



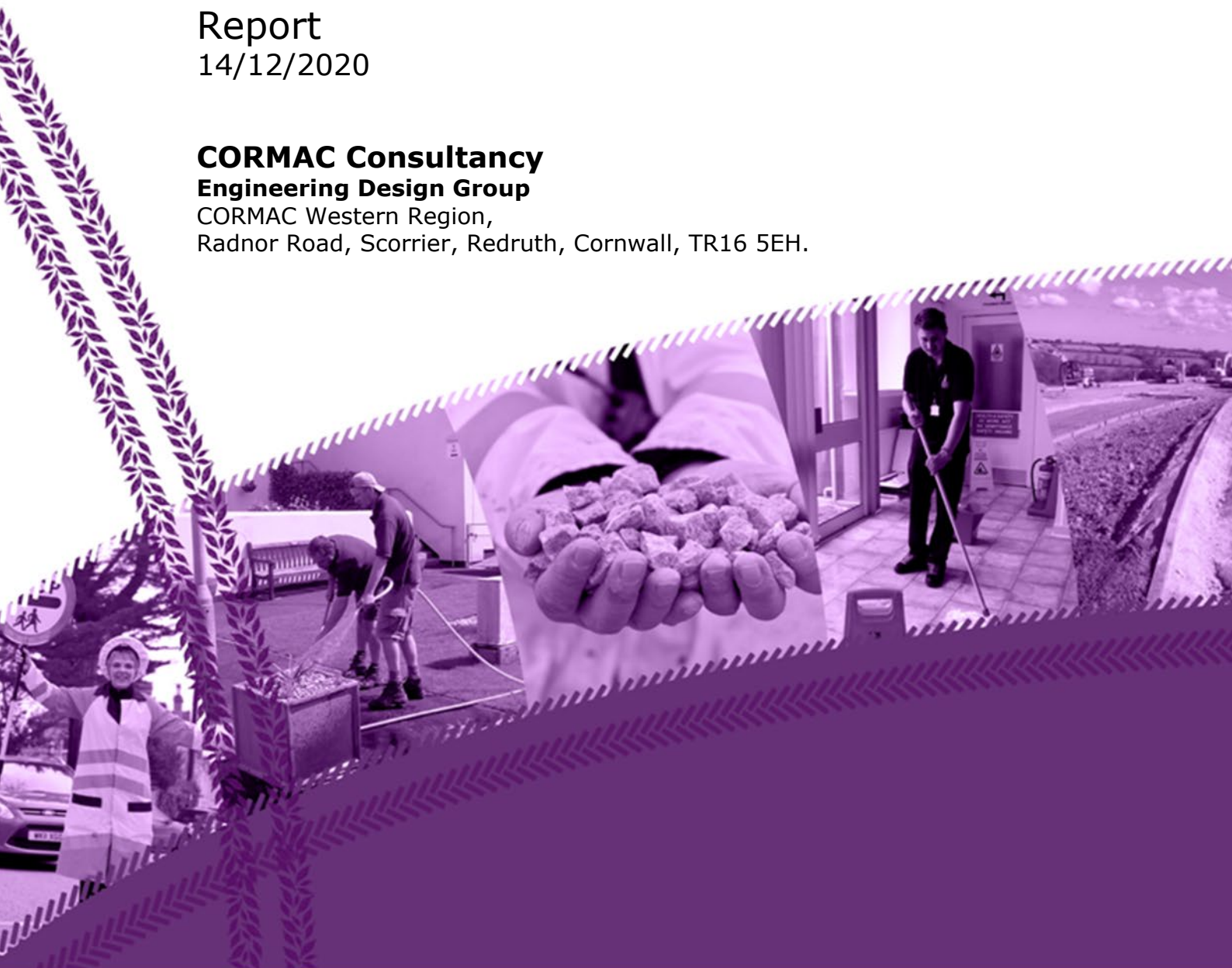
# RadarClass

B3257 Bodmin Road, Congdon's Shop  
October 2020

Report  
14/12/2020

## **CORMAC Consultancy Engineering Design Group**

CORMAC Western Region,  
Radnor Road, Scorrier, Redruth, Cornwall, TR16 5EH.







# RadarClass

**B3257 Bodmin Road,  
Congdon's Shop  
October 2020  
South-eastbound / North-westbound**

Route Nº	Column Nº	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference
B3257	Post	East	Unit 9	228235 / 078349

Date of Deployment	End of Operation	Total Period of Operation
21/10/2020	28/10/2020	8 days

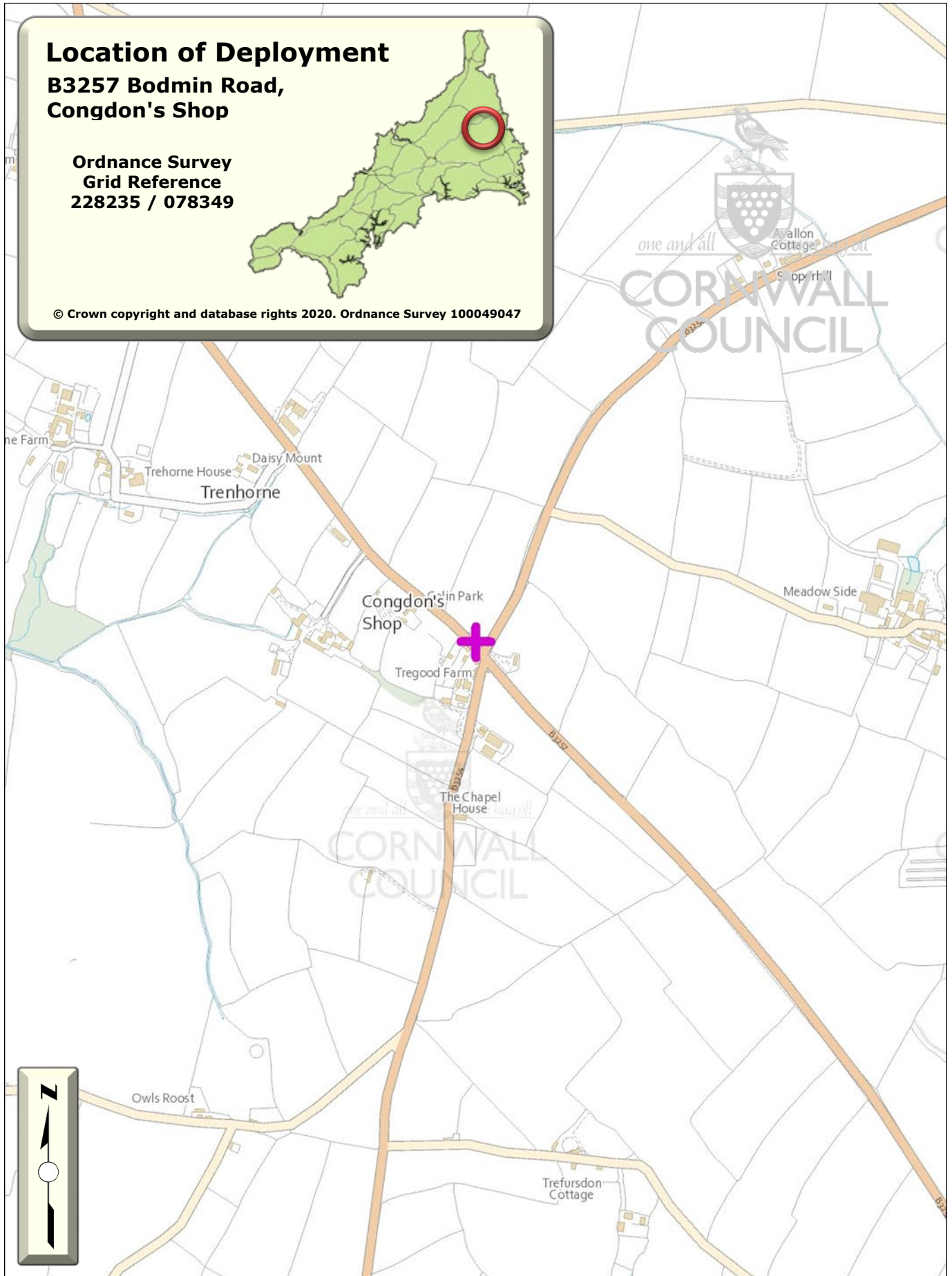
## Summary Table

 Speed Limit	All Observations		Weekdays		Weekends	
	South-eastbound	North-westbound	South-eastbound	North-westbound	South-eastbound	North-westbound
<b>Number of Observations:</b>	<b>5,948</b>	<b>6,778</b>	4,748	5,427	1,200	1,351
<b>Mean Speed (mph):</b>	<b>34.5</b>	<b>34.7</b>	34.3	34.7	35.0	34.8
<b>85%ile Speed (mph):</b>	<b>42</b>	<b>42</b>	42	42	42	43
<b>Standard Deviation:</b>	<b>7.4</b>	<b>7.7</b>	7.4	7.6	7.4	8.0
<b>% ≤  :</b>	<b>79.5%</b>	<b>78.5%</b>	80.5%	78.5%	75.7%	78.2%
<b>% 41 mph to 50 mph:</b>	<b>19.0%</b>	<b>19.8%</b>	18.0%	19.8%	22.9%	19.9%
<b>% &gt;50 mph:</b>	<b>1.5%</b>	<b>1.7%</b>	1.5%	1.7%	1.4%	1.9%

<b>Comments:</b>	
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<b>Data Submitted by:</b>	Ken Dunn	<b>Data Processed by:</b>	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.



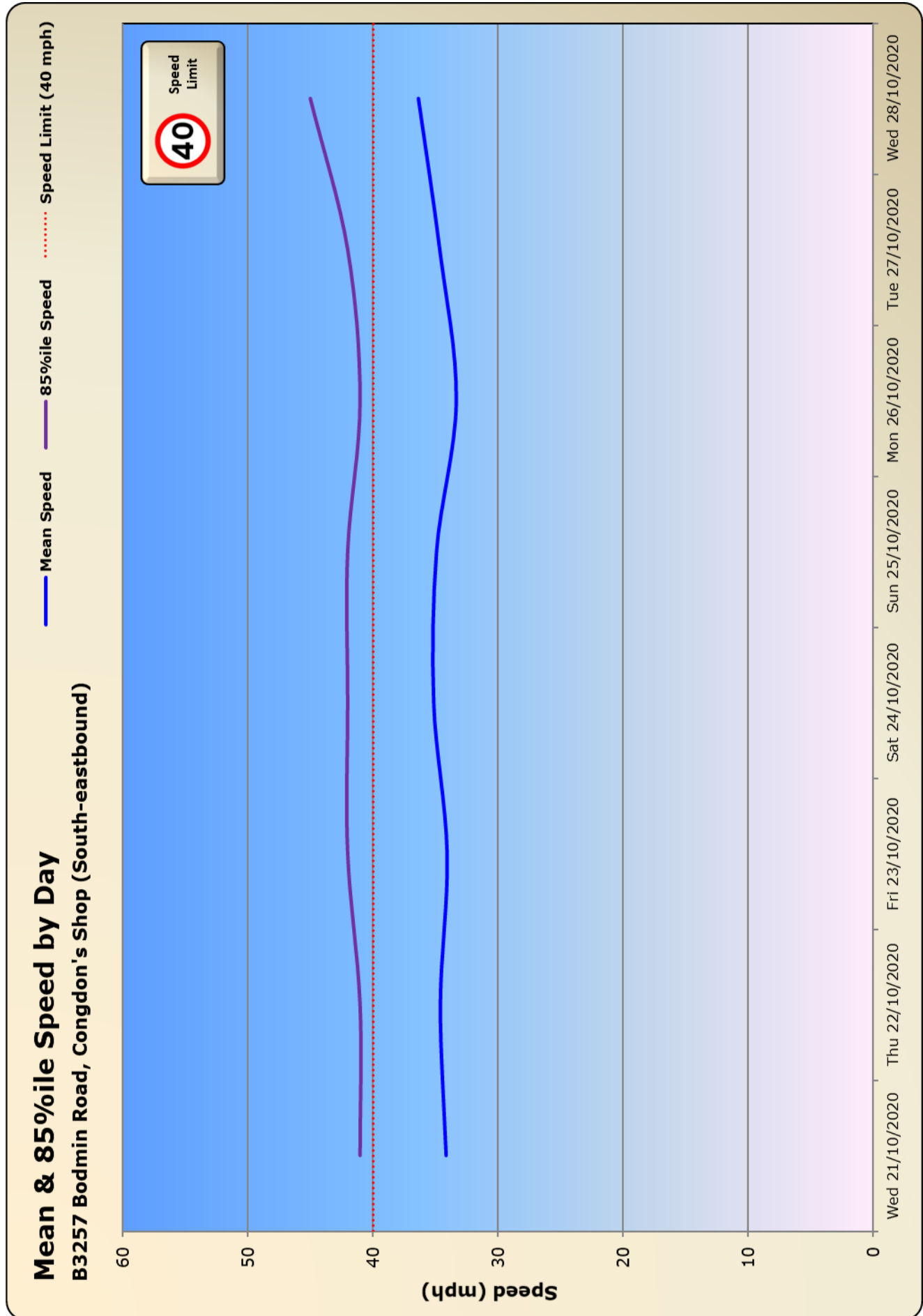
<b>Nº of Observations:</b>	The number of readings recorded by the radar. This does not correspond to an exact count of vehicles passing the sign, since vehicles may pass the sign in a tightly packed group (or 'platoon'); the radar will only record data for the 'lead vehicle' that is determining the speed for the remainder of the platoon.
<b>Mean Speed:</b>	The arithmetic average of all the speed values recorded.
<b>85%ile Speed:</b>	The speed at or below which 85% of the vehicles recorded were travelling.
<b>Standard Deviation:</b>	A measure of how widely speeds are dispersed from the Mean Speed.
<b>% ≤ 40 :</b>	The percentage of vehicles travelling at speeds of 40 mph or below (i.e. the percentage of vehicles travelling at or within the 40 mph speed limit).
<b>% 41 mph to 50 mph:</b>	The percentage of vehicles travelling at speeds of between 41 mph and 50mph.
<b>% &gt;50 mph:</b>	The percentage of vehicles travelling at speeds greater than 50 mph (i.e. the percentage of vehicles travelling at speeds in excess of 10mph above the 40 mph speed limit).

### 3. South-eastbound Detailed Statistics.

#### 3.1.1. South-eastbound Daily Summary Table.

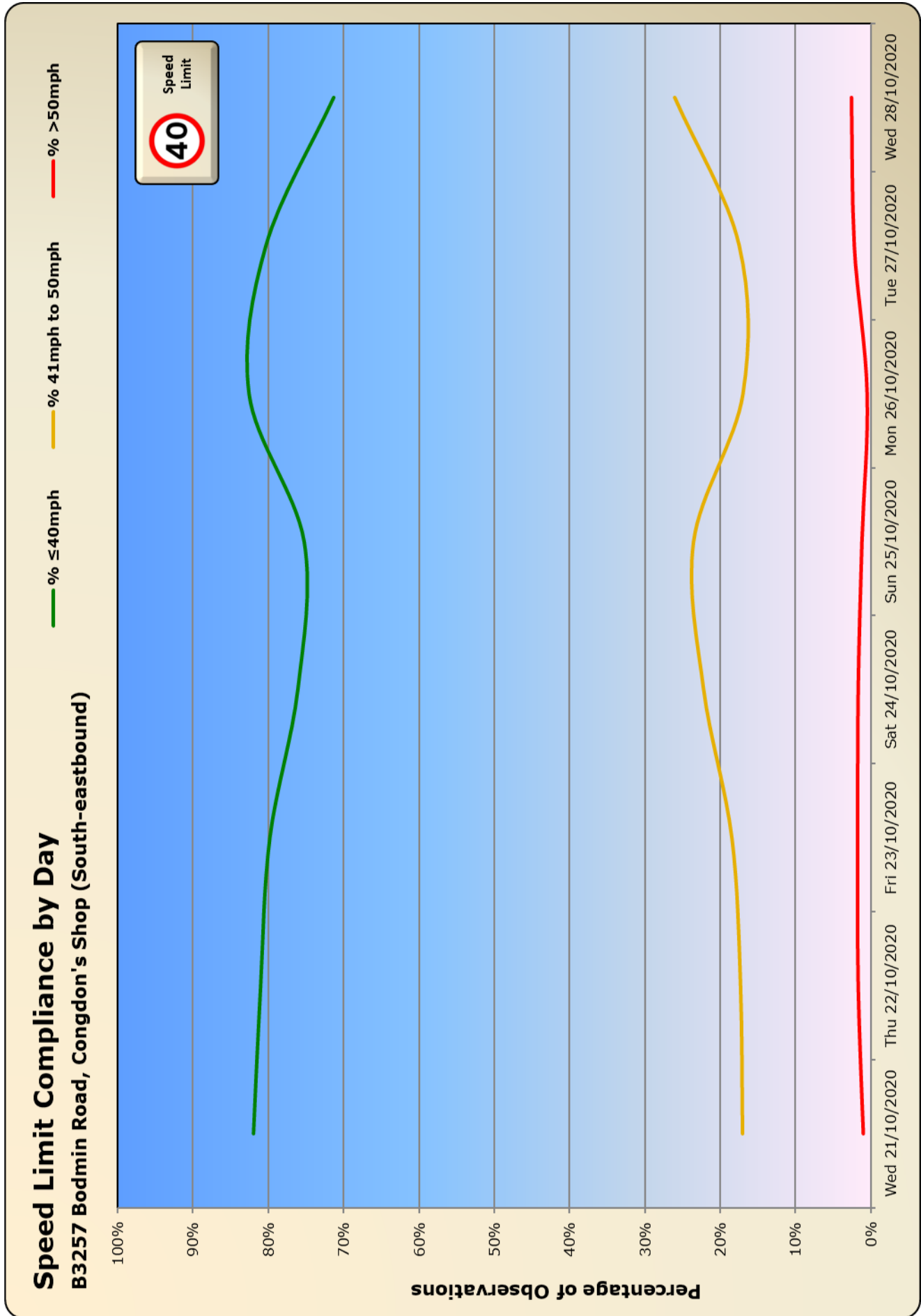
Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 41 mph to 50 mph	% >50 mph
<b>Wed 21/10/2020</b>	34.2	41	6.9	82.0%	17.0%	1.0%
<b>Thu 22/10/2020</b>	34.6	41	7.2	81.0%	17.3%	1.7%
<b>Fri 23/10/2020</b>	34.1	42	7.7	79.8%	18.5%	1.7%
<b>Sat 24/10/2020</b>	35.1	42	7.5	76.1%	22.2%	1.7%
<b>Sun 25/10/2020</b>	34.9	42	7.3	75.2%	23.6%	1.2%
<b>Mon 26/10/2020</b>	33.4	41	7.3	82.6%	17.0%	0.5%
<b>Tue 27/10/2020</b>	34.7	42	7.3	80.3%	17.5%	2.2%
<b>Wed 28/10/2020</b>	36.3	45	7.8	71.3%	26.1%	2.6%

### 3.1.2. South-eastbound Mean Speed & 85%ile Speeds by Day Chart.





### 3.1.3. South-eastbound Speed Limit Compliance by Day Chart.

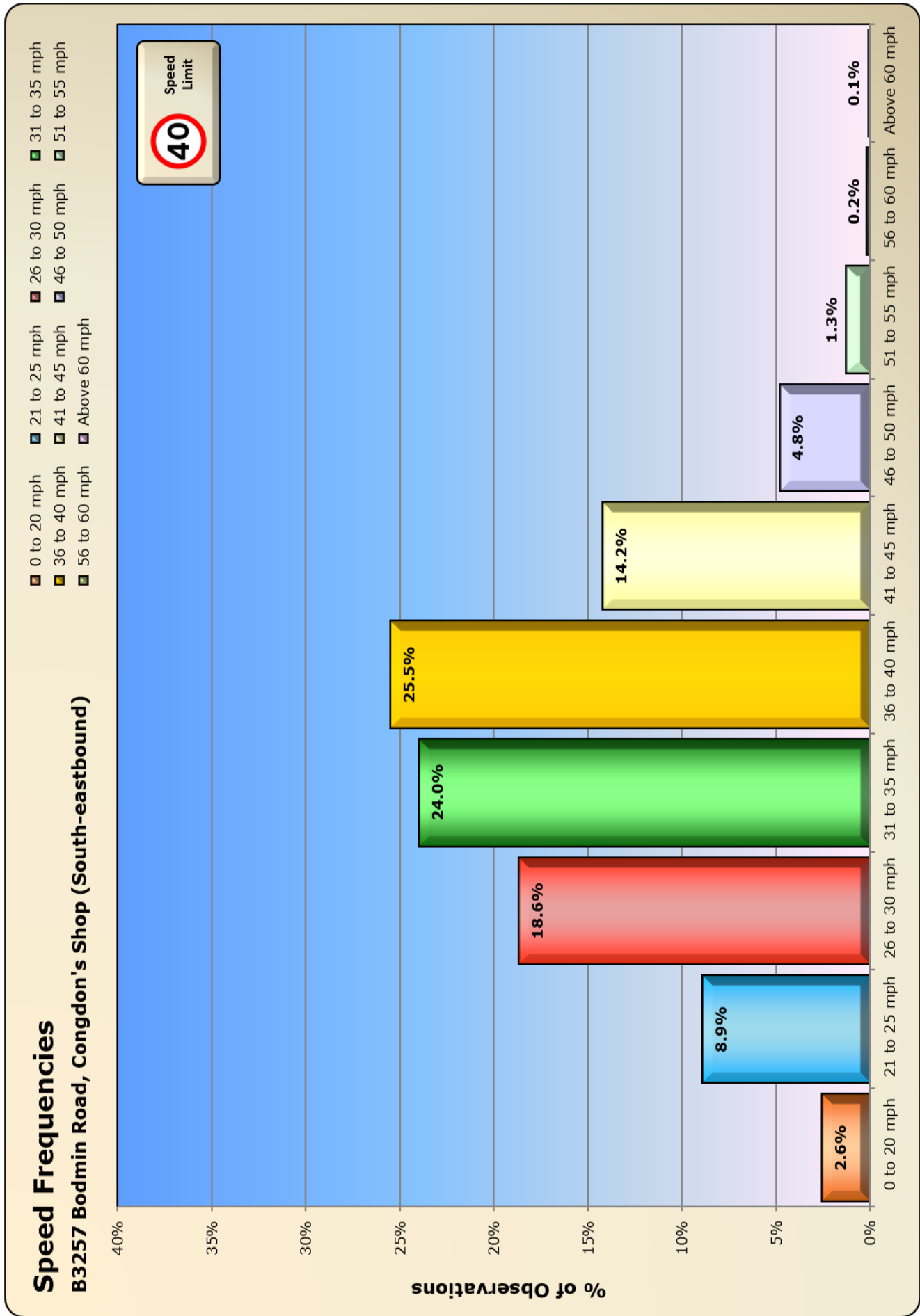


## 3.2.1. South-eastbound Speed Frequencies by Day Table.


Date	No ≤ 40					No > 40					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	
Wed 21/10/2020	11	63	147	178	183	91	30	7	0	0	710
Thu 22/10/2020	25	73	189	258	279	129	47	13	3	1	1,017
Fri 23/10/2020	29	109	178	226	240	142	39	15	1	1	980
Sat 24/10/2020	20	39	109	127	160	97	36	10	0	0	598
Sun 25/10/2020	9	55	118	122	149	108	34	5	2	0	602
Mon 26/10/2020	31	100	168	210	201	115	31	4	0	0	860
Tue 27/10/2020	21	73	161	243	232	118	41	16	3	1	909
Wed 28/10/2020	6	16	39	62	71	44	27	6	0	1	272
<b>Total</b>	<b>152</b>	<b>528</b>	<b>1,109</b>	<b>1,426</b>	<b>1,515</b>	<b>844</b>	<b>285</b>	<b>76</b>	<b>9</b>	<b>4</b>	<b>5,948</b>
<b>% of Total</b>	<b>2.6%</b>	<b>8.9%</b>	<b>18.6%</b>	<b>24.0%</b>	<b>25.5%</b>	<b>14.2%</b>	<b>4.8%</b>	<b>1.3%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>100.0%</b>



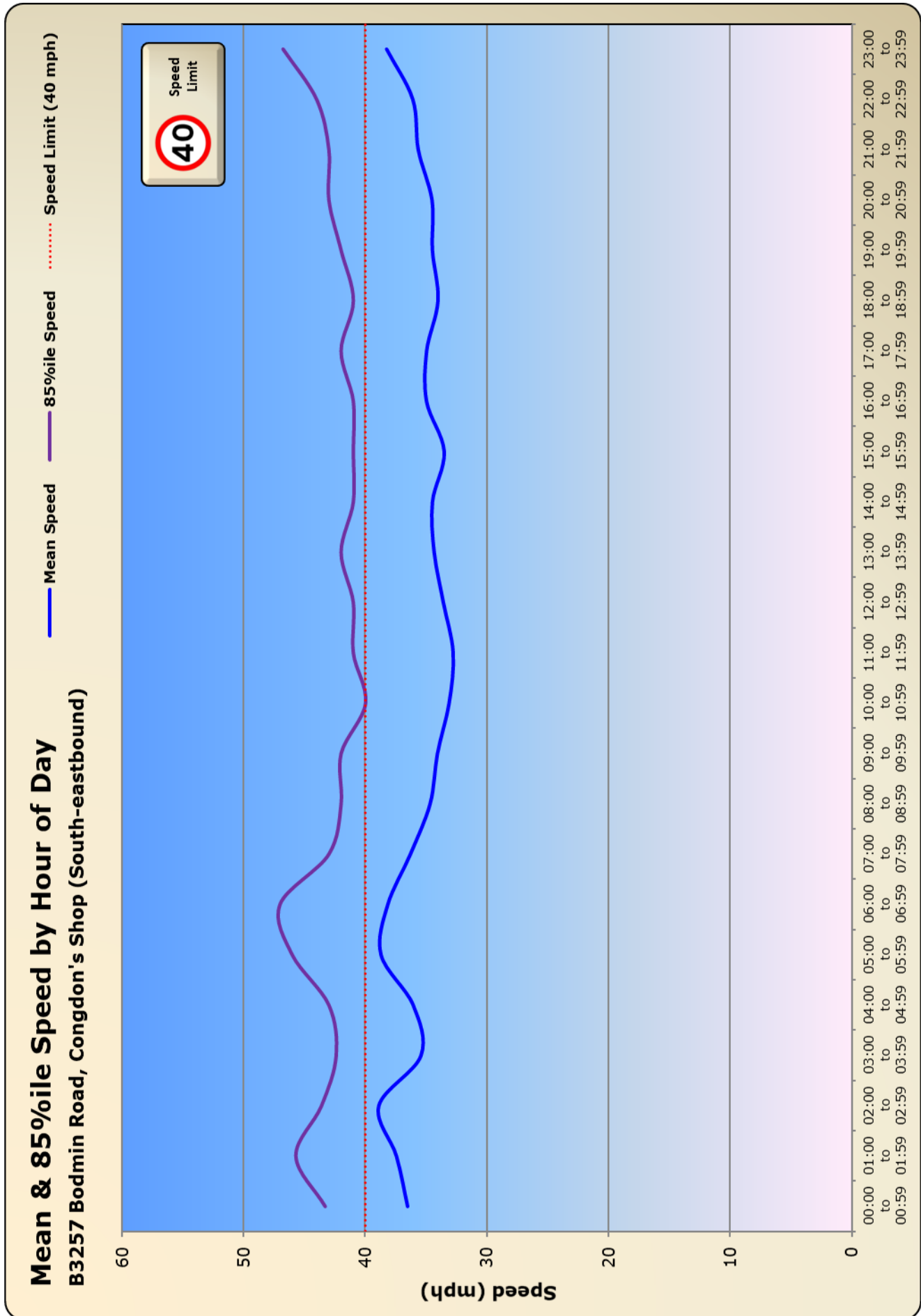
3.2.2. South-eastbound Speed Frequencies Chart.



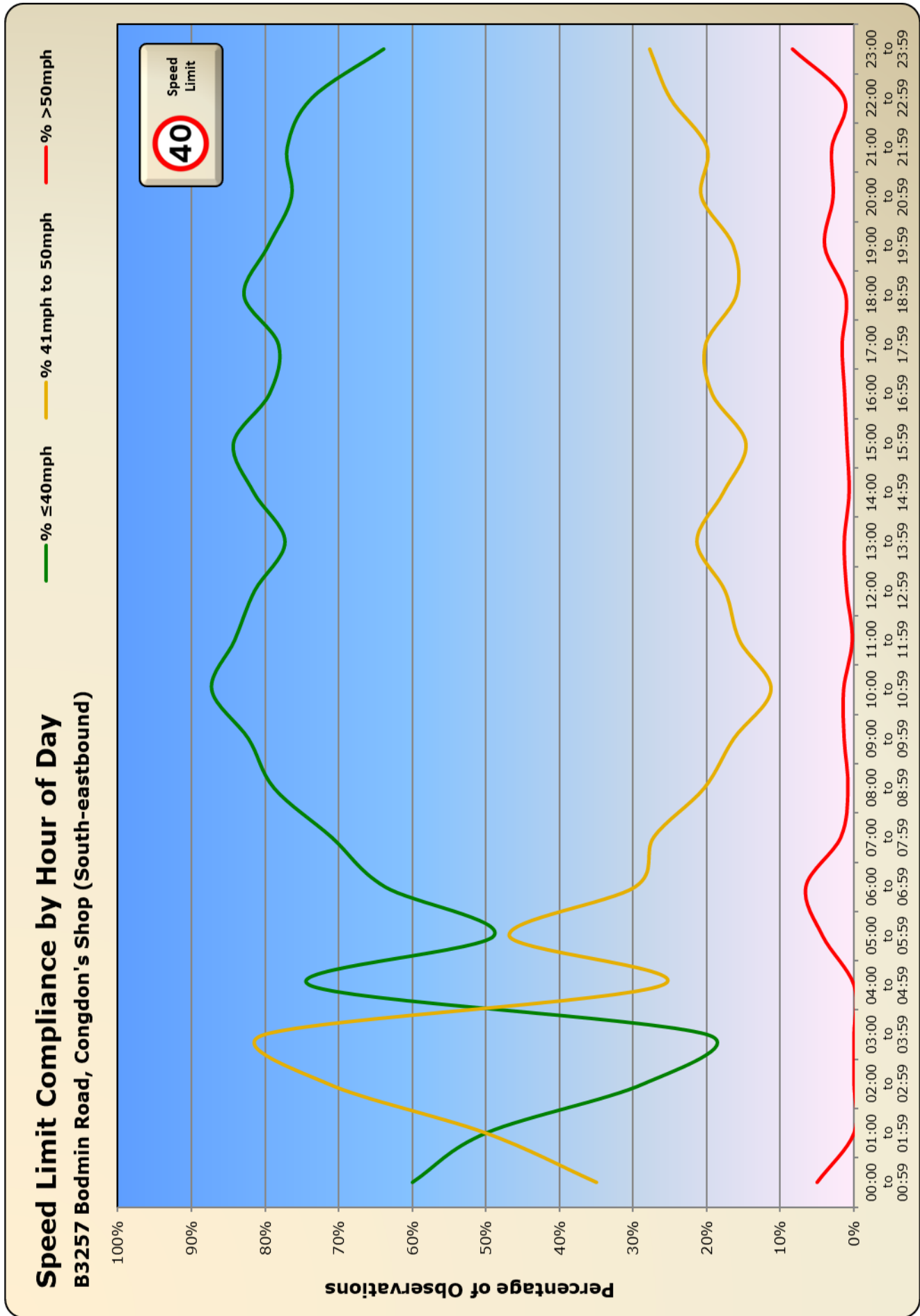
## 3.3.1. South-eastbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 41 mph to 50 mph	% >50 mph
00:00 to 00:59	36.5	43	7.7	60.0%	35.0%	5.0%
01:00 to 01:59	37.4	46	8.9	50.0%	50.0%	0.0%
02:00 to 02:59	38.9	44	10.6	28.6%	71.4%	0.0%
03:00 to 03:59	35.4	42	14.2	20.0%	80.0%	0.0%
04:00 to 04:59	36.0	43	6.0	73.9%	26.1%	0.0%
05:00 to 05:59	38.7	46	7.5	48.9%	46.8%	4.3%
06:00 to 06:59	38.1	47	8.1	63.8%	29.7%	6.5%
07:00 to 07:59	36.3	43	7.3	71.0%	27.2%	1.8%
08:00 to 08:59	34.7	42	7.4	78.8%	20.4%	0.8%
09:00 to 09:59	34.1	42	7.6	82.3%	16.4%	1.3%
10:00 to 10:59	33.1	40	7.1	87.3%	11.3%	1.4%
11:00 to 11:59	32.8	41	7.2	84.1%	15.6%	0.2%
12:00 to 12:59	33.6	41	7.3	81.5%	17.5%	1.0%
13:00 to 13:59	34.3	42	7.6	77.3%	21.4%	1.3%
14:00 to 14:59	34.5	41	6.8	81.6%	17.8%	0.7%
15:00 to 15:59	33.5	41	6.7	84.3%	14.7%	1.0%
16:00 to 16:59	35.0	41	7.0	79.4%	19.3%	1.3%
17:00 to 17:59	34.9	42	7.3	78.2%	20.2%	1.6%
18:00 to 18:59	34.0	41	7.1	82.9%	16.0%	1.1%
19:00 to 19:59	34.5	42	7.8	79.6%	16.4%	4.0%
20:00 to 20:59	34.5	43	8.4	76.4%	20.8%	2.8%
21:00 to 21:59	35.6	43	7.6	77.0%	20.0%	3.0%
22:00 to 22:59	36.1	44	7.9	73.7%	25.0%	1.3%
23:00 to 23:59	38.2	47	7.1	63.9%	27.8%	8.3%

### 3.3.2. South-eastbound Mean Speed & 85%ile Speed by Hour of Day Chart.




3.3.3. South-eastbound Speed Limit Compliance by Hour of Day Chart.

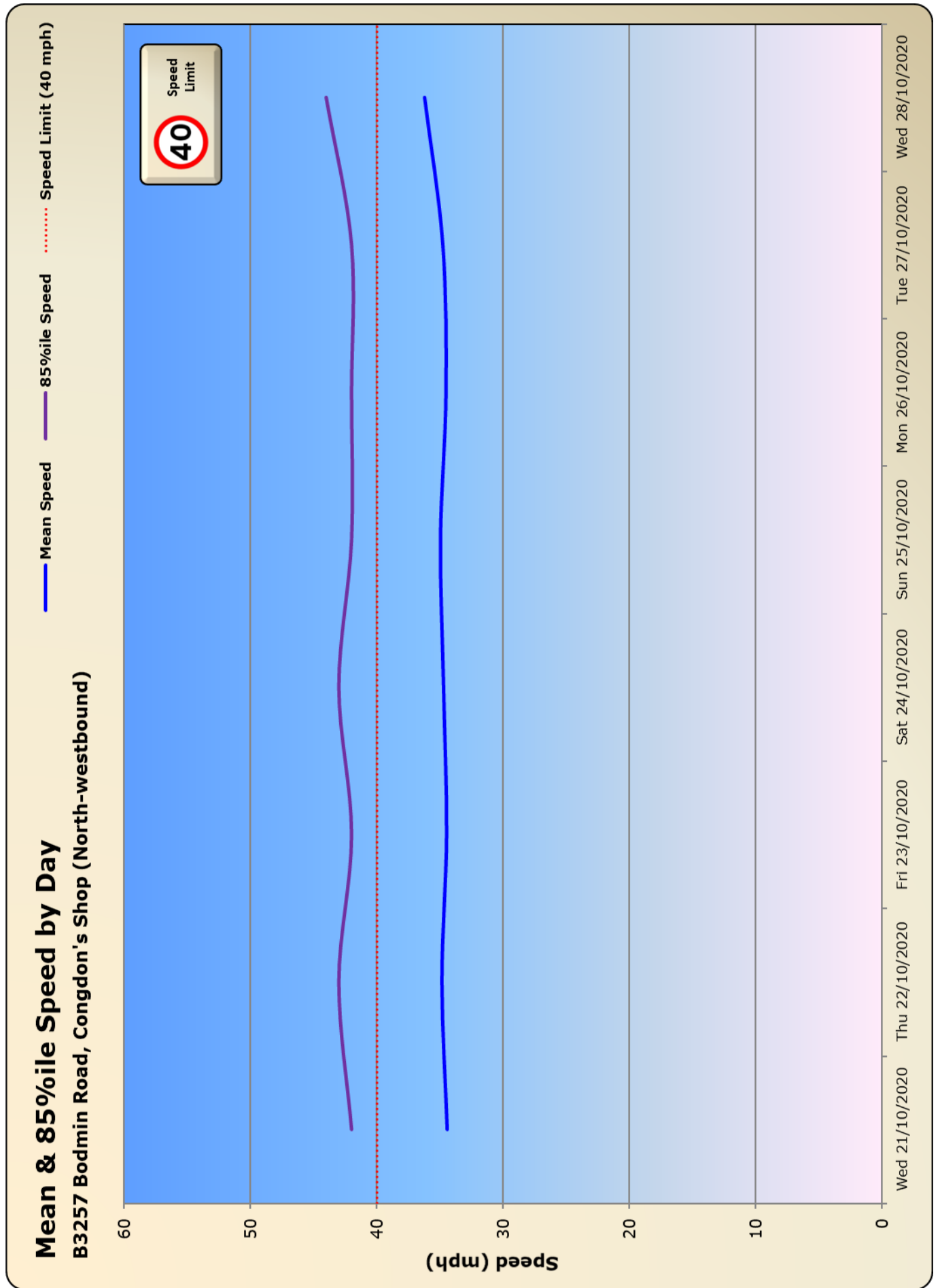


## 4. North-westbound Detailed Statistics.

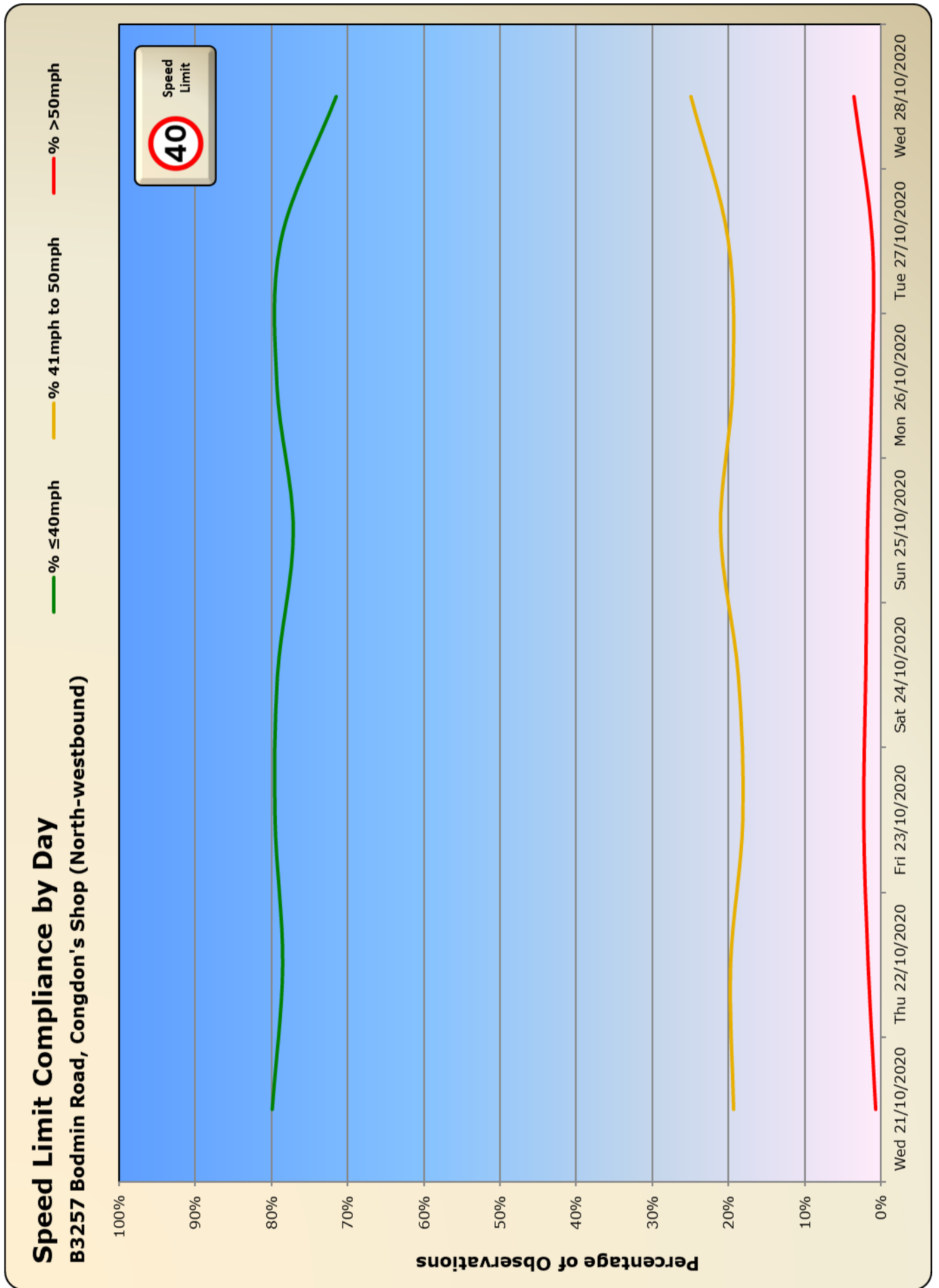
### 4.1.1. North-westbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 41 mph to 50 mph	% >50 mph
<b>Wed 21/10/2020</b>	34.4	42	7.4	79.9%	19.4%	0.7%
<b>Thu 22/10/2020</b>	34.8	43	7.4	78.5%	19.8%	1.7%
<b>Fri 23/10/2020</b>	34.5	42	7.8	79.5%	18.2%	2.3%
<b>Sat 24/10/2020</b>	34.7	43	8.3	79.2%	18.8%	2.0%
<b>Sun 25/10/2020</b>	34.9	42	7.6	77.1%	21.1%	1.8%
<b>Mon 26/10/2020</b>	34.5	42	7.5	79.3%	19.5%	1.2%
<b>Tue 27/10/2020</b>	34.8	42	7.4	78.8%	20.1%	1.2%
<b>Wed 28/10/2020</b>	36.2	44	8.0	71.5%	24.9%	3.6%

### 4.1.2. North-westbound Mean Speed & 85%ile Speed by Day Chart.



4.1.3. North-westbound Speed Limit Compliance by Day Chart.

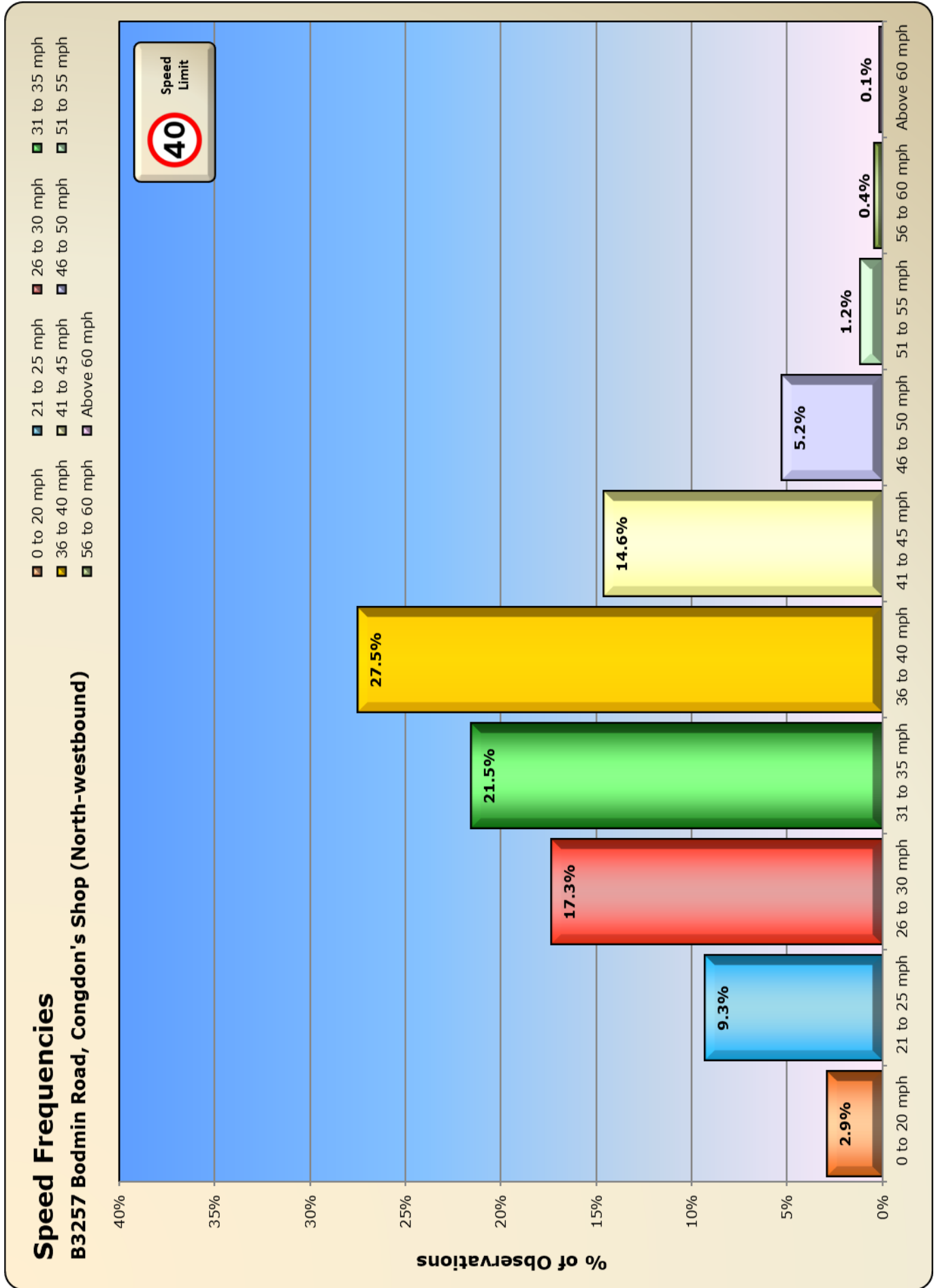





## 4.2.1. North-westbound Speed Frequencies by Day Table.

Date	No ≤ 40					No > 40					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	
Wed 21/10/2020	21	69	113	156	189	92	41	4	1	0	686
Thu 22/10/2020	26	96	216	272	303	168	62	11	8	1	1,163
Fri 23/10/2020	37	101	213	292	288	160	53	15	9	3	1,171
Sat 24/10/2020	29	67	112	133	203	85	44	8	3	3	687
Sun 25/10/2020	7	80	113	137	175	103	37	10	1	1	664
Mon 26/10/2020	34	96	164	191	279	147	41	9	3	0	964
Tue 27/10/2020	27	90	182	206	303	158	48	9	2	1	1,026
Wed 28/10/2020	13	30	61	72	122	75	29	13	1	1	417
<b>Total</b>	<b>194</b>	<b>629</b>	<b>1,174</b>	<b>1,459</b>	<b>1,862</b>	<b>988</b>	<b>355</b>	<b>79</b>	<b>28</b>	<b>10</b>	<b>6,778</b>
<b>% of Total</b>	<b>2.9%</b>	<b>9.3%</b>	<b>17.3%</b>	<b>21.5%</b>	<b>27.5%</b>	<b>14.6%</b>	<b>5.2%</b>	<b>1.2%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>100.0%</b>

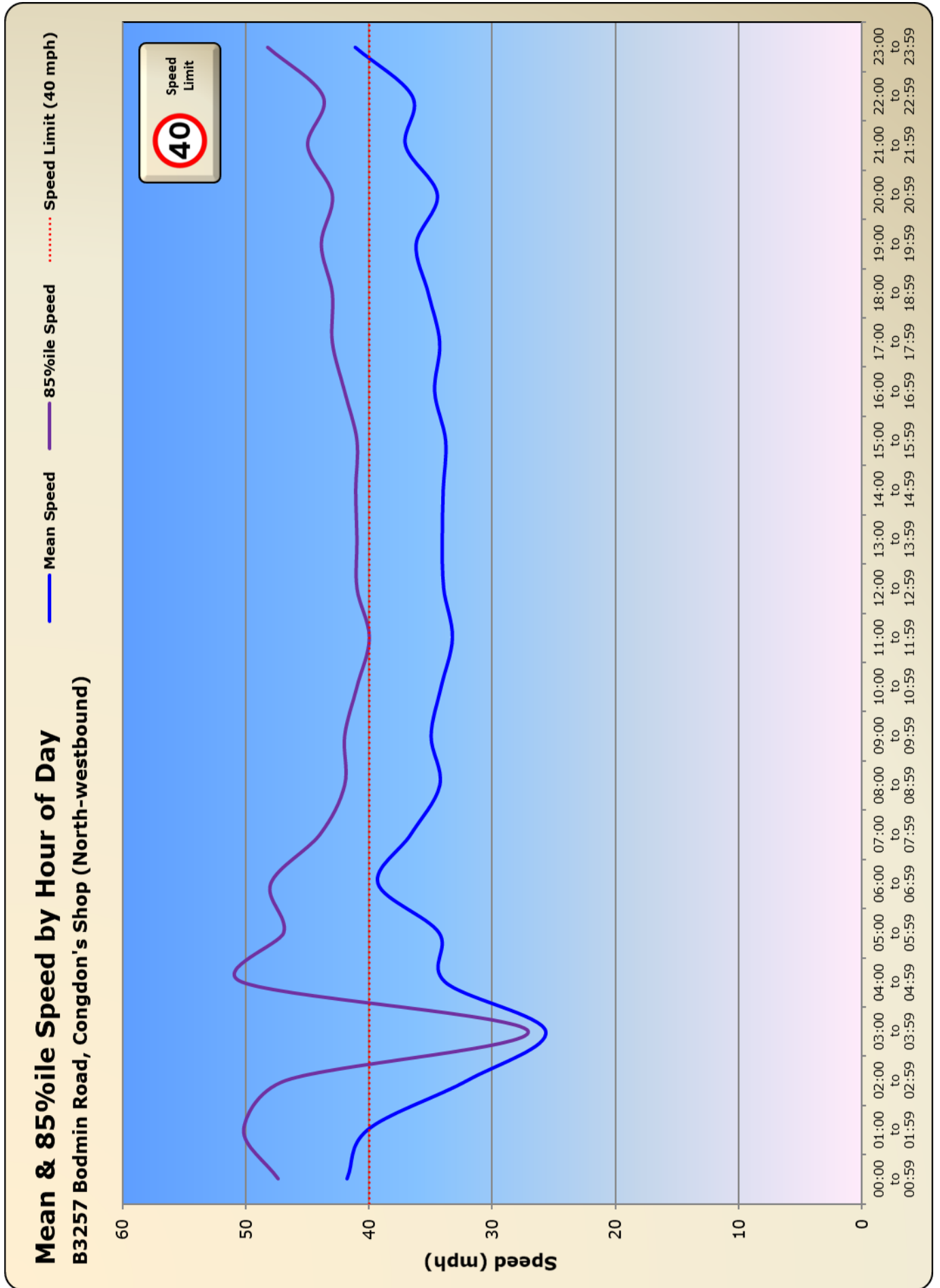
4.2.2. North-westbound Speed Frequencies Chart.



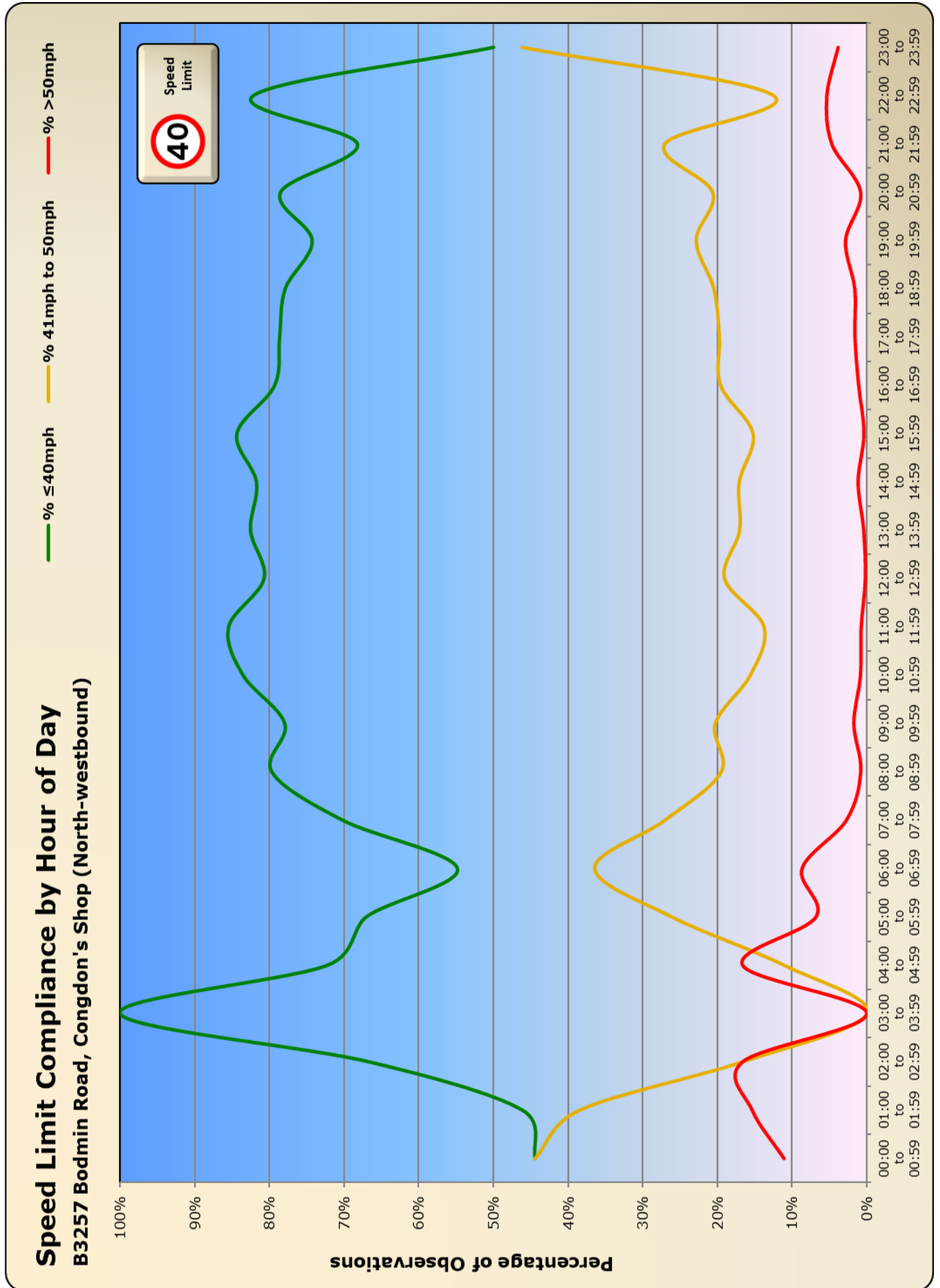
## 4.3.1. North-westbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 41 mph to 50 mph	% >50 mph
00:00 to 00:59	41.8	47	6.2	44.4%	44.4%	11.1%
01:00 to 01:59	40.1	50	10.3	46.2%	38.5%	15.4%
02:00 to 02:59	32.0	47	17.1	66.7%	16.7%	16.7%
03:00 to 03:59	25.7	27	2.1	100.0%	0.0%	0.0%
04:00 to 04:59	33.8	50	13.7	72.2%	11.1%	16.7%
05:00 to 05:59	34.3	47	12.0	67.0%	26.1%	6.8%
06:00 to 06:59	39.3	48	8.2	54.8%	36.5%	8.7%
07:00 to 07:59	36.6	44	7.4	70.2%	27.1%	2.7%
08:00 to 08:59	34.3	42	7.3	79.7%	19.5%	0.8%
09:00 to 09:59	35.0	42	7.6	77.9%	20.3%	1.7%
10:00 to 10:59	34.1	41	7.1	83.5%	15.6%	0.8%
11:00 to 11:59	33.2	40	7.0	85.5%	13.8%	0.8%
12:00 to 12:59	33.9	41	7.5	80.7%	19.1%	0.2%
13:00 to 13:59	34.1	41	7.3	82.5%	17.0%	0.4%
14:00 to 14:59	34.0	41	7.4	81.7%	17.1%	1.2%
15:00 to 15:59	33.8	41	7.1	84.4%	15.3%	0.4%
16:00 to 16:59	34.7	42	7.2	79.3%	19.6%	1.1%
17:00 to 17:59	34.3	43	8.0	78.6%	19.8%	1.6%
18:00 to 18:59	35.2	43	7.3	77.9%	20.5%	1.6%
19:00 to 19:59	36.2	44	7.1	74.3%	22.9%	2.9%
20:00 to 20:59	34.5	43	8.4	78.5%	20.7%	0.8%
21:00 to 21:59	37.0	45	8.2	68.2%	27.1%	4.7%
22:00 to 22:59	36.5	44	7.8	82.1%	12.5%	5.4%
23:00 to 23:59	41.1	48	6.6	50.0%	46.2%	3.8%

4.3.2. North-westbound Mean Speed & 85%ile Speed by Hour of Day Chart.



4.3.3. North-westbound Speed Limit Compliance by Hour of Day Chart.



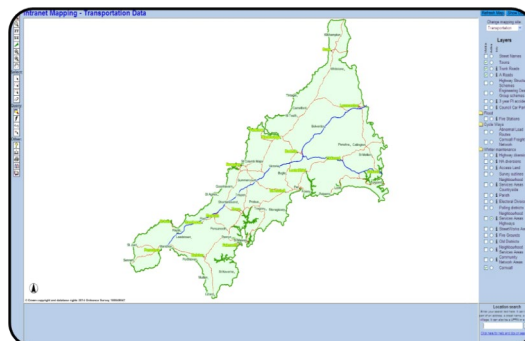


Produced by  
**Engineering Design Group**  
Cormac Solutions Ltd



## 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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