
37	5	0	0	1	1	0	44
104	16	1	2	1	1	5	130
43	6	0	3	0	1	1	54
30	2	0	0	0	0	0	32
24	11	0	1	1	1	1	39
27	6	0	1	1	0	0	35
124	25	0	5	2	2	2	160
53	6	1	0	0	3	0	63
41	3	1	1	1	0	0	47
45	5	0	1	1	1	1	54
22	2	0	1	0	0	0	25
161	16	2	3	2	4	1	189
33	3	0	1	1	0	0	38
29	3	0	1	2	0	0	35
45	1	2	1	1	0	1	51
27	0	0	0	0	0	0	27
134	7	2	3	4	0	1	151
30	4	0	0	0	0	0	34
26	2	0	1	0	2	0	31
28	1	0	0	0	0	0	29
27	0	0	0	0	0	0	27
111	7	0	1	0	2	0	121

1255	181	21	91	23	12	14	1597
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Destination - Arm B							
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total
14	0	0	5	0	0	0	19
18	3	0	3	1	0	0	25
25	2	0	2	1	1	0	31
24	1	0	2	0	0	0	27
81	6	0	12	2	1	0	102
25	7	0	4	1	0	0	37
19	7	0	0	0	0	0	26
32	4	3	4	1	0	0	44
24	3	1	2	0	0	0	30
100	21	4	10	2	0	0	137
20	1	2	2	0	0	0	25
9	2	2	1	0	0	0	14
12	1	0	6	1	0	0	20
18	6	1	3	0	0	0	28

59	10	5	12	1	0	0	87
18	1	0	5	0	0	0	24
17	5	0	2	0	0	0	24
11	3	0	0	1	0	0	15
18	2	1	0	0	0	0	21
64	11	1	7	1	0	0	84
14	6	1	5	0	1	0	27
17	5	1	3	1	0	0	27
14	2	0	4	0	0	1	21
25	4	0	2	0	0	0	31
70	17	2	14	1	1	1	106
20	1	1	1	0	0	0	23
31	2	0	3	1	0	0	37
20	5	1	8	0	0	1	35
33	3	0	5	2	0	0	43
104	11	2	17	3	0	1	138
17	5	2	3	0	0	0	27
19	6	2	2	1	0	5	35
22	5	0	3	0	0	1	31
15	2	3	3	0	0	0	23
73	18	7	11	1	0	6	116
20	3	0	1	0	0	0	24
26	3	2	1	1	0	1	34
34	2	0	1	0	0	0	37
20	2	1	2	0	0	0	25
100	10	3	5	1	0	1	120
22	4	0	4	0	0	0	30
34	4	0	6	3	0	0	47
37	4	1	2	2	0	0	46
39	3	1	6	2	0	0	51
132	15	2	18	7	0	0	174
40	4	0	1	0	1	0	46
67	3	0	1	1	2	0	74
58	12	2	2	0	0	0	74
89	6	0	1	1	1	0	98
254	25	2	5	2	4	0	292
88	8	0	2	1	0	0	99
80	9	0	2	0	0	1	92
56	5	1	1	1	0	0	64
55	6	0	0	0	0	0	61
279	28	1	5	2	0	1	316
36	3	0	3	1	1	0	44
51	4	0	1	1	0	0	57
31	1	0	2	0	0	0	34
35	0	0	1	0	0	0	36
153	8	0	7	2	1	0	171

1469	180	29	123	25	7	10	1843
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Arm A - Arm C								Arm Total
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total	
36	0	1	2	0	0	0	39	48
40	8	3	0	1	0	0	52	61
43	11	8	1	1	3	0	67	76
65	20	4	3	0	0	0	92	100
184	39	16	6	2	3	0	250	285
56	11	3	0	1	1	0	72	76
52	10	0	0	2	0	0	64	66
44	10	0	0	0	0	0	54	57
41	9	4	1	0	0	0	55	58
193	40	7	1	3	1	0	245	257
50	11	4	1	0	0	0	66	69
41	12	2	1	0	0	0	56	59
37	14	4	0	0	0	0	55	60
36	8	2	4	0	0	0	50	54
164	45	12	6	0	0	0	227	242
25	6	0	2	0	0	0	33	38
38	12	2	0	0	0	0	52	57
44	10	3	5	1	0	0	63	66
45	10	1	1	0	0	0	57	57
152	38	6	8	1	0	0	205	218
36	8	2	0	0	1	0	47	51
47	10	1	1	0	2	0	61	67
43	8	0	2	0	1	0	54	61
52	13	0	1	0	0	0	66	71
178	39	3	4	0	4	0	228	250
51	4	2	0	0	0	0	57	58
59	10	1	0	0	0	0	70	75
49	6	3	4	0	0	0	62	67
52	9	3	1	0	0	0	65	72
211	29	9	5	0	0	0	254	272
38	5	1	1	1	1	0	47	54
49	13	3	1	0	1	0	67	70
65	5	0	1	3	0	1	75	76
50	11	1	1	1	0	0	64	68
202	34	5	4	5	2	1	253	268
62	5	3	2	0	1	0	73	79
52	9	2	1	1	2	0	67	70
61	9	1	0	0	2	0	73	78
83	13	1	3	0	1	0	101	106
258	36	7	6	1	6	0	314	333
72	5	2	0	0	0	0	79	82
70	11	2	0	2	1	0	86	94
71	10	1	0	1	2	0	85	88
31	7	2	0	0	0	1	41	42
244	33	7	0	3	3	1	291	306
44	6	0	0	2	2	0	54	57
70	9	0	7	1	2	1	90	91
39	5	1	0	2	0	0	47	49
38	3	0	0	0	1	0	42	44
191	23	1	7	5	5	1	233	241
100	7	0	2	1	1	0	111	116
108	11	0	1	0	0	0	120	127
85	10	0	0	0	0	0	95	98
73	6	0	1	1	0	0	81	82
366	34	0	4	2	1	0	407	423
69	5	0	0	0	2	0	76	81
63	2	0	0	0	0	0	65	70
91	2	0	1	0	1	0	95	102
86	3	0	1	0	0	0	90	95
309	12	0	2	0	3	0	326	348

2652	402	73	53	22	28	3	3233	3443
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0	0	0	0	0	0	0	0	432
0	0	0	0	0	0	0	0	128
0	0	0	0	0	0	0	0	125
0	0	0	0	0	0	0	0	132
0	0	0	0	0	0	0	0	108
0	0	0	0	0	0	0	0	493
0	0	0	0	0	0	0	0	99
0	0	0	0	0	0	0	0	68
0	0	0	0	0	0	0	0	79
0	0	0	0	0	0	0	0	93
0	0	0	0	0	0	0	0	339
0	0	0	0	0	0	0	0	92
0	0	0	0	0	0	0	0	73
0	0	0	0	0	0	0	0	86
0	0	0	0	0	0	0	0	88
0	0	0	0	0	0	0	0	339
0	0	0	0	0	0	0	0	95
0	0	0	0	0	0	0	0	109
0	0	0	0	0	0	0	0	67
0	0	0	0	0	0	0	0	94
0	0	0	0	0	0	0	0	365
0	0	0	0	0	0	0	0	81
0	0	0	0	0	0	0	0	96
0	0	0	0	0	0	0	0	83
0	0	0	0	0	0	0	0	96
0	0	0	0	0	0	0	0	356
0	0	0	0	0	0	0	0	83
0	0	0	0	0	0	0	0	118
0	0	0	0	0	0	0	0	89
0	0	0	0	0	0	0	0	85
0	0	0	0	0	0	0	0	375
0	0	0	0	0	0	0	0	91
0	0	0	0	0	0	0	0	123
0	0	0	0	0	0	0	0	112
0	0	0	0	0	0	0	0	96
0	0	0	0	0	0	0	0	422
0	0	0	0	0	0	0	0	92
0	0	0	0	0	0	0	0	117
0	0	0	0	0	0	0	0	144
0	0	0	0	0	0	0	0	152
0	0	0	0	0	0	0	0	505
0	0	0	0	0	0	0	0	140
0	0	0	0	0	0	0	0	146
0	0	0	0	0	0	0	0	139
0	0	0	0	0	0	0	0	153
0	0	0	0	0	0	0	0	578
0	0	0	0	0	0	0	0	173
0	0	0	0	0	0	0	0	163
0	0	0	0	0	0	0	0	113
0	0	0	0	0	0	0	0	117
0	0	0	0	0	0	0	0	566
0	0	0	0	0	0	0	0	89
0	0	0	0	0	0	0	0	92
0	0	0	0	0	0	0	0	83
0	0	0	0	0	0	0	0	72
0	0	0	0	0	0	0	0	336

0	0	0	0	0	0	0	0	5106
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Origin - Arm C								
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total	Arm Total
67	2	1	3	0	0	0	73	143
99	7	0	0	1	1	0	108	197
114	9	0	2	2	3	0	130	245
110	9	0	0	0	2	0	121	254
390	27	1	5	3	6	0	432	839
100	14	2	8	3	1	0	128	254
105	18	0	0	2	0	0	125	239
114	7	3	5	3	0	0	132	219
91	10	3	2	0	2	0	108	201

410	49	8	15	8	3	0	493	913
79	13	5	2	0	0	0	99	200
58	7	2	0	0	1	0	68	153
57	12	3	4	2	1	0	79	158
71	11	6	4	0	1	0	93	176
265	43	16	10	2	3	0	339	687
73	9	5	5	0	0	0	92	155
64	8	0	1	0	0	0	73	153
64	17	0	4	1	0	0	86	179
75	7	4	1	0	1	0	88	179
276	41	9	11	1	1	0	339	666
73	15	3	3	0	1	0	95	172
81	18	3	5	1	0	1	109	199
56	8	0	2	0	0	1	67	152
70	14	3	5	1	1	0	94	201
280	55	9	15	2	2	2	365	724
67	10	3	1	0	0	0	81	162
83	7	1	3	1	1	0	96	204
65	7	2	8	0	0	1	83	172
69	17	4	3	0	3	0	96	195
284	41	10	15	1	4	1	356	733
64	13	4	2	0	0	0	83	174
84	19	5	2	1	2	5	118	220
67	16	1	3	0	1	1	89	199
64	12	5	1	0	2	1	85	182
279	60	15	8	1	5	7	375	775
73	12	4	1	0	1	0	91	200
99	16	3	1	2	0	2	123	226
96	12	2	1	1	0	0	112	213
78	11	2	2	0	2	1	96	246
346	51	11	5	3	3	3	422	885
77	5	2	6	0	2	0	92	228
90	16	2	3	5	1	0	117	243
124	12	3	1	2	2	0	144	271
122	20	1	6	2	0	1	152	229
413	53	8	16	9	5	1	505	971
110	22	1	2	2	3	0	140	260
126	14	1	1	1	3	0	146	284
116	17	4	1	0	1	0	139	242
135	13	2	1	1	1	0	153	222
487	66	8	5	4	8	0	578	1008
145	25	1	1	1	0	0	173	327
145	15	0	2	0	0	1	163	325
100	10	1	0	2	0	0	113	262
105	12	0	0	0	0	0	117	226
495	62	2	3	3	0	1	566	1140
74	11	1	1	1	1	0	89	204
84	5	1	1	1	0	0	92	193
76	5	0	2	0	0	0	83	214
70	0	2	0	0	0	0	72	194
304	21	4	4	2	1	0	336	805

4229	569	101	112	39	41	15	5106	10146
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Destination - Arm C								Arm Total
Car	LGV	OGV1	OGV2	PSV	MC	PC	Total	
54	1	1	3	1	0	0	60	143
62	10	3	0	1	1	0	77	197
64	15	9	1	2	3	0	94	245
91	23	5	3	1	0	0	123	254
271	49	18	7	5	4	0	354	839
99	14	3	2	3	1	0	122	254
91	15	0	4	2	0	0	112	239
68	14	0	0	0	0	0	82	219
65	12	5	2	1	0	0	85	201
323	55	8	8	6	1	0	401	913
76	13	5	1	1	0	0	96	200
60	16	2	1	0	0	0	79	153
49	15	4	1	0	0	0	69	158
53	12	3	6	1	0	0	75	176

238	56	14	9	2	0	0	319
40	8	0	5	0	0	0	53
51	16	2	2	0	0	0	71
60	14	4	5	2	0	1	86
73	12	2	1	0	0	0	88
224	50	8	13	2	0	1	298
55	12	2	1	0	1	0	71
60	13	2	2	0	3	0	80
60	9	0	3	1	1	0	74
73	18	0	1	0	0	1	93
248	52	4	7	1	5	1	318
64	7	2	2	0	0	0	75
74	16	2	2	0	0	2	96
62	9	3	5	1	0	0	80
69	13	3	1	0	0	0	86
269	45	10	10	1	0	2	337
60	7	2	3	1	1	0	74
67	18	3	2	0	1	0	91
81	10	0	1	6	0	2	100
74	14	1	1	1	0	0	91
282	49	6	7	8	2	2	356
81	7	4	2	0	1	0	95
76	11	2	2	1	2	0	94
78	10	1	0	0	2	3	94
112	17	1	3	1	2	0	136
347	45	8	7	2	7	3	419
105	10	2	0	0	1	1	119
97	13	2	0	2	1	0	115
91	20	1	0	2	3	1	118
57	12	2	0	1	0	1	73
350	55	7	0	5	5	3	425
85	12	1	0	2	4	0	104
103	11	1	8	2	2	1	128
81	9	1	1	3	1	0	96
60	5	0	1	0	1	0	67
329	37	3	10	7	8	1	395
129	9	0	2	2	1	0	143
135	14	0	1	2	0	0	152
125	11	2	1	1	0	1	141
99	6	0	1	1	0	0	107
488	40	2	5	6	1	1	543
99	8	0	0	0	2	0	109
87	4	0	0	0	2	0	93
119	2	0	1	0	1	0	123
110	3	0	1	0	0	0	114
415	17	0	2	0	5	0	439

687
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3784	550	88	85	45	38	14	4604
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10146
