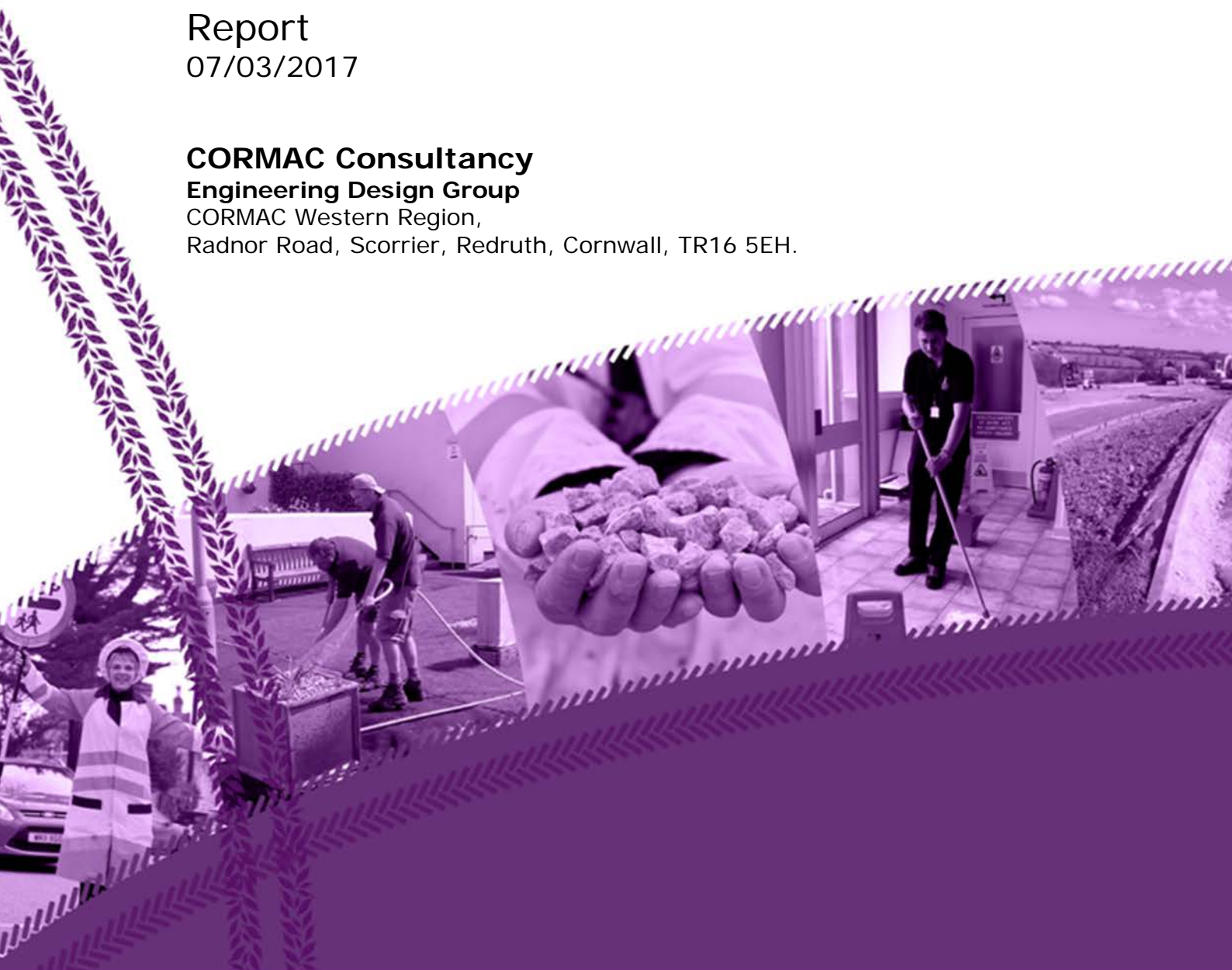


RadarClass

A390 Fore Street, Grampound
February 2017

Report
07/03/2017

CORMAC Consultancy
Engineering Design Group
CORMAC Western Region,
Radnor Road, Scorrier, Redruth, Cornwall, TR16 5EH.



RadarClass



**A390 Fore Street, Grampound
February 2017**

Eastbound / Westbound

Route N ^o	Column N ^o	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference
A390	A021	West	Unit 3	193264 / 048449

Date of Deployment	End of Operation	Total Period of Operation
14/02/2017	21/02/2017	8 days

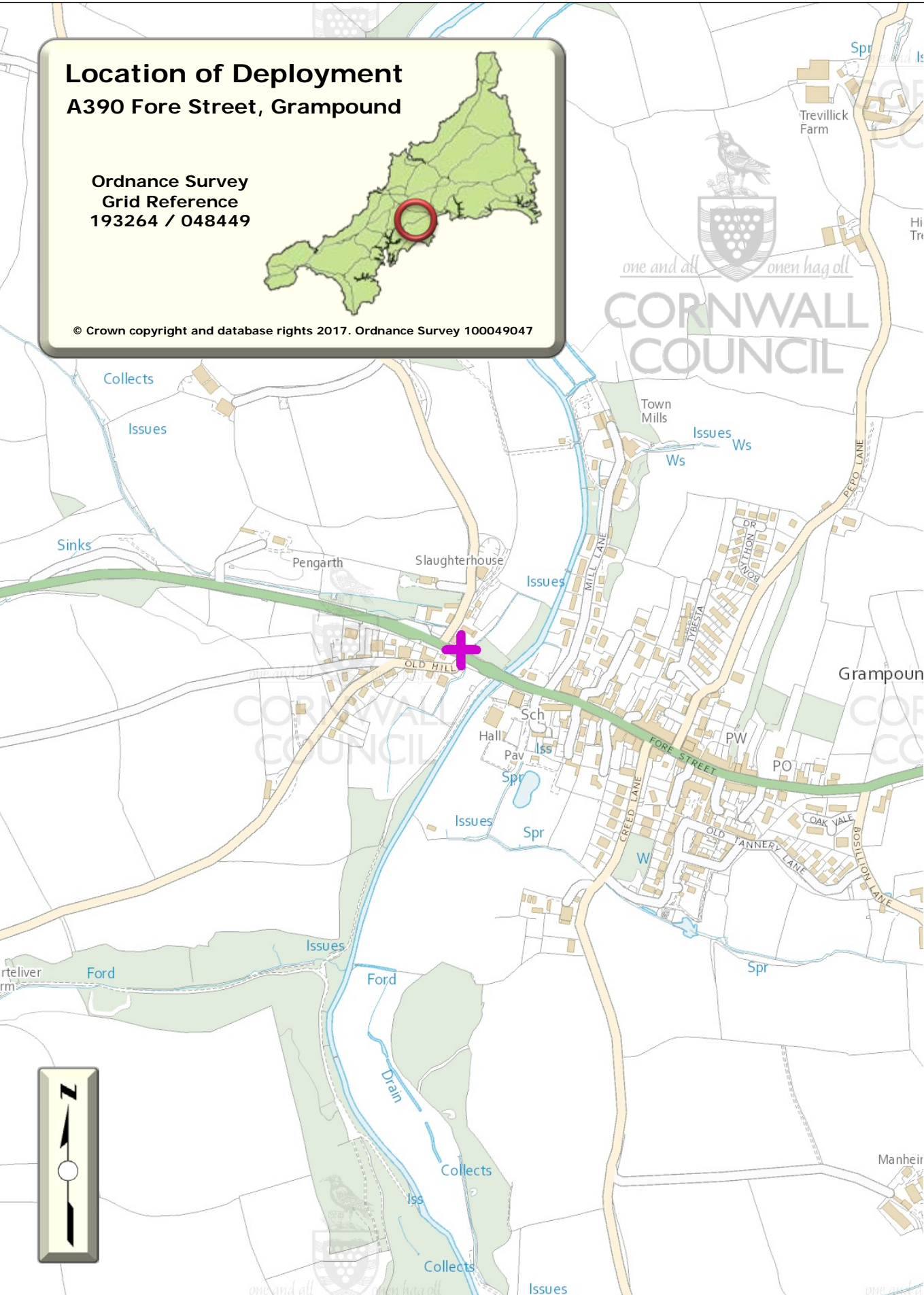
Summary Table

 Speed Limit	All Observations		Weekdays		Weekends	
	Eastbound	Westbound	Eastbound	Westbound	Eastbound	Westbound
Number of Observations:	36,403	38,717	27,860	29,557	8,543	9,160
Mean Speed (mph):	31.7	36.3	31.6	36.2	32.2	36.9
85%ile Speed (mph):	37	41	37	41	38	42
Standard Deviation:	5.5	5.6	5.4	5.5	5.8	5.8
% ≤  :	44.5%	9.6%	45.3%	10.0%	41.8%	8.5%
% 31 mph to 40 mph:	49.0%	72.3%	48.7%	72.9%	50.3%	70.2%
% >40 mph:	6.5%	18.1%	6.1%	17.1%	7.9%	21.3%

Comments:	
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Data Submitted by:	Mike Cartwright	Data Processed by:	Jim Rowe
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1. Location Map.




2. Glossary of Terms & Abbreviations.

RadarClass is a portable radar device that detects and records the speed of passing vehicles. The unit is housed in an unobtrusive rugged black anti-vandal housing which can be mounted on any item of roadside furniture without looking conspicuous.


The principal role of the unit is to detect and count passing vehicles and log the date, time and speed at which they passed. Data collected can be used to determine the volume of traffic flow on the road on which the unit has been deployed.



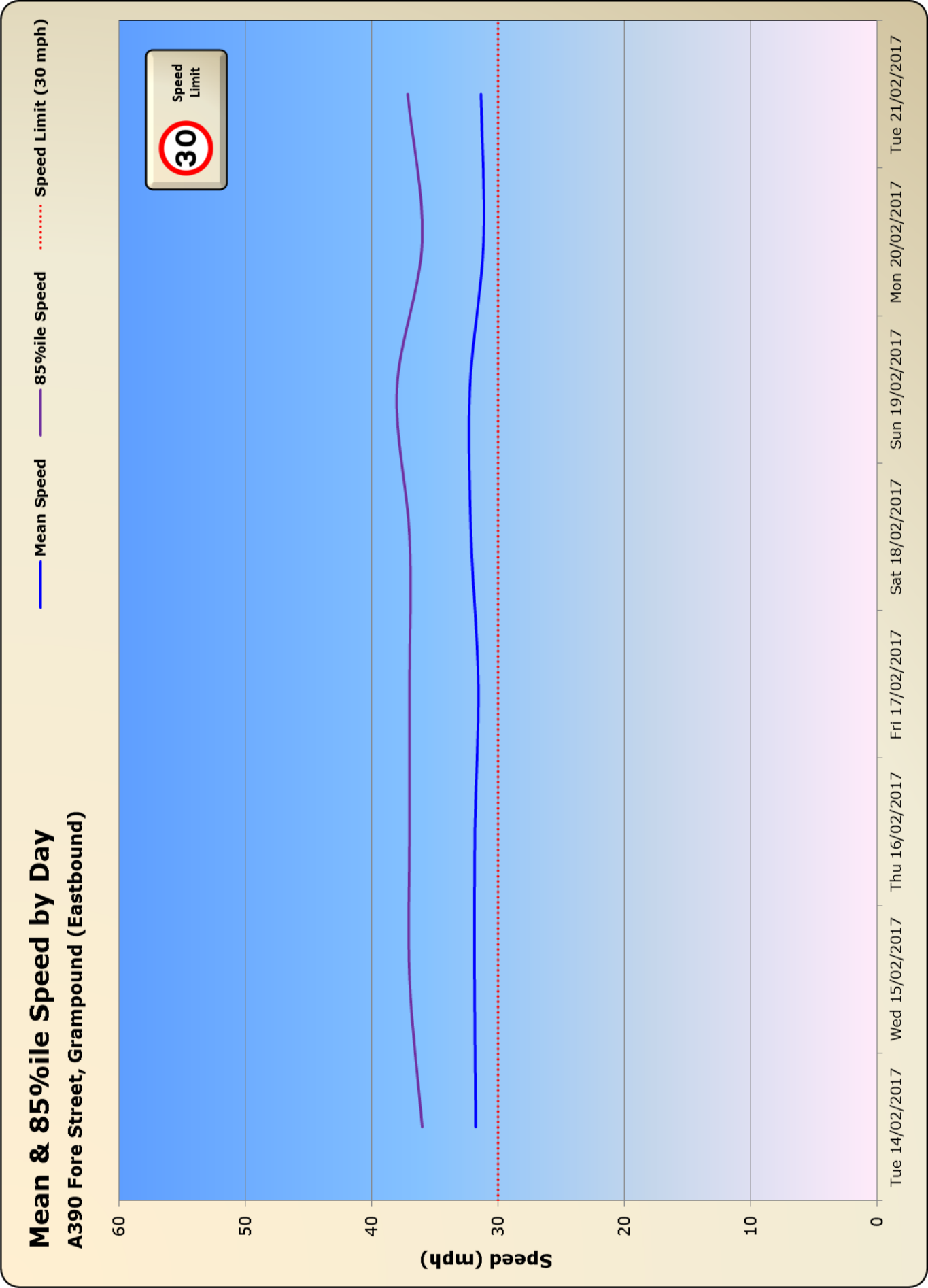
Nº of Observations:	The number of readings recorded by the radar. This does not correspond to an exact count of vehicles passing the sign, since vehicles may pass the sign in a tightly packed group (or 'platoon'); the radar will only record data for the 'lead vehicle' that is determining the speed for the remainder of the platoon.
Mean Speed:	The arithmetic average of all the speed values recorded.
85%ile Speed:	The speed at or below which 85% of the vehicles recorded were travelling.
Standard Deviation:	A measure of how widely speeds are dispersed from the Mean Speed.
% ≤  :	The percentage of vehicles travelling at speeds of 30 mph or below (i.e. the percentage of vehicles travelling at or within the 30 mph speed limit).
% 31 mph to 40 mph:	The percentage of vehicles travelling at speeds of between 31 mph and 40mph.
% >40 mph:	The percentage of vehicles travelling at speeds greater than 40 mph (i.e. the percentage of vehicles travelling at speeds in excess of 10mph above the 30 mph speed limit).

3. Eastbound Detailed Statistics.

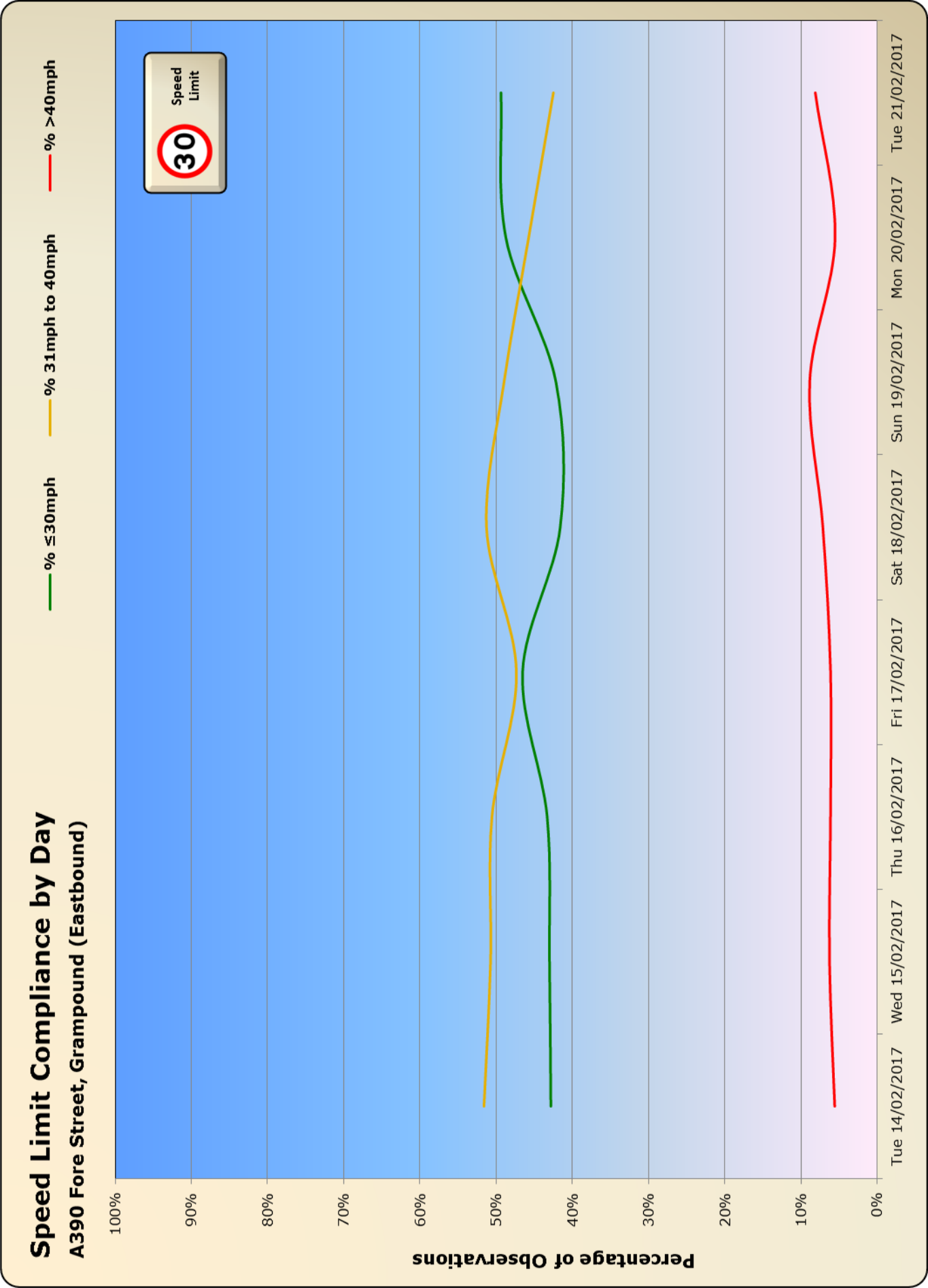
3.1.1. Eastbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
Tue 14/02/2017	31.8	36	5.1	42.8%	51.6%	5.6%
Wed 15/02/2017	31.9	37	5.3	43.0%	50.7%	6.3%
Thu 16/02/2017	31.8	37	5.3	43.3%	50.6%	6.1%
Fri 17/02/2017	31.6	37	5.4	46.5%	47.4%	6.1%
Sat 18/02/2017	32.1	37	5.5	41.6%	51.3%	7.1%
Sun 19/02/2017	32.2	38	6.1	42.2%	49.0%	8.9%
Mon 20/02/2017	31.1	36	5.6	48.7%	45.7%	5.5%
Tue 21/02/2017	31.4	37	6.4	49.4%	42.5%	8.1%

3.1.2. Eastbound Mean Speed & 85%ile Speeds by Day Chart.



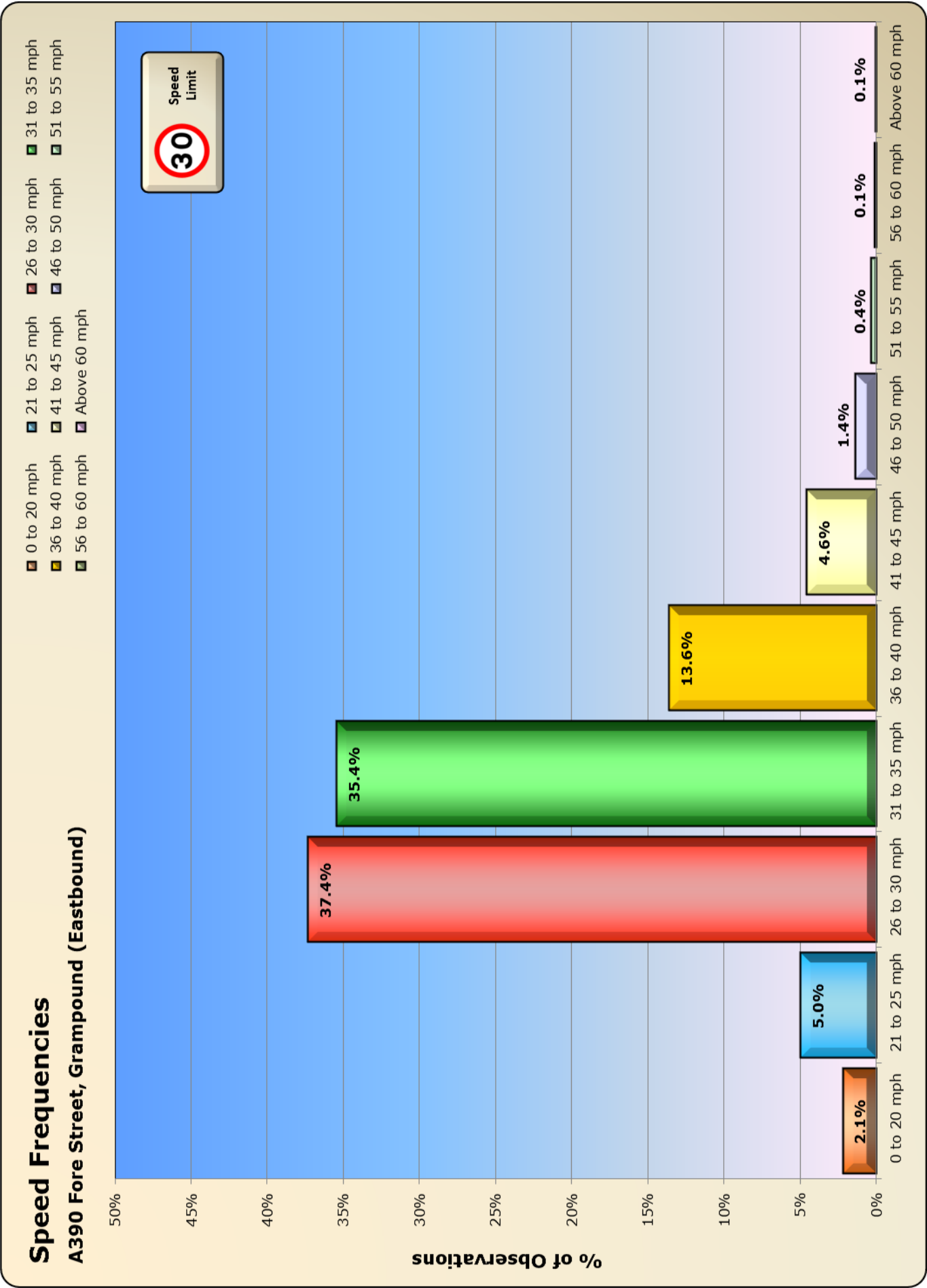
3.1.3. Eastbound Speed Limit Compliance by Day Chart.




3.2.1. Eastbound Speed Frequencies by Day Table.

Date	No ≤ 30			No > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Tue 14/02/2017	55	103	1,110	1,136	392	124	33	7	0	1	2,961
Wed 15/02/2017	111	241	2,172	2,194	784	264	80	14	4	5	5,869
Thu 16/02/2017	110	258	2,262	2,217	853	267	76	16	11	2	6,072
Fri 17/02/2017	121	253	2,357	2,047	732	265	67	18	5	4	5,869
Sat 18/02/2017	92	164	1,763	1,777	712	230	82	26	4	4	4,854
Sun 19/02/2017	84	216	1,255	1,247	560	224	66	23	12	2	3,689
Mon 20/02/2017	166	435	2,230	1,907	750	216	78	19	5	3	5,809
Tue 21/02/2017	43	141	448	370	174	67	27	6	2	2	1,280
Total % of Total	782	1,811	13,597	12,895	4,957	1,657	509	129	43	23	36,403
	2.1%	5.0%	37.4%	35.4%	13.6%	4.6%	1.4%	0.4%	0.1%	0.1%	100.0%

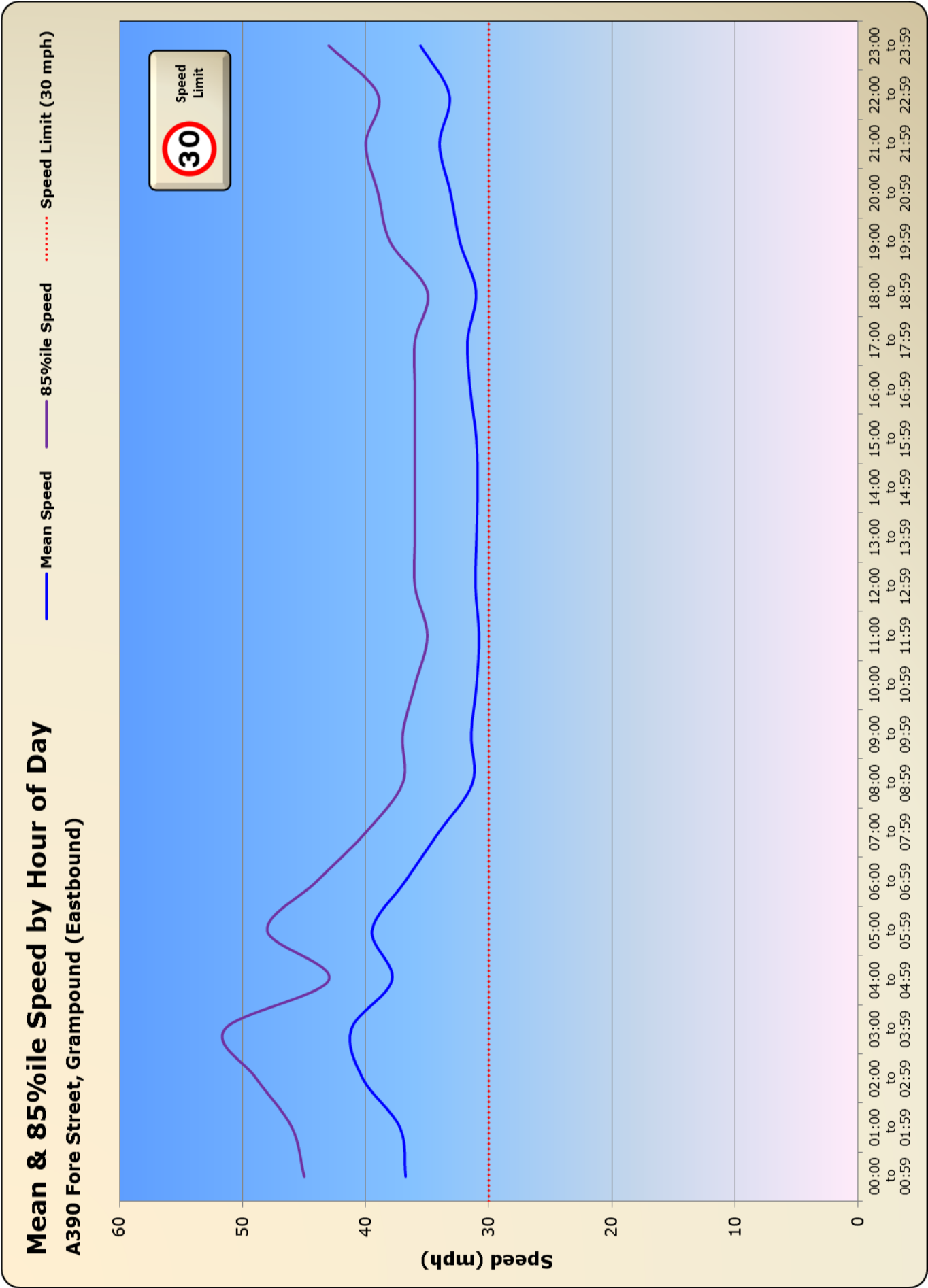
3.2.2. Eastbound Speed Frequencies Chart.



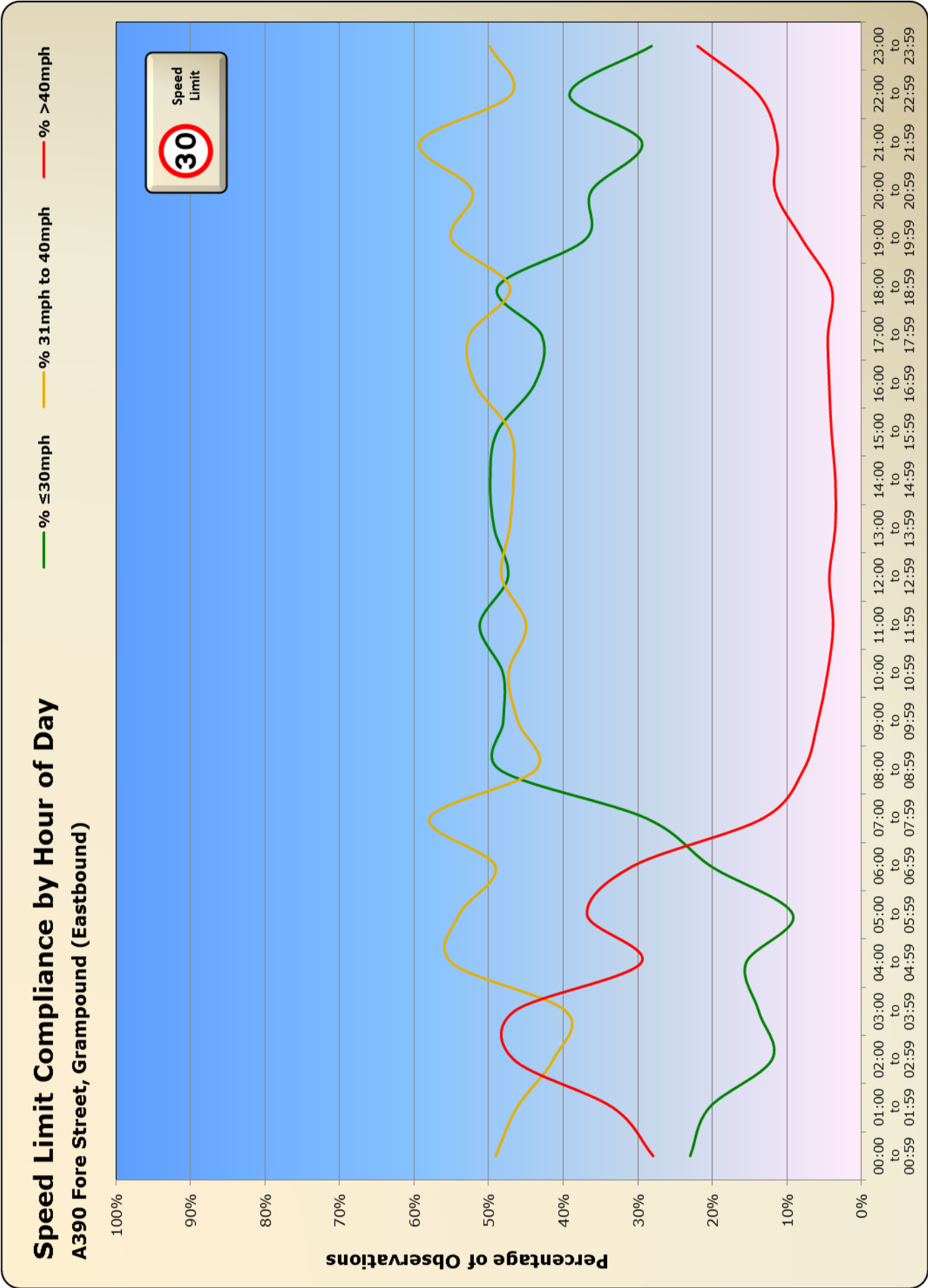
3.3.1. Eastbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	36.8	45	8.5	23.0%	49.1%	28.0%
01:00 to 01:59	37.2	46	8.7	20.4%	46.2%	33.3%
02:00 to 02:59	40.3	49	8.8	12.0%	41.3%	46.7%
03:00 to 03:59	41.2	51	10.1	13.8%	39.7%	46.6%
04:00 to 04:59	37.9	43	8.7	15.5%	54.9%	29.6%
05:00 to 05:59	39.5	48	7.8	9.2%	54.0%	36.8%
06:00 to 06:59	36.8	44	7.6	20.2%	49.1%	30.7%
07:00 to 07:59	34.1	40	5.6	28.9%	57.9%	13.2%
08:00 to 08:59	31.3	37	6.2	48.5%	43.7%	7.8%
09:00 to 09:59	31.4	37	5.5	48.1%	46.1%	5.9%
10:00 to 10:59	31.0	36	5.2	48.1%	47.4%	4.6%
11:00 to 11:59	30.8	35	5.0	51.2%	45.0%	3.8%
12:00 to 12:59	31.1	36	5.1	47.4%	48.3%	4.3%
13:00 to 13:59	31.0	36	5.0	49.3%	47.2%	3.5%
14:00 to 14:59	30.9	36	5.0	49.8%	46.7%	3.5%
15:00 to 15:59	31.0	36	4.9	48.9%	47.1%	4.0%
16:00 to 16:59	31.5	36	4.8	43.8%	51.8%	4.3%
17:00 to 17:59	31.7	36	4.7	42.9%	52.6%	4.5%
18:00 to 18:59	31.0	35	4.7	48.8%	47.2%	4.0%
19:00 to 19:59	32.4	38	5.8	37.0%	55.0%	8.0%
20:00 to 20:59	33.1	39	6.2	36.2%	52.2%	11.6%
21:00 to 21:59	34.0	40	5.9	29.4%	59.3%	11.3%
22:00 to 22:59	33.2	39	6.7	39.2%	47.0%	13.9%
23:00 to 23:59	35.6	43	7.3	28.2%	49.9%	22.0%

3.3.2. Eastbound Mean Speed & 85%ile Speed by Hour of Day Chart.




3.3.3. Eastbound Speed Limit Compliance by Hour of Day Chart.

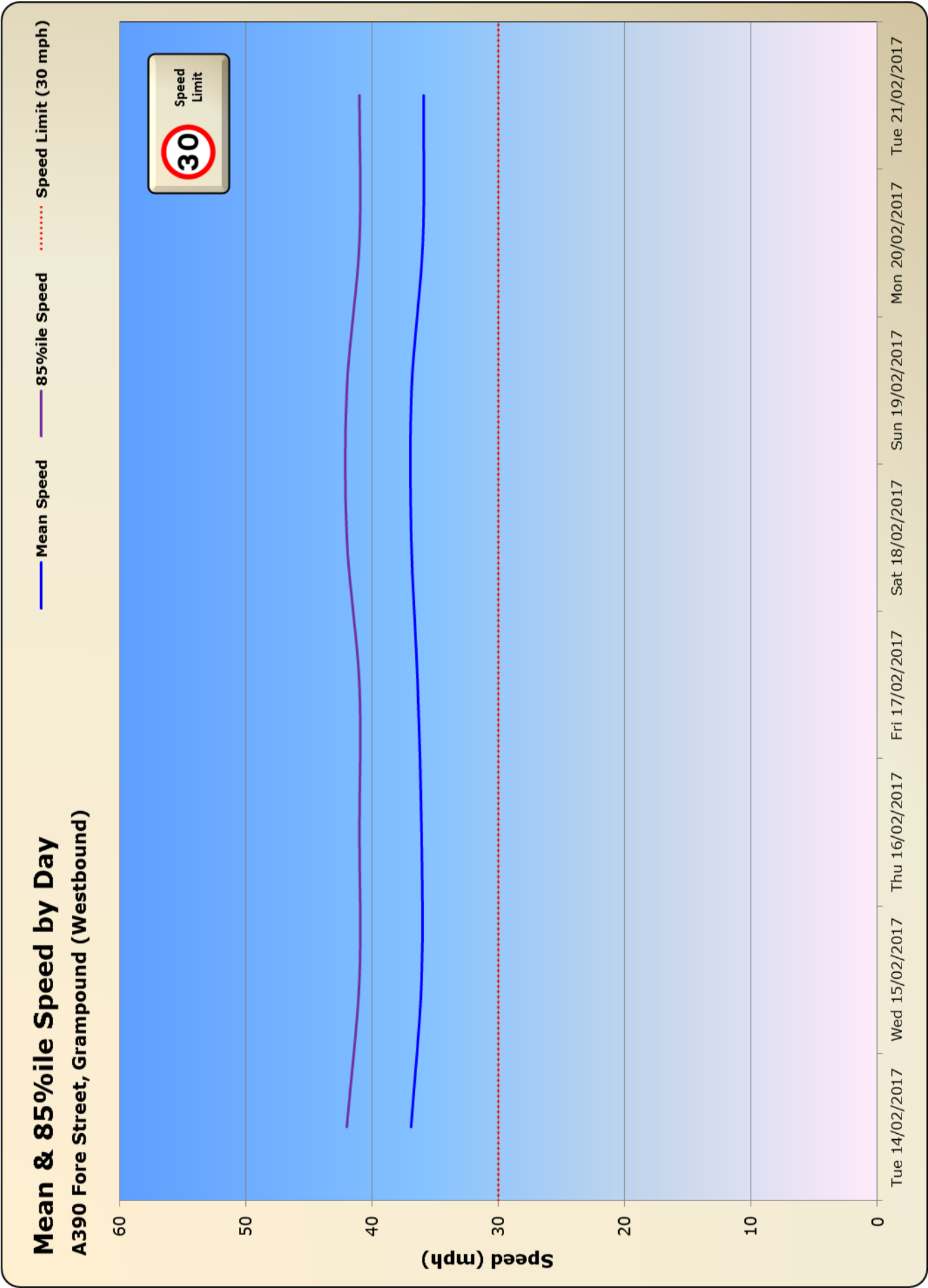


4. Westbound Detailed Statistics.

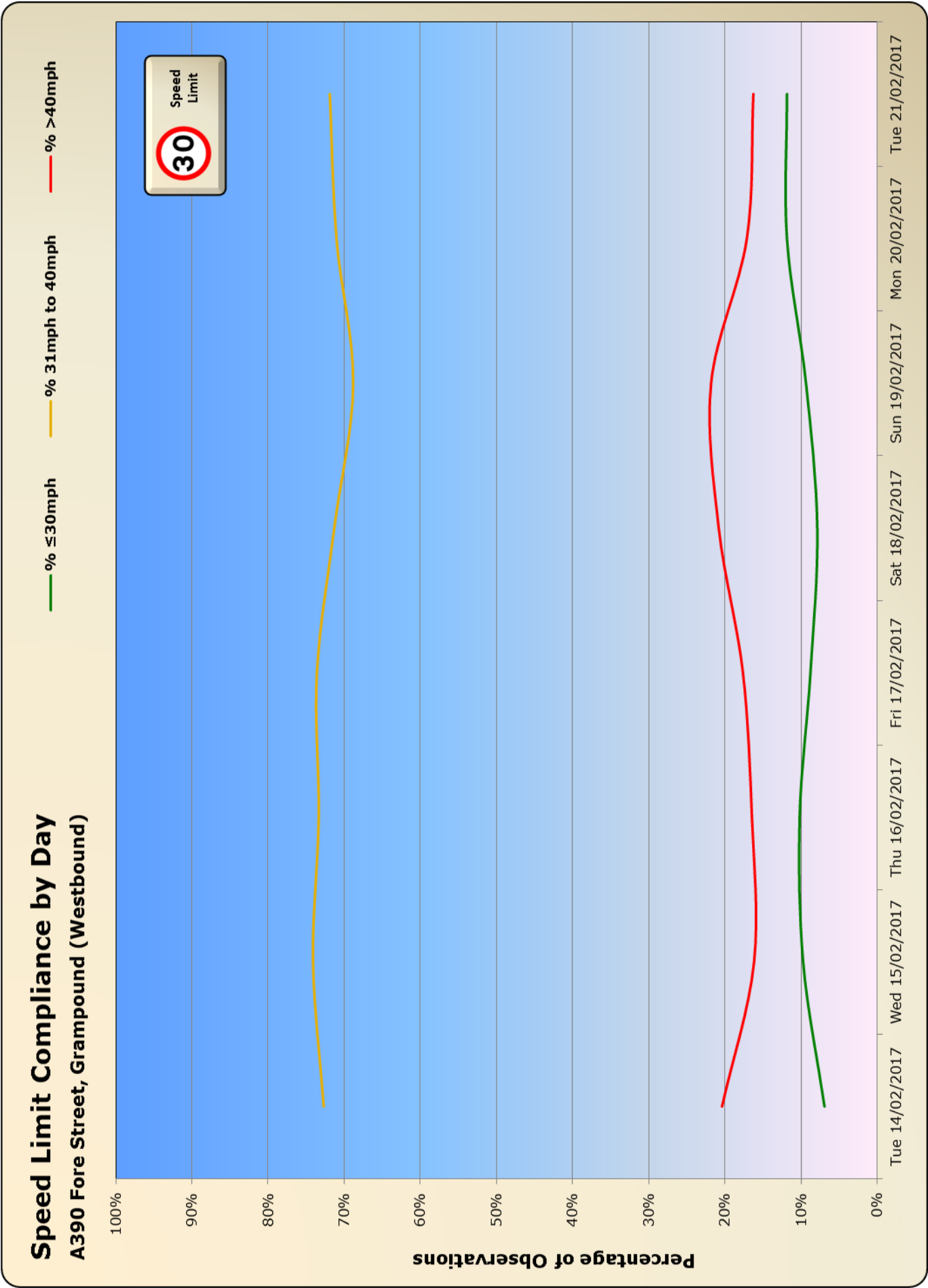
4.1.1. Westbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
Tue 14/02/2017	36.9	42	5.3	6.9%	72.7%	20.4%
Wed 15/02/2017	36.1	41	5.3	9.7%	74.1%	16.2%
Thu 16/02/2017	36.1	41	5.5	10.2%	73.4%	16.5%
Fri 17/02/2017	36.4	41	5.5	8.8%	73.6%	17.6%
Sat 18/02/2017	36.9	42	5.7	7.9%	71.3%	20.8%
Sun 19/02/2017	36.9	42	5.9	9.4%	68.8%	21.8%
Mon 20/02/2017	36.0	41	5.6	11.9%	71.0%	17.1%
Tue 21/02/2017	35.9	41	5.9	11.8%	71.9%	16.3%

4.1.2. Westbound Mean Speed & 85%ile Speed by Day Chart.



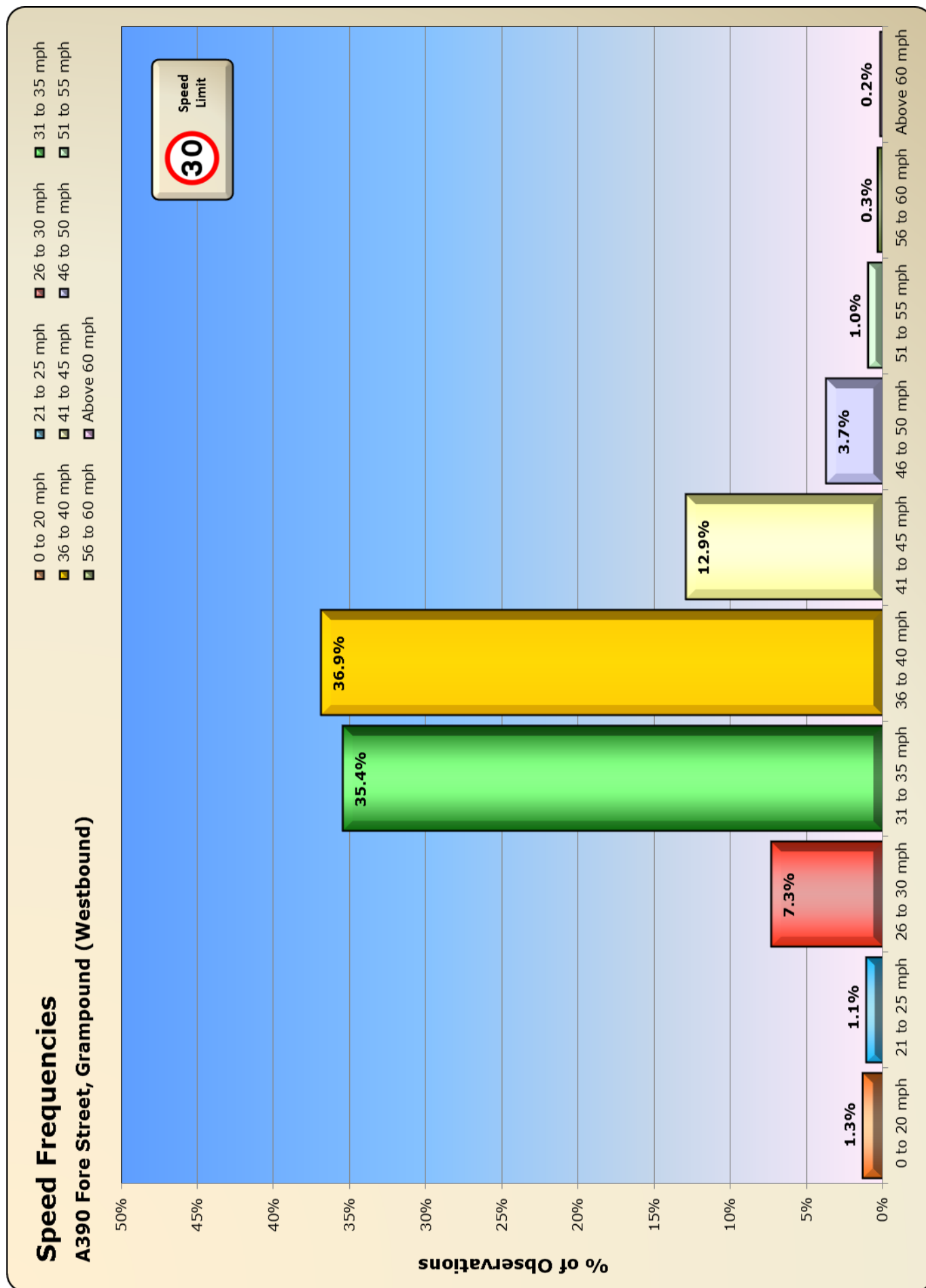
4.1.3. Westbound Speed Limit Compliance by Day Chart.




4.2.1. Westbound Speed Frequencies by Day Table.

Date	№ ≤ 30			№ > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Tue 14/02/2017	22	14	124	777	903	332	103	28	5	3	2,311
Wed 15/02/2017	80	73	465	2,347	2,359	760	207	47	10	3	6,351
Thu 16/02/2017	90	71	499	2,358	2,394	798	198	46	13	11	6,478
Fri 17/02/2017	68	69	411	2,247	2,351	775	242	60	15	10	6,248
Sat 18/02/2017	64	40	303	1,768	1,921	745	229	63	25	15	5,173
Sun 19/02/2017	47	41	285	1,303	1,441	589	201	45	23	12	3,987
Mon 20/02/2017	97	75	550	2,142	2,184	760	204	59	14	6	6,091
Tue 21/02/2017	38	27	181	769	725	243	57	21	11	6	2,078
Total % of Total	506	410	2,818	13,711	14,278	5,002	1,441	369	116	66	38,717
	1.3%	1.1%	7.3%	35.4%	36.9%	12.9%	3.7%	1.0%	0.3%	0.2%	100.0%

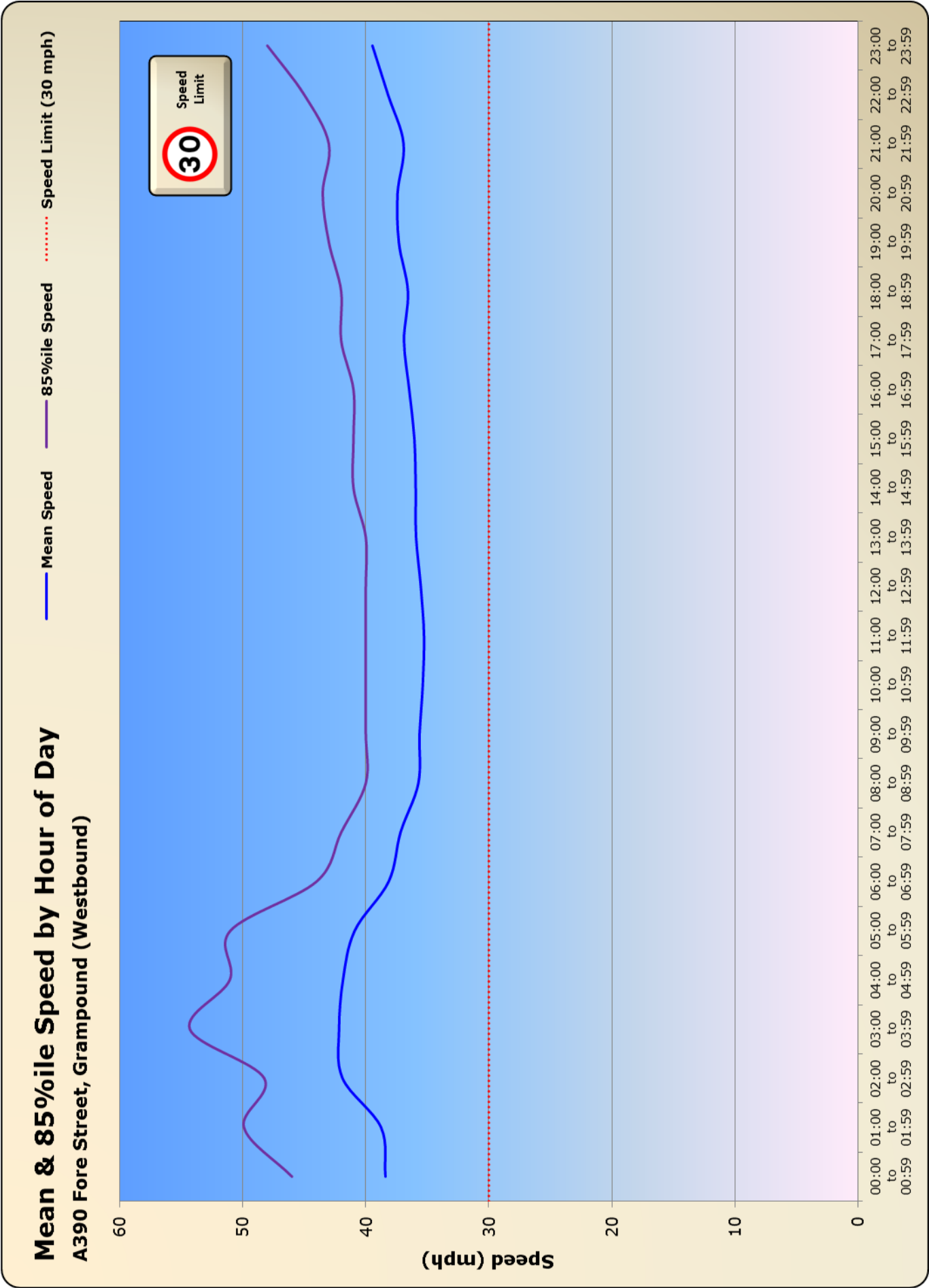
4.2.2. Westbound Speed Frequencies Chart.



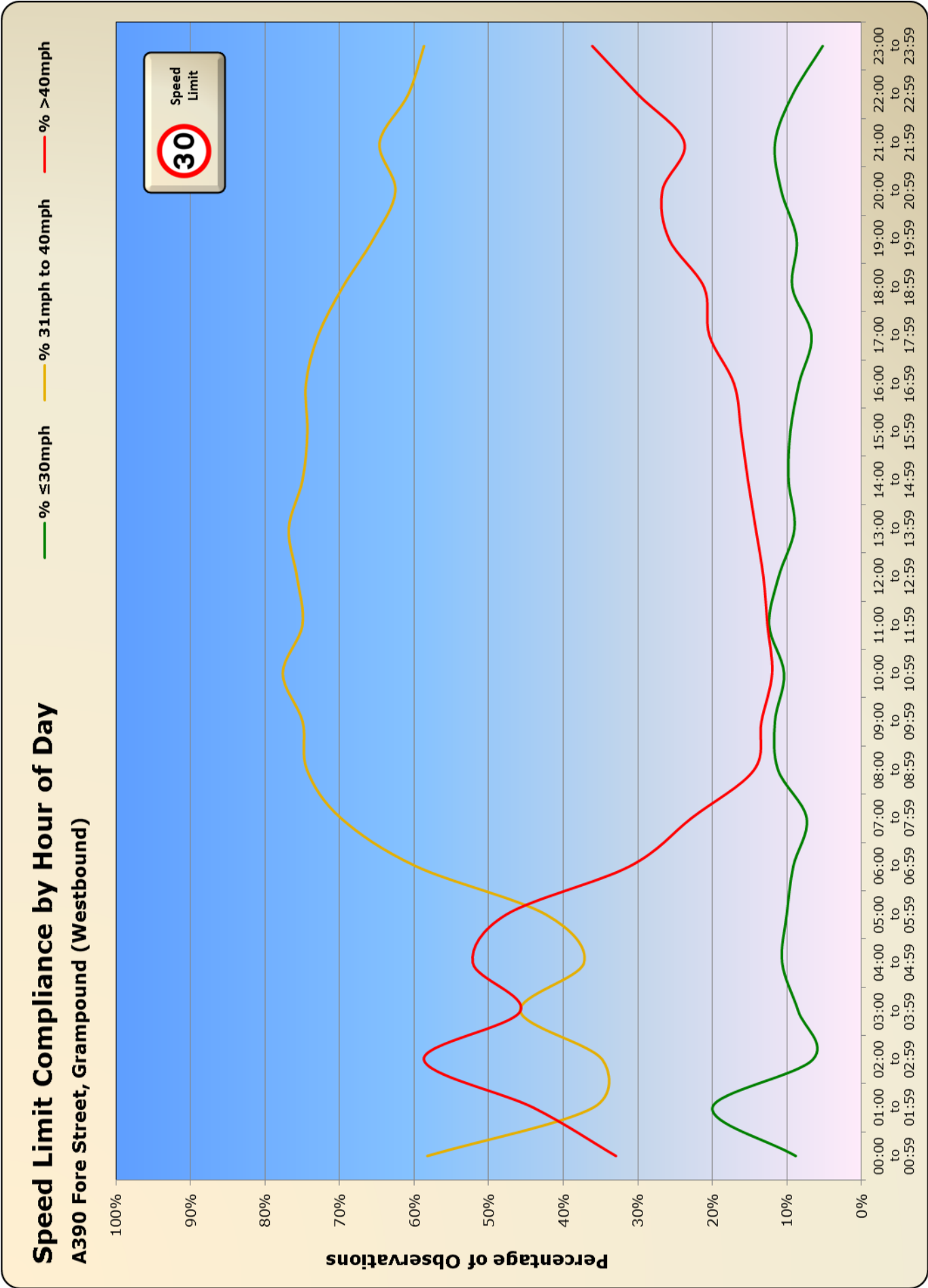
4.3.1. Westbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	38.4	46	8.5	8.8%	58.2%	32.9%
01:00 to 01:59	38.8	50	10.3	20.0%	36.0%	44.0%
02:00 to 02:59	41.9	48	8.6	6.5%	34.8%	58.7%
03:00 to 03:59	42.2	54	10.1	8.5%	45.8%	45.8%
04:00 to 04:59	41.9	51	10.1	10.6%	37.2%	52.1%
05:00 to 05:59	40.9	51	9.0	10.0%	42.3%	47.7%
06:00 to 06:59	38.1	44	6.6	9.2%	59.7%	31.1%
07:00 to 07:59	37.2	42	5.4	7.4%	69.8%	22.8%
08:00 to 08:59	35.7	40	5.4	11.2%	74.4%	14.4%
09:00 to 09:59	35.6	40	5.1	11.6%	75.0%	13.4%
10:00 to 10:59	35.4	40	5.1	10.4%	77.6%	12.0%
11:00 to 11:59	35.3	40	5.2	12.4%	75.0%	12.6%
12:00 to 12:59	35.5	40	5.1	11.1%	75.7%	13.2%
13:00 to 13:59	35.9	40	4.9	9.0%	76.8%	14.2%
14:00 to 14:59	35.9	41	5.1	9.8%	75.0%	15.2%
15:00 to 15:59	36.1	41	5.2	9.5%	74.3%	16.1%
16:00 to 16:59	36.5	41	5.0	8.4%	74.5%	17.1%
17:00 to 17:59	36.9	42	5.0	6.7%	72.9%	20.4%
18:00 to 18:59	36.6	42	5.6	9.3%	69.6%	21.1%
19:00 to 19:59	37.3	43	6.5	8.7%	65.5%	25.8%
20:00 to 20:59	37.4	44	7.0	10.8%	62.5%	26.7%
21:00 to 21:59	36.9	43	6.4	11.6%	64.6%	23.8%
22:00 to 22:59	38.2	45	6.9	9.2%	60.8%	30.0%
23:00 to 23:59	39.5	48	8.2	5.2%	58.7%	36.1%

4.3.2. Westbound Mean Speed & 85%ile Speed by Hour of Day Chart.



4.3.3. Westbound Speed Limit Compliance by Hour of Day Chart.





Produced by
Engineering Design Group
Cormac Solutions Ltd



Speed Analysis

RadarClass is part of the
Engineering Design Group
Speed Analysis Programme



View the SpeedVISOR & RadarClass layer on Intranet mapping at

<http://cornwallcouncilintranet.cc.cornwallonline.net/default.aspx?page=1480>

(Cormac and Cornwall Council employees only)

View the locations of all SpeedVISOR and RadarClass deployments since 2002 on an interactive map of Cornwall with an option to view and download speed analysis statistics reports.

To request a deployment and/or obtain a quote for
SpeedVISOR, RadarClass or Hand-held Radar deployment
please contact

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