Sound Power Compliance

Boggabri Coal Mobile Fleet

2023

Revision 0

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Report - Sound Power Compliance - 2023

This report has been prepared within the specific requirements agreed upon between Thearle Engineering and Boggabri Coal. This report was prepared with background information, terms of reference and assumptions agreed with the Boggabri Coal. The report is not intended for use by any other individual or organisation. Thearle Engineering will not accept liability for use of the information contained in this report, other than that which was intended at the time of writing.

Introduction:

Thearle Engineering has prepared this report at the request of Boggabri Coal. This report details the results of the annual requirement of sound power testing of 1/3 of the attenuated HME fleet as required by the current Boggabri Coal Noise Management Plan. The testing has been conducted and reported to maintain consistency with previous sound power testing conducted onsite. The machines were tested utilising methodologies consistent with current testing methods employed onsite and throughout the NSW Coal Industry.

In accordance with the Noise Management Plan, the equipment has been assessed such that when a piece of equipment measures greater than 3 dB against the operational specification, the equipment is regarded as non-compliant and recommended courses of action are provided below.

6.5 Mobile plant monitoring

In accordance with Condition 9 of Schedule 3, equipment and noise control measures used at BCM will have their Sound Power Levels quantified once every three years. BCOPL will test a third of the

equipment each year to achieve a representative sample. The result of this monitoring will be assessed annually against the Sound Power Levels used in the EA (Hansen Bailey, 2010). Any plant found to be exceeding its required Sound Power Level by 3 dB or more will, within the next 12 month period, either be modified via reasonable and feasible attenuation methods or other means (if appropriate), or taken out of service. The exceeding machine will then be re-tested during the next round of monitoring. Where required, the level of acoustic attenuation supplied on new mobile mining equipment will be reviewed against the EA to determine if repairs are required to any existing attenuation.

This annual monitoring program of attenuated plant will aim to assess the effectiveness of the attenuation. Equipment and noise control measures will be maintained to deliver sound power levels that are equal to or better than the sound power levels identified in the EA.

The results of the monitoring and attenuation program will be included in the BCOPL Annual Review, which will be made publically available on the BCM website (Idemitsu Approvals, Plans & Reports - Idemitsu)

Extract from Boggabri Coal Noise Management Plan

Referenced Standards:

ISO 3744:2010	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane
AS ISO 6393:2019	Earth-moving machinery – Determination of sound power level Stationary test conditions
AS ISO 6395:2020	Earth-moving machinery – Determination of sound power level Dynamic test conditions
MDG15	Guideline for mobile and transportable equipment for use in mines
Noise-Management-Rev13-April-2019-Final	Boggabri Coal Operations Pty Ltd Noise Management Plan April 2019, Revision No. 13
J0130-30-R2	Boggabri Coal Pty Limited Acoustic Impact Assessment Continuation of Boggabri Coal Mine Environmental Assessment 12 October 2010

Test Configuration:

In accordance with previous years of Annual Sound Testing, testing has been conducted using the methods described in AS ISO 6393 and AS ISO 6395. Haul Truck dynamic testing has been adjusted to Uphill Loaded and Downhill Unloaded. Water Cart and Service Cart dynamic testing has been adjusted to Uphill and Downhill Loaded. The methodology utilised is noted in the test results.

Note: Where the Acoustic Impact Assessment reports values to 1 significant figure, these have been rounded to the nearest integer to align with the requirements of ISO 3744:2010.

Testing Equipment:

Class 1 Sound Meters Pattern Approved to IEC 61672:2013 and IEC 61260:2014.

	Serial Number	Microphone and Preamp Serial Number	Calibration Date	Calibration Expiry
NTI XL2-TA	A2A-18907-E0	A20339 / 9696	11/08/2023	11/08/2025
NTI XL2-TA	A2A-18699-E0	A20326 / 9691	11/08/2023	11/08/2025
NTI XL2-TA	A2A-18906-E0	A19781 / 9601	11/08/2023	11/08/2025
NTI XL2-TA	A2A-15022-E0	A16148 / 7762	16/01/2023	16/01/2025
NTI XL2-TA	A2A-15297-E0	A16173 / 9954	13/01/2023	13/01/2025
NTI XL2-TA	A2A-14999-E0	A16149 / 1888	10/01/2023	10/01/2025
NTI XL2-TA	A2A-15111-E0	A15916 / 7633	20/09/2021	20/09/2023
NTI XL2-TA	A2A-14826-E0	A17538 / 8479	14/10/2021	14/10/2023
NTI XL2-TA	A2A-14797-E0	A15893 / 7656	20/09/2021	20/09/2023
Precision Calibrator CAL200	16048		22/12/2022	22/12/2023
Precision Calibrator CAL200	15642		22/12/2022	22/12/2023

Calibration Certificates are supplied separately on request.

Atmospheric Conditions:

Test Date:	Temperature	Wind Speed	Barometric Pressure	Relative Humidity
11/07/2023	16 °C	< 10KPH	1025 hPa	45 %
27/09/2023	30 °C	< 20KPH	1018 hPa	20 %
28/09/2023	31 °C	< 20KPH	1022 hPa	25 %
18/10/2023	28 °C	< 30KPH	1024 hPa	30 %
19/10/2023	29 °C	< 20KPH	1020 hPa	30 %
16/11/2023	37 °C	< 30KPH	1007 hPa	20 %
17/11/2023	31 °C	< 30KPH	1012 hPa	25 %
23/11/2023	25 °C	< 20KPH	1019 hPa	70 %
24/11/2023	25 °C	< 20KPH	1017 hPa	80 %
04/12/2023	31 °C	< 20KPH	1014 hPa	25 %
05/12/2023	30 °C	< 20KPH	1017 hPa	30 %
12/12/2023	35 °C	< 20KPH	1012 hPa	27 %
13/12/2023	32 °C	< 20KPH	1013 hPa	35 %

Results:

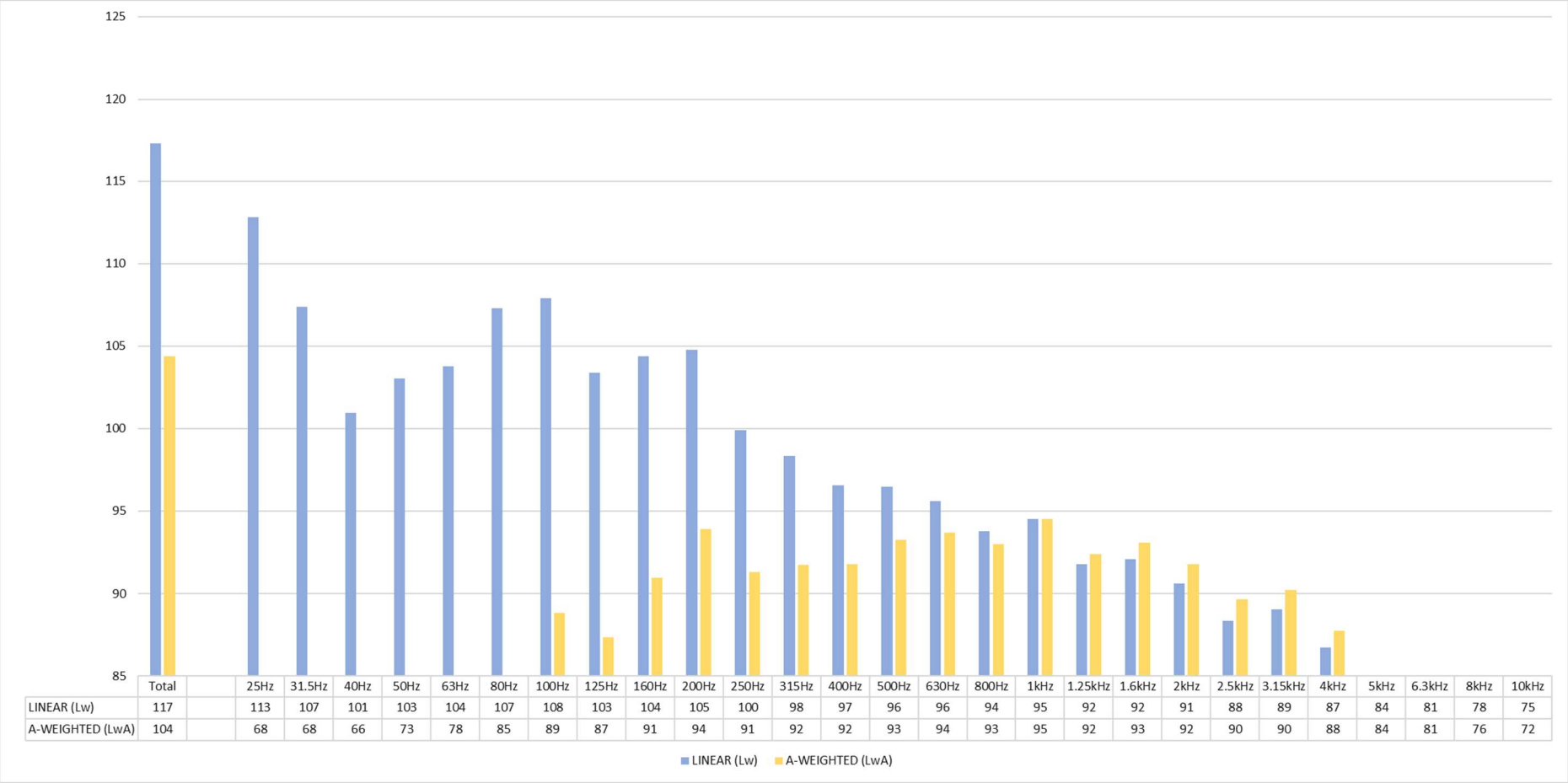
Unit Number	Model	Test Date	Stationary	Forwards	Reverse	Boggabri Coal Target	Exceedance	Compliant
TD02	D475A	16/11/2023	104 dBA / 117 dB	108 dBA / 119 dB	109 dBA / 119 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD04	D475A	16/11/2023	104 dBA / 117 dB	110 dBA / 119 dB	112 dBA / 120 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD11	D11T	05/12/2023	109 dBA / 120 dB	112 dBA / 121 dB	115 dBA / 122 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD074	D475A	17/11/2023	105 dBA / 115 dB	111 dBA / 118 dB	114 dBA / 119 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD079	D475A	17/11/2023	105 dBA / 116 dB	110 dBA / 119 dB	113 dBA / 120 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD081	D475A	17/11/2023	106 dBA / 116 dB	115 dBA / 120 dB	115 dBA / 121 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD090	D375A	13/12/2023	108 dBA / 116 dB	111 dBA / 117 dB	113 dBA / 118 dB	116 dBA / 126 dB	- dBA / - dB	Yes
TD093	D375A	13/12/2023	108 dBA / 116 dB	111 dBA / 118 dB	114 dBA / 119 dB	116 dBA / 126 dB	- dBA / - dB	Yes
GR060	16M	17/11/2023	106 dBA / 114 dB	105 dBA / 114 dB	Not Applicable	115 dBA / 126 dB	- dBA / - dB	Yes
GR063	24M	17/11/2023	108 dBA / 117 dB	108 dBA / 117 dB	Not Applicable	115 dBA / 126 dB	- dBA / - dB	Yes
WL02	992K	05/12/2023	110 dBA / 121 dB	110 dBA / 119 dB	111 dBA / 120 dB	117 dBA / 126 dB	- dBA / - dB	Yes
WL03	992K	05/12/2023	109 dBA / 118 dB	111 dBA / 119 dB	112 dBA / 120 dB	117 dBA / 126 dB	- dBA / - dB	Yes
WL189	WA320	16/11/2023	101 dBA / 115 dB	101 dBA / 117 dB	111 dBA / 117 dB	117 dBA / 126 dB	- dBA / - dB	Yes

Unit Number	Model	Test Date	Stationary	Uphill	Downhill	Boggabri Coal Target	Exceedance	Compliant
WC042	730E	04/12/2023	112 dBA / 121 dB	113 dBA / 125 dB	116 dBA / 121 dB	117 dBA / 128 dB	- dBA / - dB	Yes
WC043	730E	04/12/2023	114 dBA / 123 dB	115 dBA / 125 dB	117 dBA / 123 dB	117 dBA / 128 dB	- dBA / - dB	Yes
WC044	730E	04/12/2023	114 dBA / 122 dB	115 dBA / 125 dB	116 dBA / 121 dB	117 dBA / 128 dB	- dBA / - dB	Yes
WC691	777D	04/12/2023	113 dBA / 118 dB	115 dBA / 120 dB	113 dBA / 118 dB	117 dBA / 128 dB	- dBA / - dB	Yes
ST4090	740B	12/12/2023	111 dBA / 118 dB	116 dBA / 122 dB	115 dBA / 120 dB	117 dBA / 128 dB	- dBA / - dB	Yes
DT178	HD1500	28/09/2023	114 dBA / 120 dB	115 dBA / 120 dB	114 dBA / 119 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT180	HD1500	28/09/2023	114 dBA / 121 dB	116 dBA / 124 dB	115 dBA / 119 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT181	HD1500	19/10/2023	115 dBA / 119 dB	114 dBA / 120 dB	113 dBA / 119 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT268	730E	19/10/2023	113 dBA / 123 dB	114 dBA / 124 dB	116 dBA / 121 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT310	EH3500	11/07/2023	111 dBA / 121 dB	114 dBA / 124 dB	113 dBA / 123 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT325	EH3500	11/07/2023	112 dBA / 118 dB	113 dBA / 120 dB	115 dBA / 120 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT326	EH3500	11/07/2023	117 dBA / 121 dB	117 dBA / 122 dB	116 dBA / 120 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT327	EH3500	11/07/2023	111 dBA / 117 dB	113 dBA / 120 dB	115 dBA / 120 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes

Unit Number	Model	Test Date	Stationary	Uphill	Downhill	Boggabri Coal Target	Exceedance	Compliant
DT364	789C	28/07/2023	113 dBA / 120 dB	115 dBA / 121 dB	112 dBA / 119 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT365	789C	18/10/2023	113 dBA / 119 dB	115 dBA / 122 dB	114 dBA / 122 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT366	789C	27/09/2023	114 dBA / 120 dB	116 dBA / 121 dB	113 dBA / 120 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes
DT367	789C	12/12/2023	114 dBA / 120 dB	116 dBA / 122 dB	113 dBA / 120 dB	117 dBA / 126 dB Flat Ground 119 dBA / 125 dB Uphill	- dBA / - dB	Yes

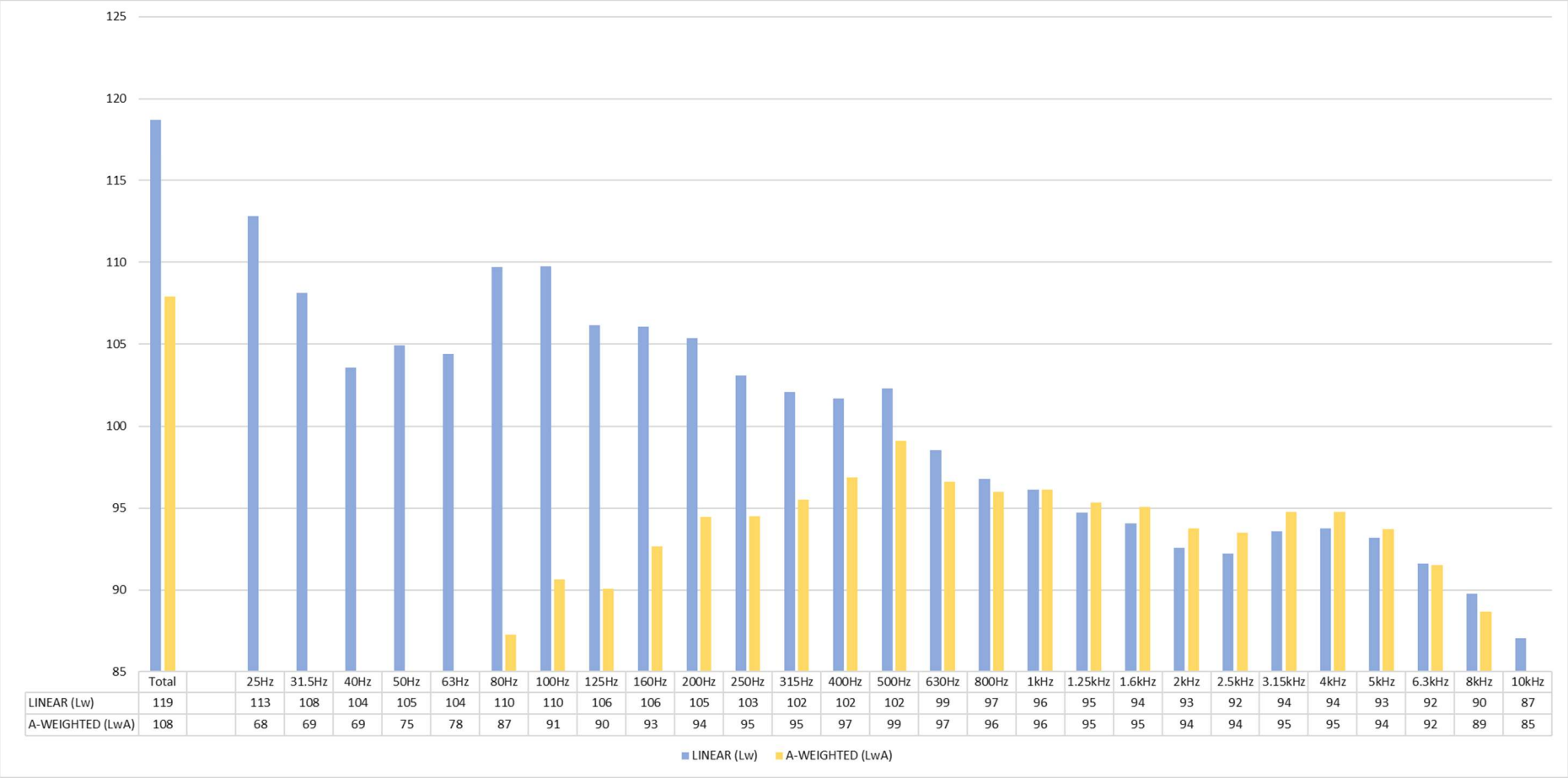
Unit Number	Model	Test Date	Stationary	Dynamic		Boggabri Coal Target	Exceedance	Compliant
EX125	9400	23/11/2023	113 dBA / 119 dB	115 dBA / 121 dB		120 dBA / 130 dB	- dBA / - dB	Yes
EX129	9400	23/11/2023	113 dBA / 119 dB	115 dBA / 120 dB		120 dBA / 130 dB	- dBA / - dB	Yes
EX258	EX1900	24/11/2023	120 dBA / 125 dB	120 dBA / 127 dB		120 dBA / 130 dB	- dBA / - dB	Yes
EX259	EX2600	24/11/2023	120 dBA / 124 dB	120 dBA / 124 dB		120 dBA / 130 dB	- dBA / - dB	Yes

Appendix A



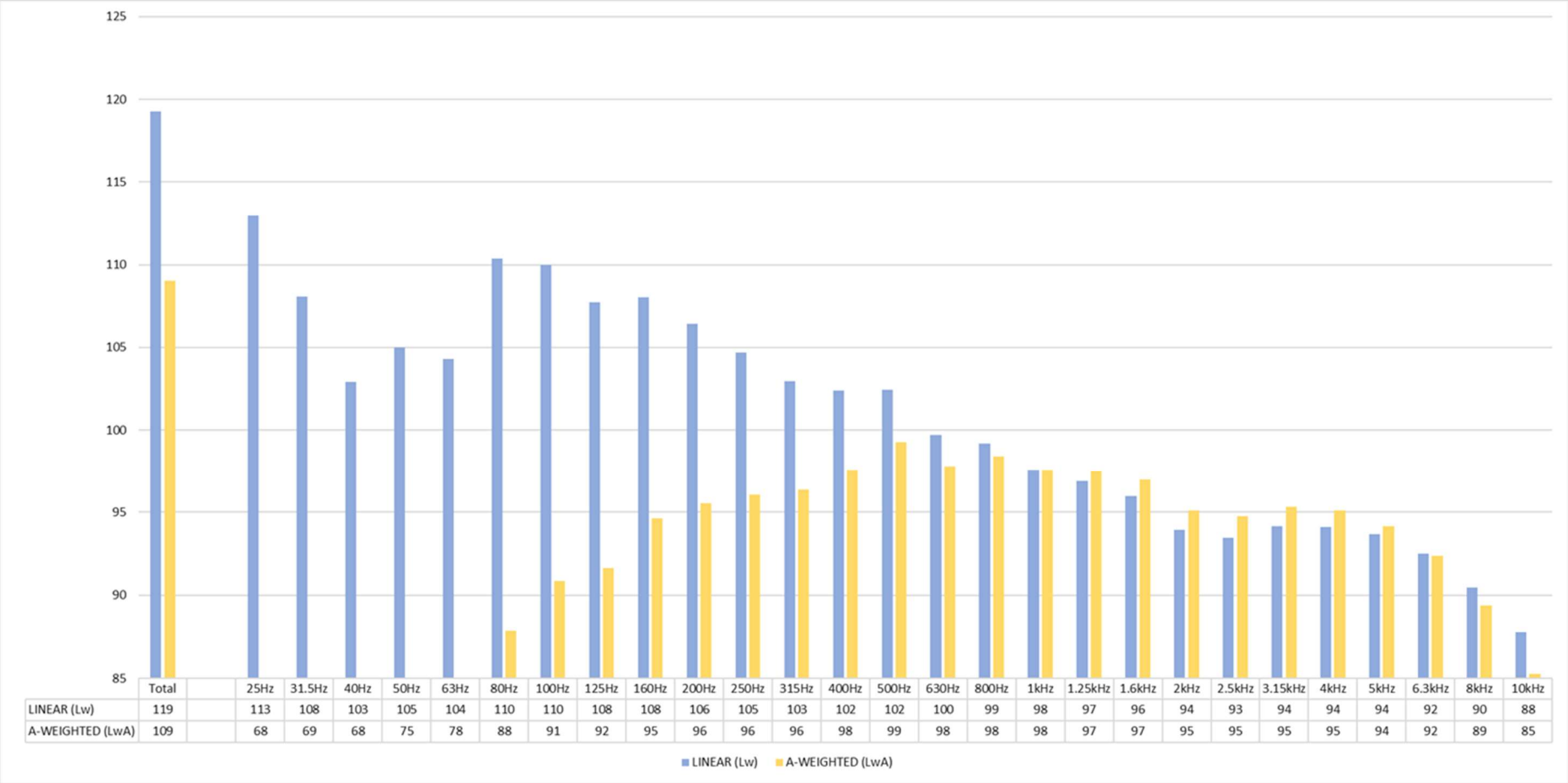
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117		113	107	101	103	104	107	108	103	104	105	100	98	97	96	96	94	95	92	92	91	88	89	87	84	81	78	75
A-WEIGHTED (LwA)	104		68	68	66	73	78	85	89	87	91	94	91	92	92	93	94	93	95	92	93	92	90	90	88	84	81	76	72

Figure 1: TD02 Stationary



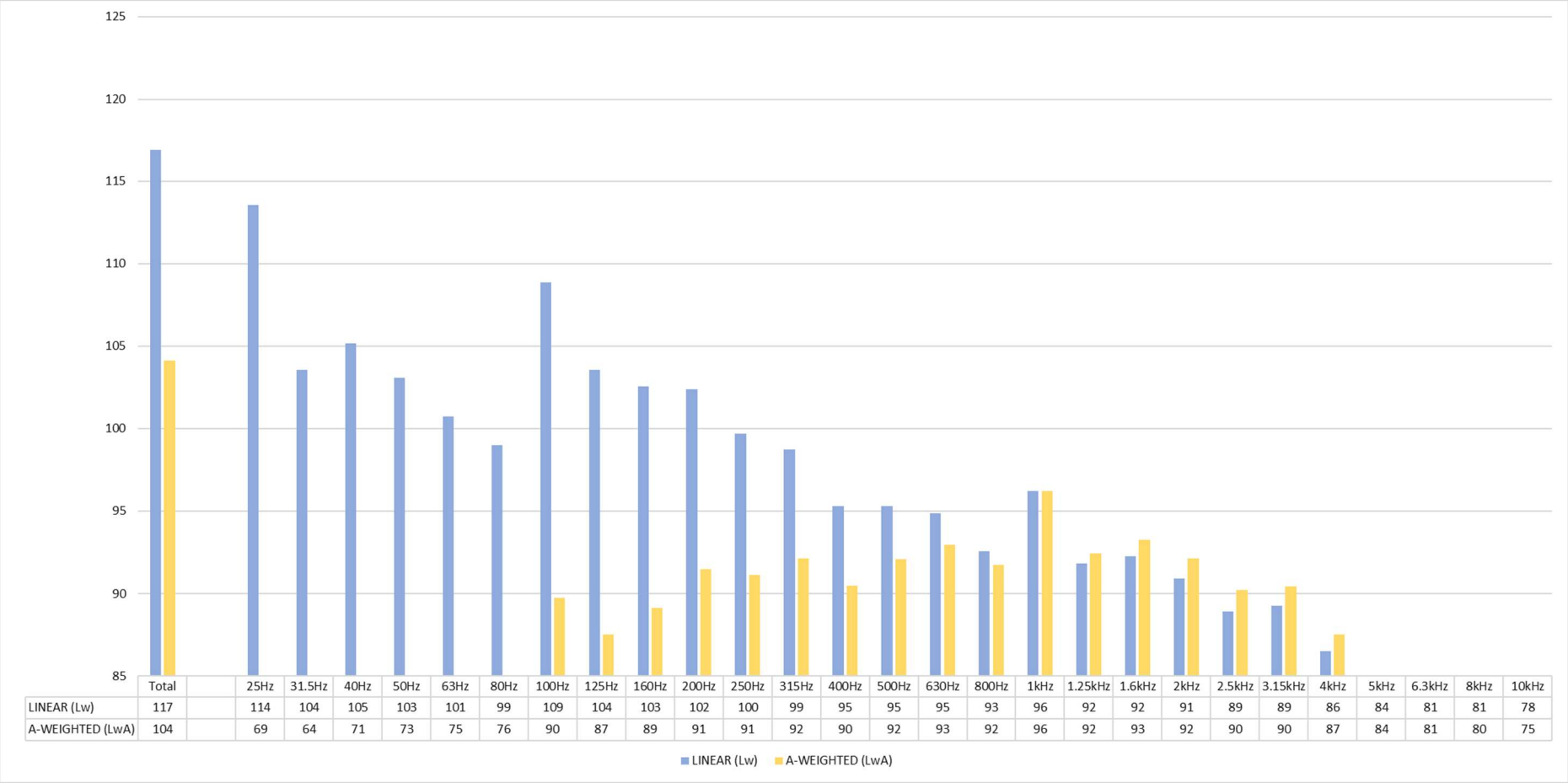
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		113	108	104	105	104	110	110	106	106	105	103	102	102	102	99	97	96	95	94	93	92	94	94	93	92	90	87
A-WEIGHTED (LwA)	108		68	69	69	75	78	87	91	90	93	94	95	95	97	99	97	96	96	95	95	94	94	95	95	94	92	89	85

Figure 2: TD02 Forwards



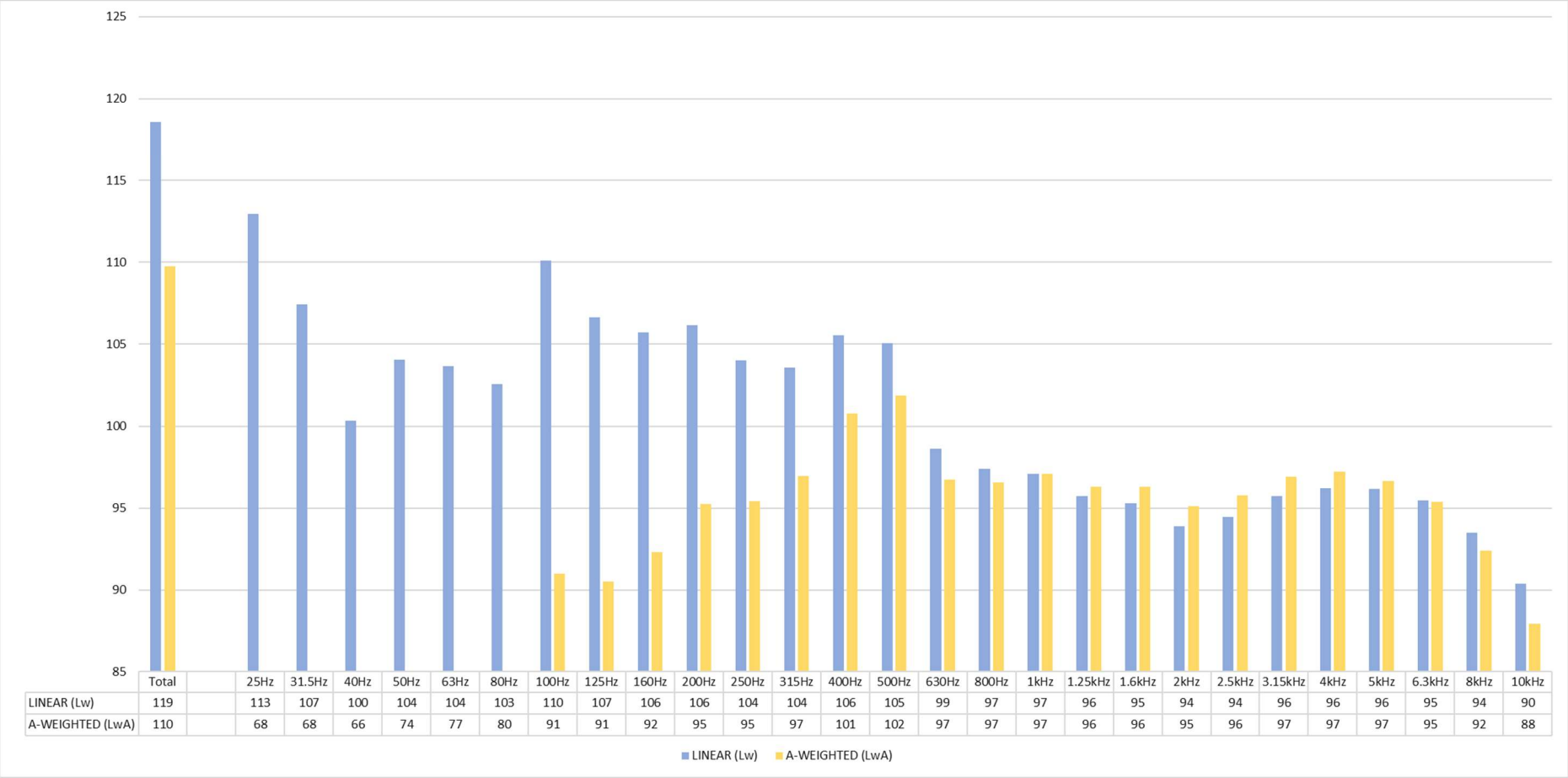
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119	113	108	103	105	104	110	110	108	108	106	105	103	102	102	100	99	98	97	96	94	93	94	94	94	92	90	88
A-WEIGHTED (LwA)	109	68	69	68	75	78	88	91	92	95	96	96	96	98	99	98	98	98	97	97	95	95	95	95	94	92	89	85

Figure 3: TD02 Reverse



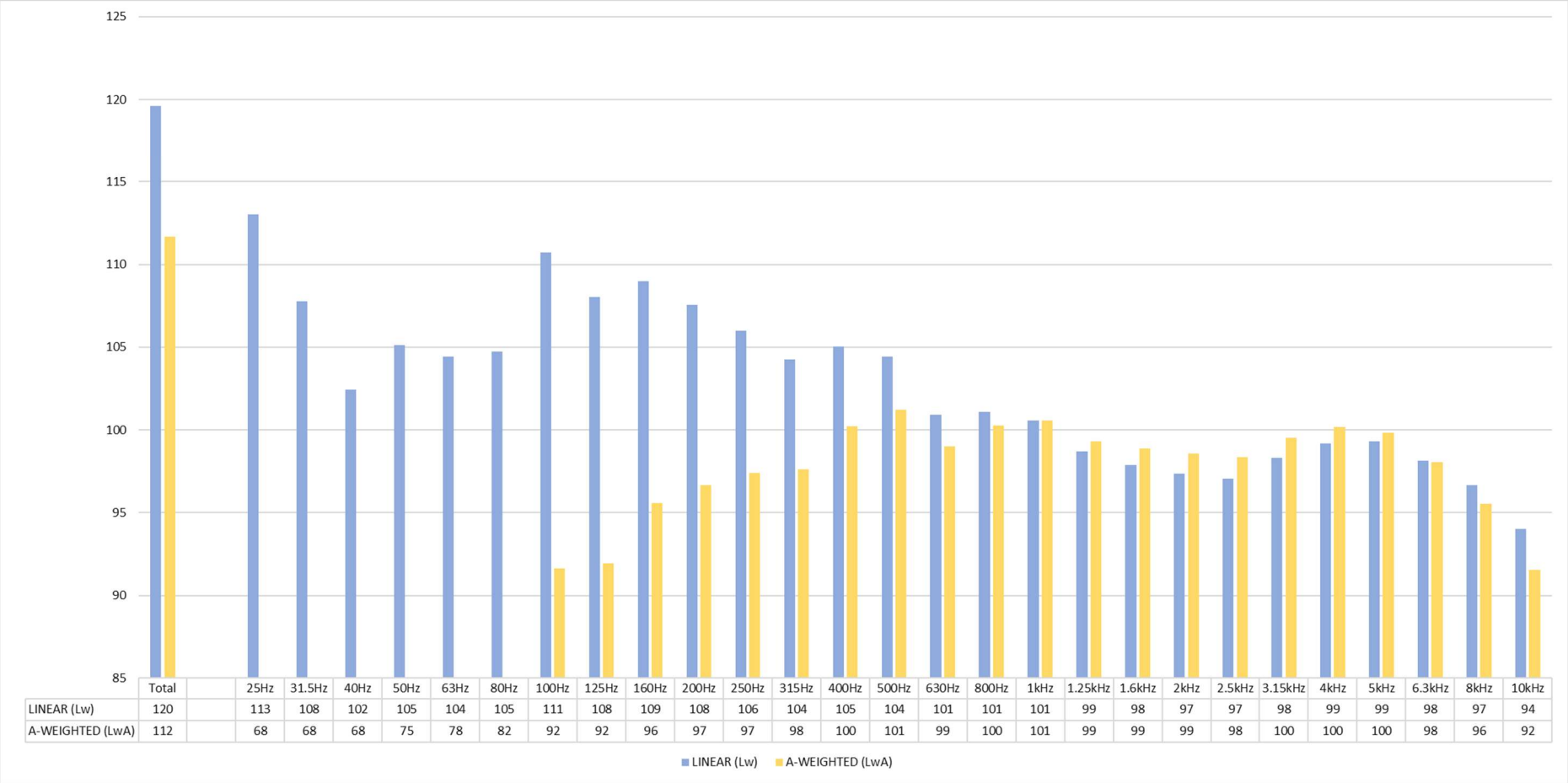
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117		114	104	105	103	101	99	109	104	103	102	100	99	95	95	95	93	96	92	92	91	89	89	86	84	81	81	78
A-WEIGHTED (LwA)	104		69	64	71	73	75	76	90	87	89	91	91	92	90	92	93	92	96	92	93	92	90	90	87	84	81	80	75

Figure 4: TD04 Stationary



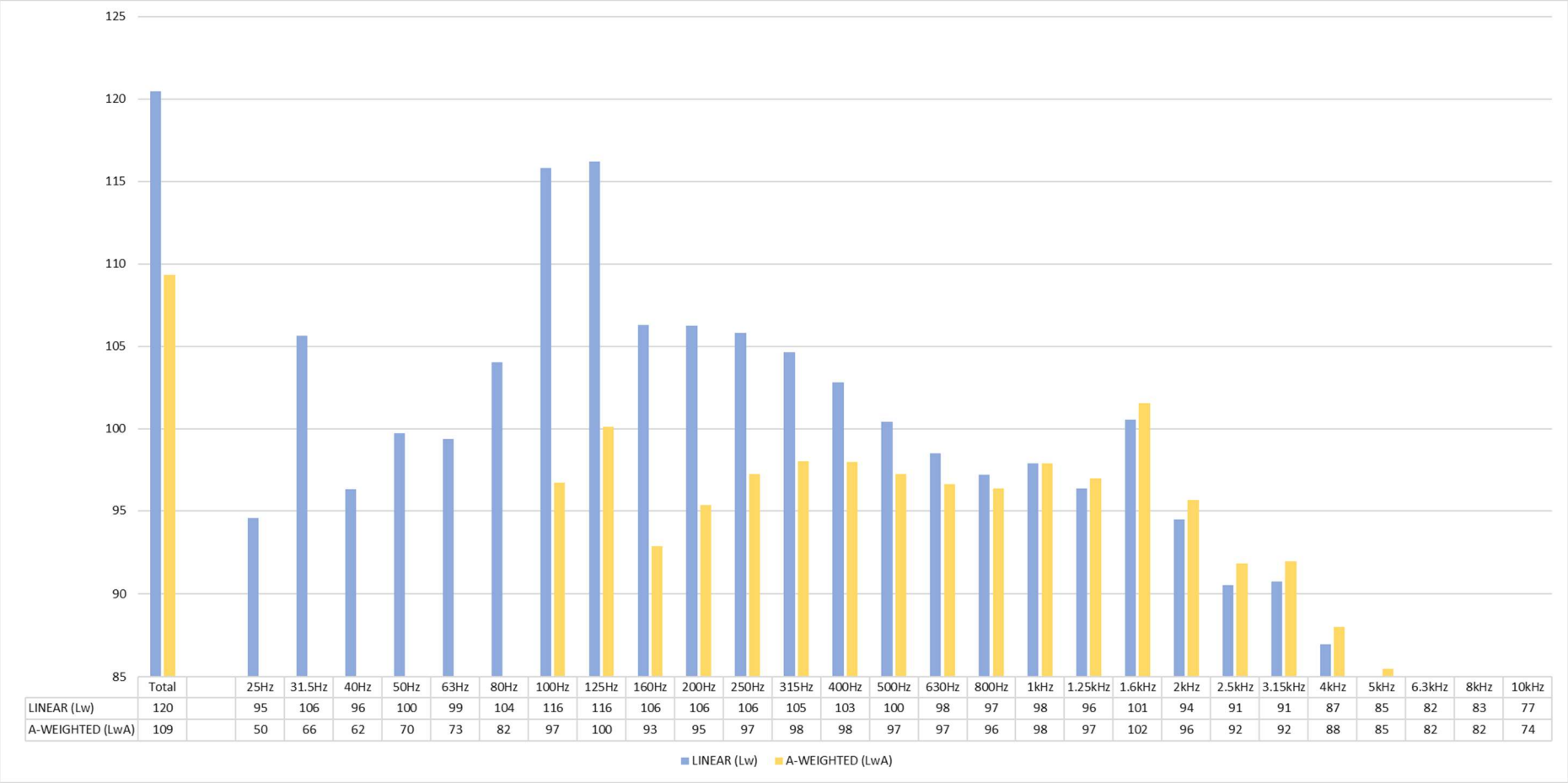
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		113	107	100	104	104	103	110	107	106	106	104	104	106	105	99	97	97	96	95	94	94	96	96	96	95	94	90
A-WEIGHTED (LwA)	110		68	68	66	74	77	80	91	91	92	95	95	97	101	102	97	97	97	96	96	95	96	97	97	97	95	92	88

Figure 5: 524 TD04 Forwards



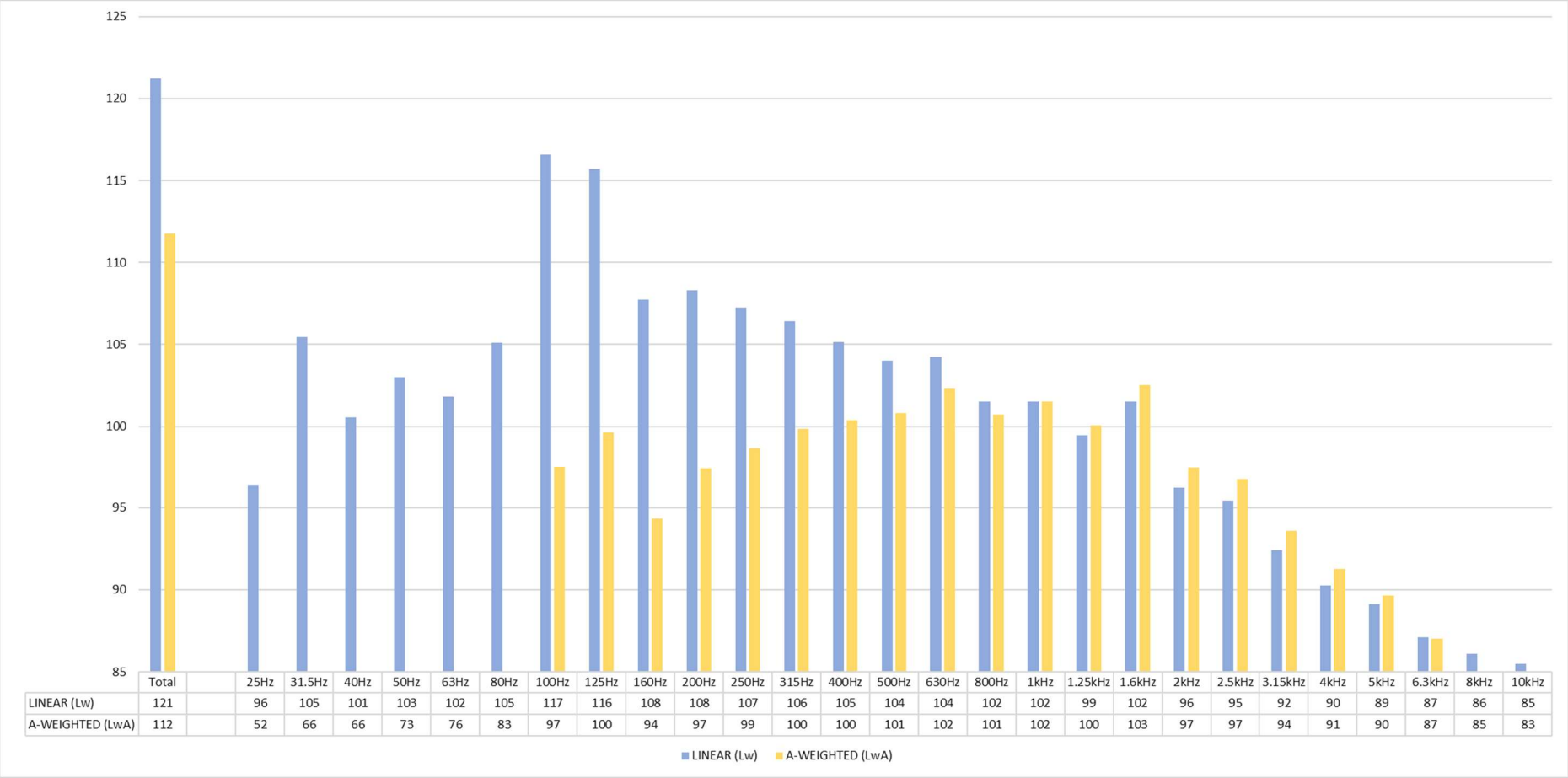
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	113	108	102	105	104	105	111	108	109	108	106	104	105	104	101	101	101	99	98	97	97	98	99	99	98	97	94
A-WEIGHTED (LwA)	112	68	68	68	75	78	82	92	92	96	97	97	98	100	101	99	100	101	99	99	99	98	100	100	100	98	96	92

Figure 6: TD04 Reverse



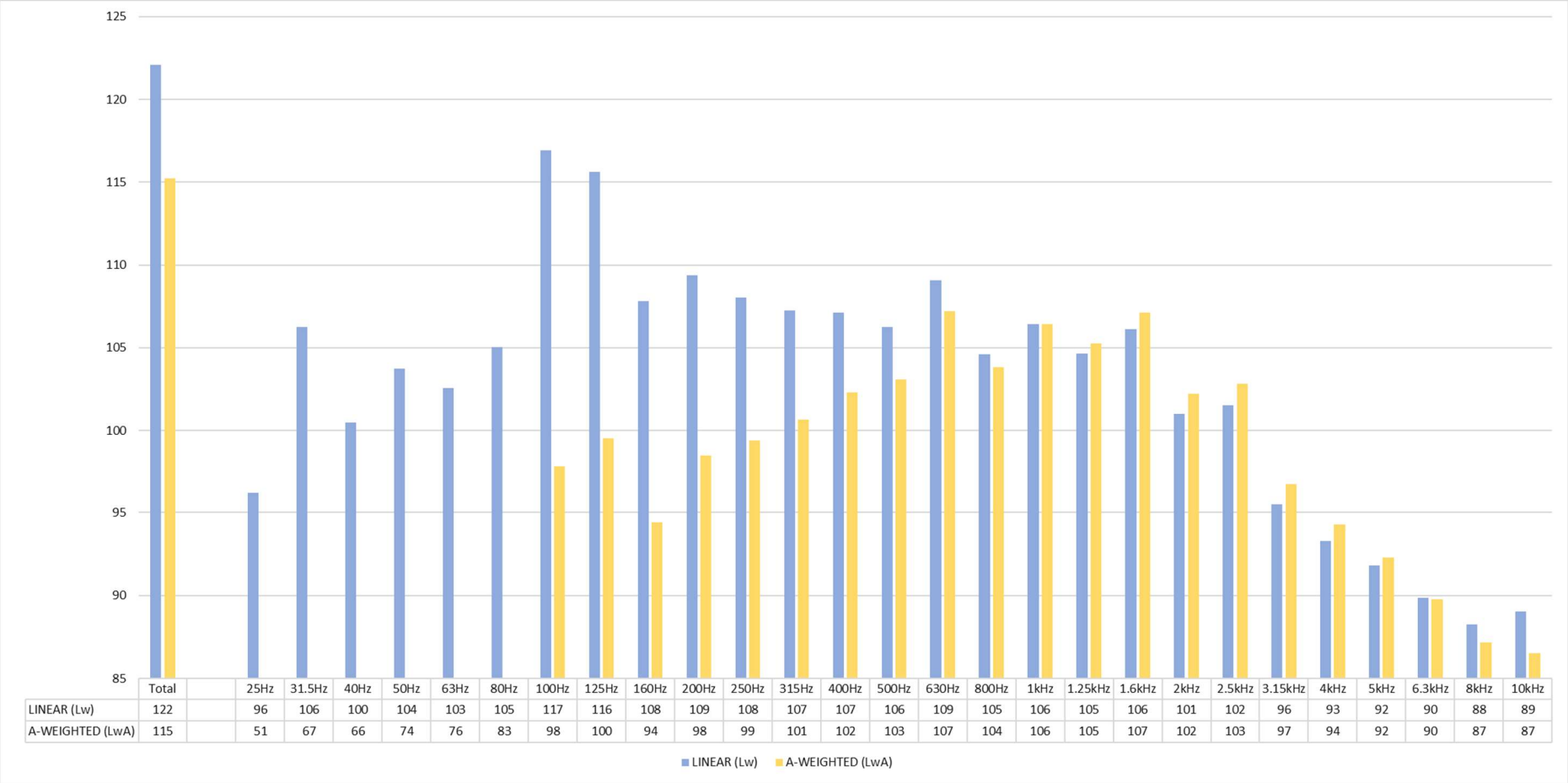
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		95	106	96	100	99	104	116	116	106	106	106	105	103	100	98	97	98	96	101	94	91	91	87	85	82	83	77
A-WEIGHTED (LwA)	109		50	66	62	70	73	82	97	100	93	95	97	98	98	97	97	96	98	97	102	96	92	92	88	85	82	82	74

Figure 7: TD11 Stationary



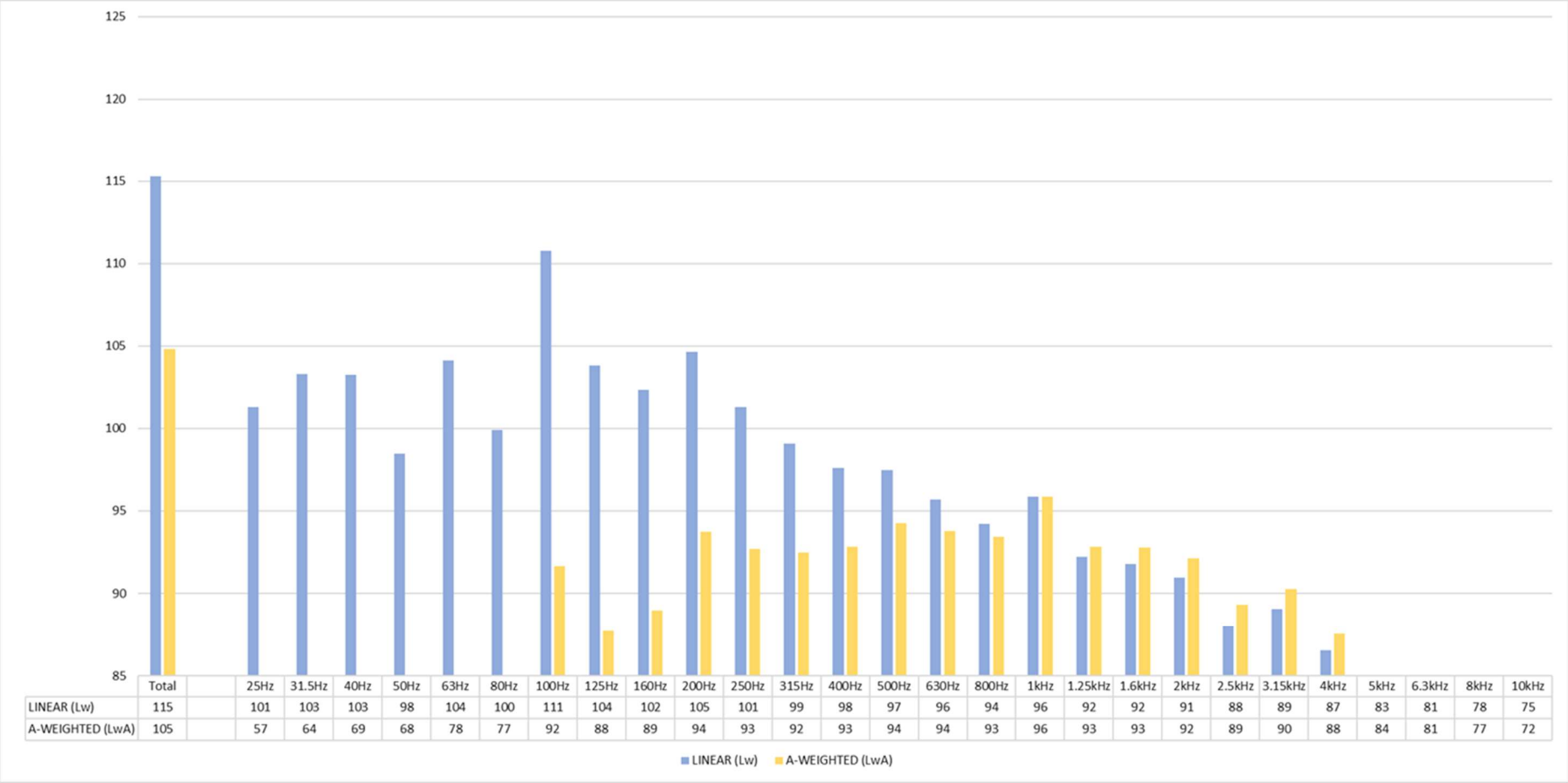
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		96	105	101	103	102	105	117	116	108	108	107	106	105	104	104	102	102	99	102	96	95	92	90	89	87	86	85
A-WEIGHTED (LwA)	112		52	66	66	73	76	83	97	100	94	97	99	100	100	101	102	101	102	100	103	97	97	94	91	90	87	85	83

Figure 8: TD11 Forwards



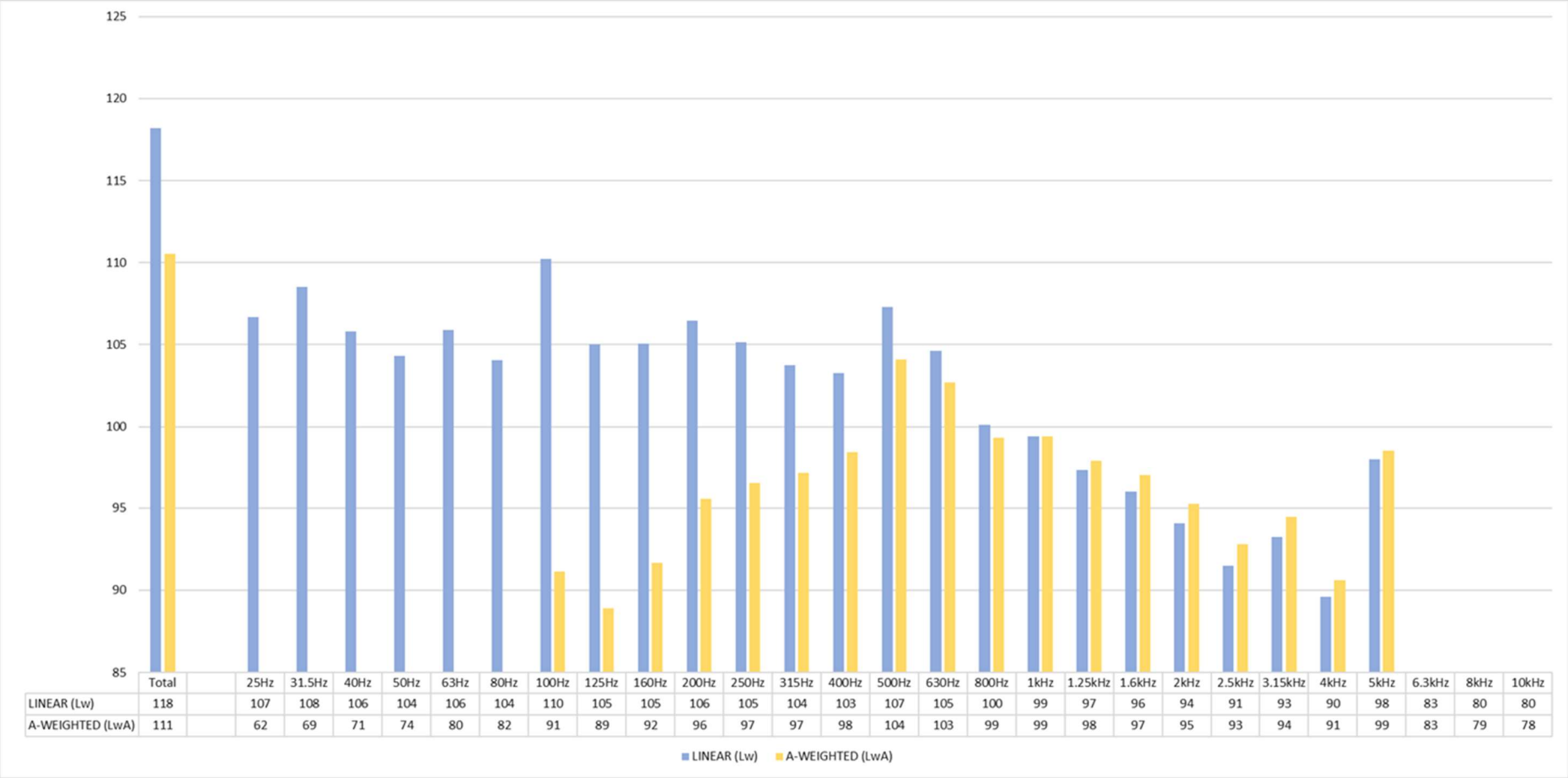
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		96	106	100	104	103	105	117	116	108	109	108	107	107	106	109	105	106	105	106	101	102	96	93	92	90	88	89
A-WEIGHTED (LwA)	115		51	67	66	74	76	83	98	100	94	98	99	101	102	103	107	104	106	105	107	102	103	97	94	92	90	87	87

Figure 9: TD11 Reverse



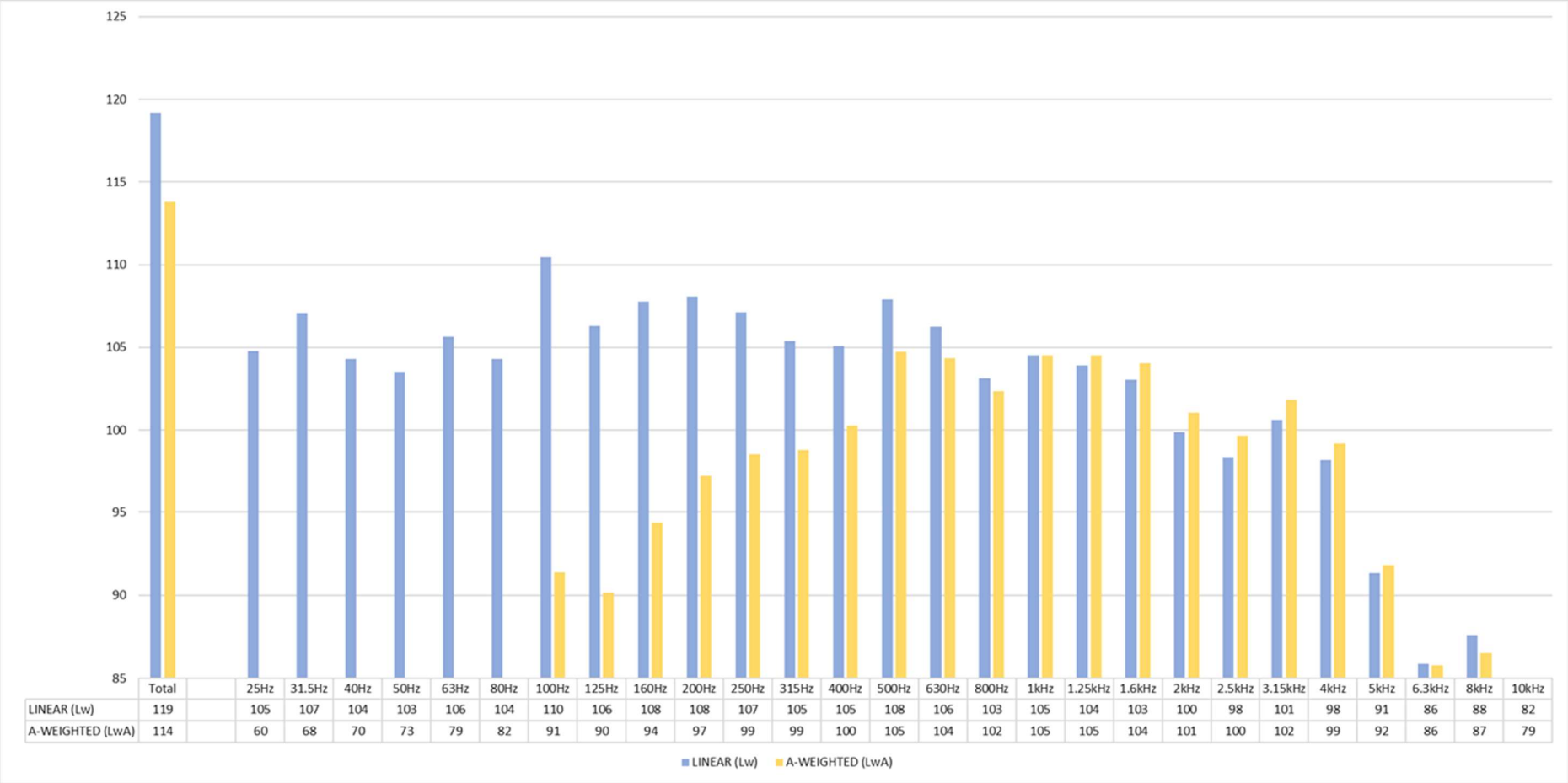
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	115	101	103	103	98	104	100	111	104	102	105	101	99	98	97	96	94	96	92	92	91	88	89	87	83	81	78	75
A-WEIGHTED (LwA)	105	57	64	69	68	78	77	92	88	89	94	93	92	93	94	94	93	96	93	93	92	89	90	88	84	81	77	72

Figure 10: TD074 Stationary



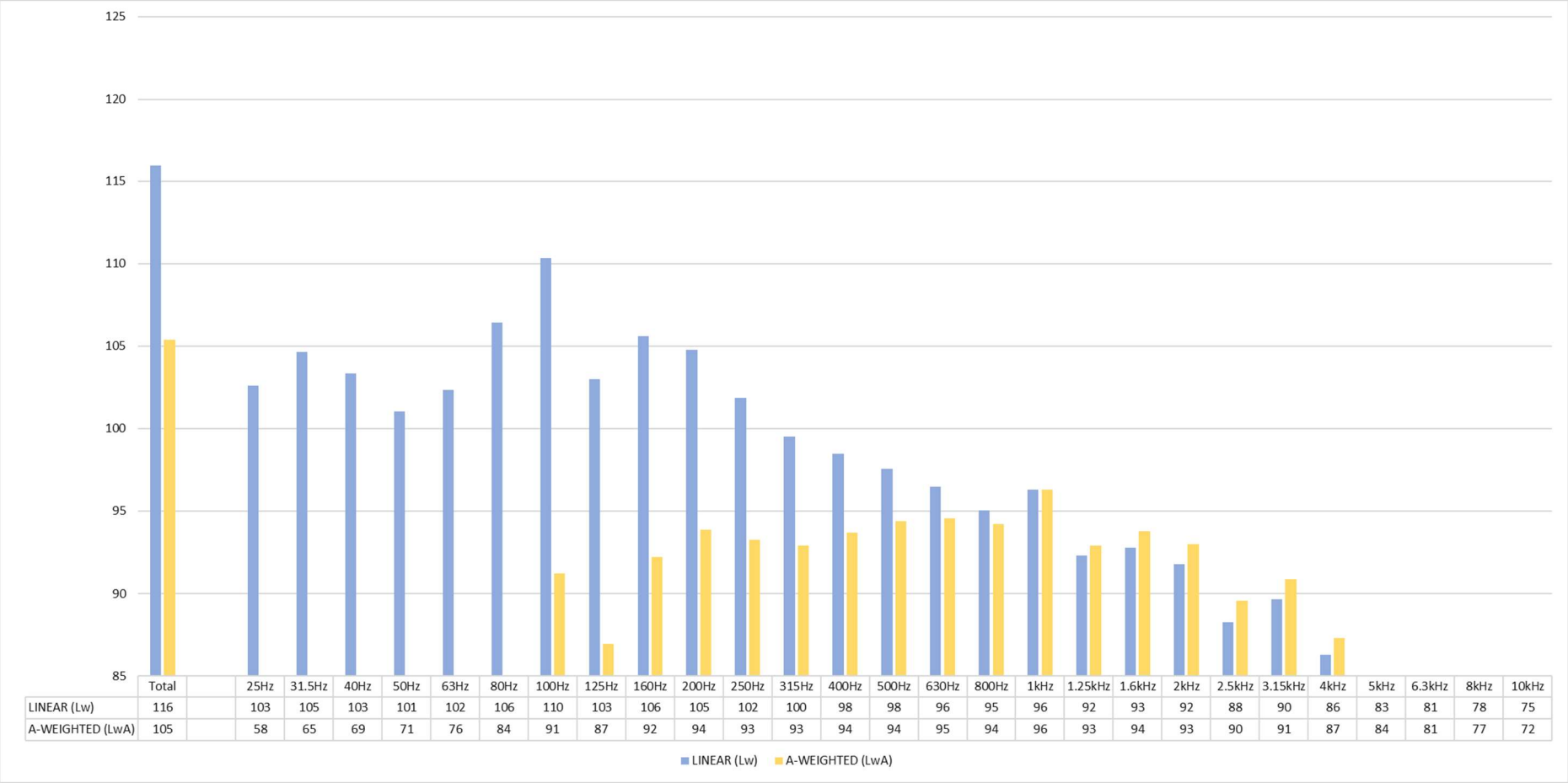
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118	107	108	106	104	106	104	110	105	105	106	105	104	103	107	105	100	99	97	96	94	91	93	90	98	83	80	80
A-WEIGHTED (LwA)	111	62	69	71	74	80	82	91	89	92	96	97	97	98	104	103	99	99	98	97	95	93	94	91	99	83	79	78

Figure 11: TD074 Forwards



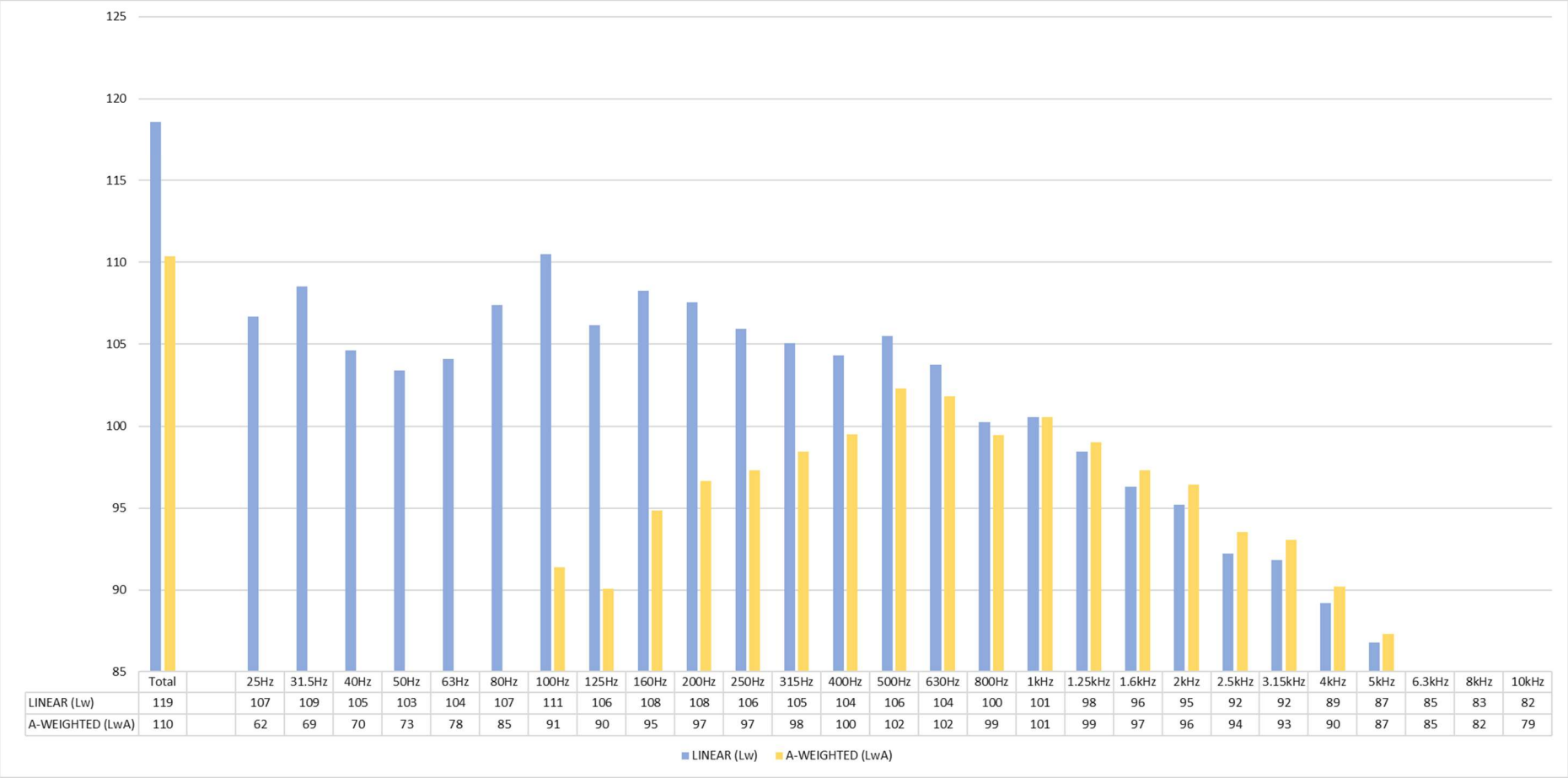
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119	105	107	104	103	106	104	110	106	108	108	107	105	105	108	106	103	105	104	103	100	98	101	98	91	86	88	82
A-WEIGHTED (LwA)	114	60	68	70	73	79	82	91	90	94	97	99	99	100	105	104	102	105	105	104	101	100	102	99	92	86	87	79

Figure 12: TD074 Reverse



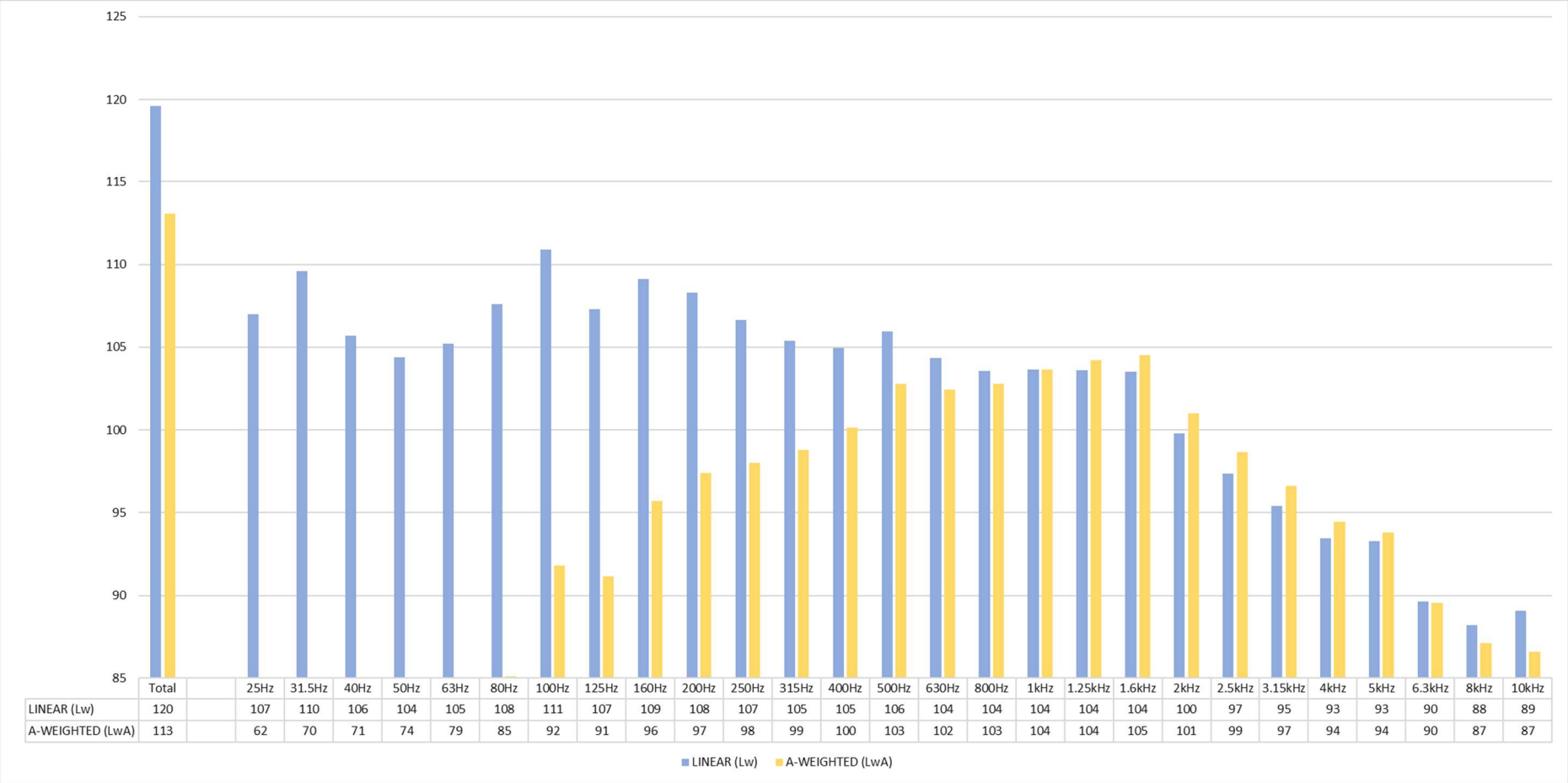
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	116		103	105	103	101	102	106	110	103	106	105	102	100	98	98	96	95	96	92	93	92	88	90	86	83	81	78	75
A-WEIGHTED (LwA)	105		58	65	69	71	76	84	91	87	92	94	93	93	94	94	95	94	96	93	94	93	90	91	87	84	81	77	72

Figure 13: TD079 Stationary



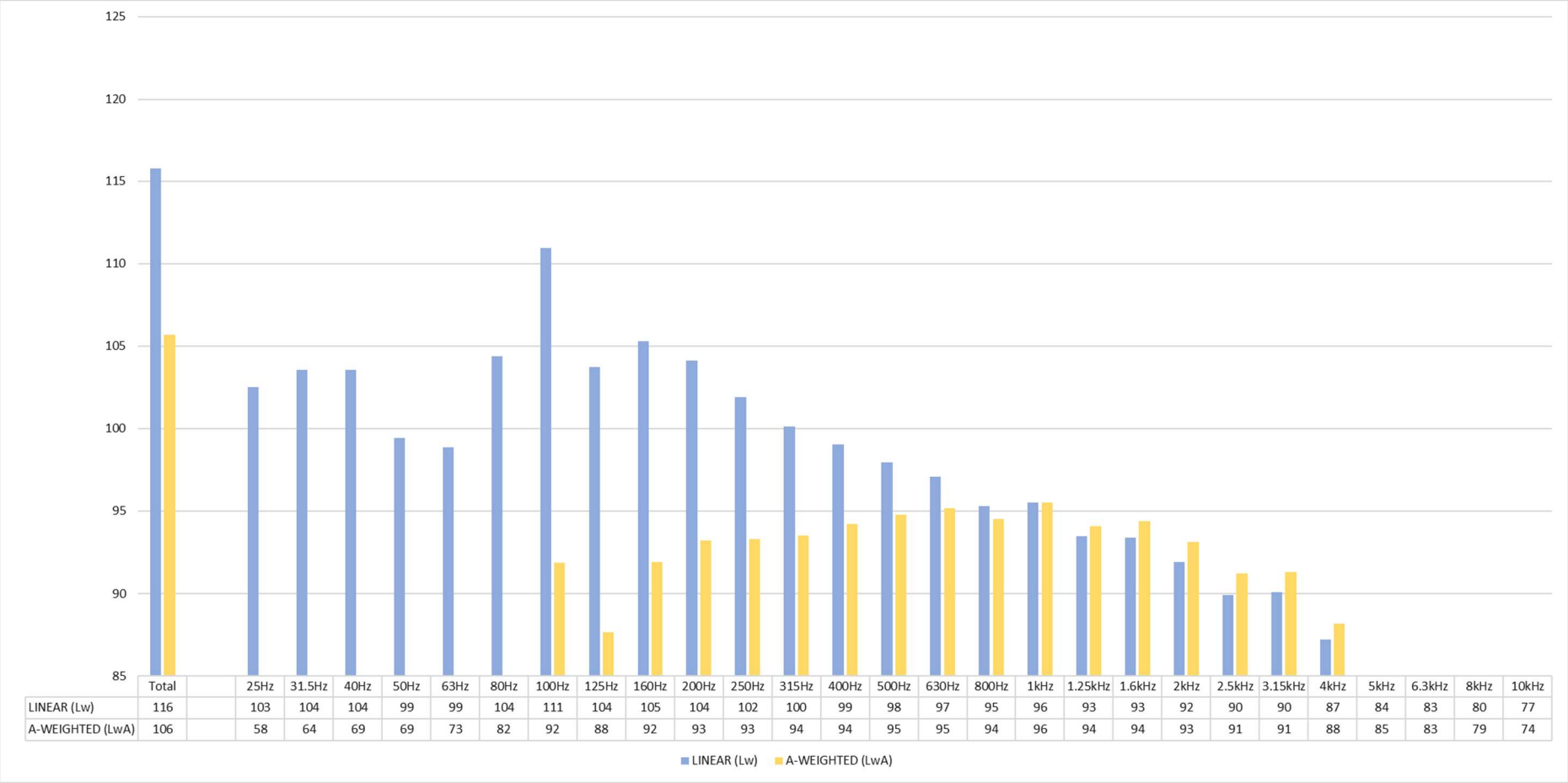
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		107	109	105	103	104	107	111	106	108	108	106	105	104	106	104	100	101	98	96	95	92	92	89	87	85	83	82
A-WEIGHTED (LwA)	110		62	69	70	73	78	85	91	90	95	97	97	98	100	102	102	99	101	99	97	96	94	93	90	87	85	82	79

Figure 14: TD079 Forwards



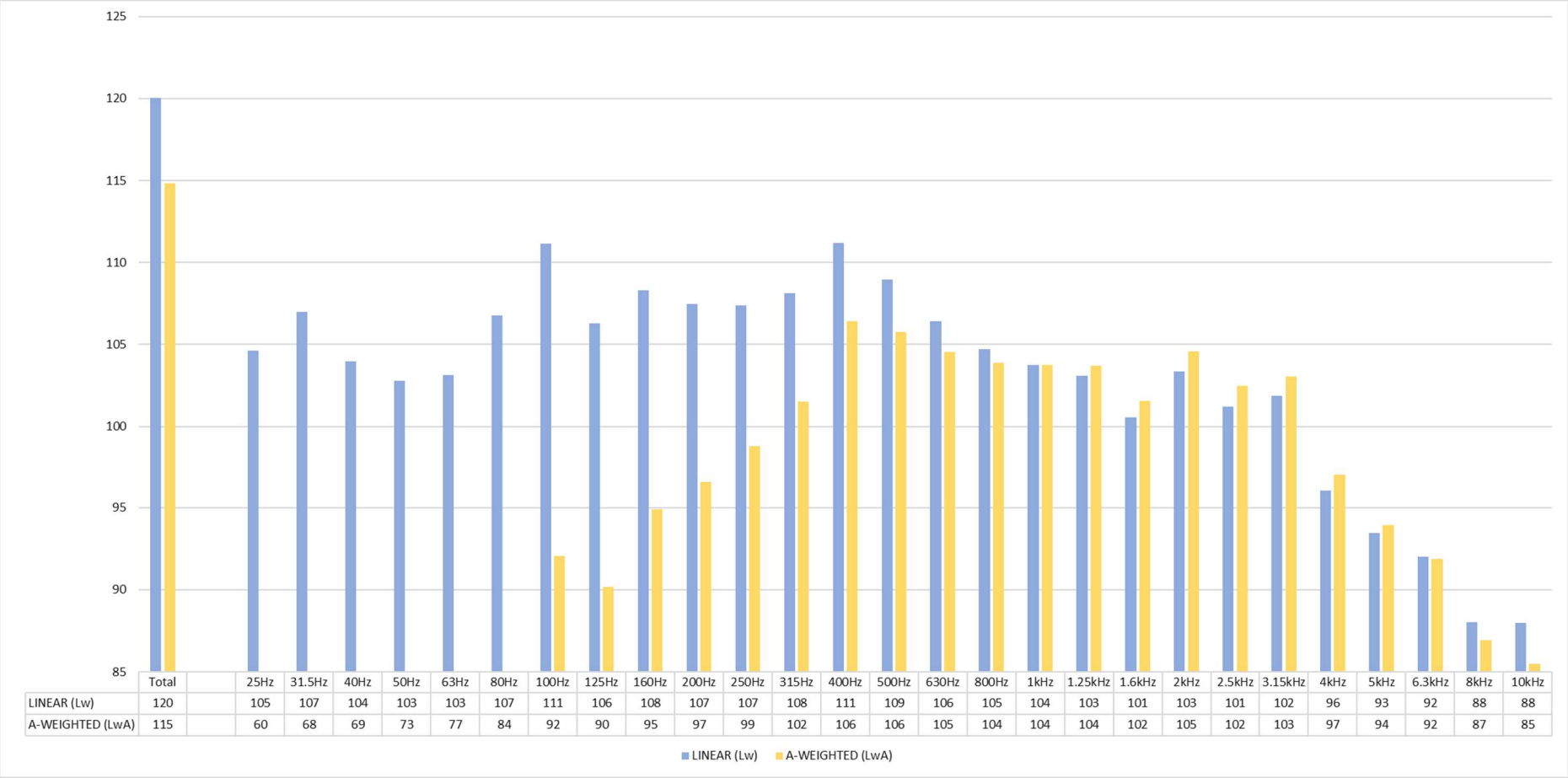
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	107	110	106	104	105	108	111	107	109	108	107	105	105	106	104	104	104	104	104	100	97	95	93	93	90	88	89
A-WEIGHTED (LwA)	113	62	70	71	74	79	85	92	91	96	97	98	99	100	103	102	103	104	104	105	101	99	97	94	94	90	87	87

Figure 15: TD079 Reverse



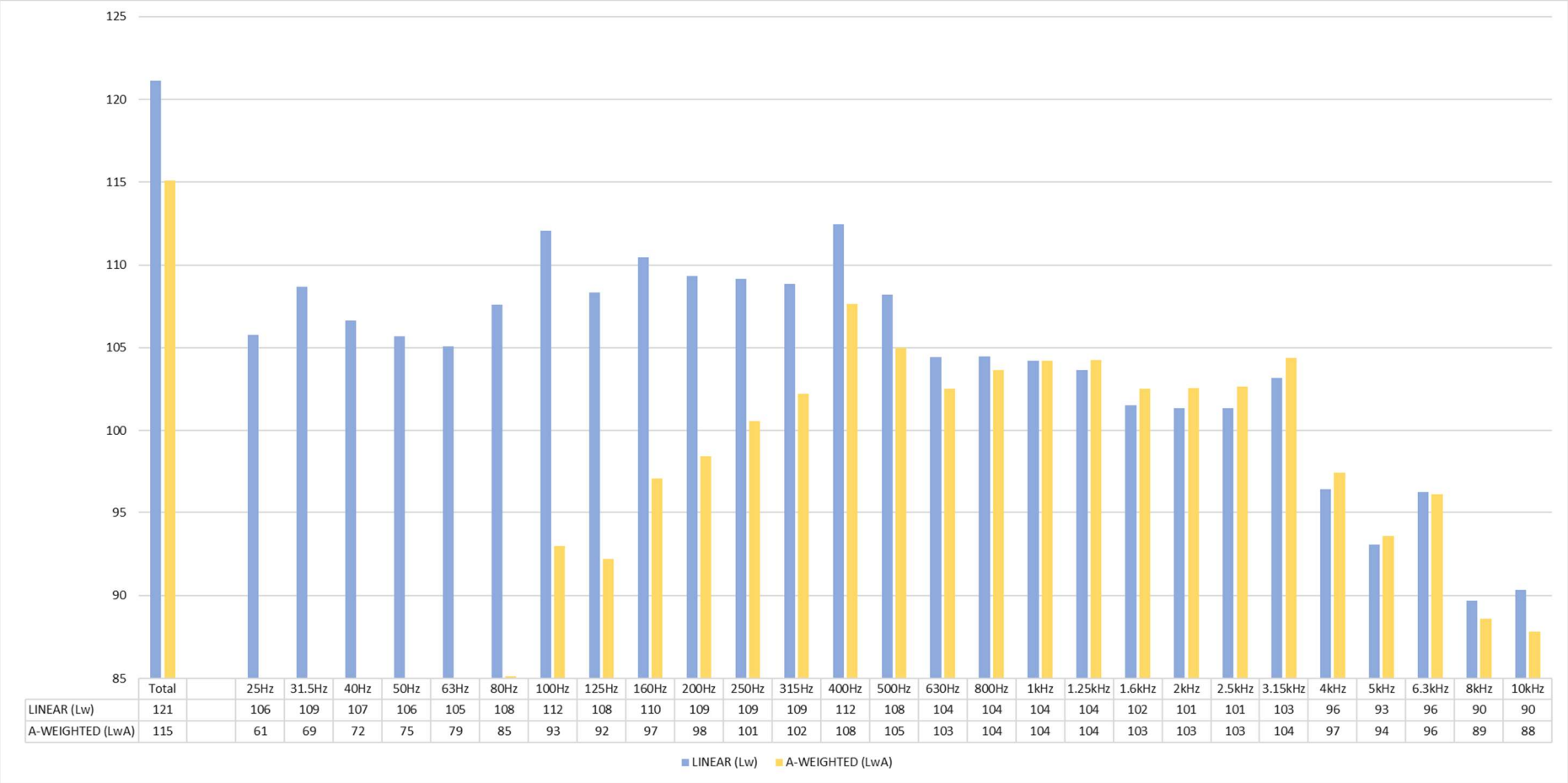
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	116		103	104	104	99	99	104	111	104	105	104	102	100	99	98	97	95	96	93	93	92	90	90	87	84	83	80	77
A-WEIGHTED (LwA)	106		58	64	69	69	73	82	92	88	92	93	93	94	94	95	95	94	96	94	94	93	91	91	88	85	83	79	74

Figure 16: TD081 Stationary



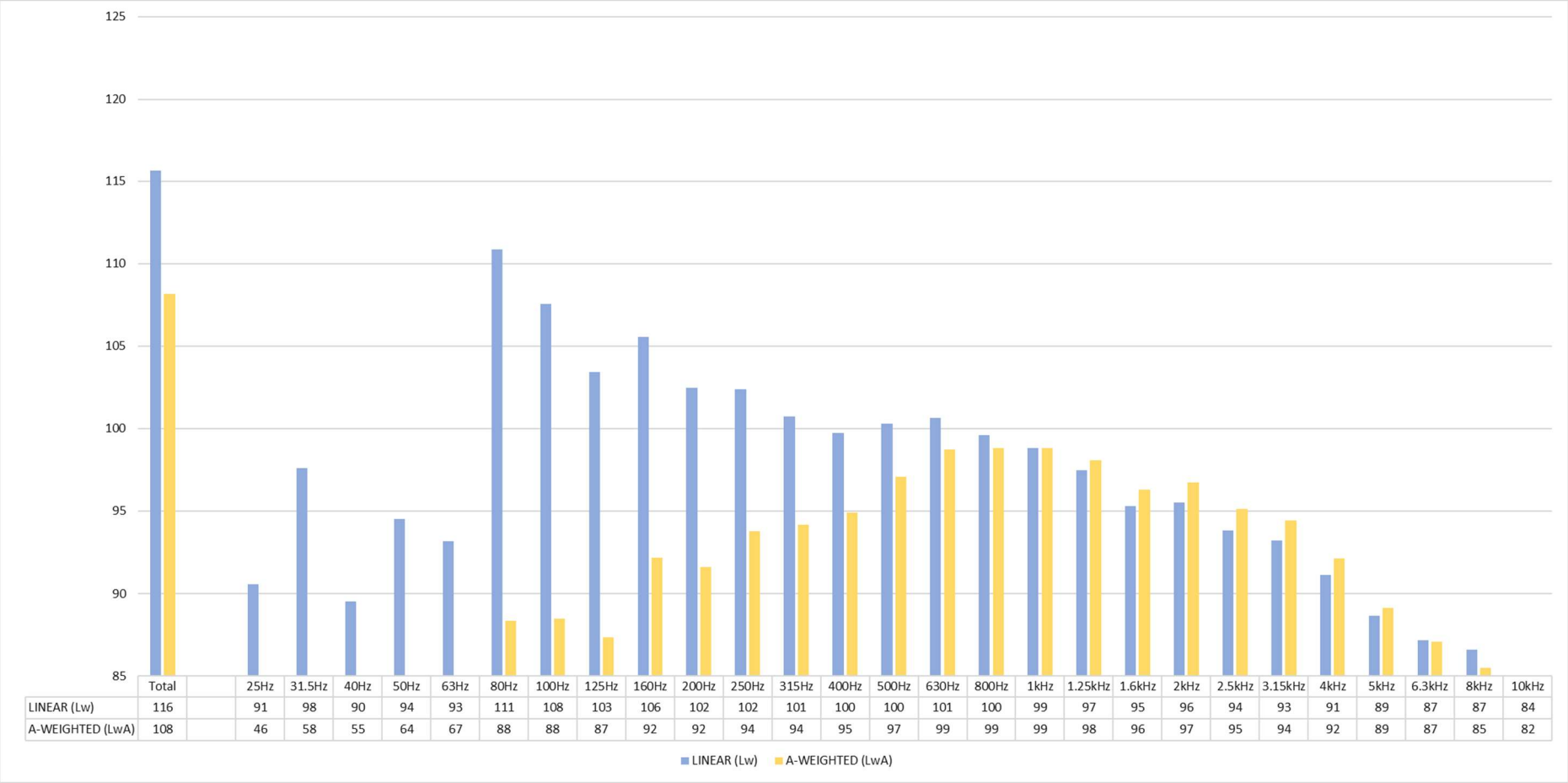
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		105	107	104	103	103	107	111	106	108	107	107	108	111	109	106	105	104	103	101	103	101	102	96	93	92	88	88
A-WEIGHTED (LwA)	115		60	68	69	73	77	84	92	90	95	97	99	102	106	106	105	104	104	104	102	105	102	103	97	94	92	87	85

Figure 17: TD081 Forwards



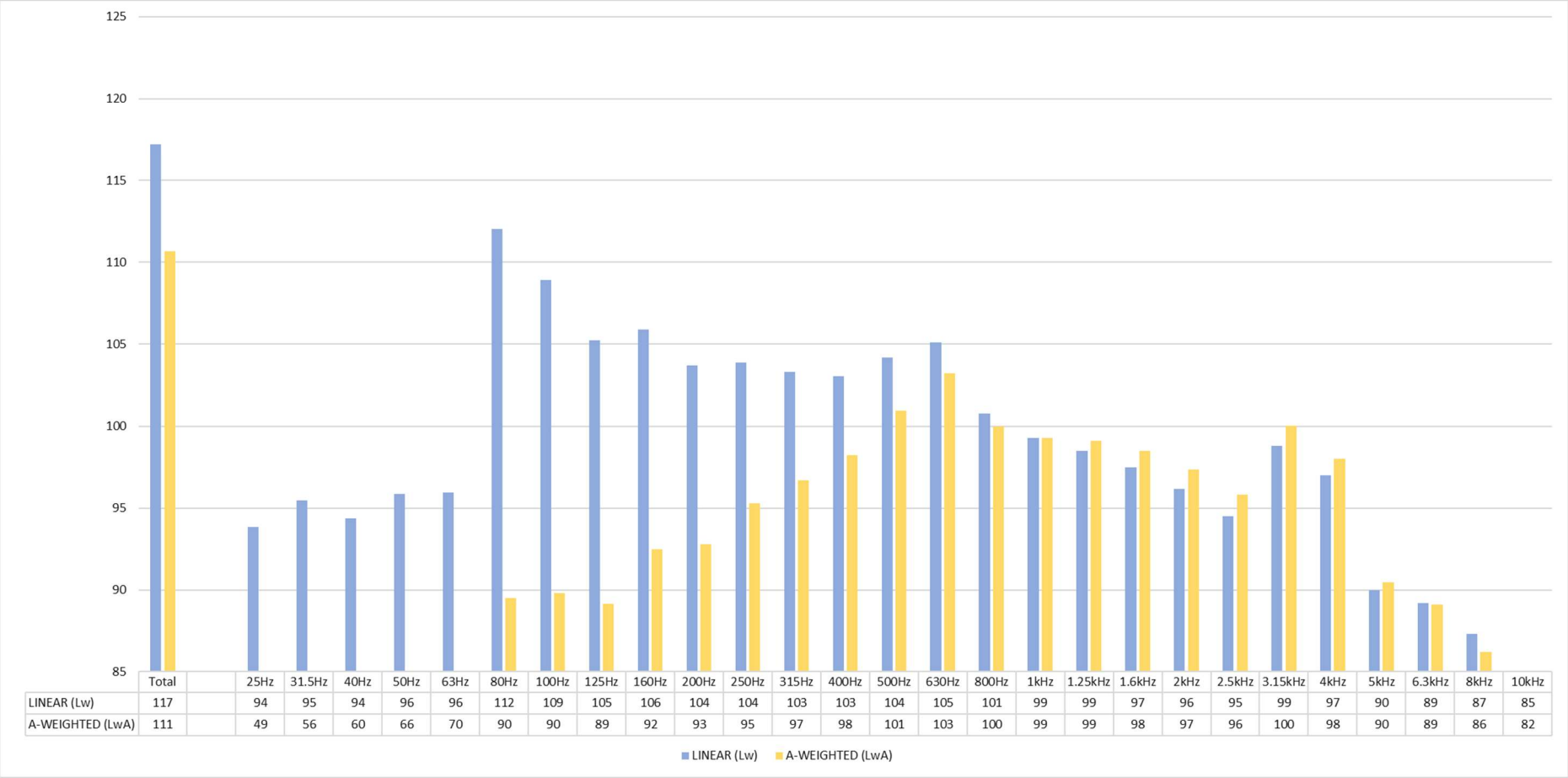
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		106	109	107	106	105	108	112	108	110	109	109	109	112	108	104	104	104	104	102	101	101	103	96	93	96	90	90
A-WEIGHTED (LwA)	115		61	69	72	75	79	85	93	92	97	98	101	102	108	105	103	104	104	104	103	103	103	104	97	94	96	89	88

Figure 18: TD081 Reverse



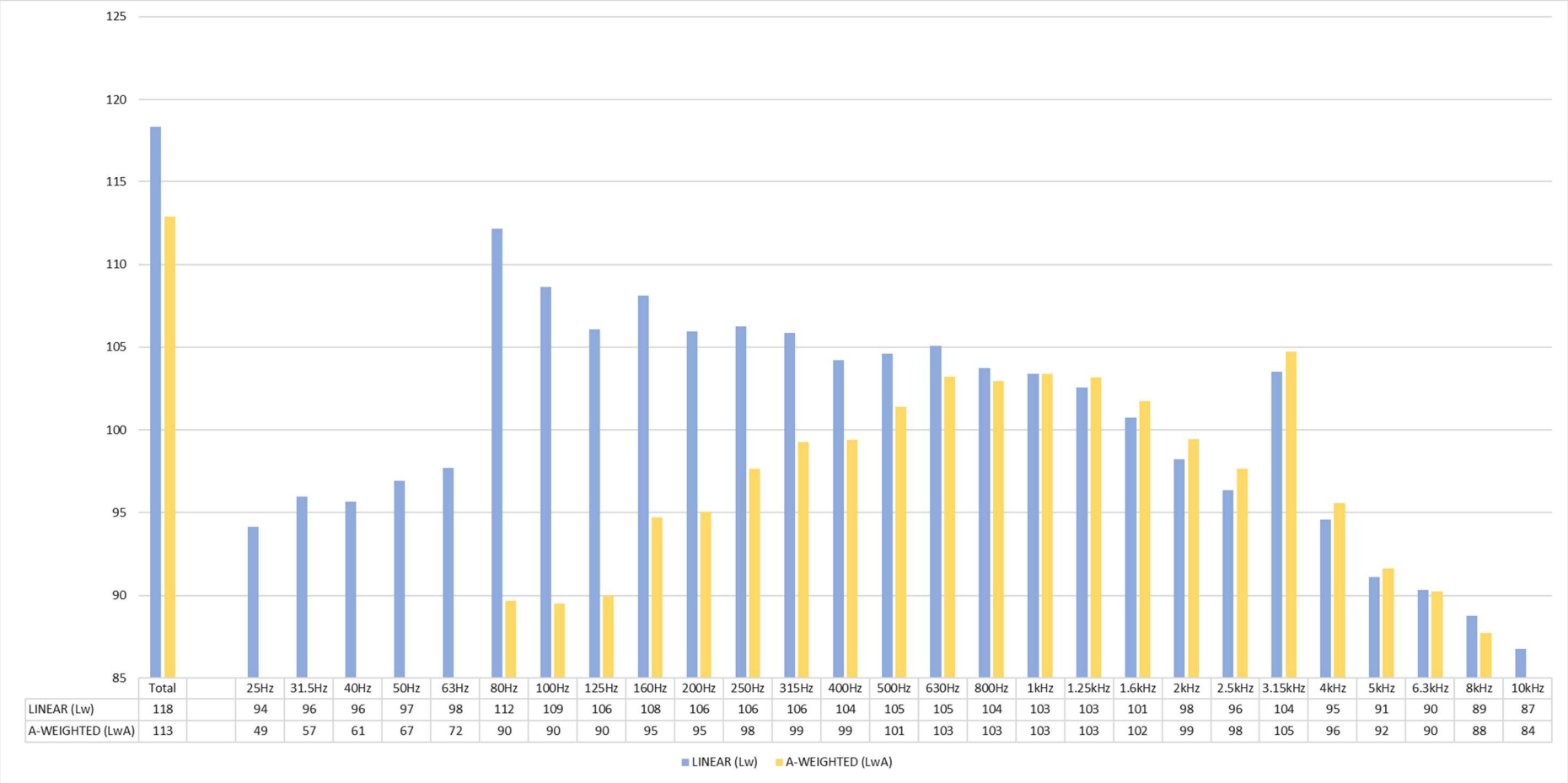
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	116		91	98	90	94	93	111	108	103	106	102	102	101	100	100	101	100	99	97	95	96	94	93	91	89	87	87	84
A-WEIGHTED (LwA)	108		46	58	55	64	67	88	88	87	92	92	94	94	95	97	99	99	99	98	96	97	95	94	92	89	87	85	82

Figure 19: TD090 Stationary



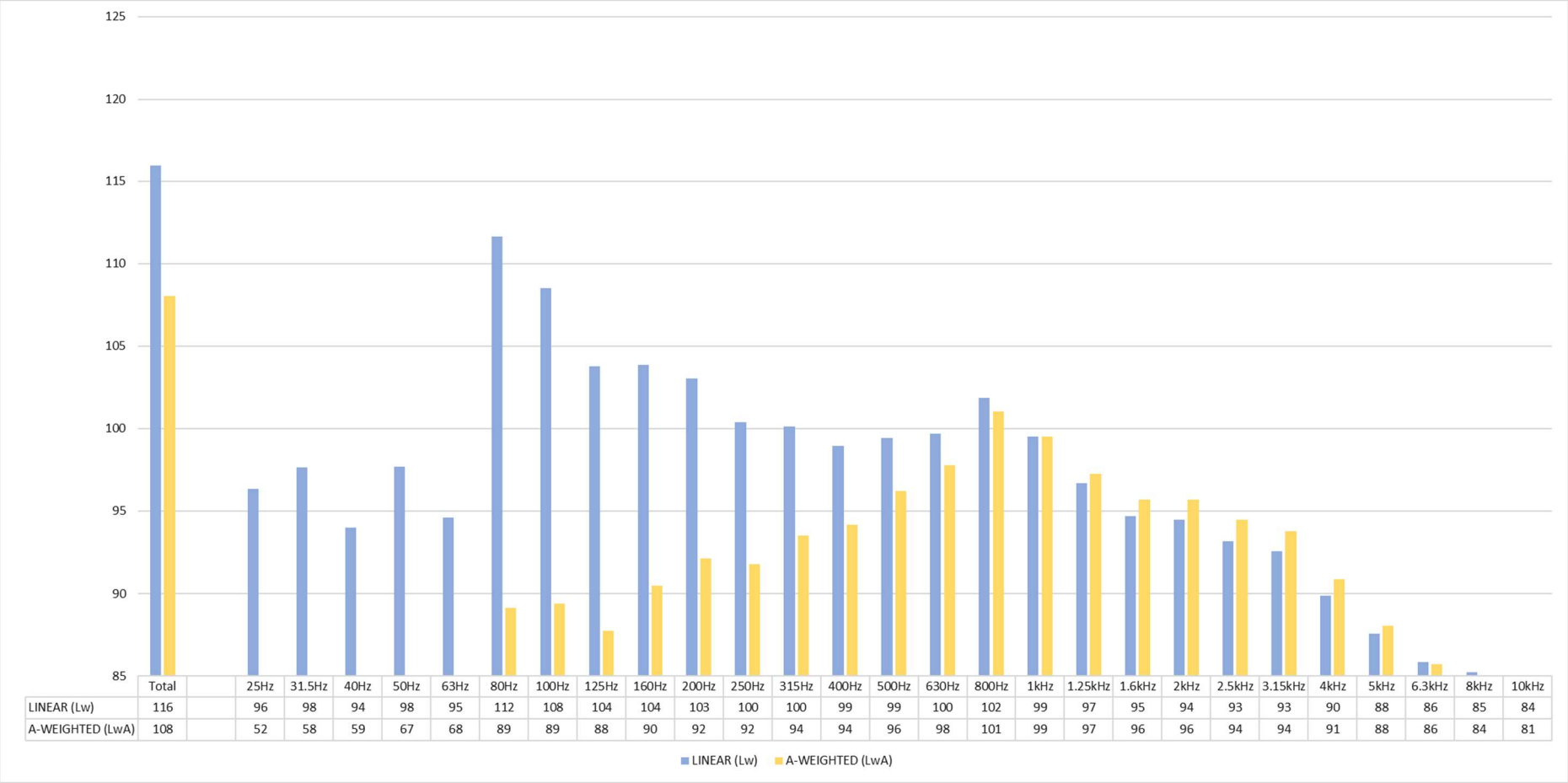
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117		94	95	94	96	96	112	109	105	106	104	104	103	103	104	105	101	99	99	97	96	95	99	97	90	89	87	85
A-WEIGHTED (LwA)	111		49	56	60	66	70	90	90	89	92	93	95	97	98	101	103	100	99	99	98	97	96	100	98	90	89	86	82

Figure 20: TD090 Forwards



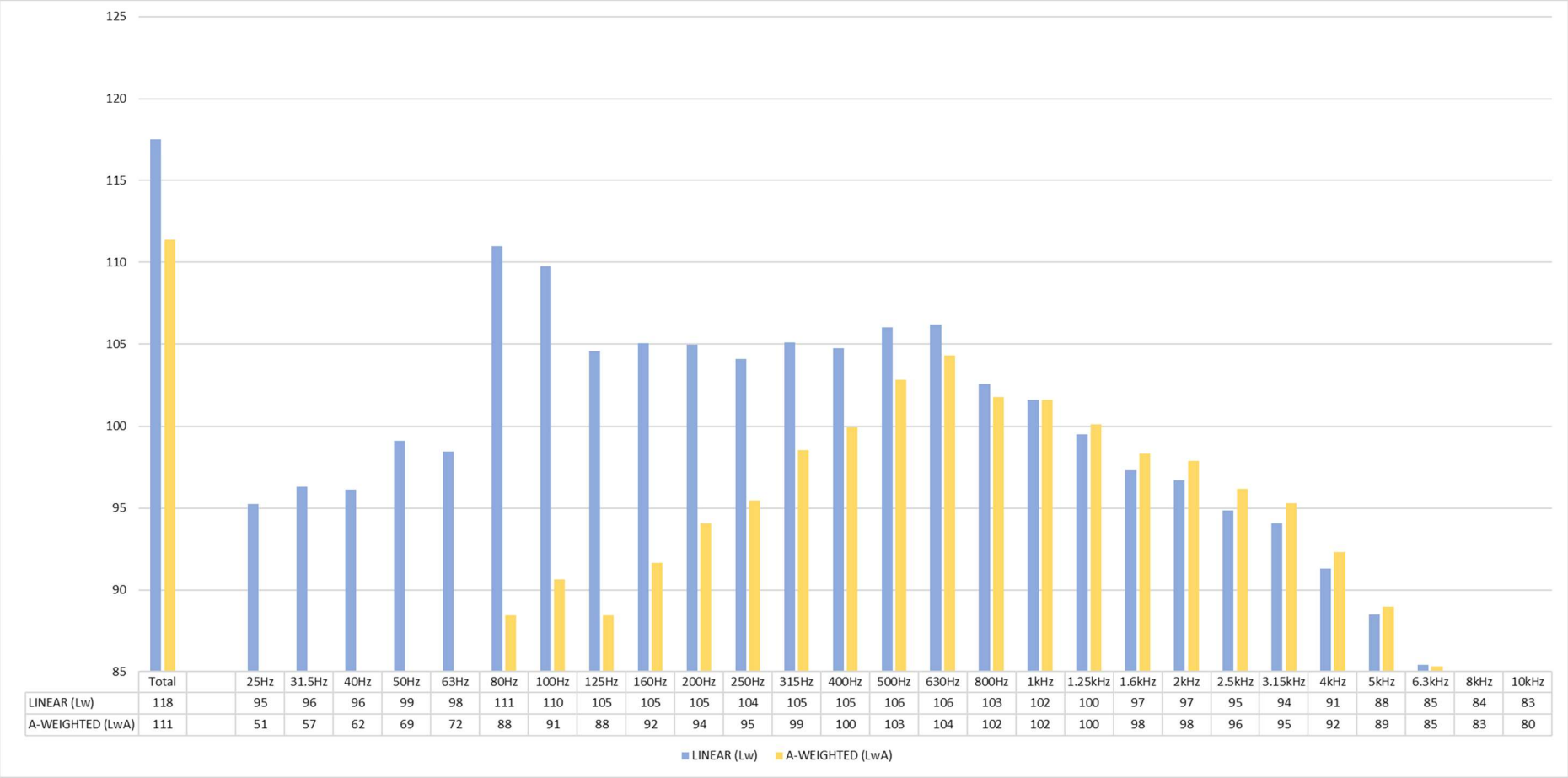
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118	94	96	96	97	98	112	109	106	108	106	106	106	104	105	105	104	103	103	101	98	96	104	95	91	90	89	87
A-WEIGHTED (LwA)	113	49	57	61	67	72	90	90	90	95	95	98	99	99	101	103	103	103	103	102	99	98	105	96	92	90	88	84

Figure 21: TD090 Reverse



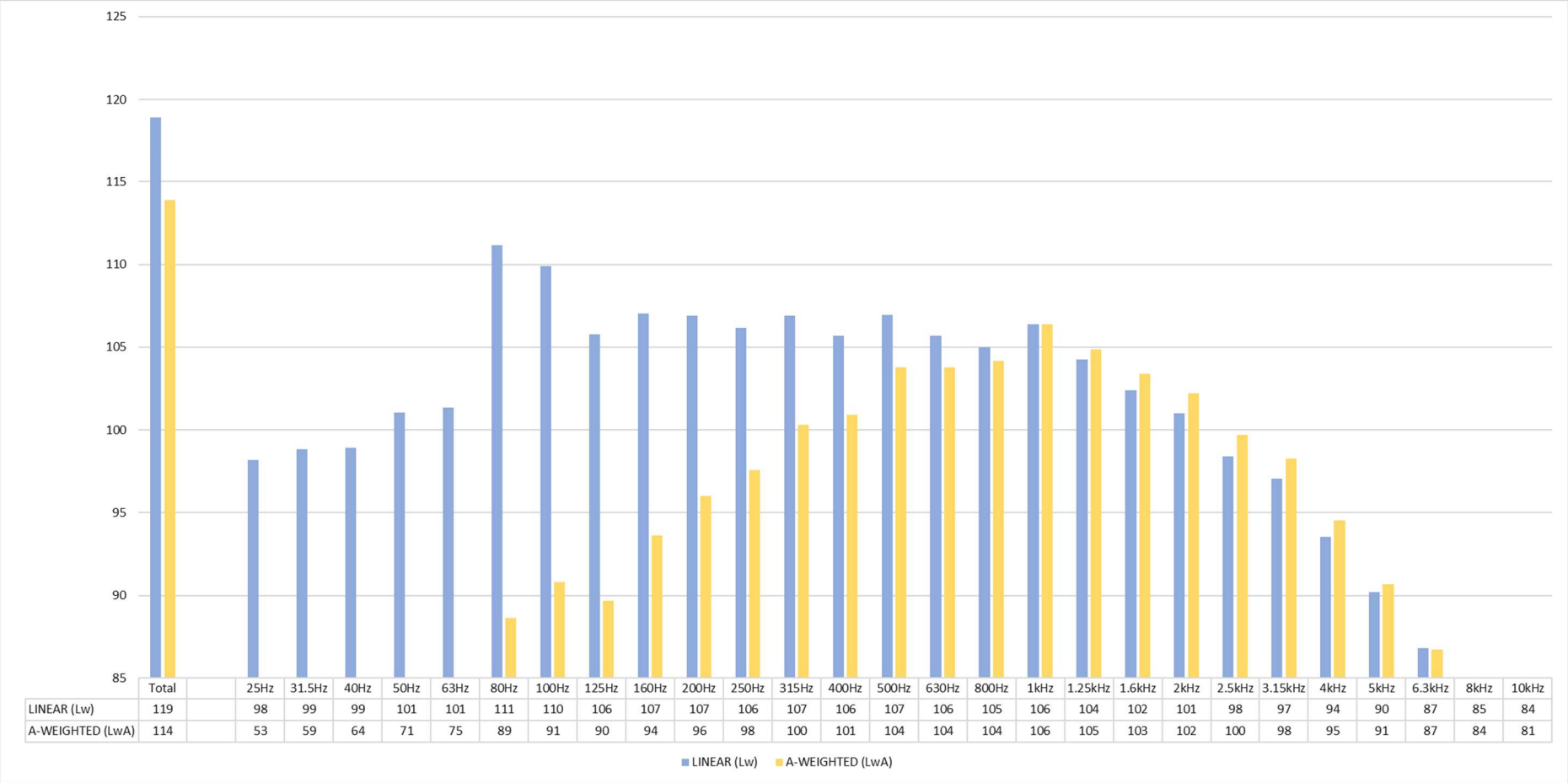
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	116		96	98	94	98	95	112	108	104	104	103	100	100	99	99	100	102	99	97	95	94	93	93	90	88	86	85	84
A-WEIGHTED (LwA)	108		52	58	59	67	68	89	89	88	90	92	92	94	94	96	98	101	99	97	96	96	94	94	91	88	86	84	81

Figure 22: TD093 Stationary



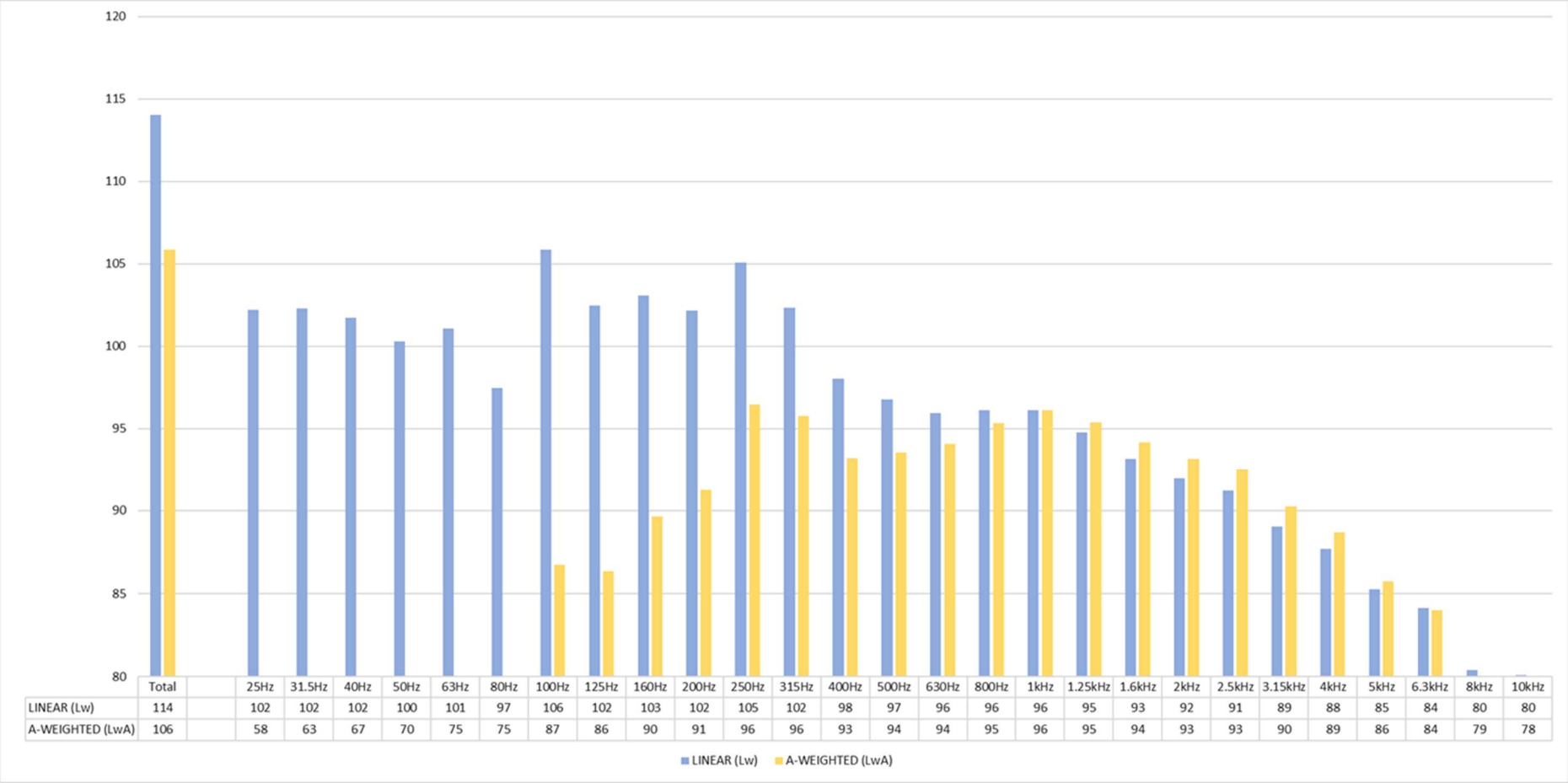
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118		95	96	96	99	98	111	110	105	105	105	104	105	105	106	106	103	102	100	97	97	95	94	91	88	85	84	83
A-WEIGHTED (LwA)	111		51	57	62	69	72	88	91	88	92	94	95	99	100	103	104	102	102	100	98	98	96	95	92	89	85	83	80

Figure 23: TD093 Forwards



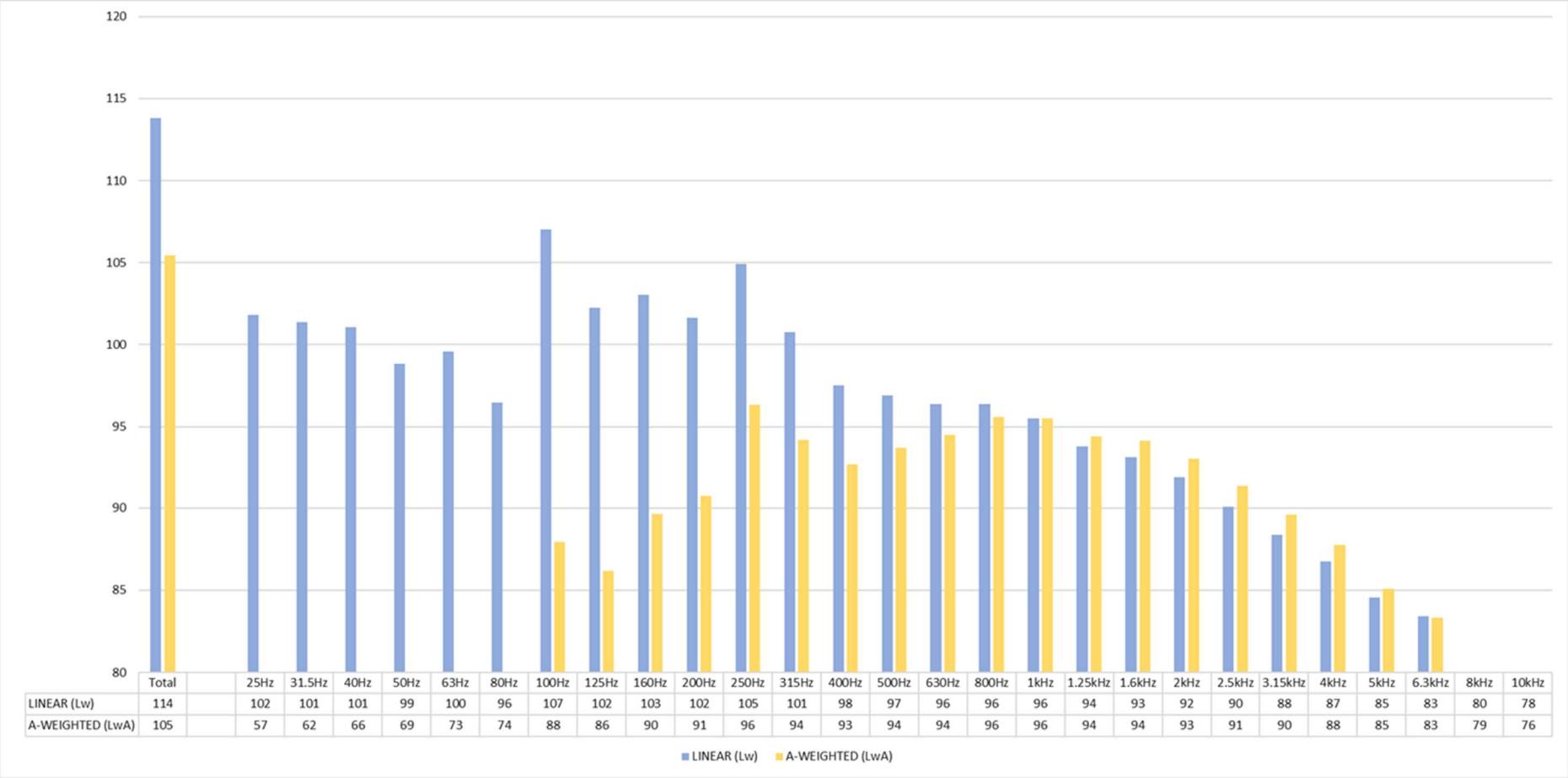
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119	98	99	99	101	101	111	110	106	107	107	106	107	106	107	106	105	106	104	102	101	98	97	94	90	87	85	84
A-WEIGHTED (LwA)	114	53	59	64	71	75	89	91	90	94	96	98	100	101	104	104	104	106	105	103	102	100	98	95	91	87	84	81

Figure 24: TD093 Reverse



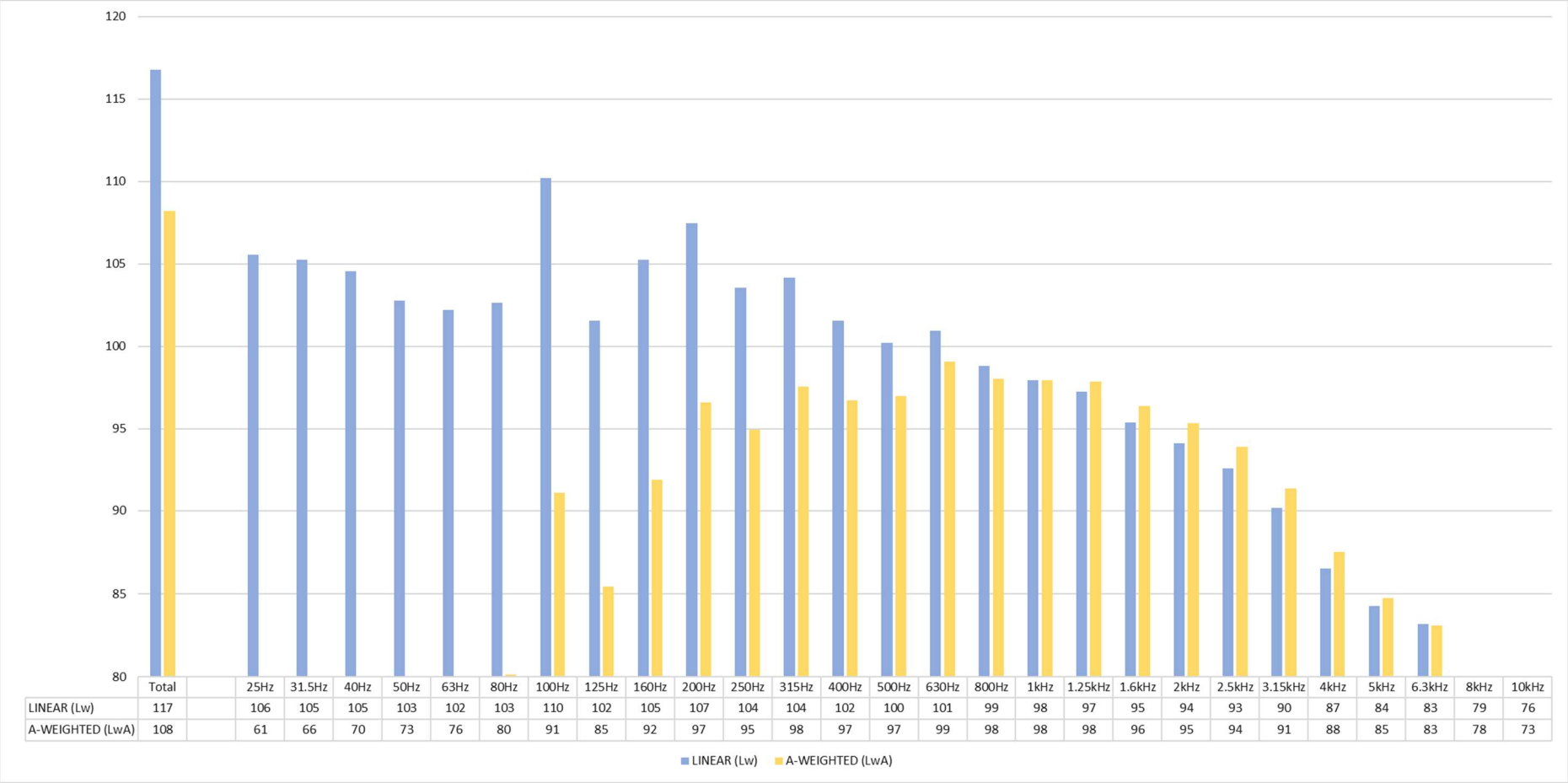
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	114	102	102	102	100	101	97	106	102	103	102	105	102	98	97	96	96	96	95	93	92	91	89	88	85	84	80	80
A-WEIGHTED (LwA)	106	58	63	67	70	75	75	87	86	90	91	96	96	93	94	94	95	96	95	94	93	93	90	89	86	84	79	78

Figure 25: GR060 Stationary



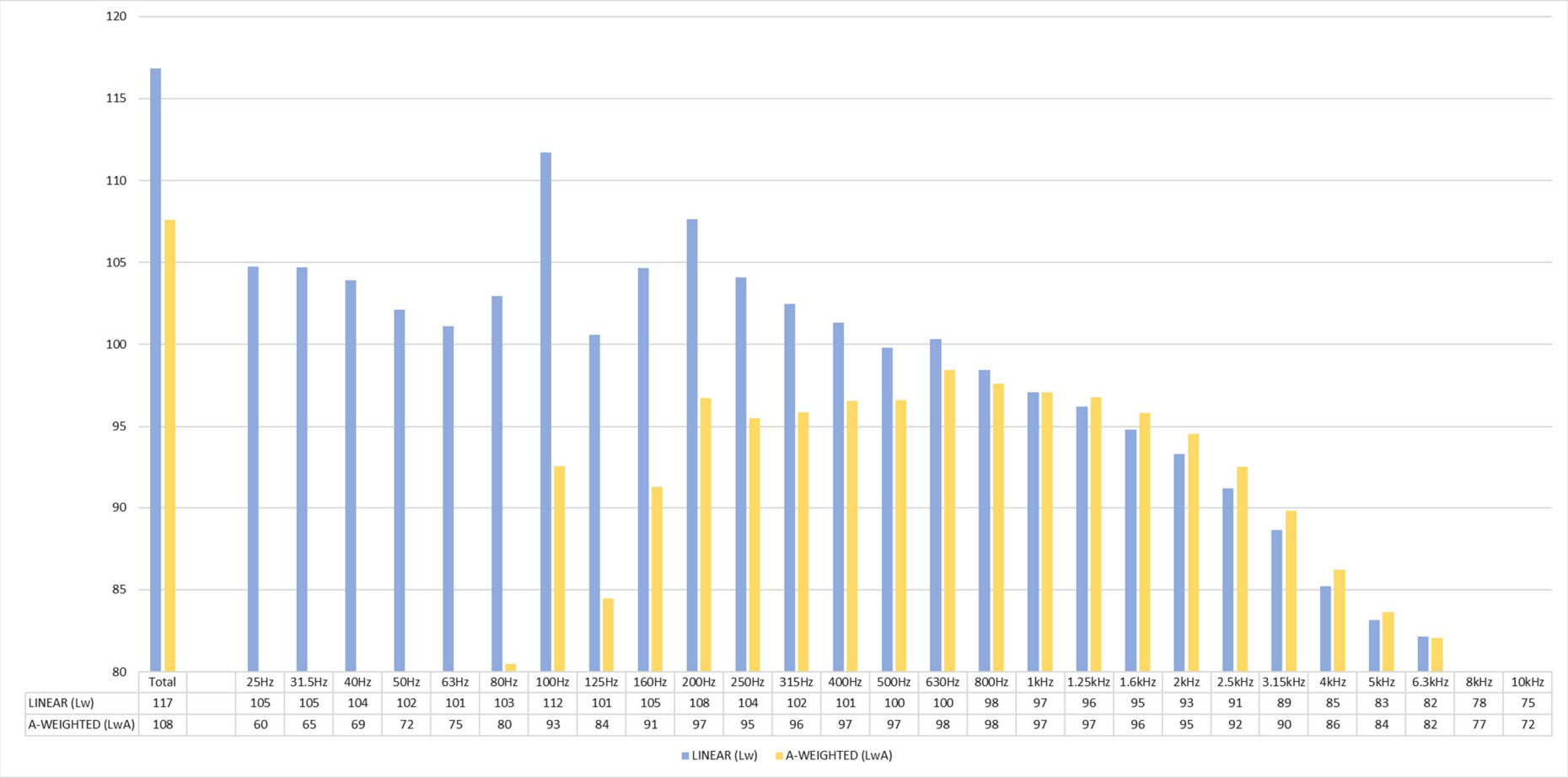
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	114		102	101	101	99	100	96	107	102	103	102	105	101	98	97	96	96	96	94	93	92	90	88	87	85	83	80	78
A-WEIGHTED (LwA)	105		57	62	66	69	73	74	88	86	90	91	96	94	93	94	94	96	96	94	94	93	91	90	88	85	83	79	76

Figure 26: GR060 Forwards



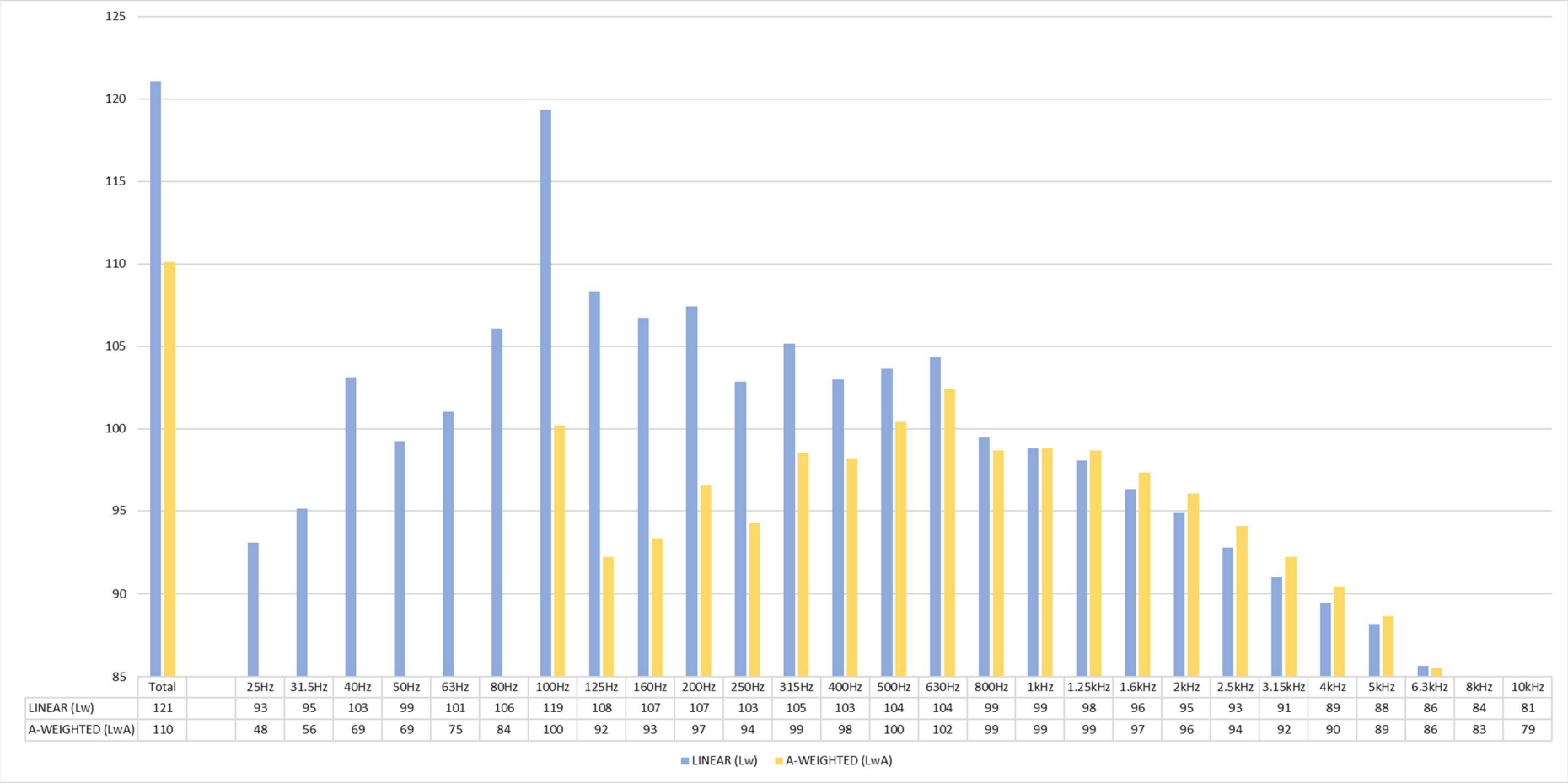
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117		106	105	105	103	102	103	110	102	105	107	104	104	102	100	101	99	98	97	95	94	93	90	87	84	83	79	76
A-WEIGHTED (LwA)	108		61	66	70	73	76	80	91	85	92	97	95	98	97	97	99	98	98	98	96	95	94	91	88	85	83	78	73

Figure 27: GR063 Stationary



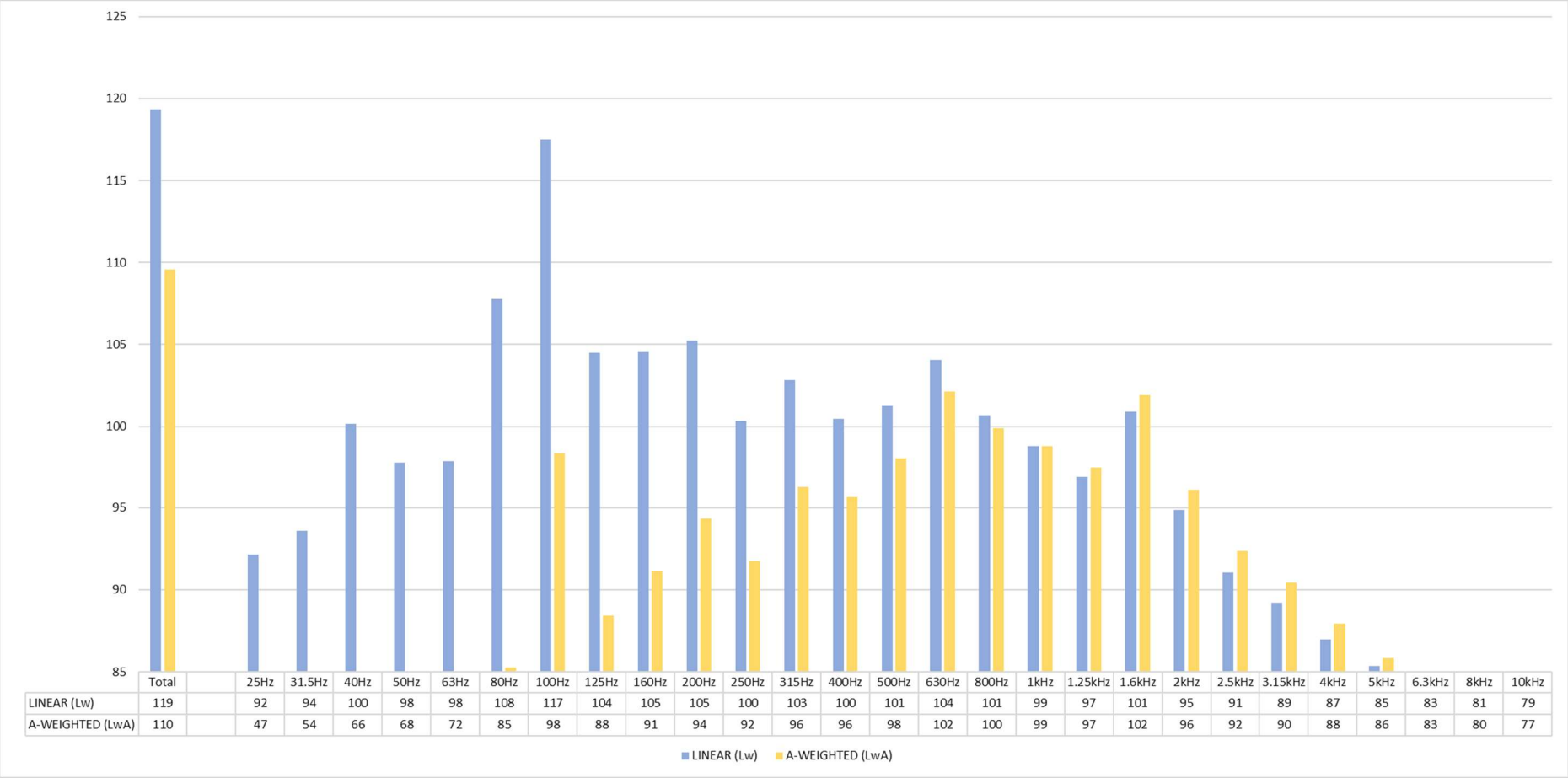
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117		105	105	104	102	101	103	112	101	105	108	104	102	101	100	100	98	97	96	95	93	91	89	85	83	82	78	75
A-WEIGHTED (LwA)	108		60	65	69	72	75	80	93	84	91	97	95	96	97	97	98	98	97	97	96	95	92	90	86	84	82	77	72

Figure 28: GR063 Forwards



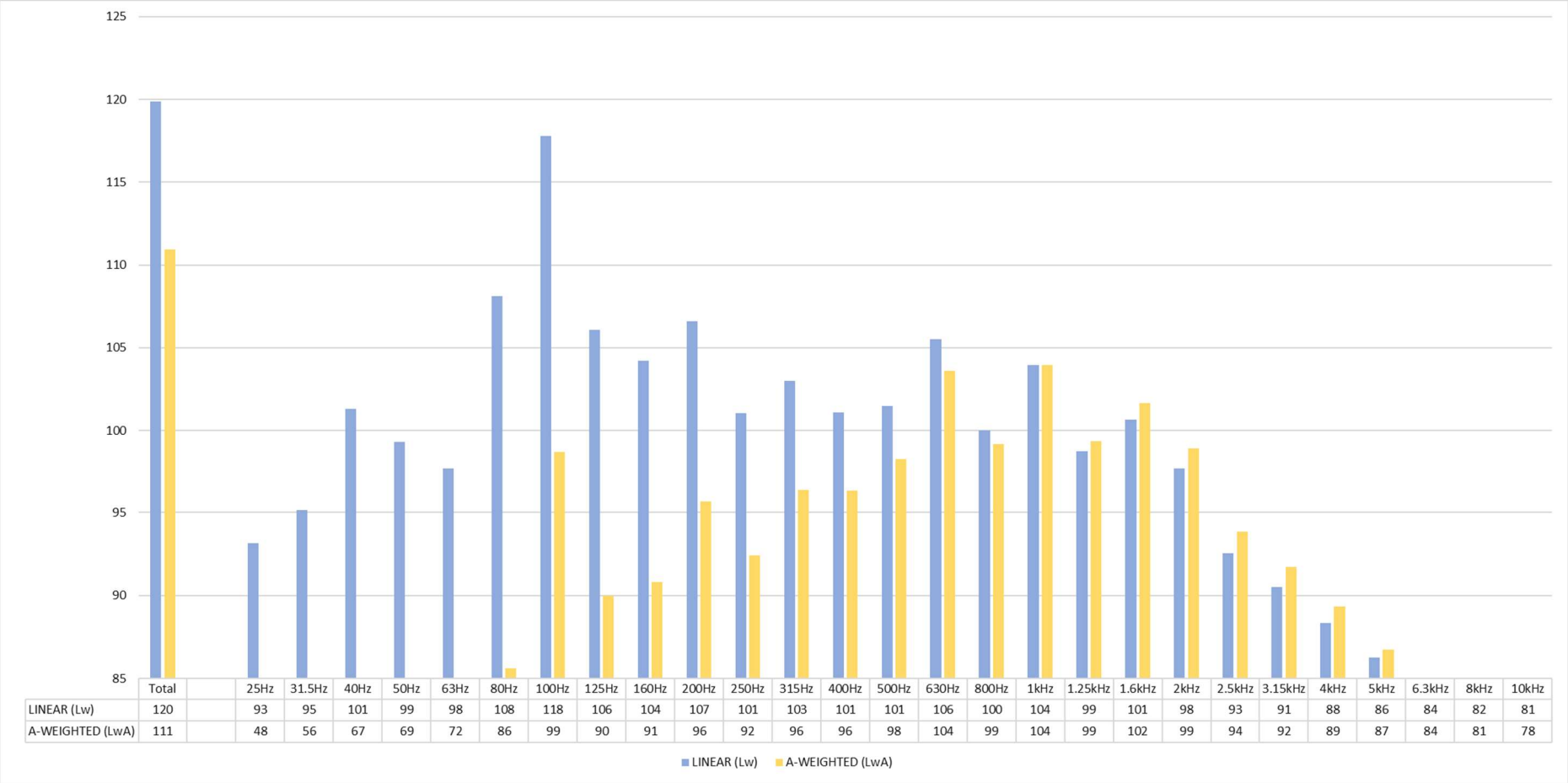
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		93	95	103	99	101	106	119	108	107	107	103	105	103	104	104	99	99	98	96	95	93	91	89	88	86	84	81
A-WEIGHTED (LwA)	110		48	56	69	69	75	84	100	92	93	97	94	99	98	100	102	99	99	99	97	96	94	92	90	89	86	83	79

Figure 29: WL02 Stationary



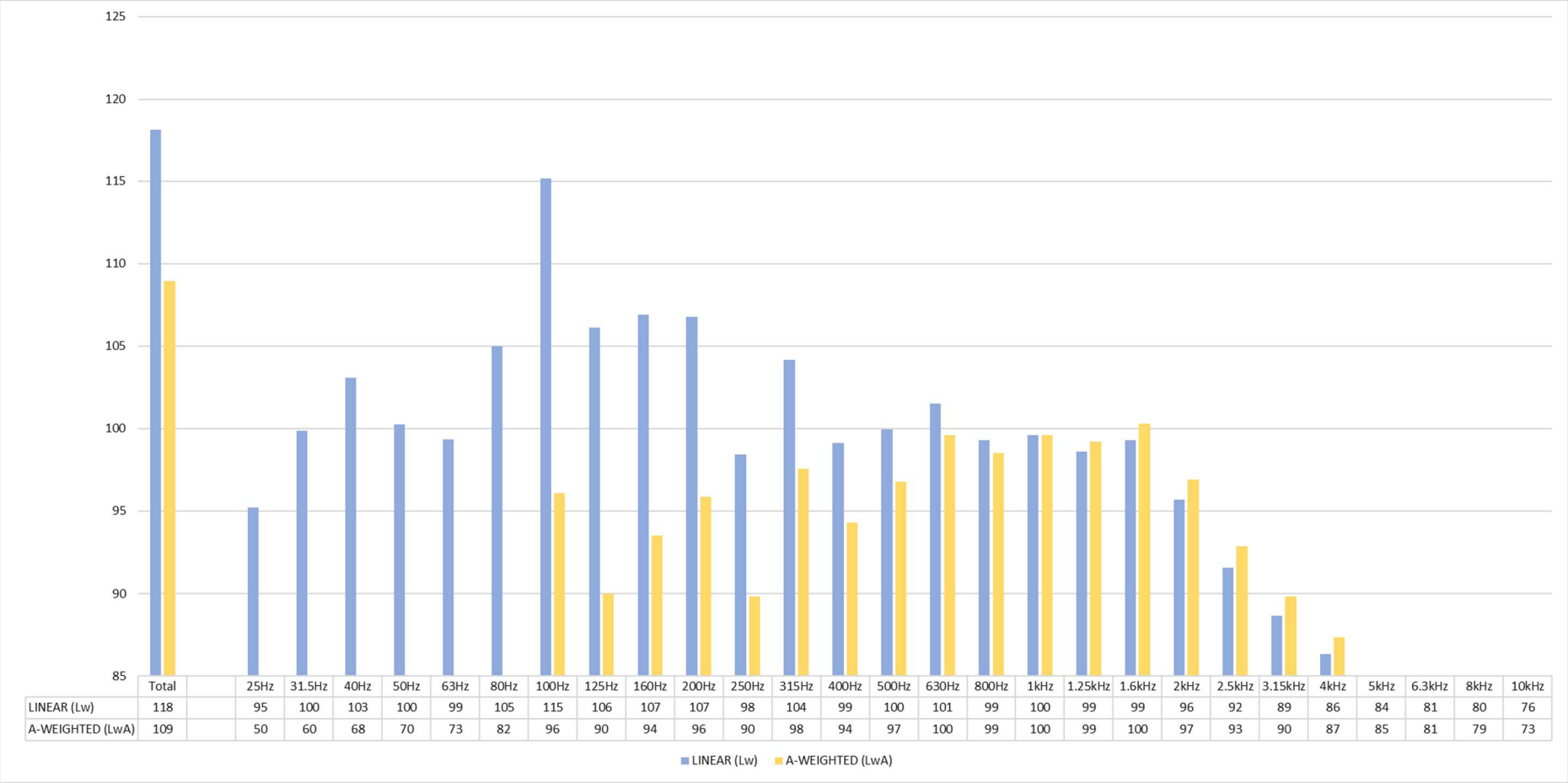
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		92	94	100	98	98	108	117	104	105	105	100	103	100	101	104	101	99	97	101	95	91	89	87	85	83	81	79
A-WEIGHTED (LwA)	110		47	54	66	68	72	85	98	88	91	94	92	96	96	98	102	100	99	97	102	96	92	90	88	86	83	80	77

Figure 30: WL02 Forwards



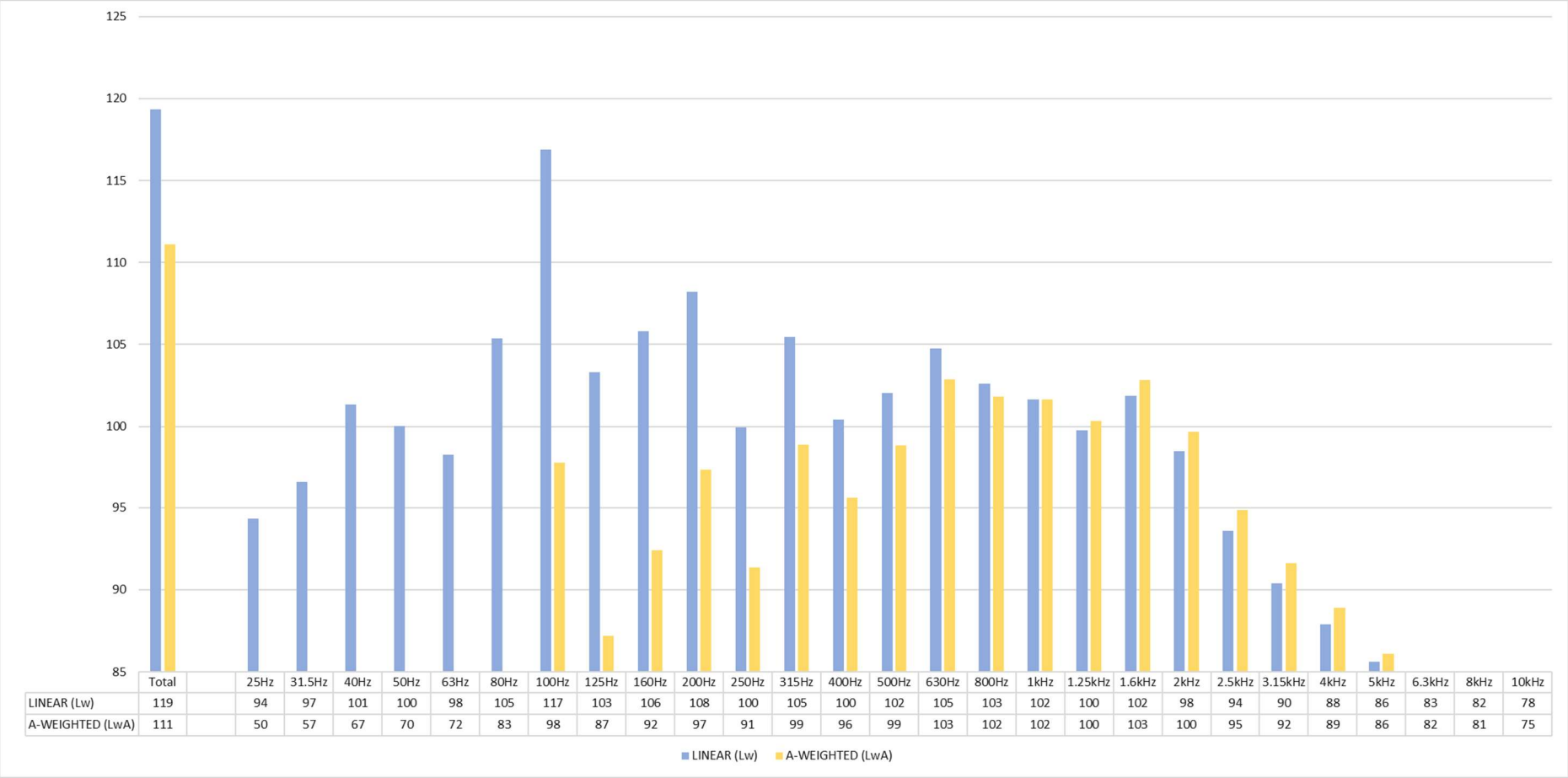
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		93	95	101	99	98	108	118	106	104	107	101	103	101	101	106	100	104	99	101	98	93	91	88	86	84	82	81
A-WEIGHTED (LwA)	111		48	56	67	69	72	86	99	90	91	96	92	96	96	98	104	99	104	99	102	99	94	92	89	87	84	81	78

Figure 31: WL02 Reverse



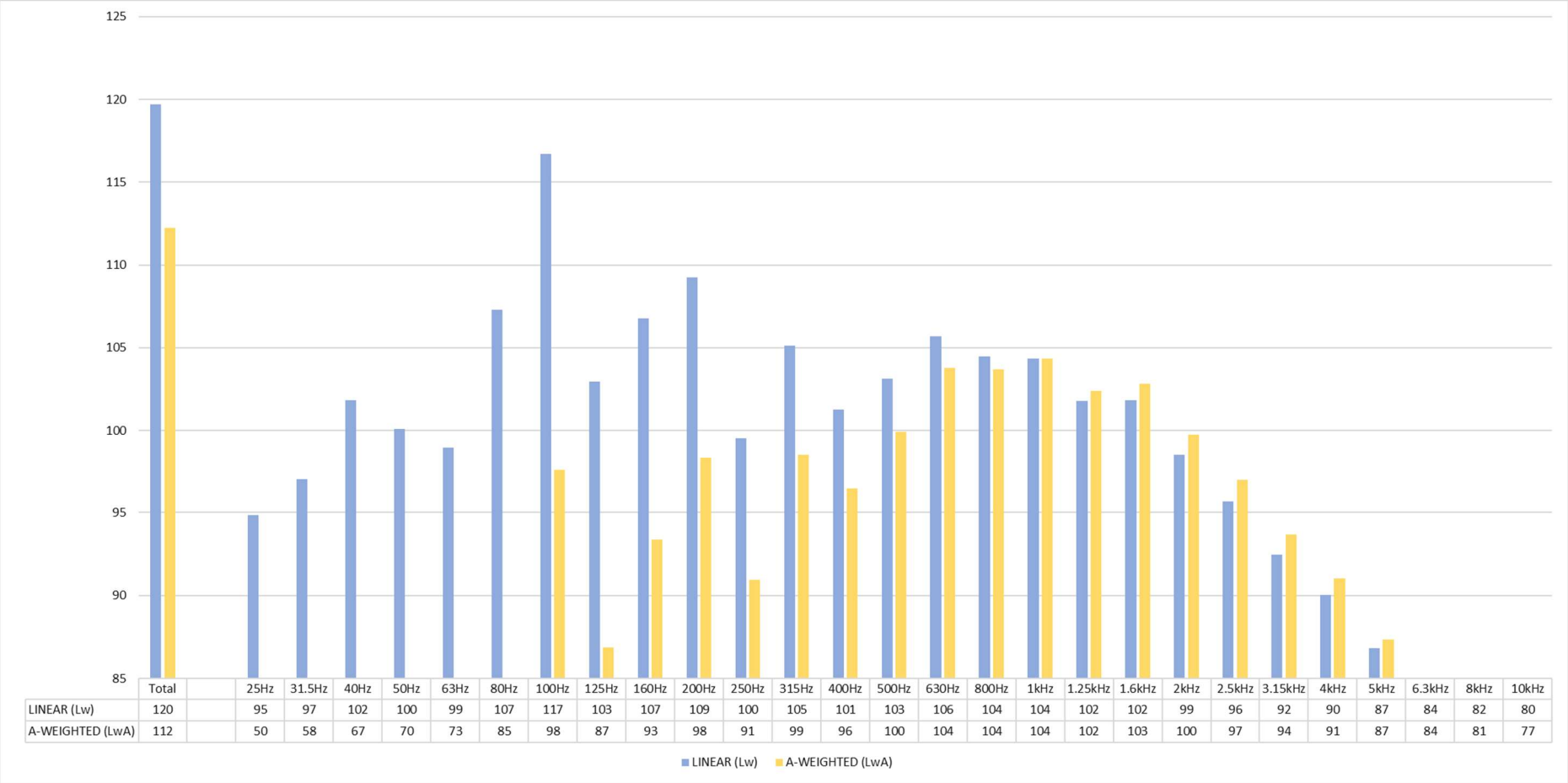
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118		95	100	103	100	99	105	115	106	107	107	98	104	99	100	101	99	100	99	99	96	92	89	86	84	81	80	76
A-WEIGHTED (LwA)	109		50	60	68	70	73	82	96	90	94	96	90	98	94	97	100	99	100	99	100	97	93	90	87	85	81	79	73

Figure 32: WL03 Stationary



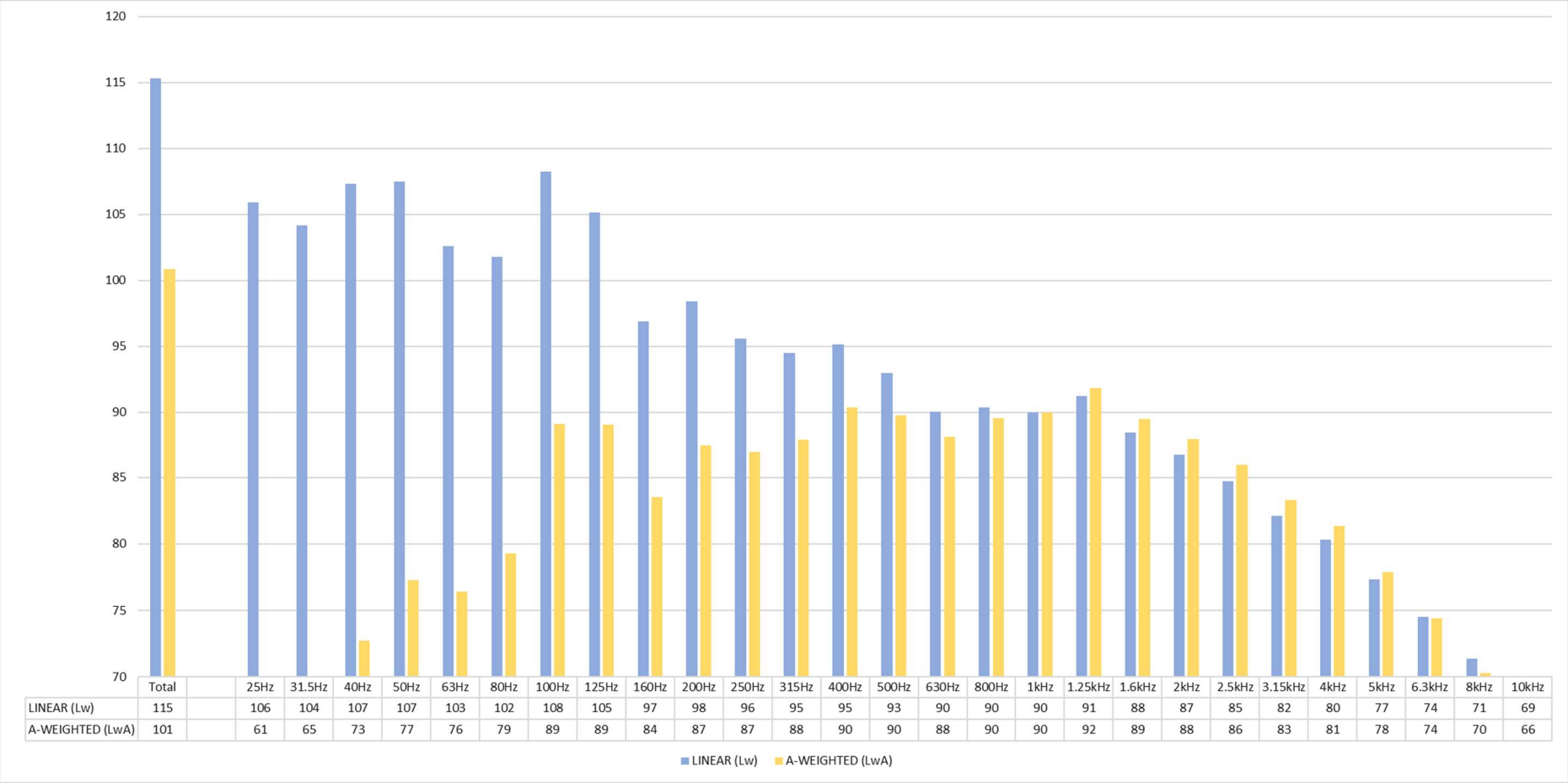
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		94	97	101	100	98	105	117	103	106	108	100	105	100	102	105	103	102	100	102	98	94	90	88	86	83	82	78
A-WEIGHTED (LwA)	111		50	57	67	70	72	83	98	87	92	97	91	99	96	99	103	102	102	100	103	100	95	92	89	86	82	81	75

Figure 33: WL03 Forwards



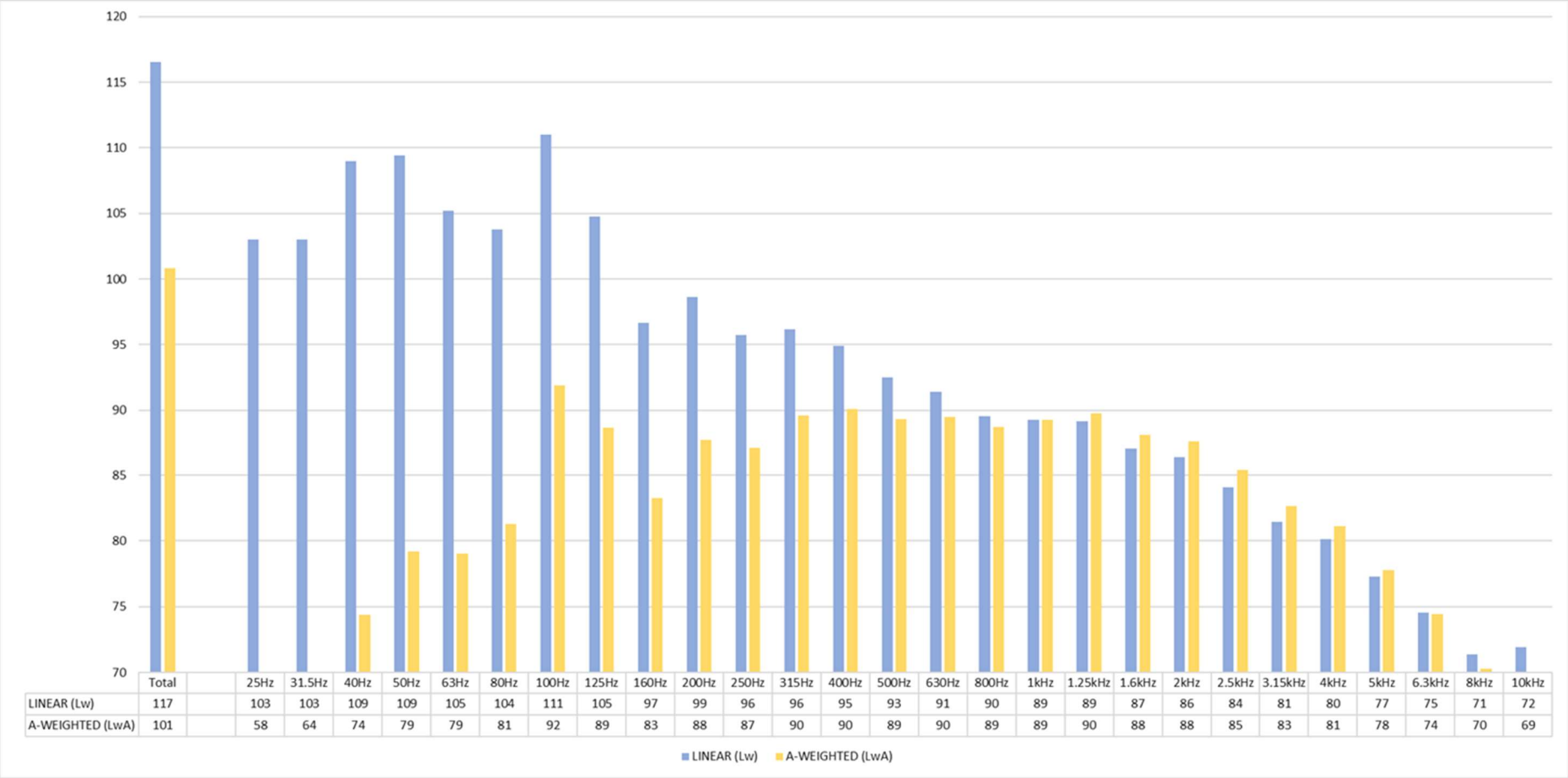
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		95	97	102	100	99	107	117	103	107	109	100	105	101	103	106	104	104	102	102	99	96	92	90	87	84	82	80
A-WEIGHTED (LwA)	112		50	58	67	70	73	85	98	87	93	98	91	99	96	100	104	104	104	102	103	100	97	94	91	87	84	81	77

Figure 34: WL03 Reverse



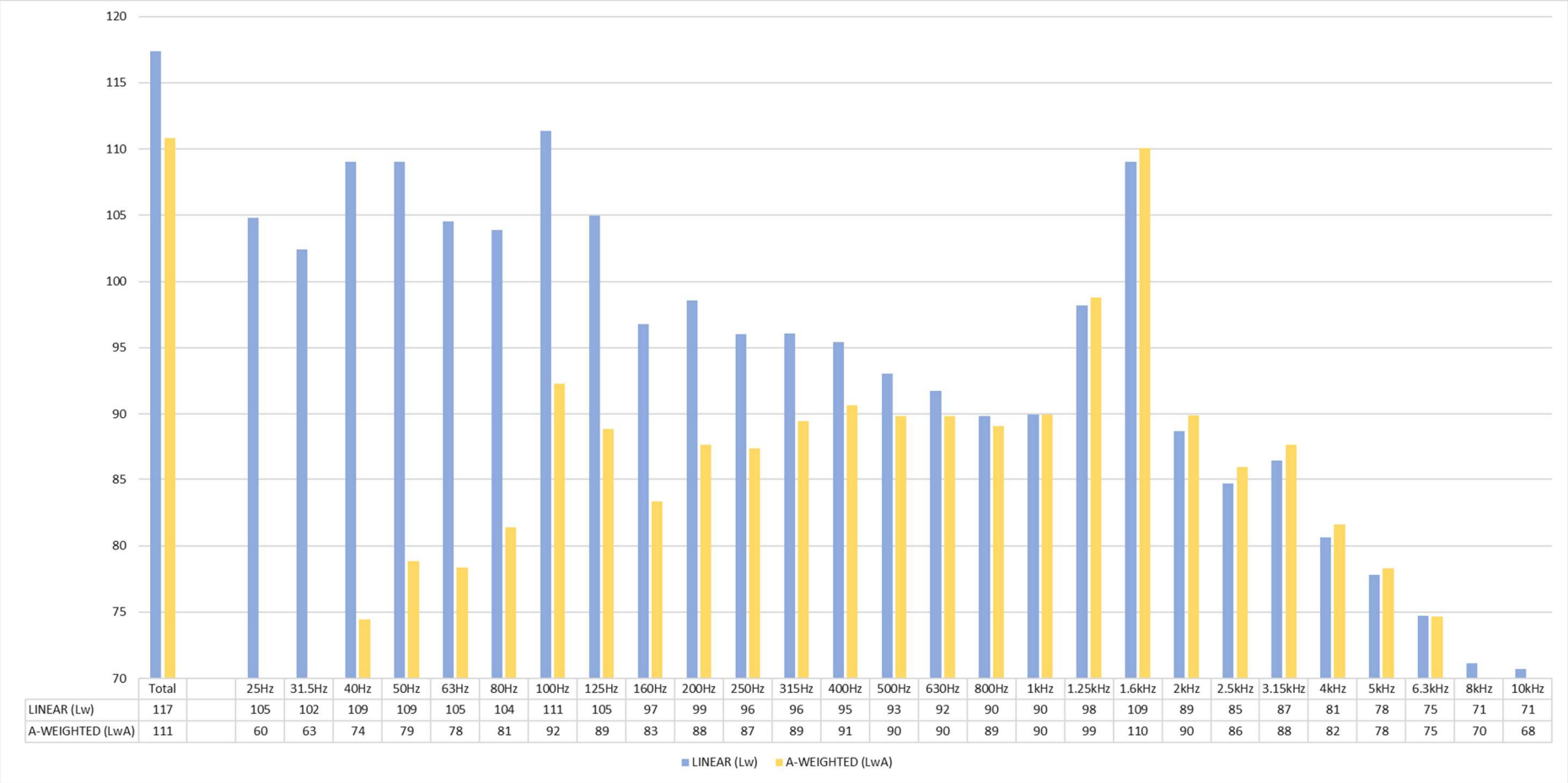
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	115		106	104	107	107	103	102	108	105	97	98	96	95	95	93	90	90	90	91	88	87	85	82	80	77	74	71	69
A-WEIGHTED (LwA)	101		61	65	73	77	76	79	89	89	84	87	87	88	90	90	88	90	90	92	89	88	86	83	81	78	74	70	66

Figure 35: WL189 Stationary



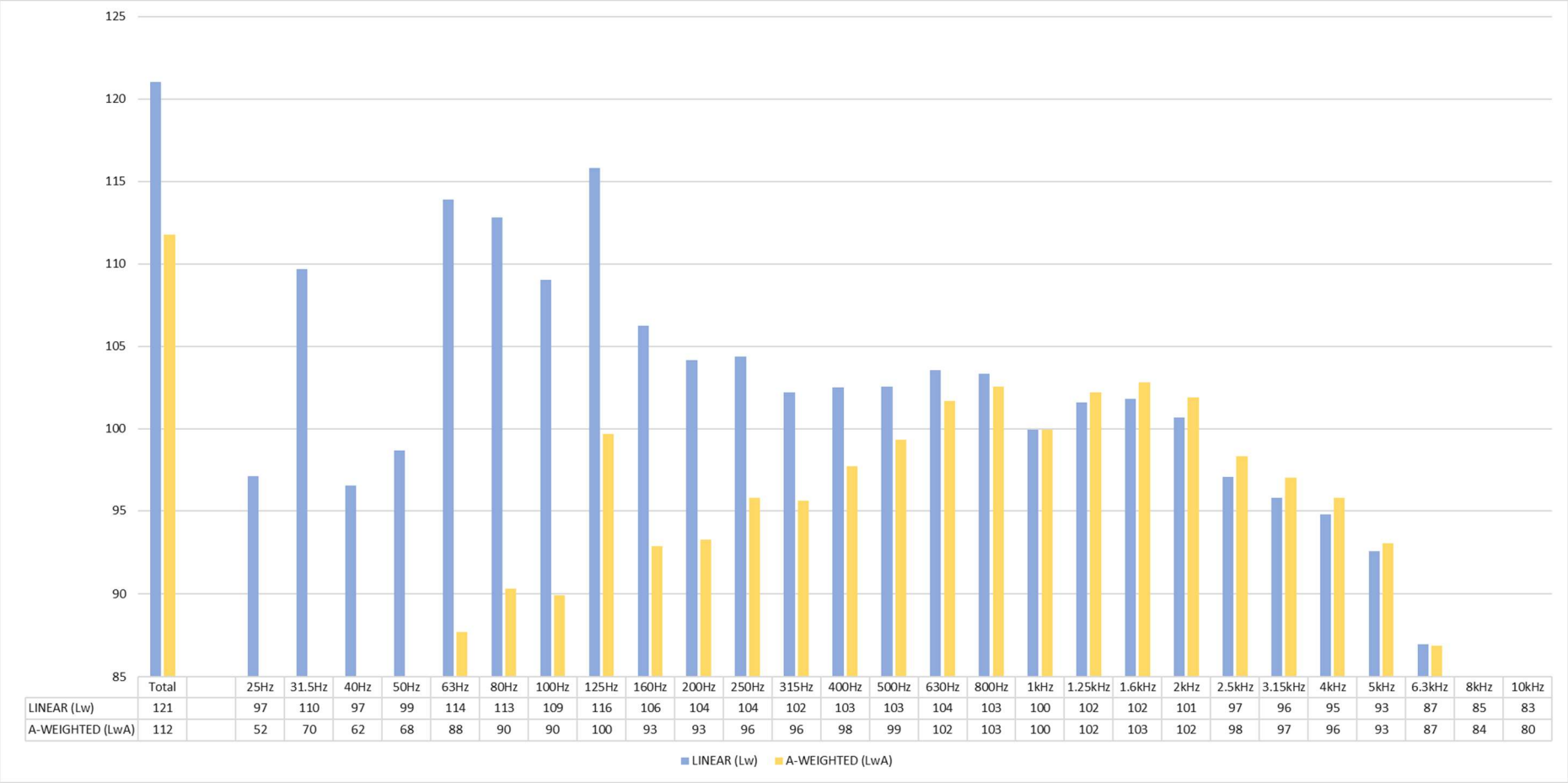
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117	103	103	109	109	105	104	111	105	97	99	96	96	95	93	91	90	89	89	87	86	84	81	80	77	75	71	72
A-WEIGHTED (LwA)	101	58	64	74	79	79	81	92	89	83	88	87	90	90	89	90	89	89	90	88	88	85	83	81	78	74	70	69

Figure 36: WL189 Forwards



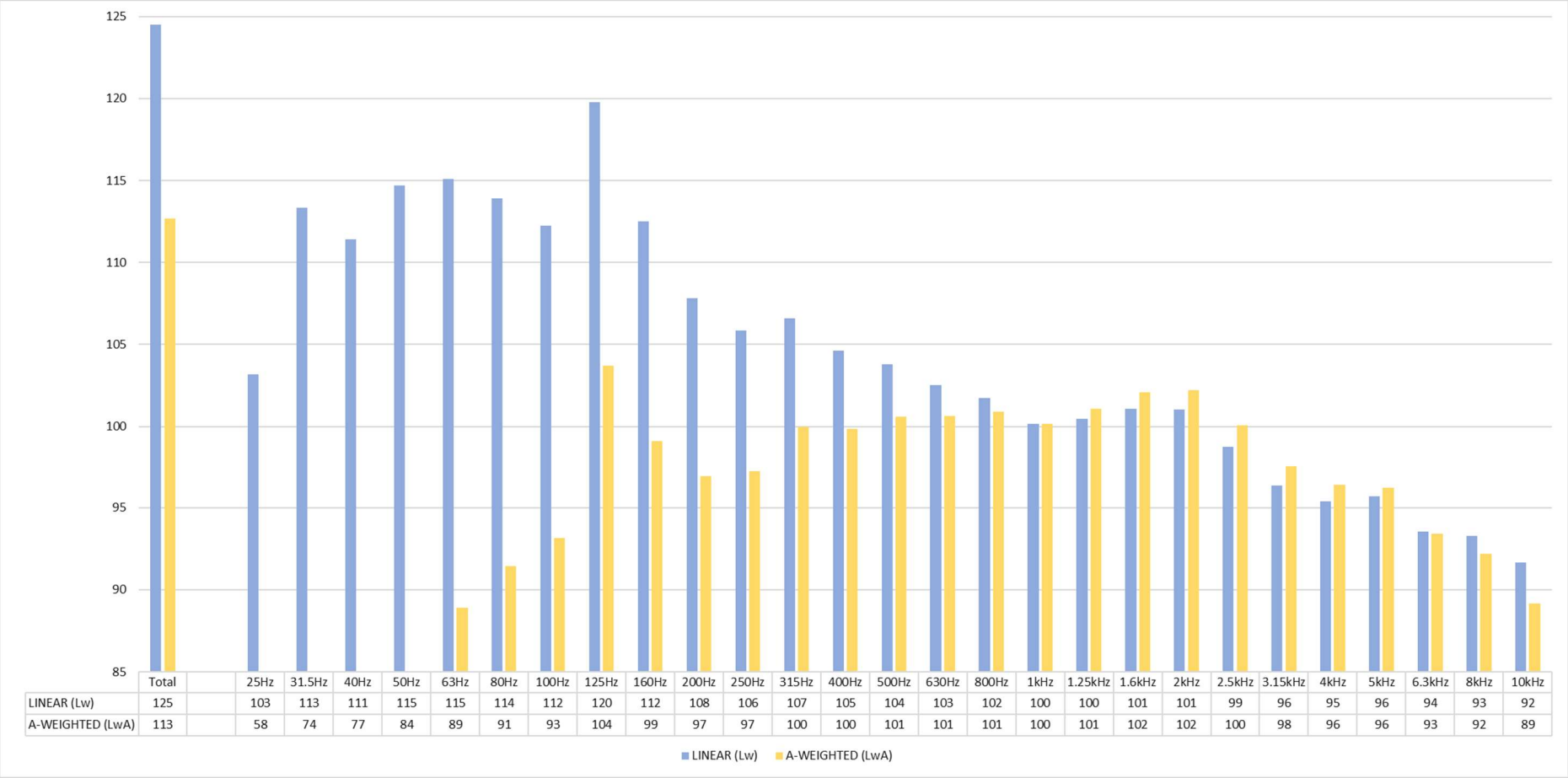
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117	105	102	109	109	105	104	111	105	97	99	96	96	95	93	92	90	90	98	109	89	85	87	81	78	75	71	71
A-WEIGHTED (LwA)	111	60	63	74	79	78	81	92	89	83	88	87	89	91	90	90	89	90	99	110	90	86	88	82	78	75	70	68

Figure 37: WL189 Reverse



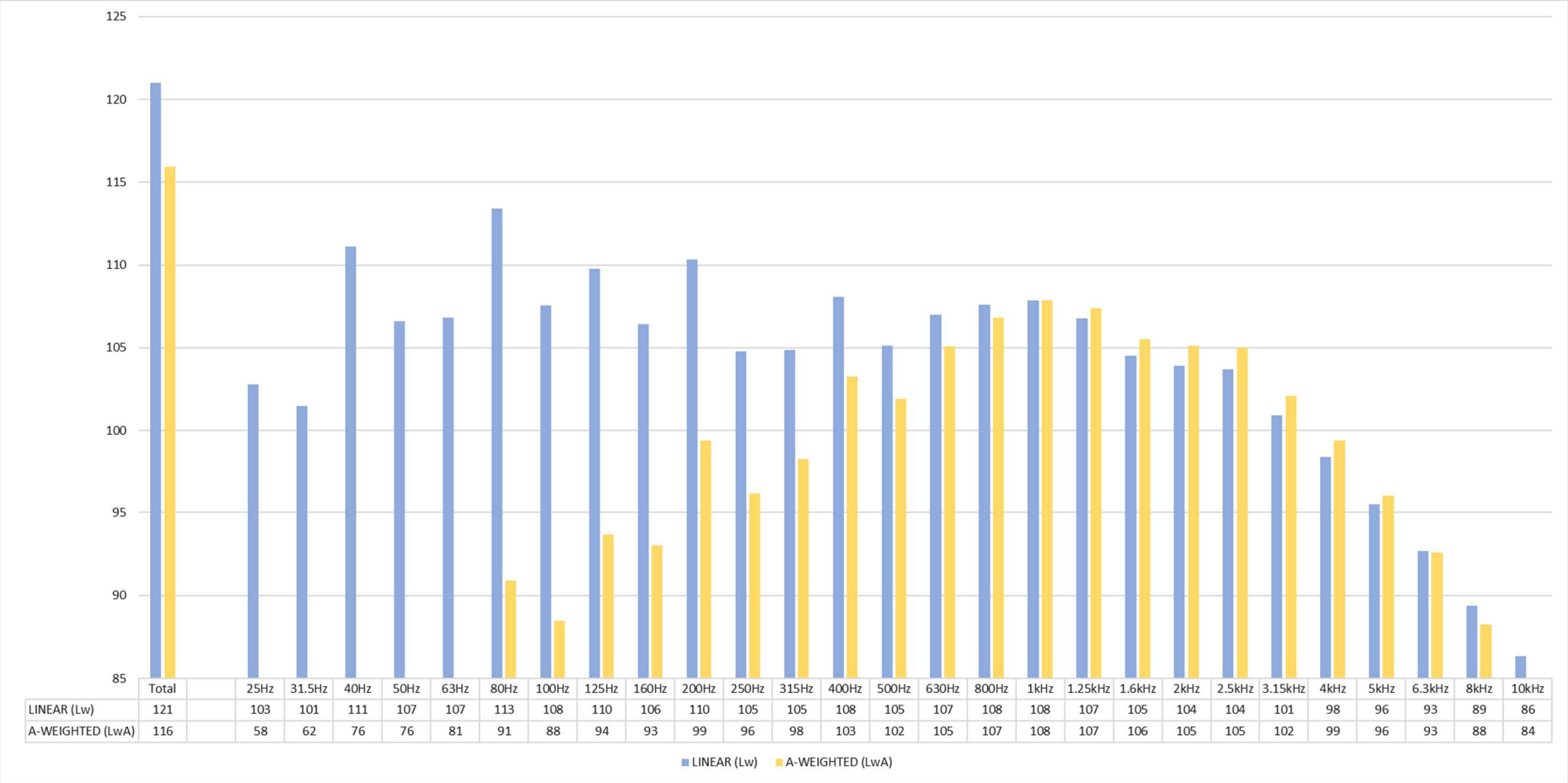
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		97	110	97	99	114	113	109	116	106	104	104	102	103	103	104	103	100	102	102	101	97	96	95	93	87	85	83
A-WEIGHTED (LwA)	112		52	70	62	68	88	90	90	100	93	93	96	96	98	99	102	103	100	102	103	102	98	97	96	93	87	84	80

Figure 38: WC042 Stationary



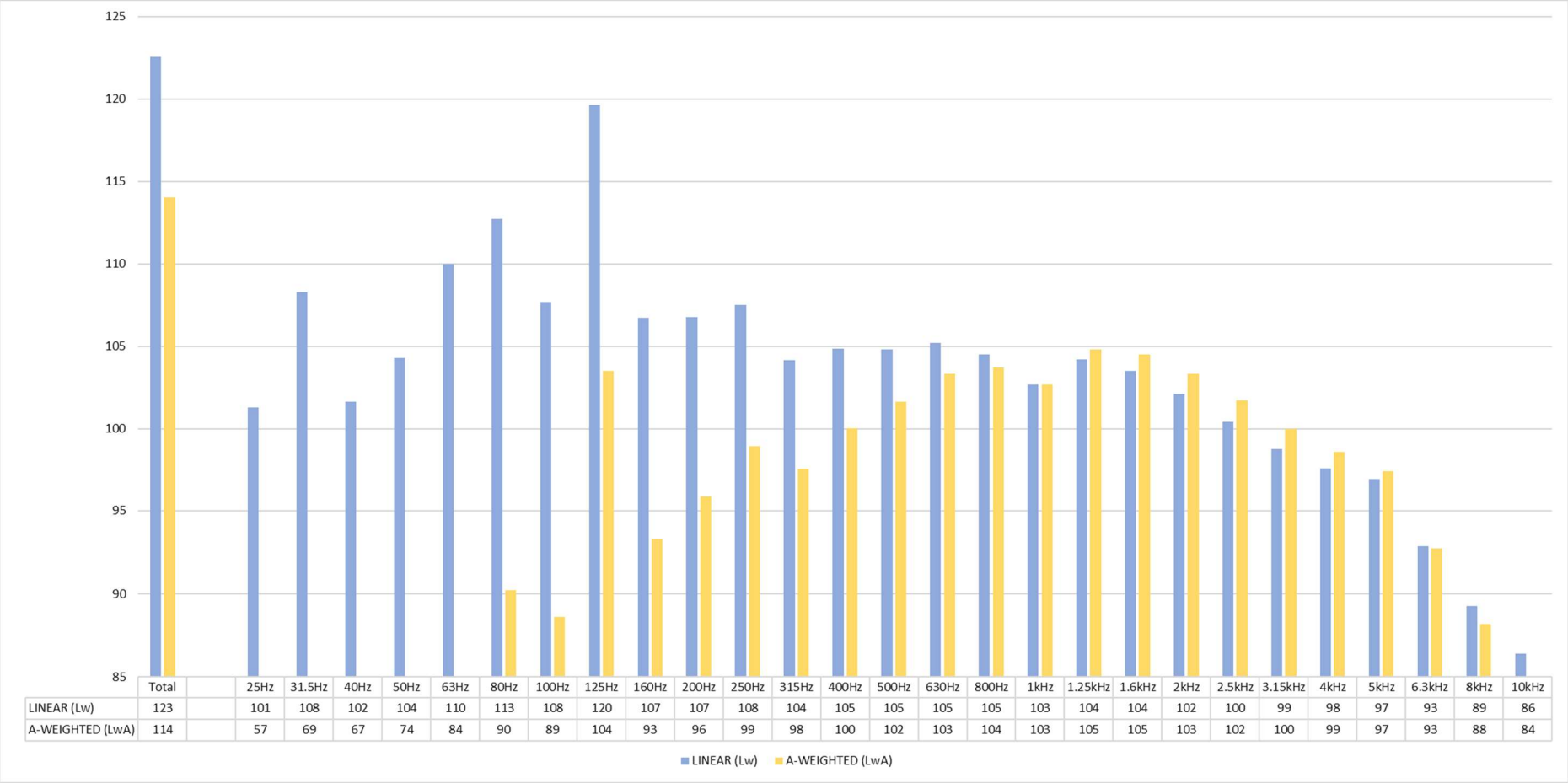
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	125		103	113	111	115	115	114	112	120	112	108	106	107	105	104	103	102	100	100	101	101	99	96	95	96	94	93	92
A-WEIGHTED (LwA)	113		58	74	77	84	89	91	93	104	99	97	97	100	100	101	101	101	100	101	102	102	100	98	96	96	93	92	89

Figure 39: WC042 Uphill



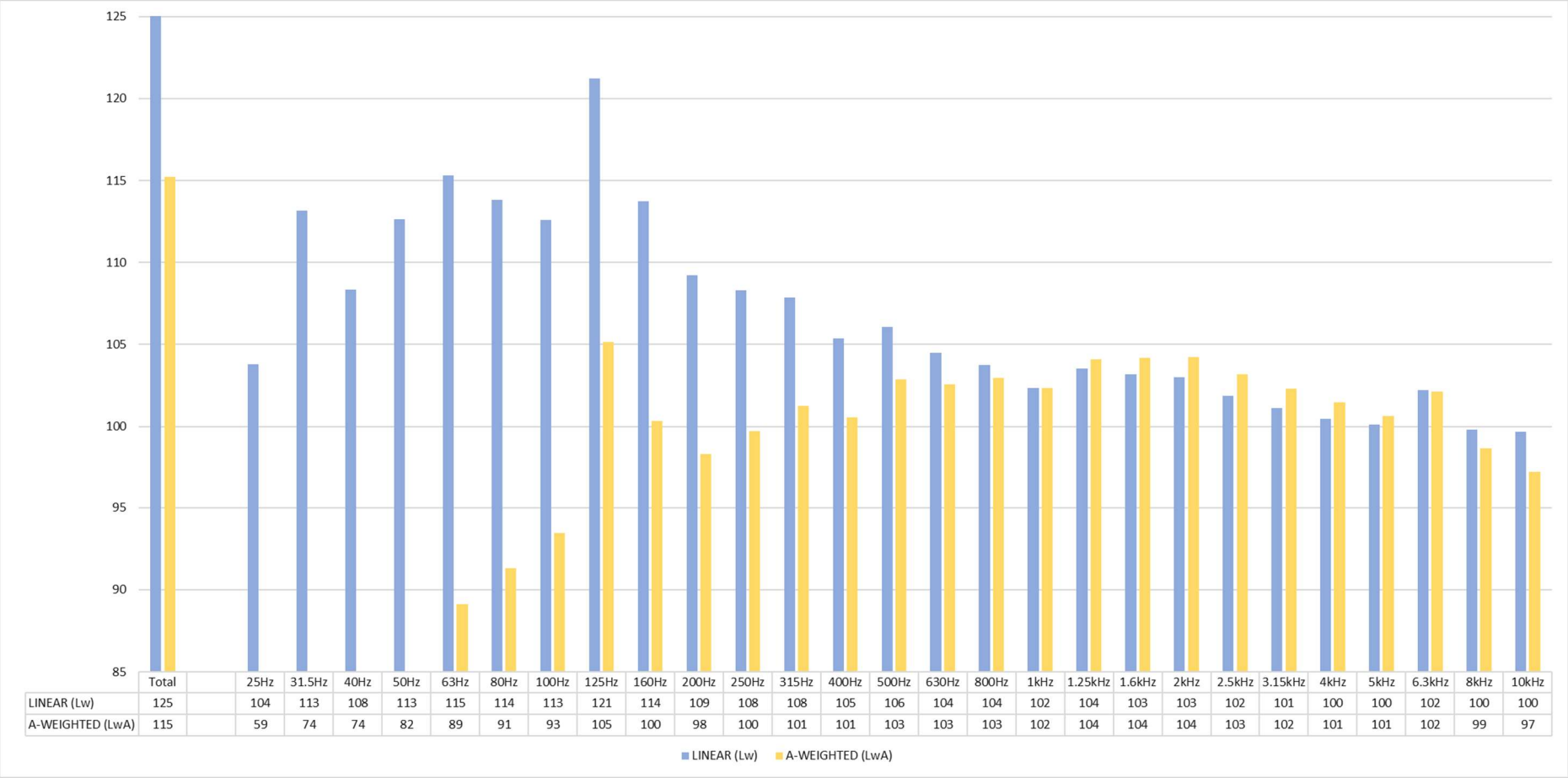
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		103	101	111	107	107	113	108	110	106	110	105	105	108	105	107	108	108	107	105	104	104	101	98	96	93	89	86
A-WEIGHTED (LwA)	116		58	62	76	76	81	91	88	94	93	99	96	98	103	102	105	107	108	107	106	105	105	102	99	96	93	88	84

Figure 40: WC042 Downhill



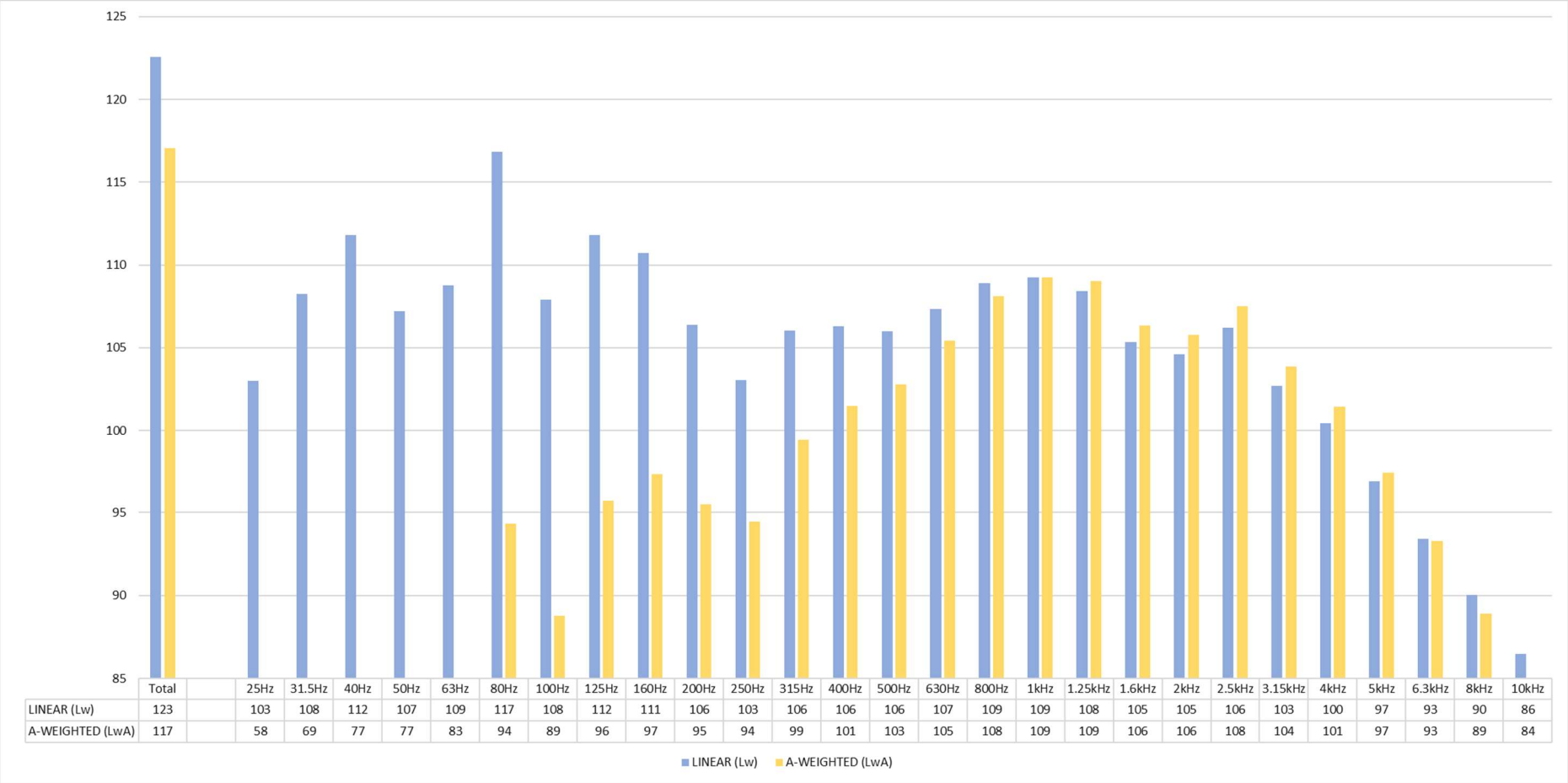
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	123		101	108	102	104	110	113	108	120	107	107	108	104	105	105	105	105	103	104	104	102	100	99	98	97	93	89	86
A-WEIGHTED (LwA)	114		57	69	67	74	84	90	89	104	93	96	99	98	100	102	103	104	103	105	105	103	102	100	99	97	93	88	84

Figure 41: WC043 Stationary



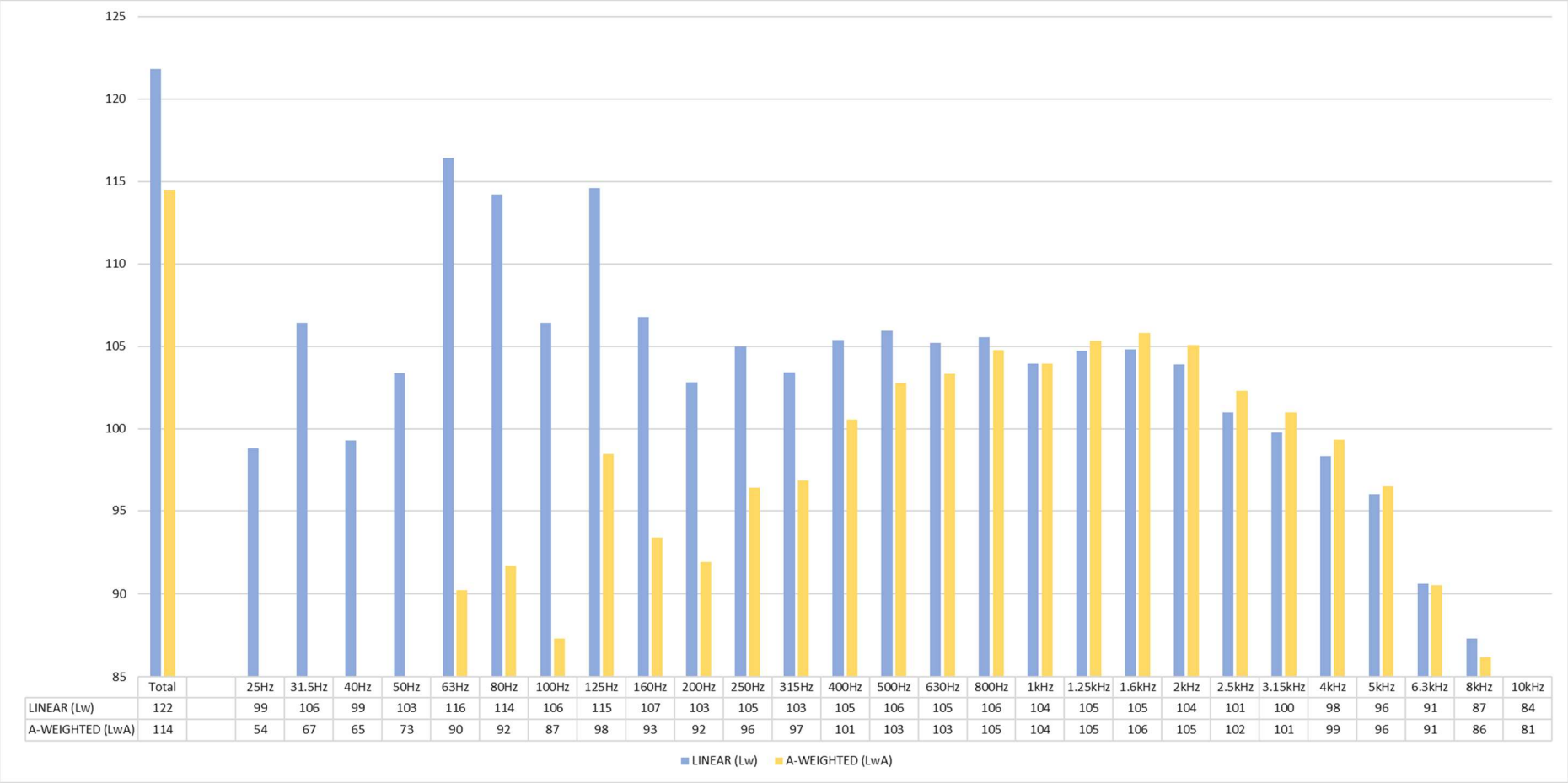
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	125		104	113	108	113	115	114	113	121	114	109	108	108	105	106	104	104	102	104	103	103	102	101	100	100	102	100	100
A-WEIGHTED (LwA)	115		59	74	74	82	89	91	93	105	100	98	100	101	101	103	103	103	102	104	104	104	103	102	101	101	102	99	97

Figure 42: WC043 Uphill



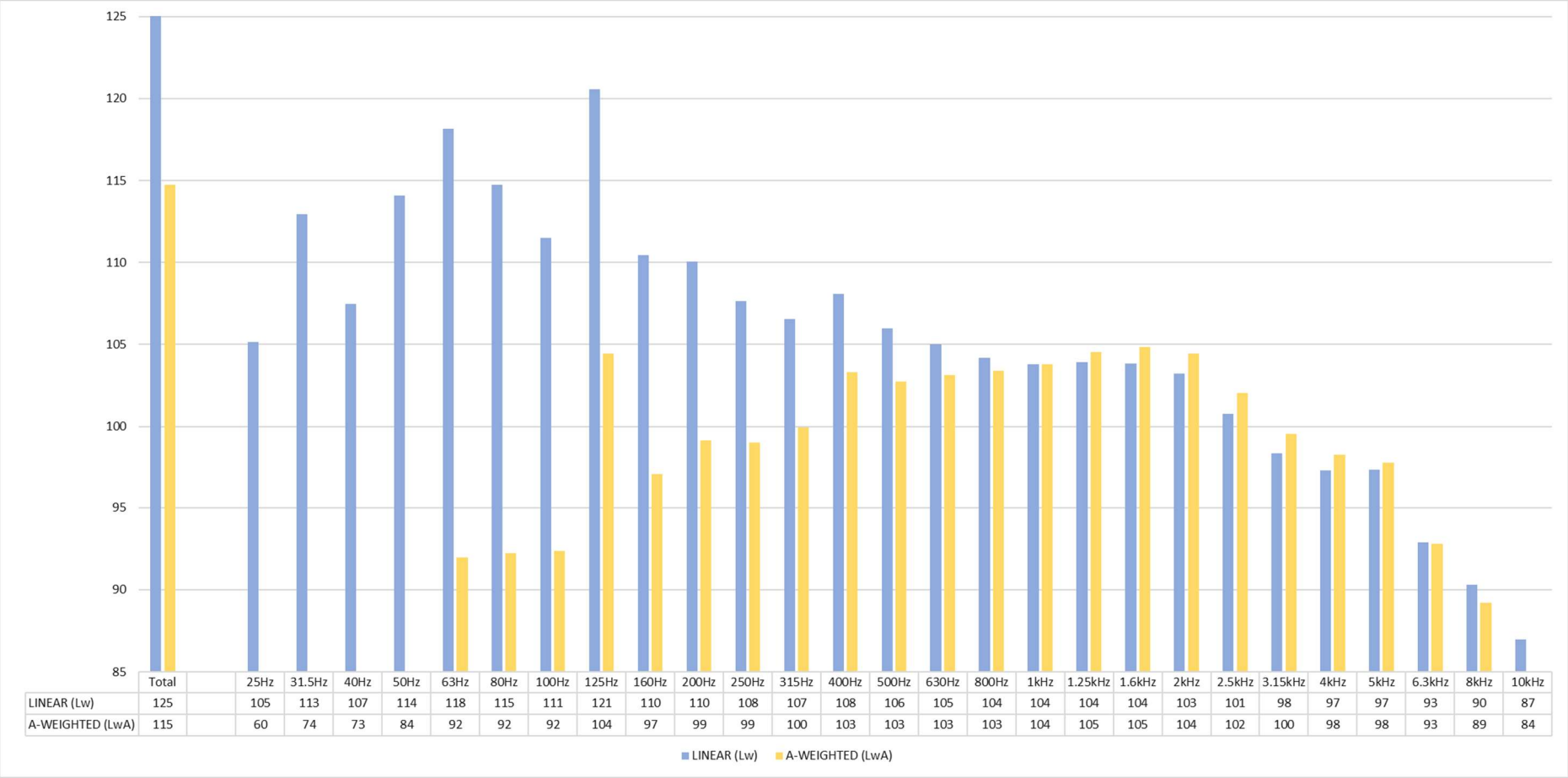
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	123	103	108	112	107	109	117	108	112	111	106	103	106	106	106	107	109	109	108	105	105	106	103	100	97	93	90	86
A-WEIGHTED (LwA)	117	58	69	77	77	83	94	89	96	97	95	94	99	101	103	105	108	109	109	106	106	108	104	101	97	93	89	84

Figure 43: WC043 Downhill



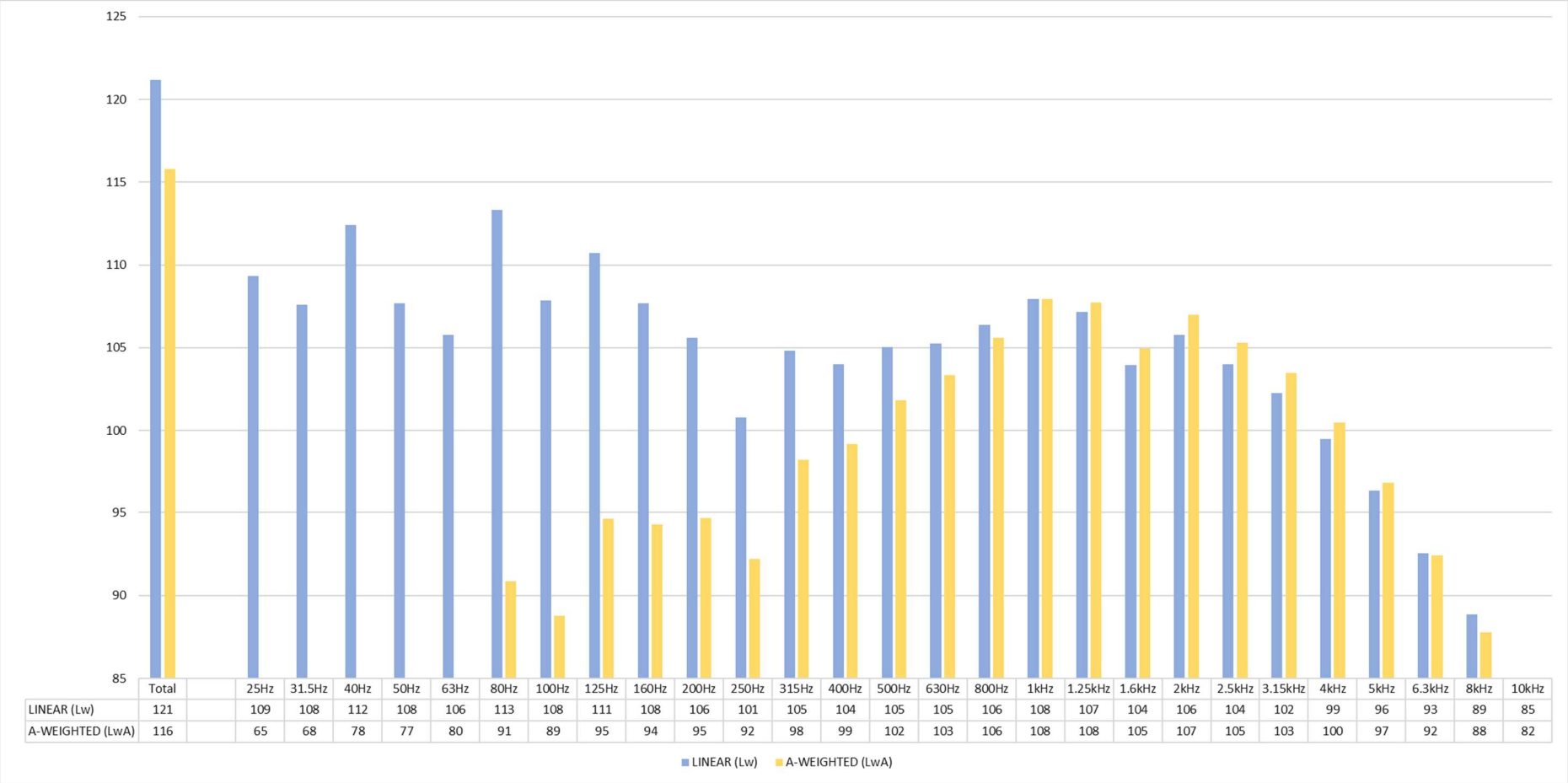
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		99	106	99	103	116	114	106	115	107	103	105	103	105	106	105	106	104	105	105	104	101	100	98	96	91	87	84
A-WEIGHTED (LwA)	114		54	67	65	73	90	92	87	98	93	92	96	97	101	103	103	105	104	105	106	105	102	101	99	96	91	86	81

Figure 44: WC044 Stationary



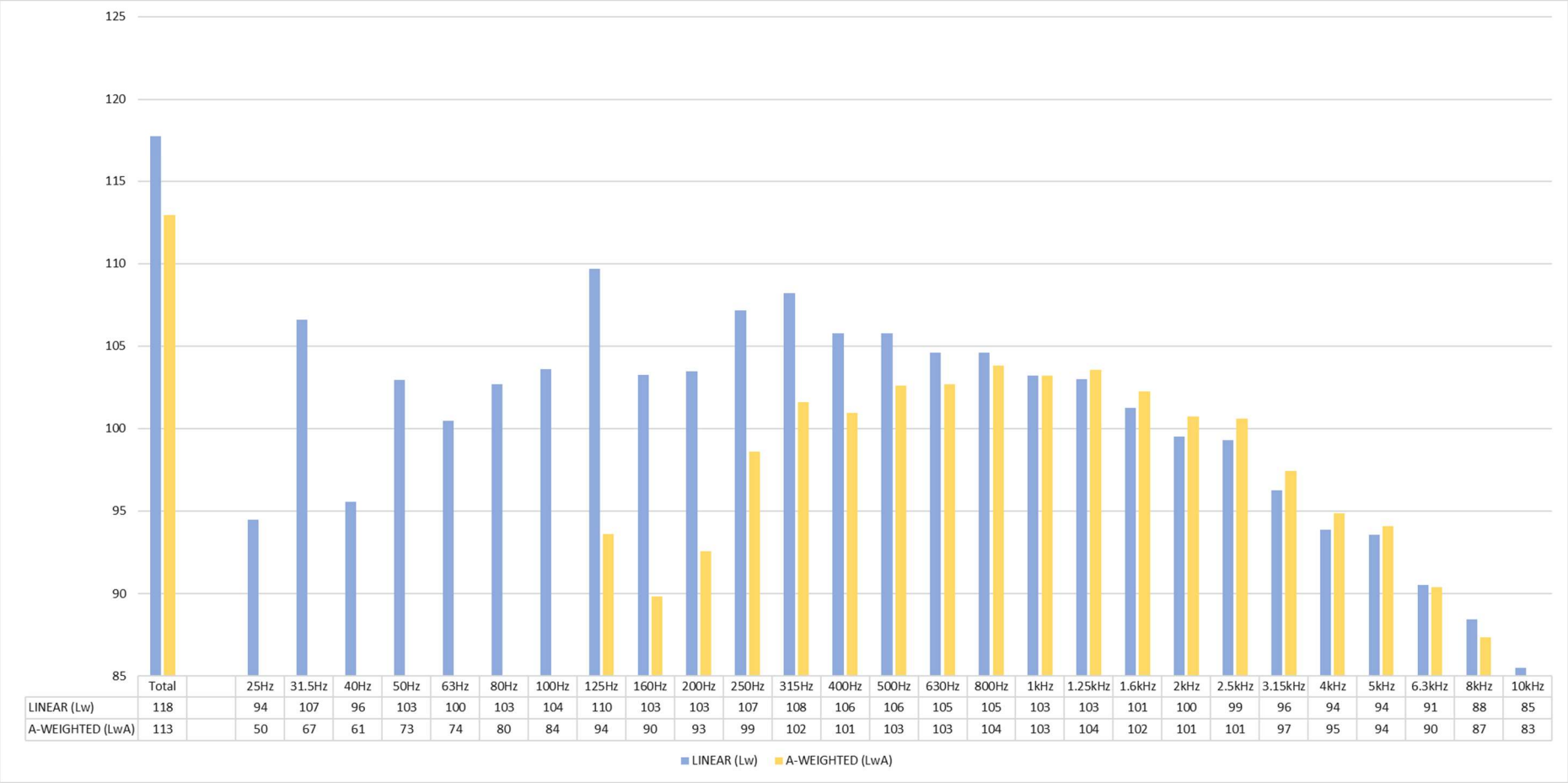
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	125		105	113	107	114	118	115	111	121	110	110	108	107	108	106	105	104	104	104	104	103	101	98	97	97	93	90	87
A-WEIGHTED (LwA)	115		60	74	73	84	92	92	92	104	97	99	99	100	103	103	103	103	104	105	105	104	102	100	98	98	93	89	84

Figure 45: WC044 Uphill



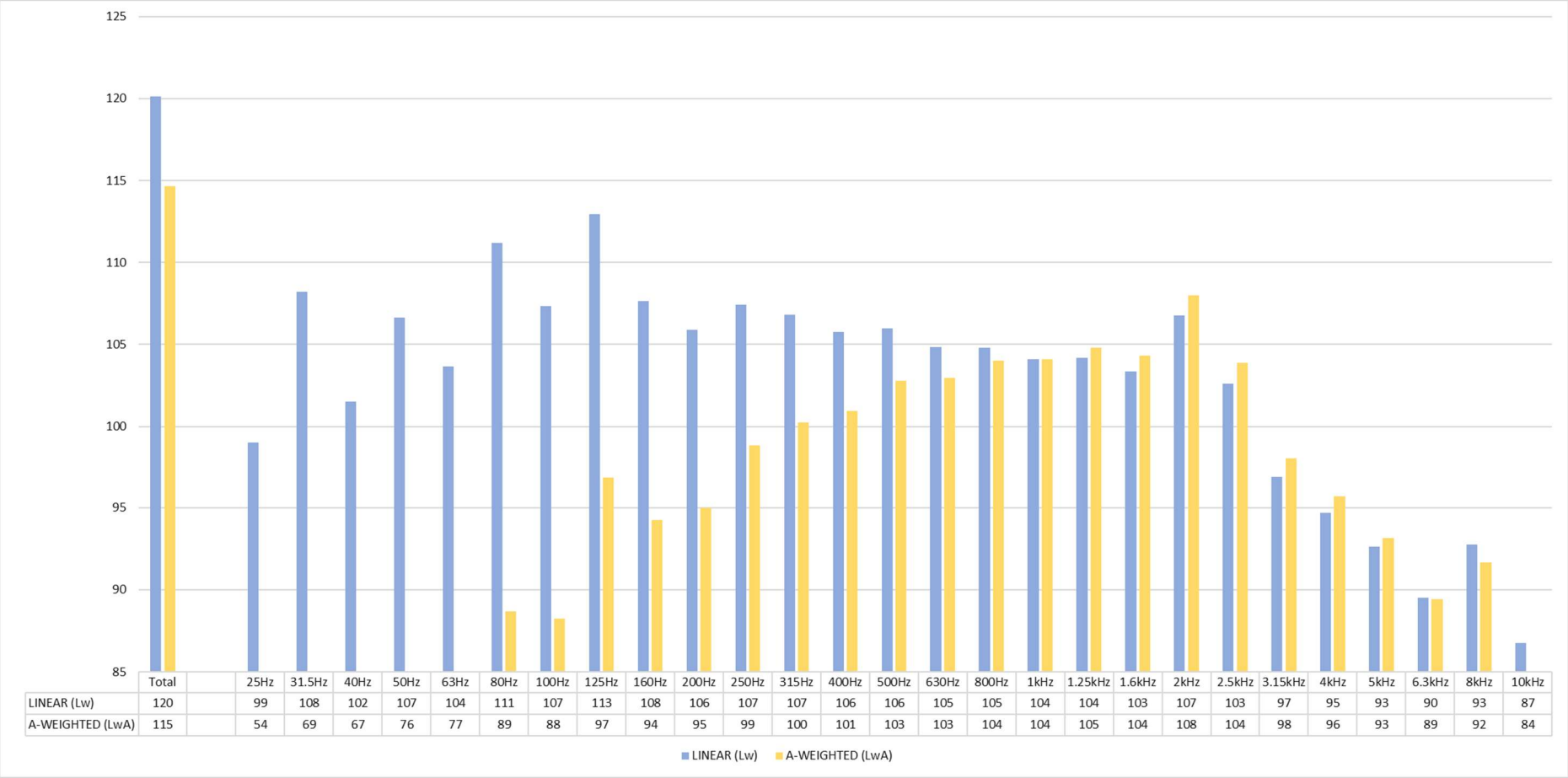
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		109	108	112	108	106	113	108	111	108	106	101	105	104	105	105	106	108	107	104	106	104	102	99	96	93	89	85
A-WEIGHTED (LwA)	116		65	68	78	77	80	91	89	95	94	95	92	98	99	102	103	106	108	108	105	107	105	103	100	97	92	88	82

Figure 46: WC044 Downhill



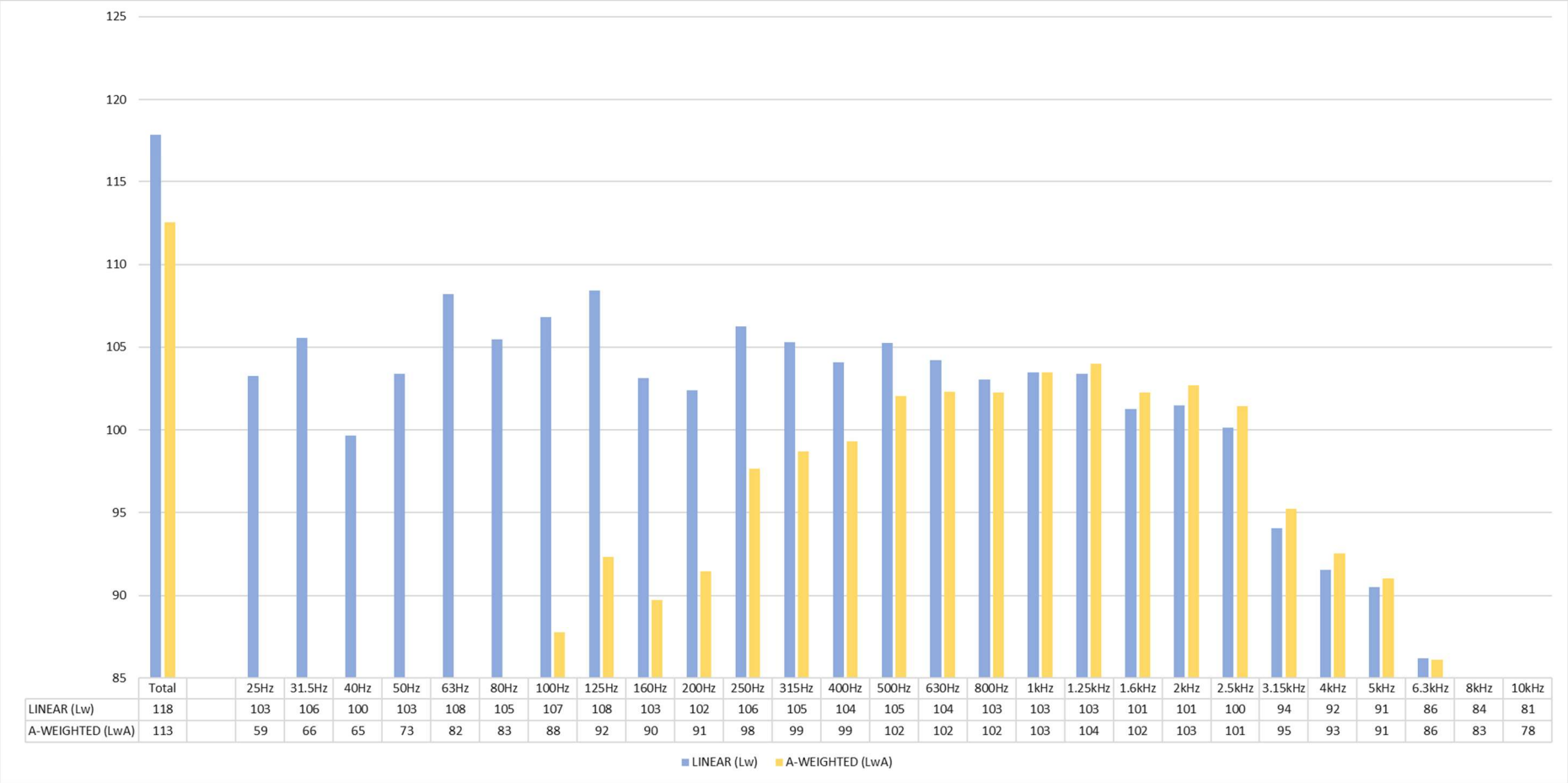
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118	94	107	96	103	100	103	104	110	103	103	107	108	106	106	105	105	103	103	101	100	99	96	94	94	91	88	85
A-WEIGHTED (LwA)	113	50	67	61	73	74	80	84	94	90	93	99	102	101	103	103	104	103	104	102	101	101	97	95	94	90	87	83

Figure 47: WC691 Stationary



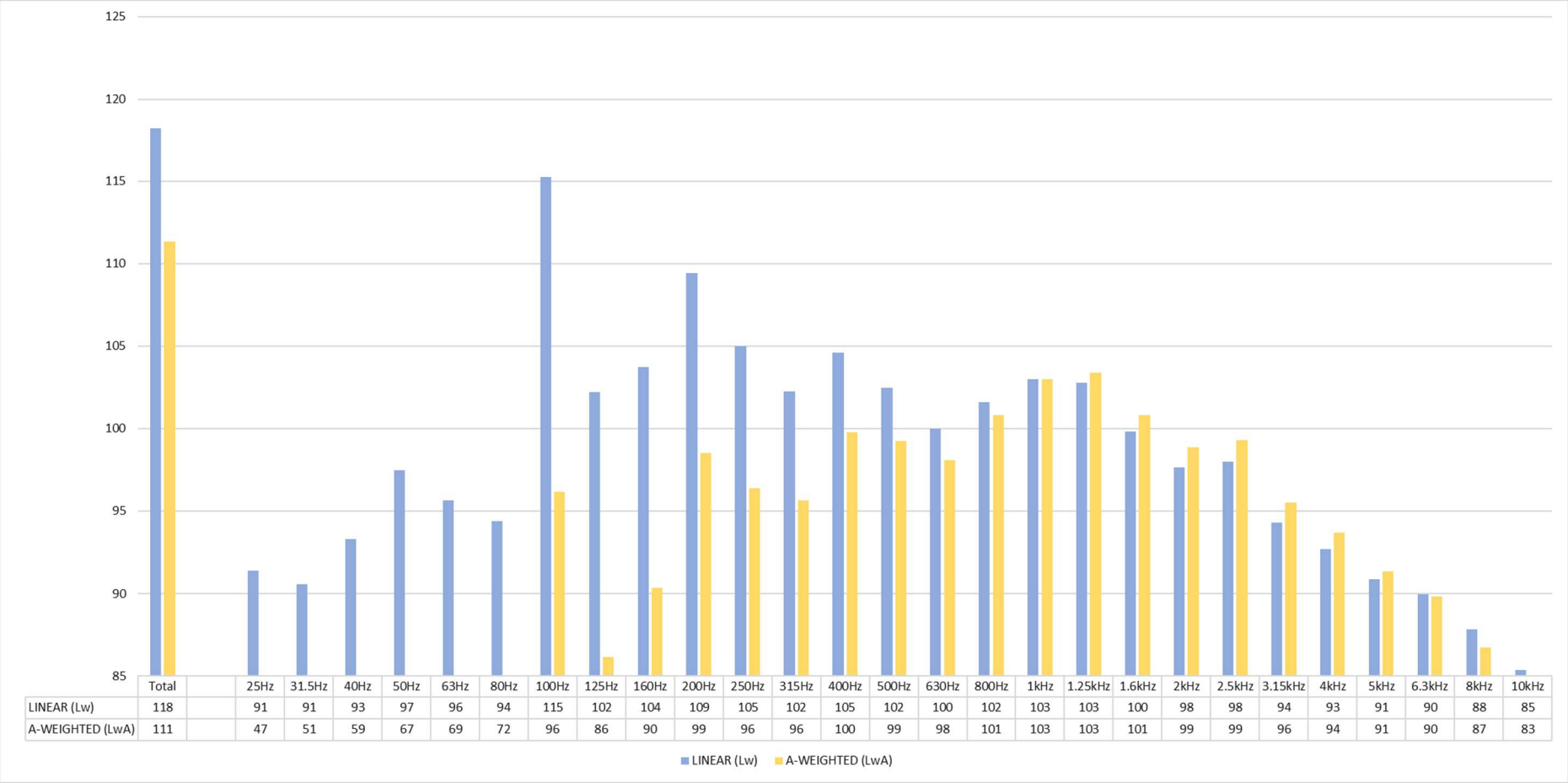
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		99	108	102	107	104	111	107	113	108	106	107	107	106	106	105	105	104	104	103	107	103	97	95	93	90	93	87
A-WEIGHTED (LwA)	115		54	69	67	76	77	89	88	97	94	95	99	100	101	103	103	104	104	105	104	108	104	98	96	93	89	92	84

Figure 48: WC691 Uphill



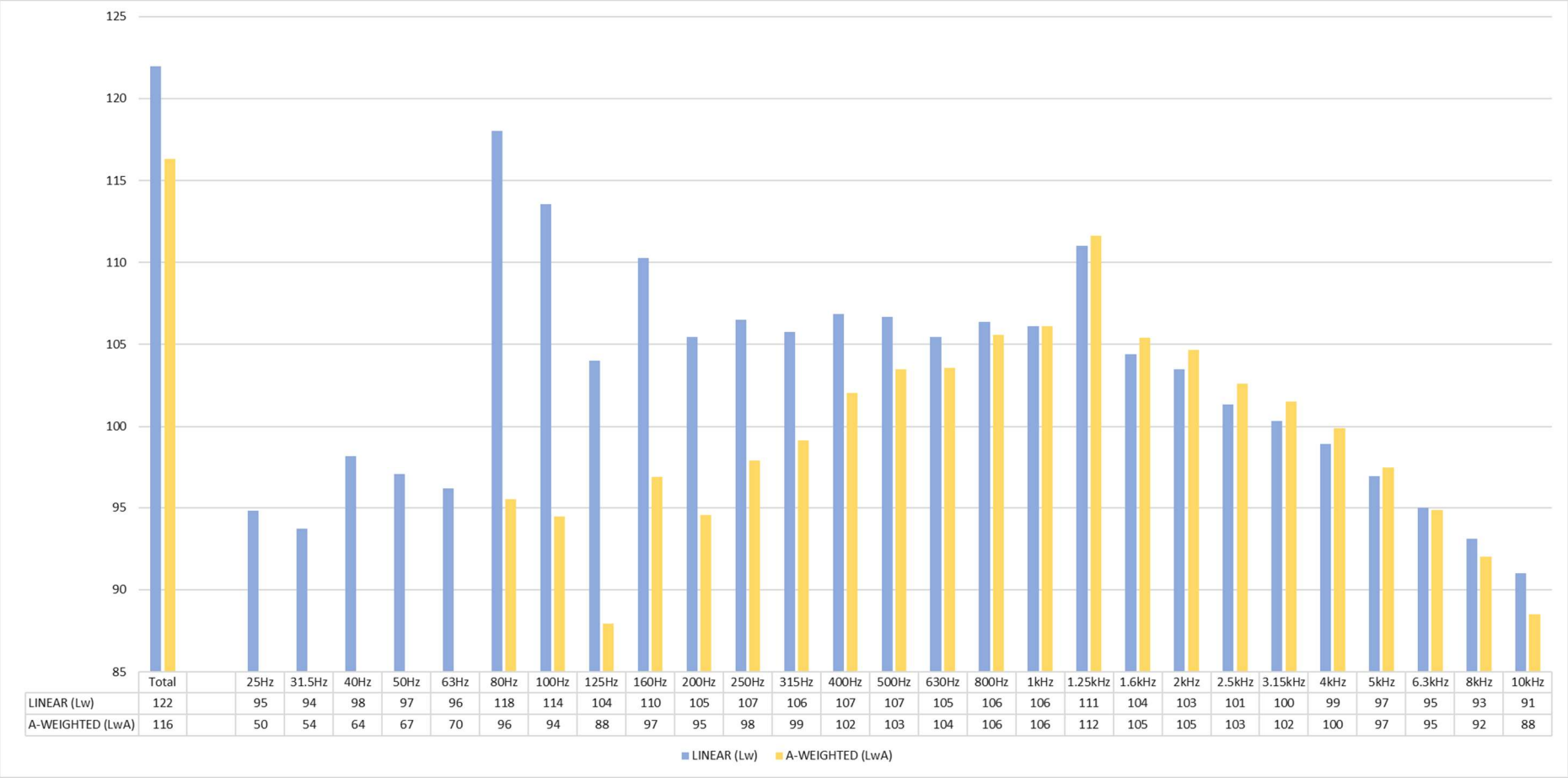
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118	103	106	100	103	108	105	107	108	103	102	106	105	104	105	104	103	103	103	101	101	100	94	92	91	86	84	81
A-WEIGHTED (LwA)	113	59	66	65	73	82	83	88	92	90	91	98	99	99	102	102	102	103	104	102	103	101	95	93	91	86	83	78

Figure 49: WC691 Downhill



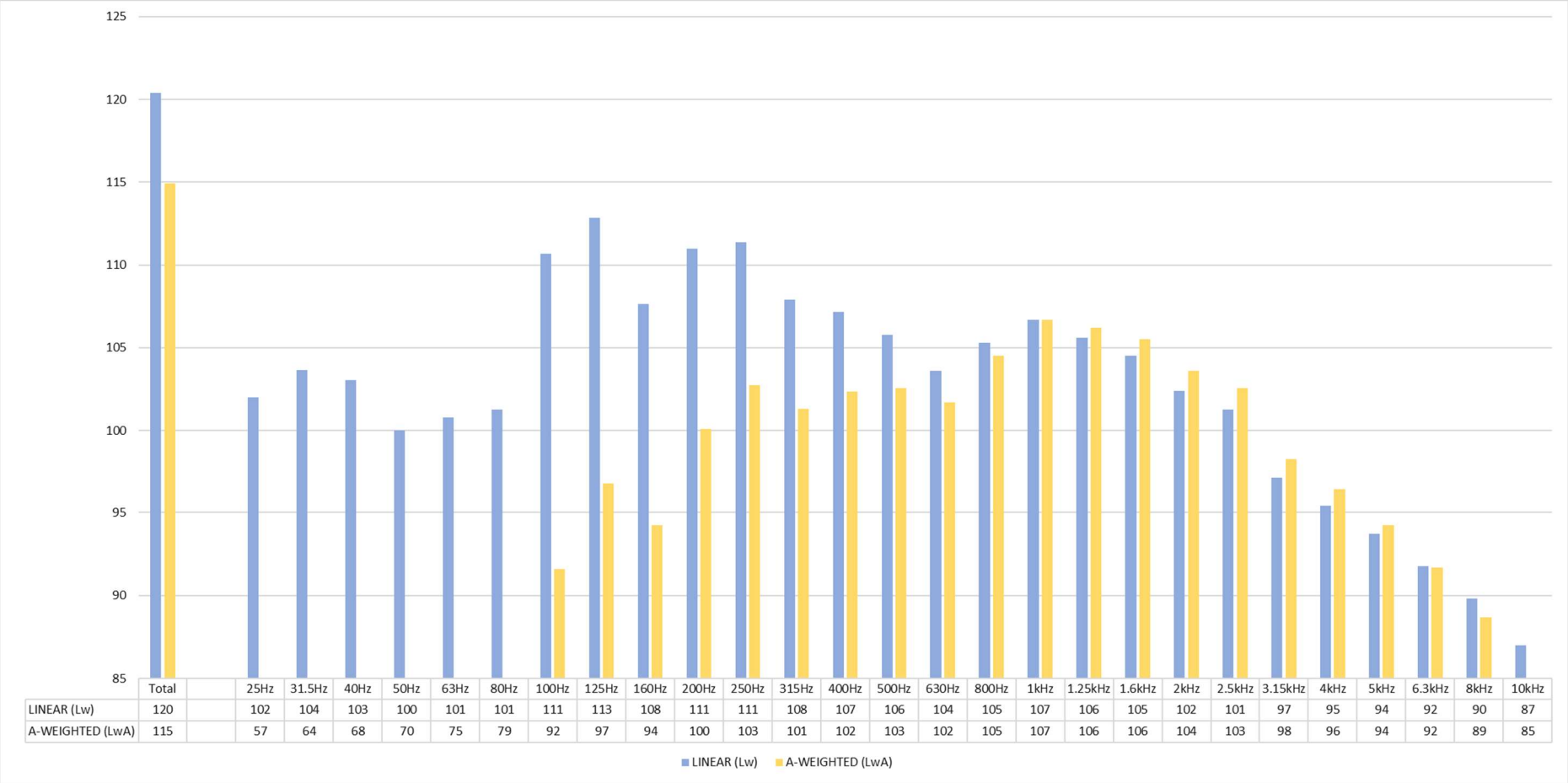
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118		91	91	93	97	96	94	115	102	104	109	105	102	105	102	100	102	103	103	100	98	98	94	93	91	90	88	85
A-WEIGHTED (LwA)	111		47	51	59	67	69	72	96	86	90	99	96	96	100	99	98	101	103	103	101	99	99	96	94	91	90	87	83

Figure 50: ST4090 Stationary



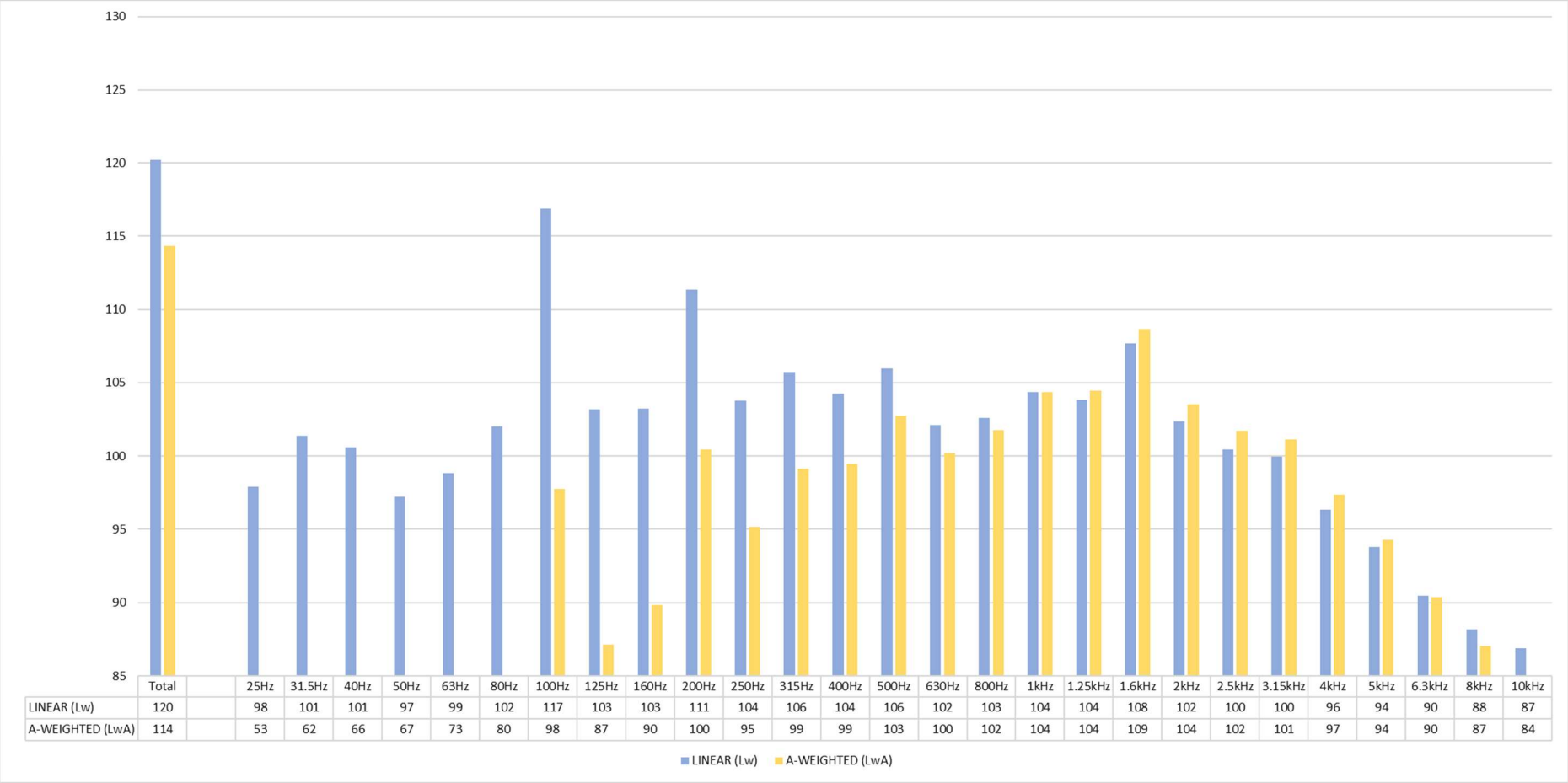
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		95	94	98	97	96	118	114	104	110	105	107	106	107	107	105	106	106	111	104	103	101	100	99	97	95	93	91
A-WEIGHTED (LwA)	116		50	54	64	67	70	96	94	88	97	95	98	99	102	103	104	106	106	112	105	105	103	102	100	97	95	92	88

Figure 51: ST4090 Uphill



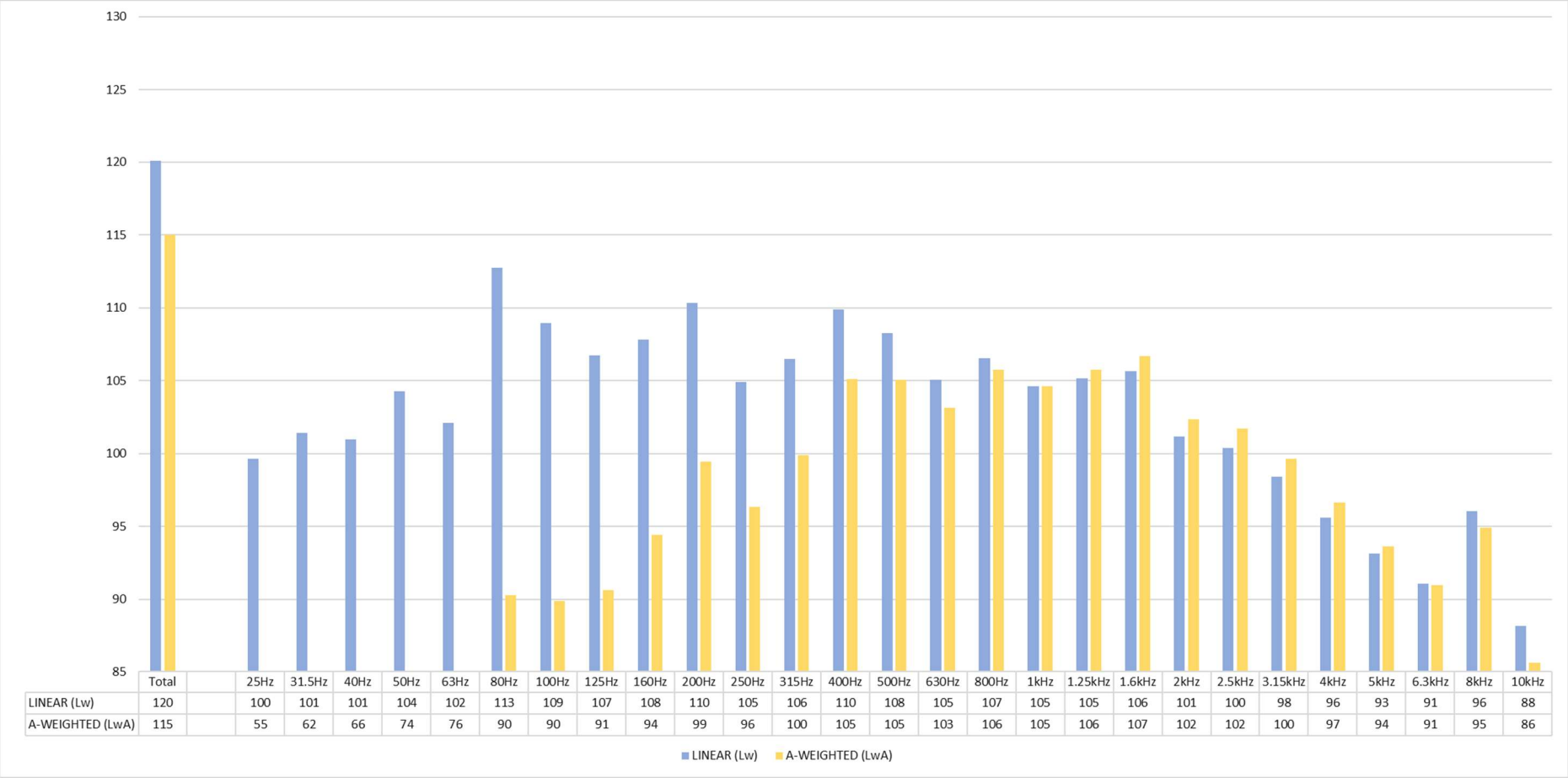
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		102	104	103	100	101	101	111	113	108	111	111	108	107	106	104	105	107	106	105	102	101	97	95	94	92	90	87
A-WEIGHTED (LwA)	115		57	64	68	70	75	79	92	97	94	100	103	101	102	103	102	105	107	106	106	104	103	98	96	94	92	89	85

Figure 52: ST4090 Downhill



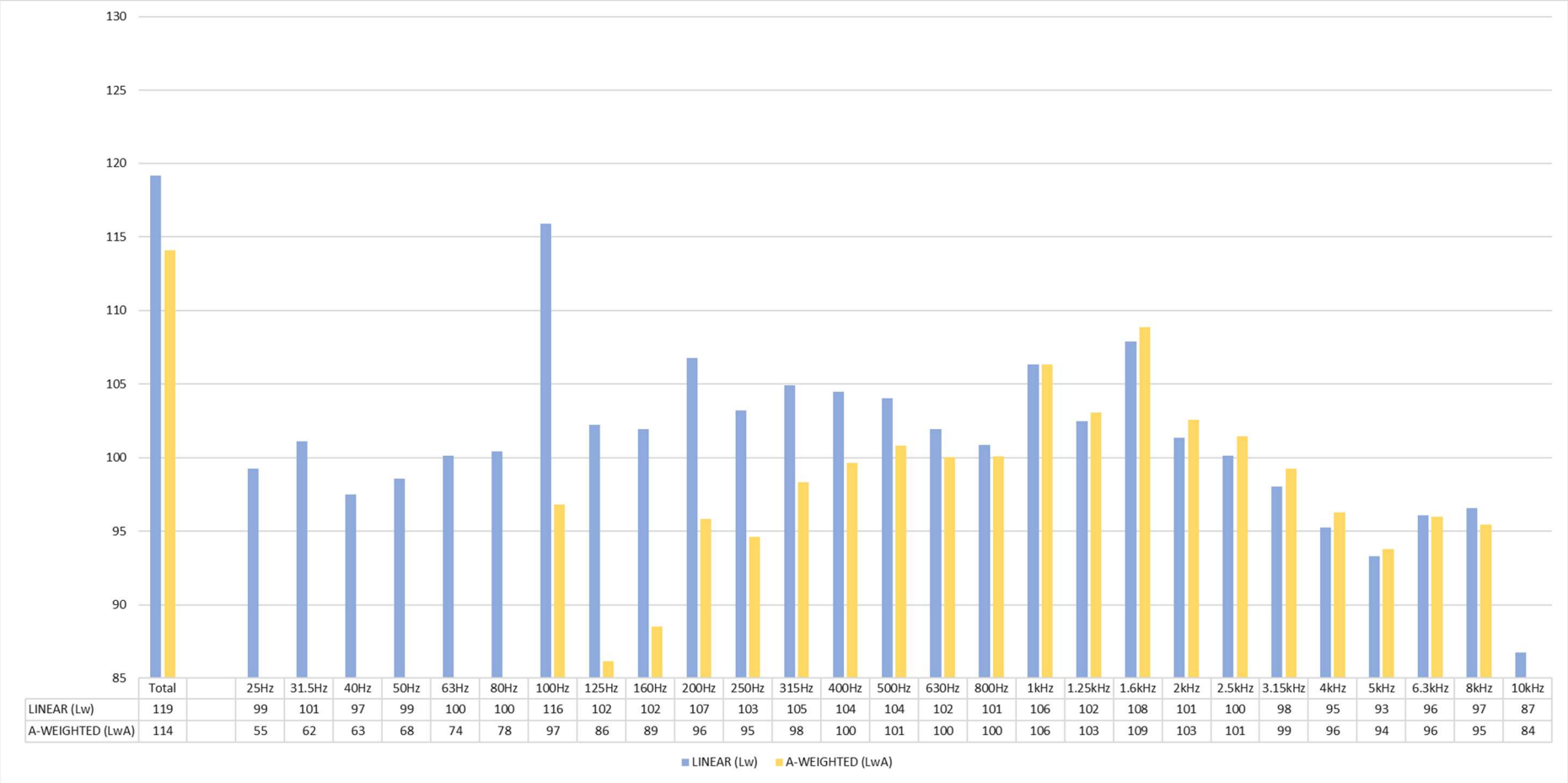
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		98	101	101	97	99	102	117	103	103	111	104	106	104	106	102	103	104	104	108	102	100	100	96	94	90	88	87
A-WEIGHTED (LwA)	114		53	62	66	67	73	80	98	87	90	100	95	99	99	103	100	102	104	104	109	104	102	101	97	94	90	87	84

Figure 53: DT178 Stationary



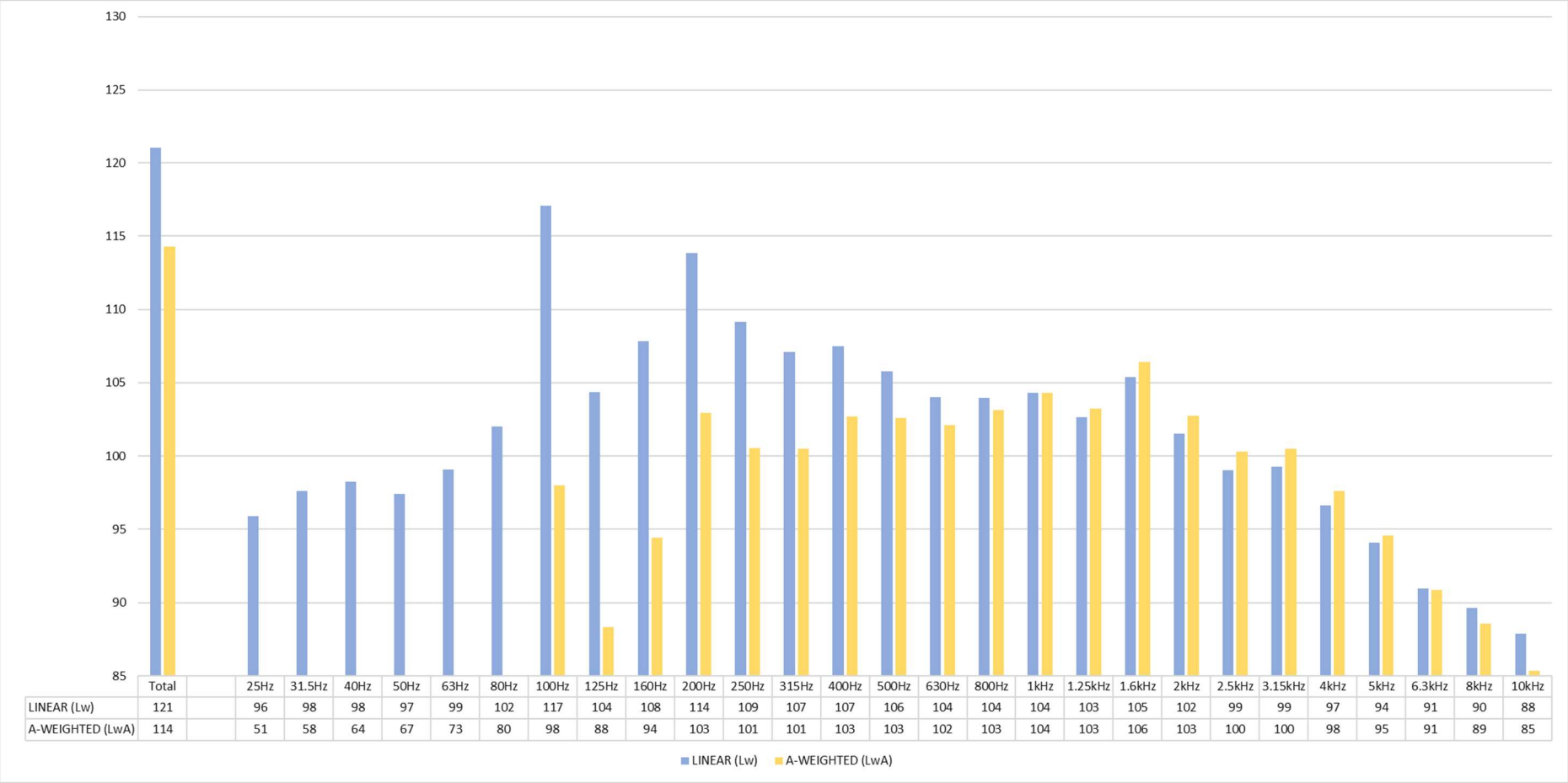
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	100	101	101	104	102	113	109	107	108	110	105	106	110	108	105	107	105	105	106	101	100	98	96	93	91	96	88
A-WEIGHTED (LwA)	115	55	62	66	74	76	90	90	91	94	99	96	100	105	105	103	106	105	106	107	102	102	100	97	94	91	95	86

Figure 54: DT178 Uphill



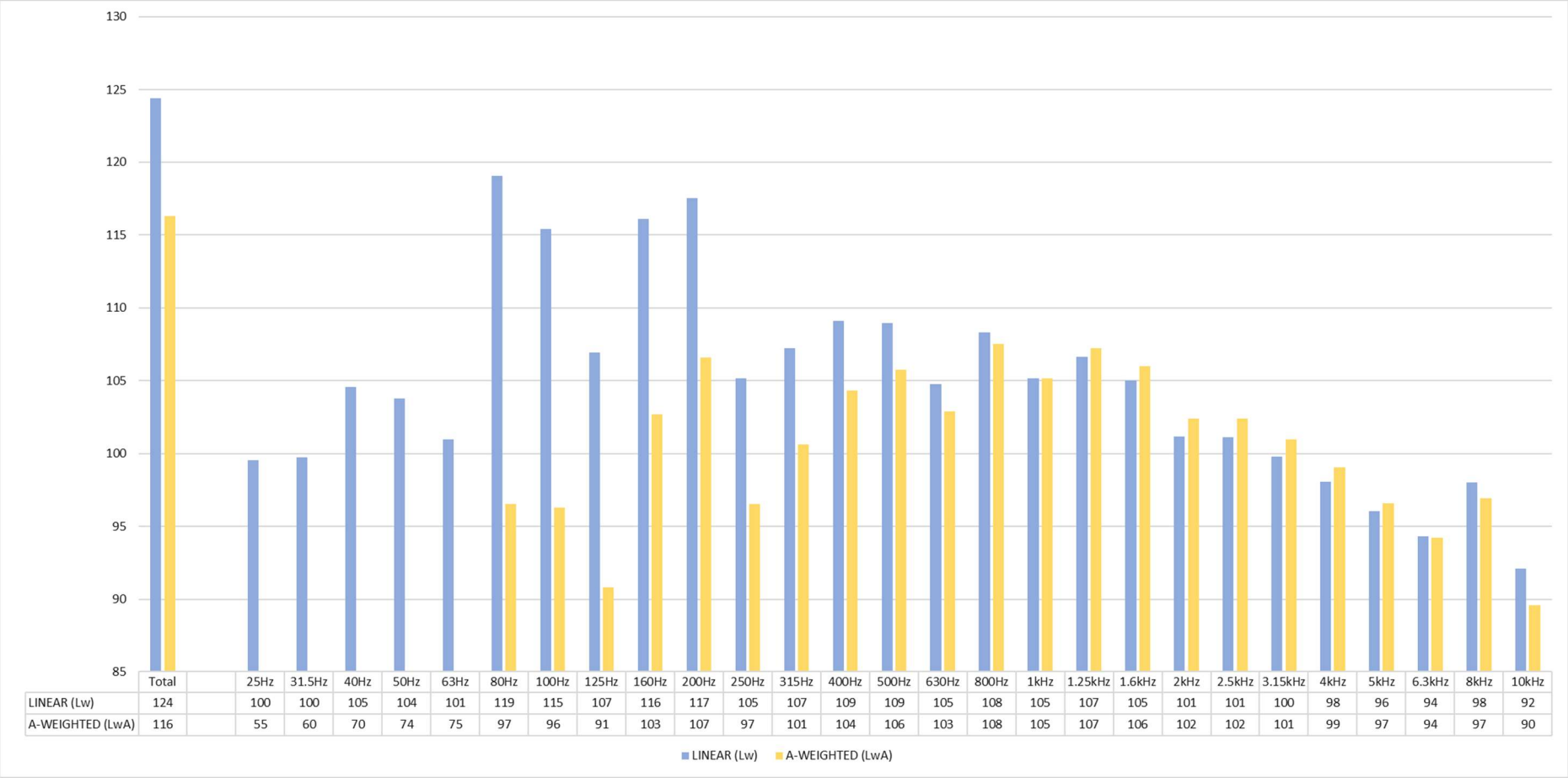
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		99	101	97	99	100	100	116	102	102	107	103	105	104	104	102	101	106	102	108	101	100	98	95	93	96	97	87
A-WEIGHTED (LwA)	114		55	62	63	68	74	78	97	86	89	96	95	98	100	101	100	100	106	103	109	103	101	99	96	94	96	95	84

Figure 55: DT178 Downhill



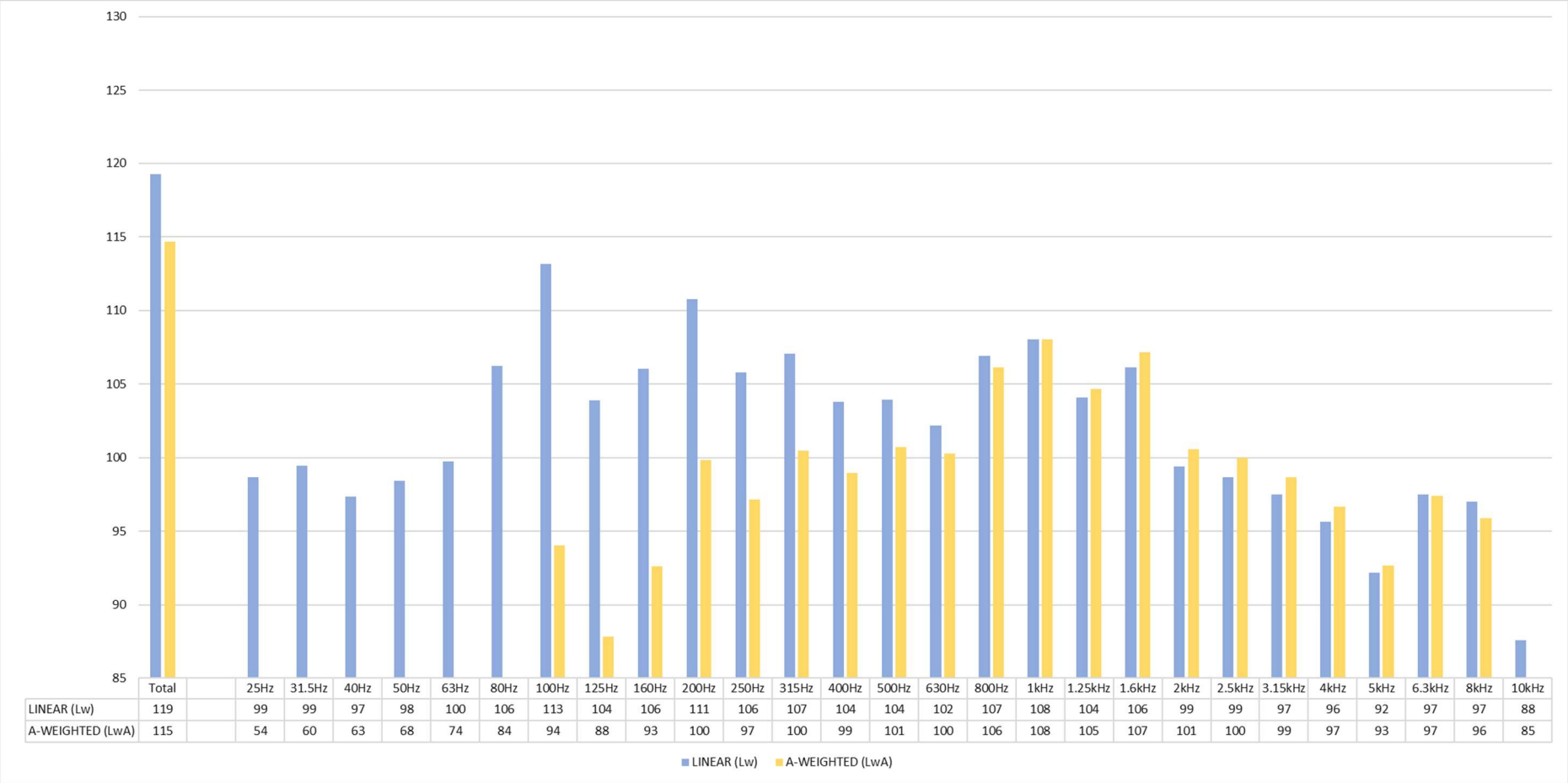
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121	96	98	98	97	99	102	117	104	108	114	109	107	107	106	104	104	104	103	105	102	99	99	97	94	91	90	88
A-WEIGHTED (LwA)	114	51	58	64	67	73	80	98	88	94	103	101	101	103	103	102	103	104	103	106	103	100	100	98	95	91	89	85

Figure 56: DT180 Stationary



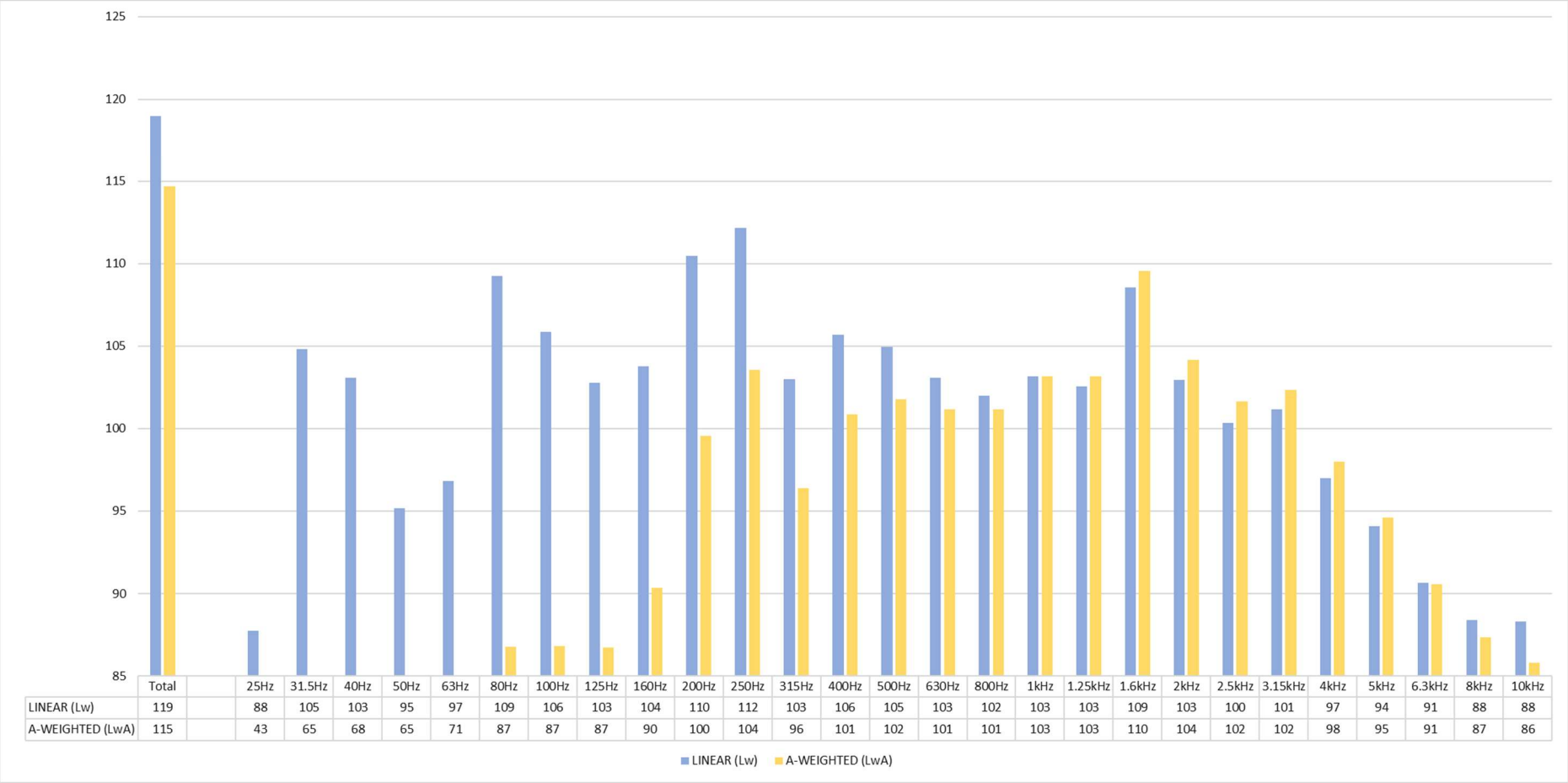
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	124		100	100	105	104	101	119	115	107	116	117	105	107	109	109	105	108	105	107	105	101	101	100	98	96	94	98	92
A-WEIGHTED (LwA)	116		55	60	70	74	75	97	96	91	103	107	97	101	104	106	103	108	105	107	106	102	102	101	99	97	94	97	90

Figure 57: DT180 Uphill



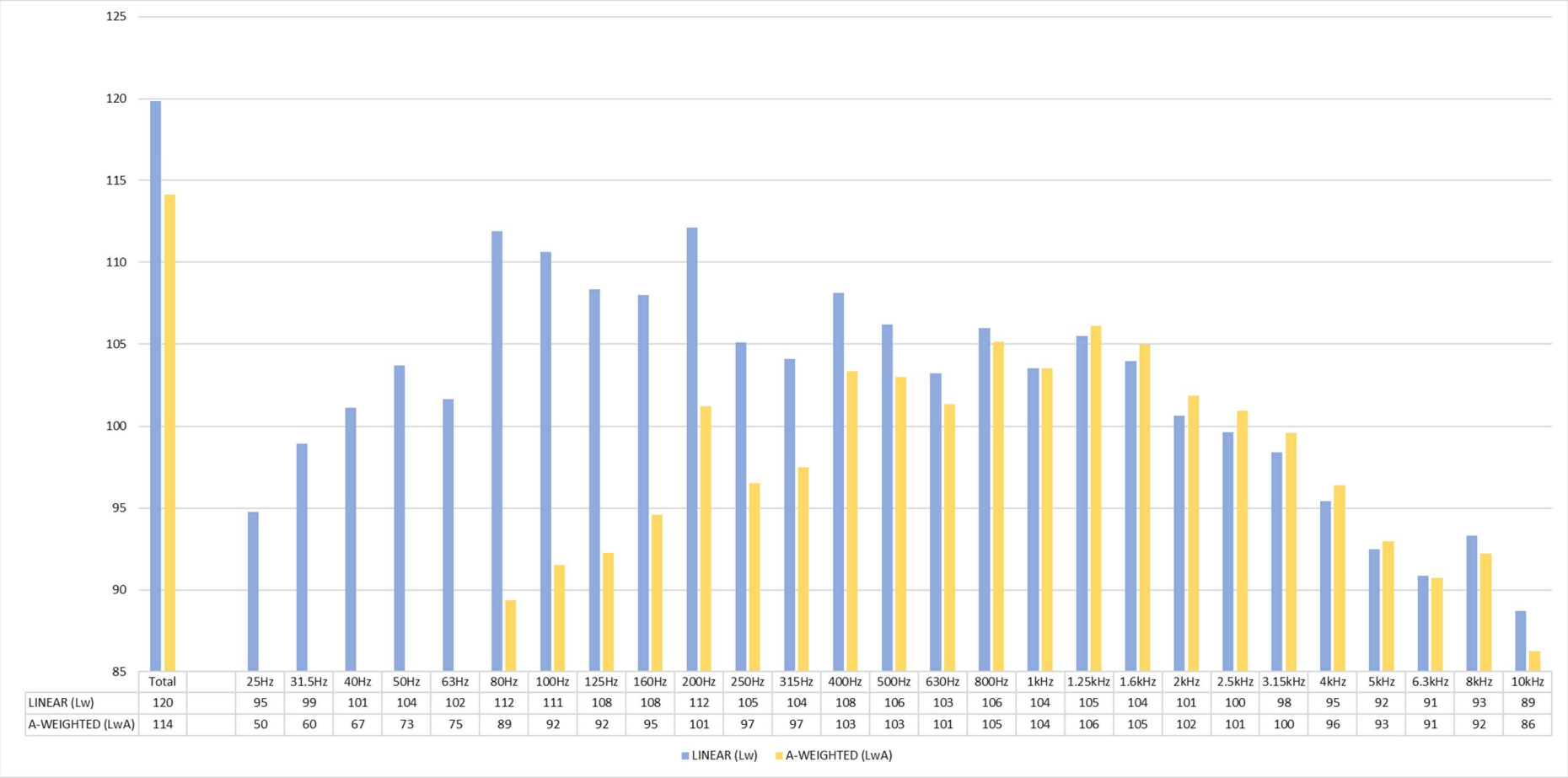
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		99	99	97	98	100	106	113	104	106	111	106	107	104	104	102	107	108	104	106	99	99	97	96	92	97	97	88
A-WEIGHTED (LwA)	115		54	60	63	68	74	84	94	88	93	100	97	100	99	101	100	106	108	105	107	101	100	99	97	93	97	96	85

Figure 58: DT180 Downhill



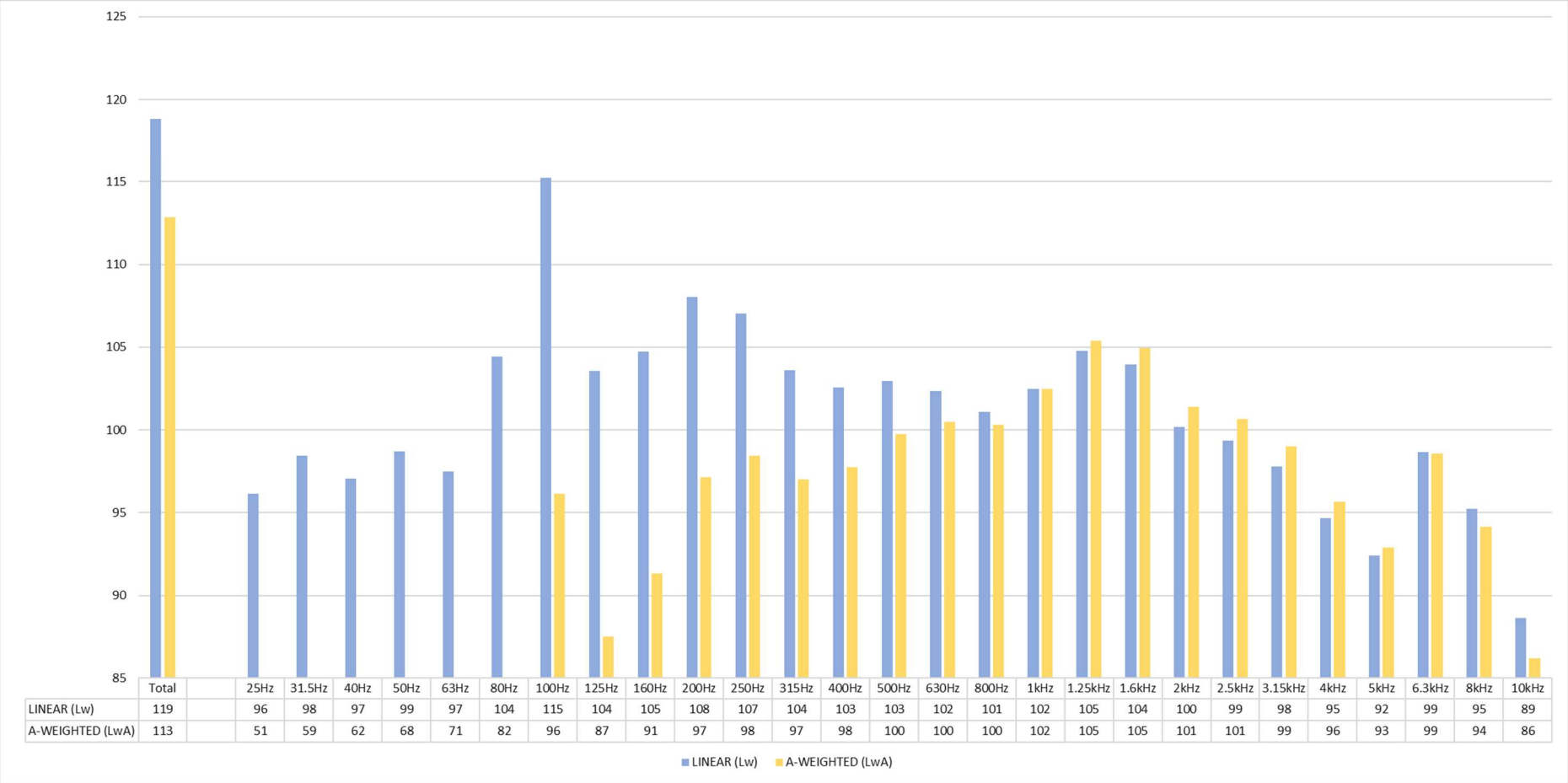
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		88	105	103	95	97	109	106	103	104	110	112	103	106	105	103	102	103	103	109	103	100	101	97	94	91	88	88
A-WEIGHTED (LwA)	115		43	65	68	65	71	87	87	87	90	100	104	96	101	102	101	101	103	103	110	104	102	102	98	95	91	87	86

Figure 59: DT181 Stationary



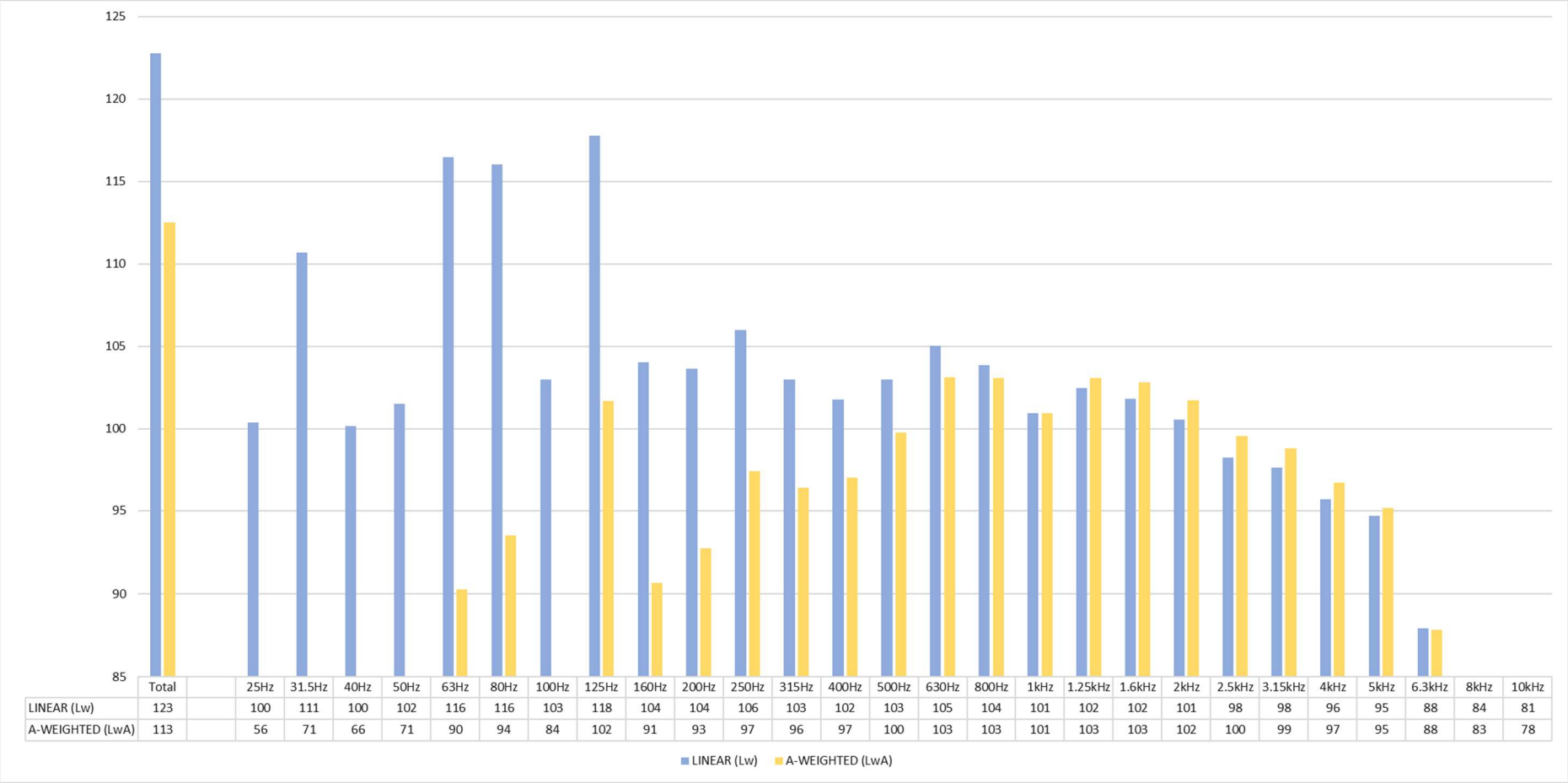
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		95	99	101	104	102	112	111	108	108	112	105	104	108	106	103	106	104	105	104	101	100	98	95	92	91	93	89
A-WEIGHTED (LwA)	114		50	60	67	73	75	89	92	92	95	101	97	97	103	103	101	105	104	106	105	102	101	100	96	93	91	92	86

Figure 60: DT181 Uphill



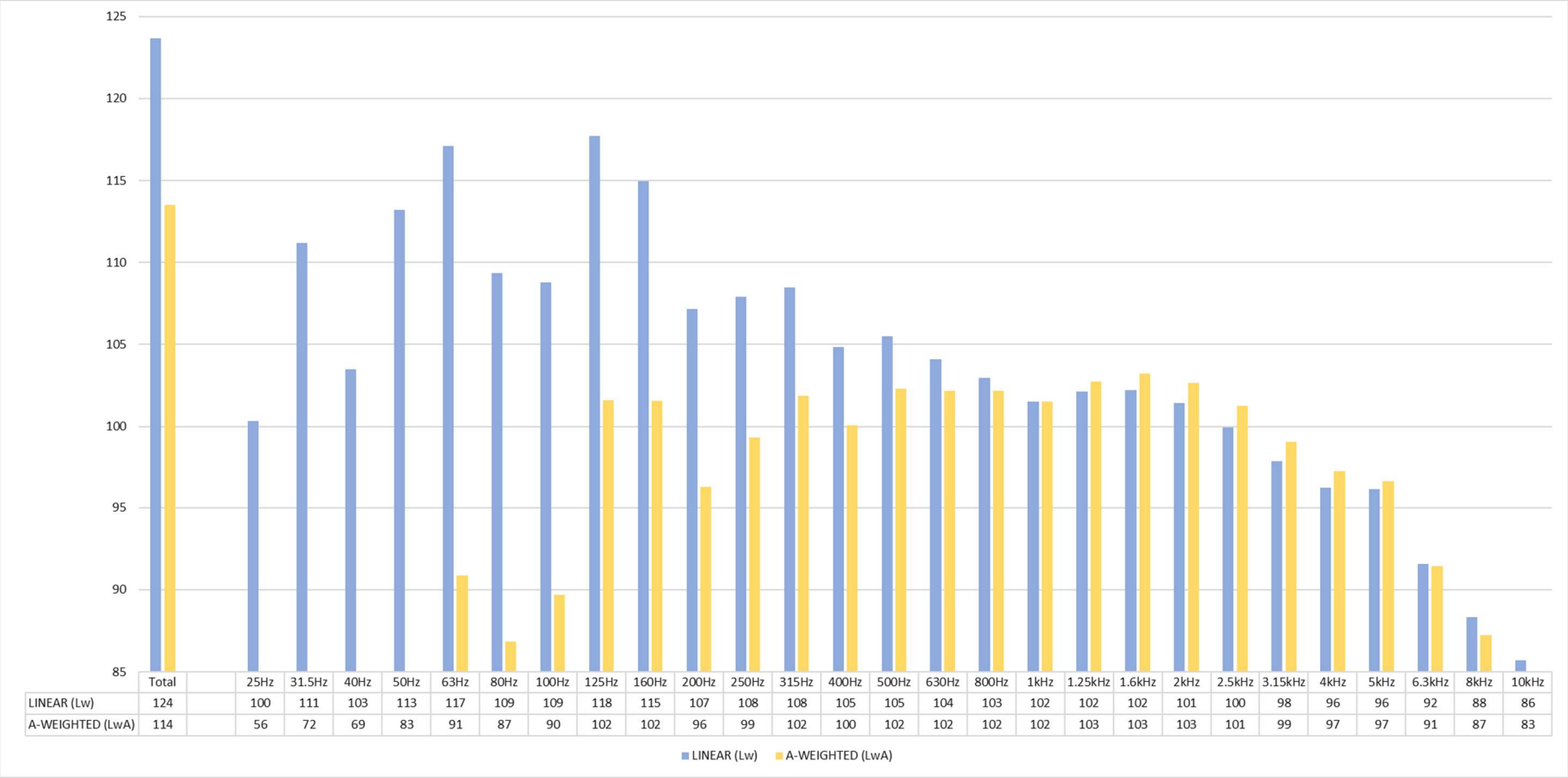
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119	96	98	97	99	97	104	115	104	105	108	107	104	103	103	102	101	102	105	104	100	99	98	95	92	99	95	89
A-WEIGHTED (LwA)	113	51	59	62	68	71	82	96	87	91	97	98	97	98	100	100	100	102	105	105	101	101	99	96	93	99	94	86

Figure 61: DT181 Downhill



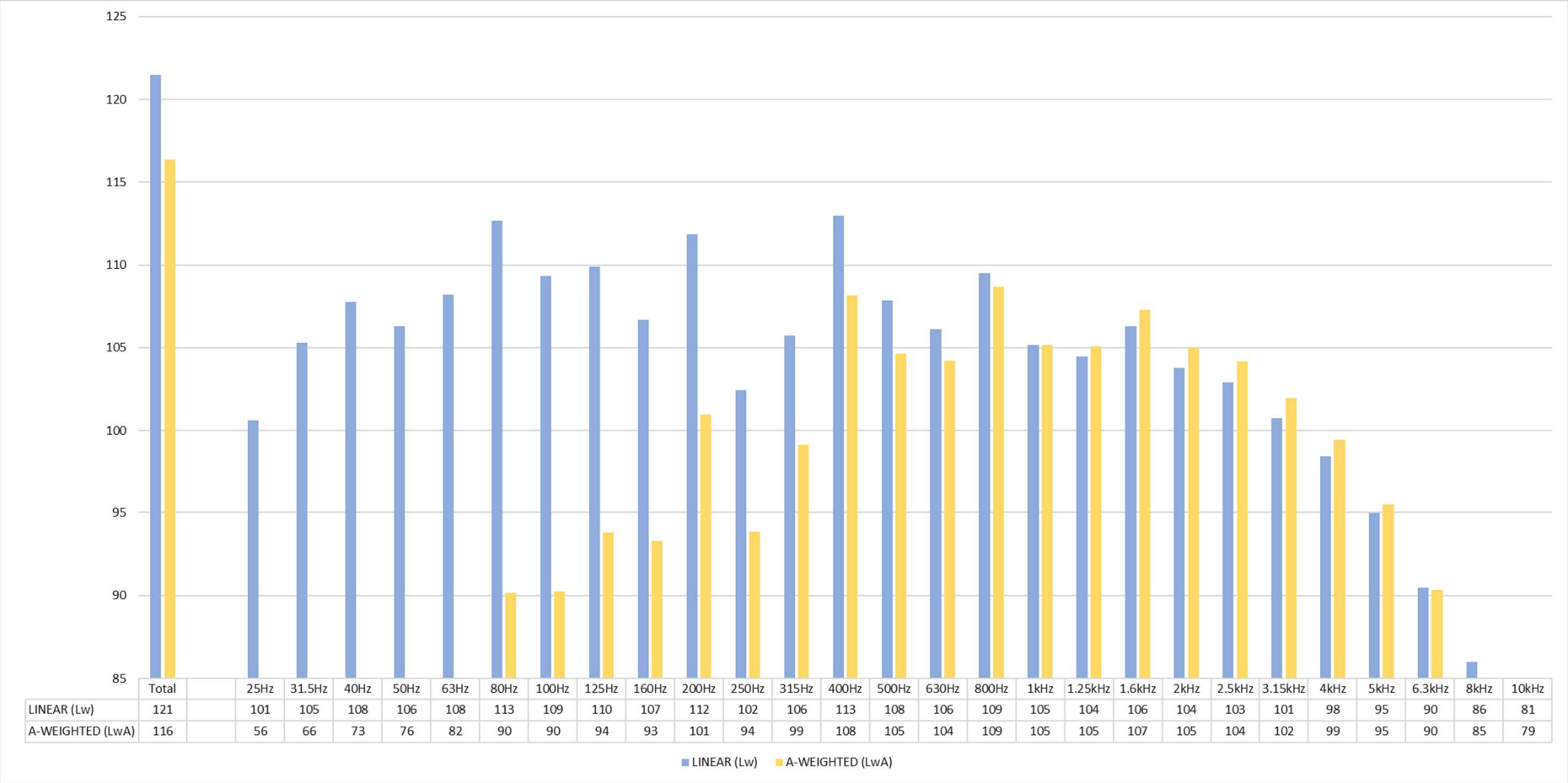
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	123		100	111	100	102	116	116	103	118	104	104	106	103	102	103	105	104	101	102	102	101	98	98	96	95	88	84	81
A-WEIGHTED (LwA)	113		56	71	66	71	90	94	84	102	91	93	97	96	97	100	103	103	101	103	103	102	100	99	97	95	88	83	78

Figure 62: DT268 Stationary



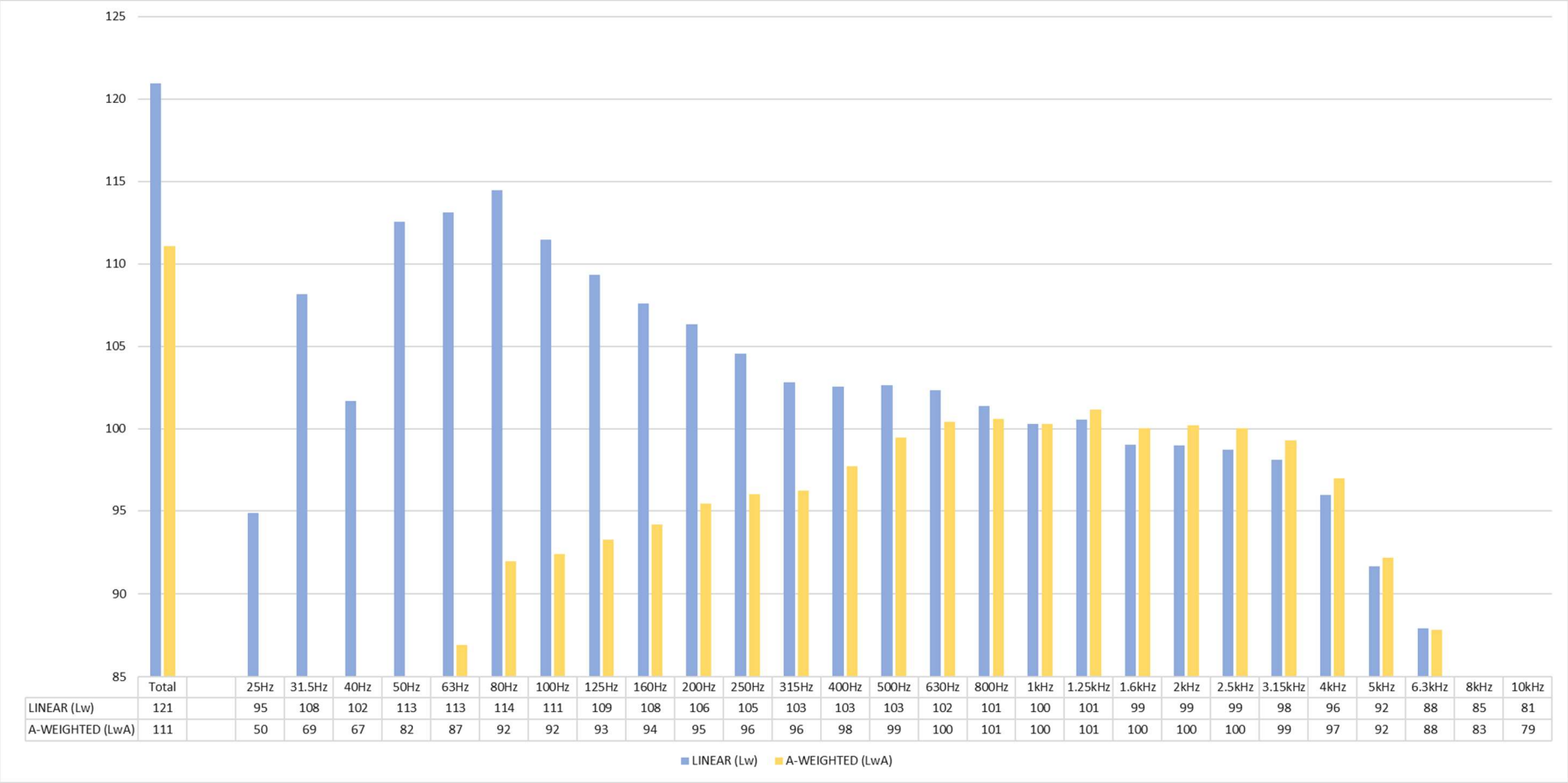
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	124		100	111	103	113	117	109	109	118	115	107	108	108	105	105	104	103	102	102	102	101	100	98	96	96	92	88	86
A-WEIGHTED (LwA)	114		56	72	69	83	91	87	90	102	102	96	99	102	100	102	102	102	102	103	103	103	101	99	97	97	91	87	83

Figure 63: DT268 Uphill



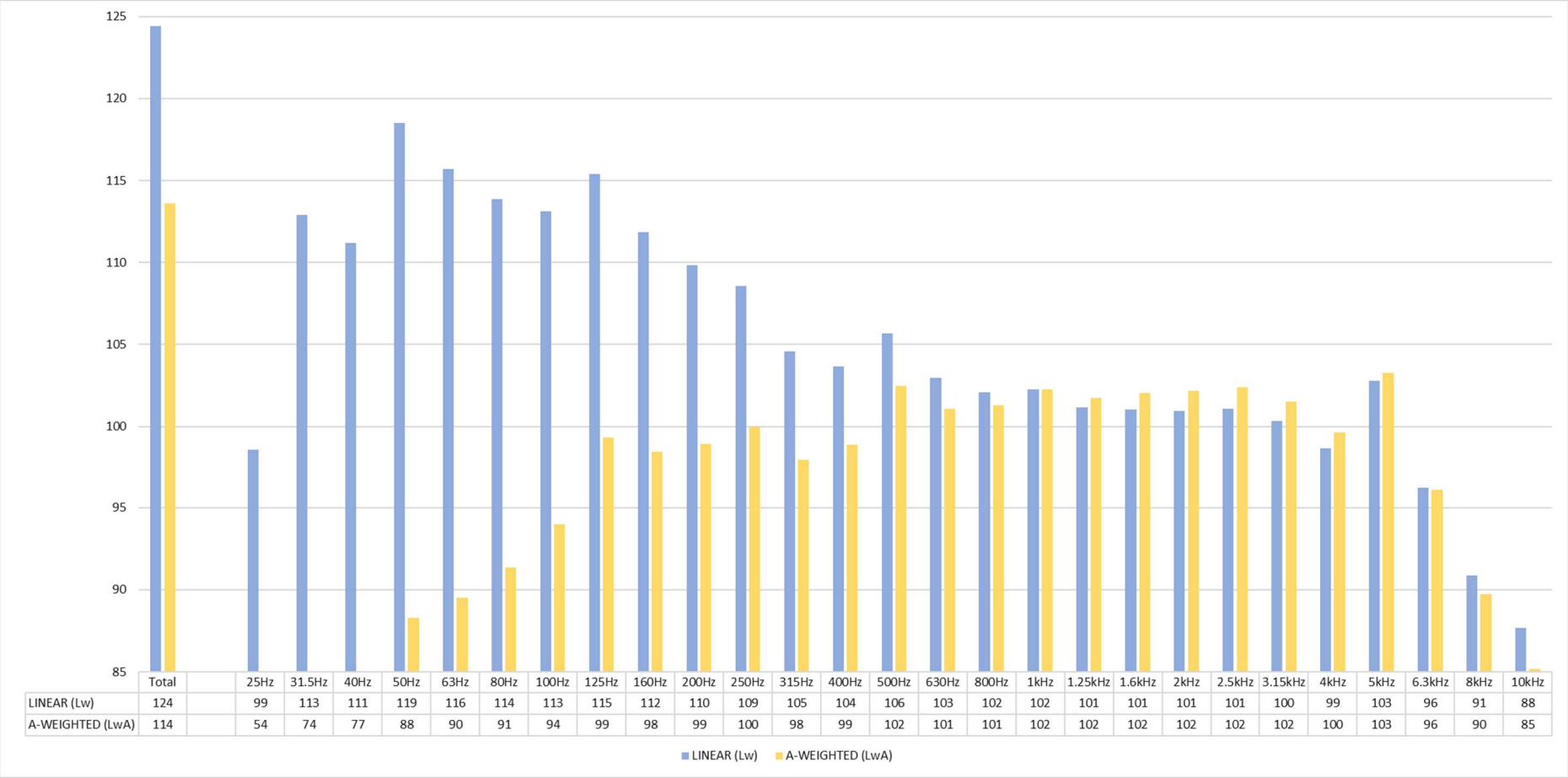
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		101	105	108	106	108	113	109	110	107	112	102	106	113	108	106	109	105	104	106	104	103	101	98	95	90	86	81
A-WEIGHTED (LwA)	116		56	66	73	76	82	90	90	94	93	101	94	99	108	105	104	109	105	105	107	105	104	102	99	95	90	85	79

Figure 64: DT268 Downhill



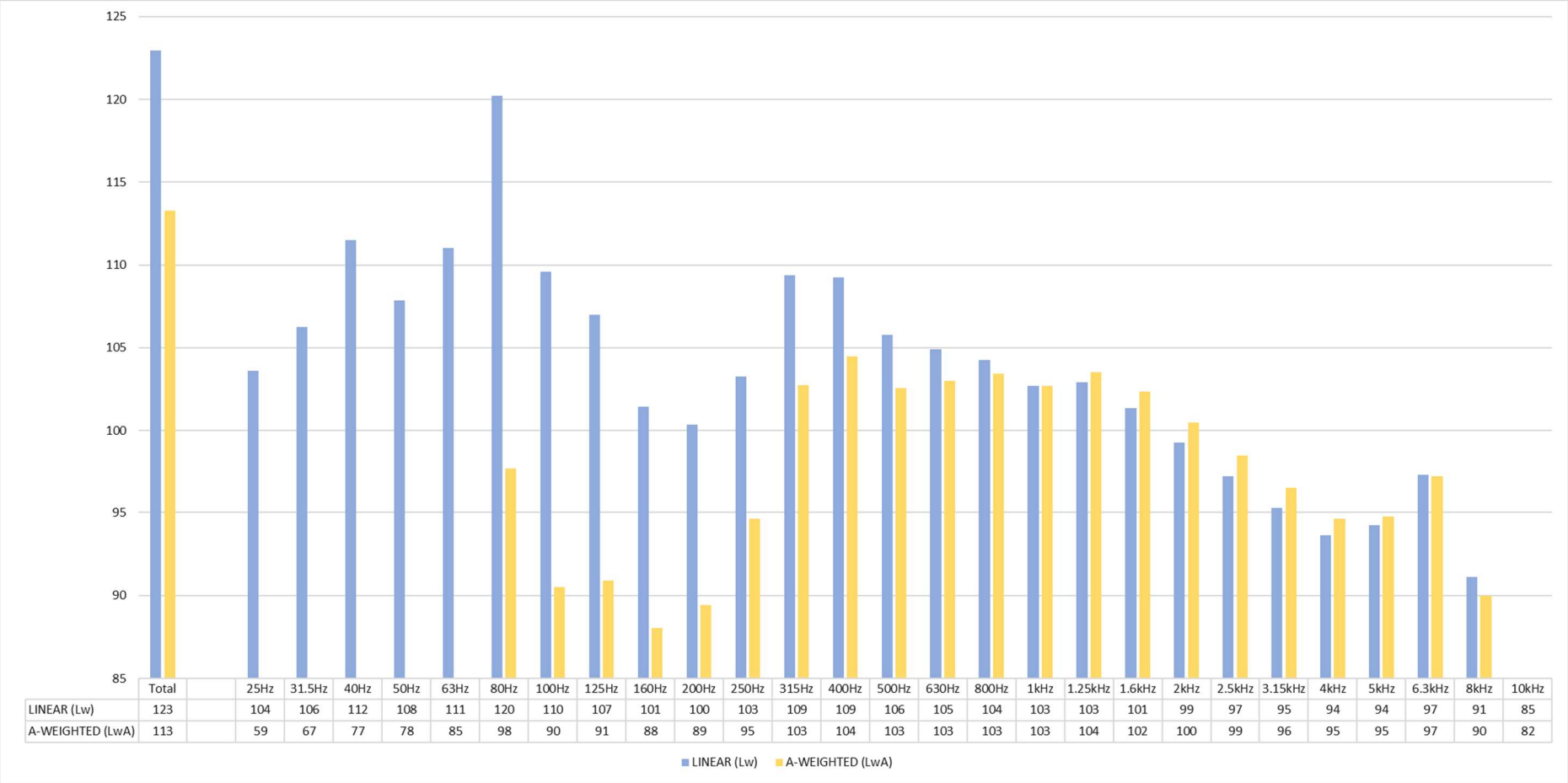
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121	95	108	102	113	113	114	111	109	108	106	105	103	103	103	102	101	100	101	99	99	99	98	96	92	88	85	81
A-WEIGHTED (LwA)	111	50	69	67	82	87	92	92	93	94	95	96	96	98	99	100	101	100	101	100	100	100	99	97	92	88	83	79

Figure 65: DT310 Stationary



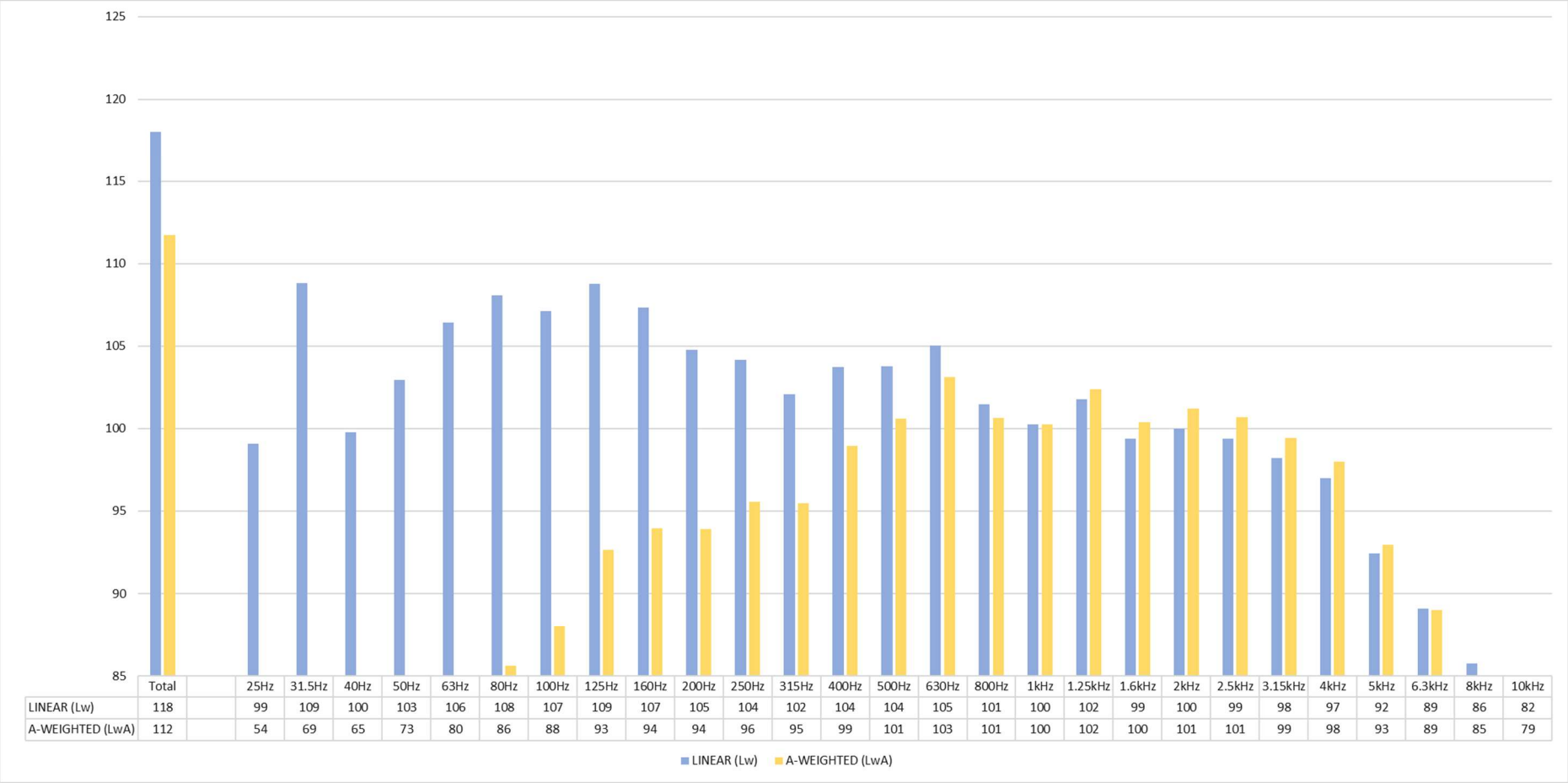
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	124		99	113	111	119	116	114	113	115	112	110	109	105	104	106	103	102	102	101	101	101	101	100	99	103	96	91	88
A-WEIGHTED (LwA)	114		54	74	77	88	90	91	94	99	98	99	100	98	99	102	101	101	102	102	102	102	102	102	100	103	96	90	85

Figure 66: DT310 Uphill



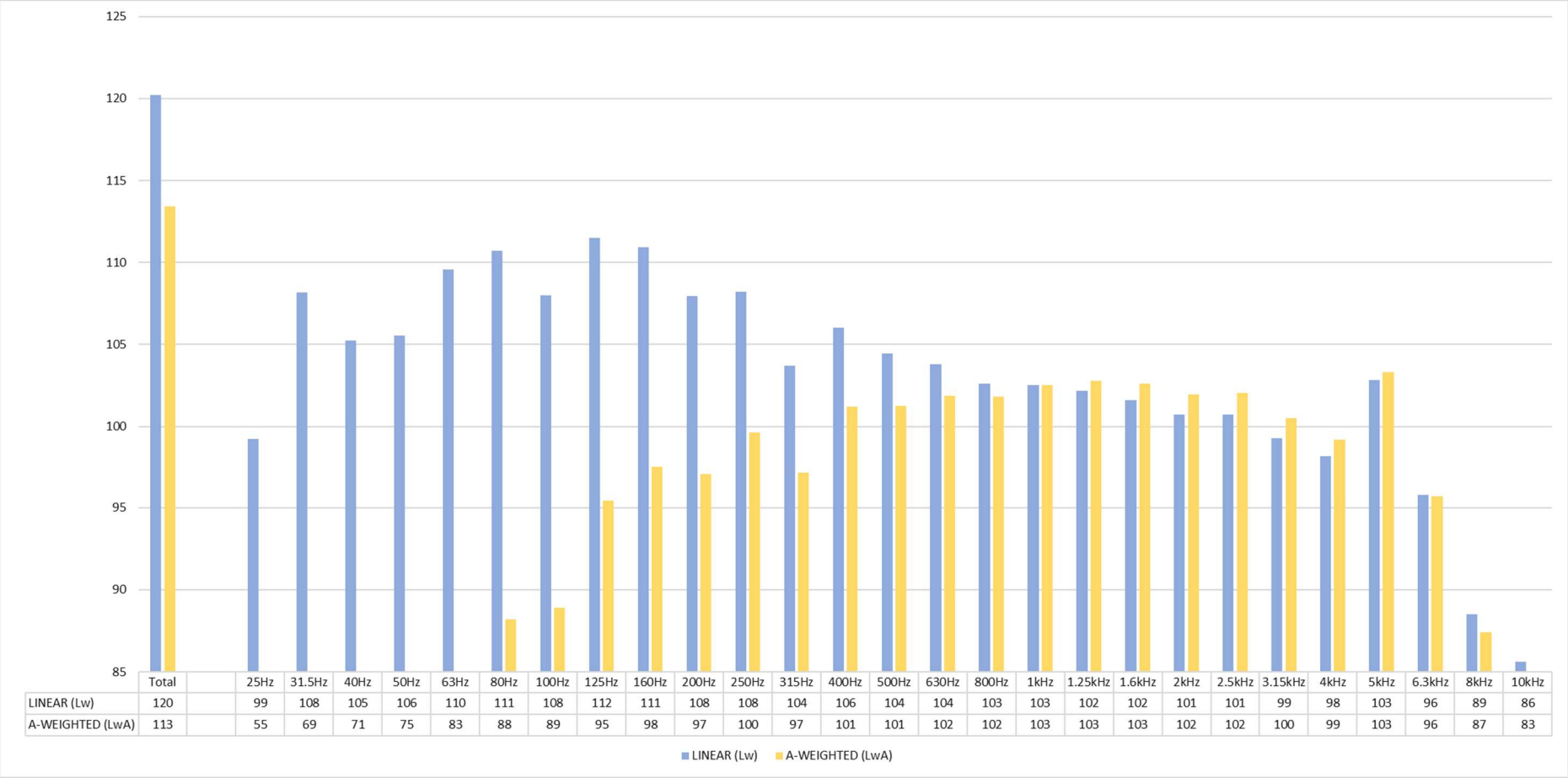
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	123		104	106	112	108	111	120	110	107	101	100	103	109	109	106	105	104	103	103	101	99	97	95	94	94	97	91	85
A-WEIGHTED (LwA)	113		59	67	77	78	85	98	90	91	88	89	95	103	104	103	103	103	103	104	102	100	99	96	95	95	97	90	82

Figure 67: DT310 Downhill



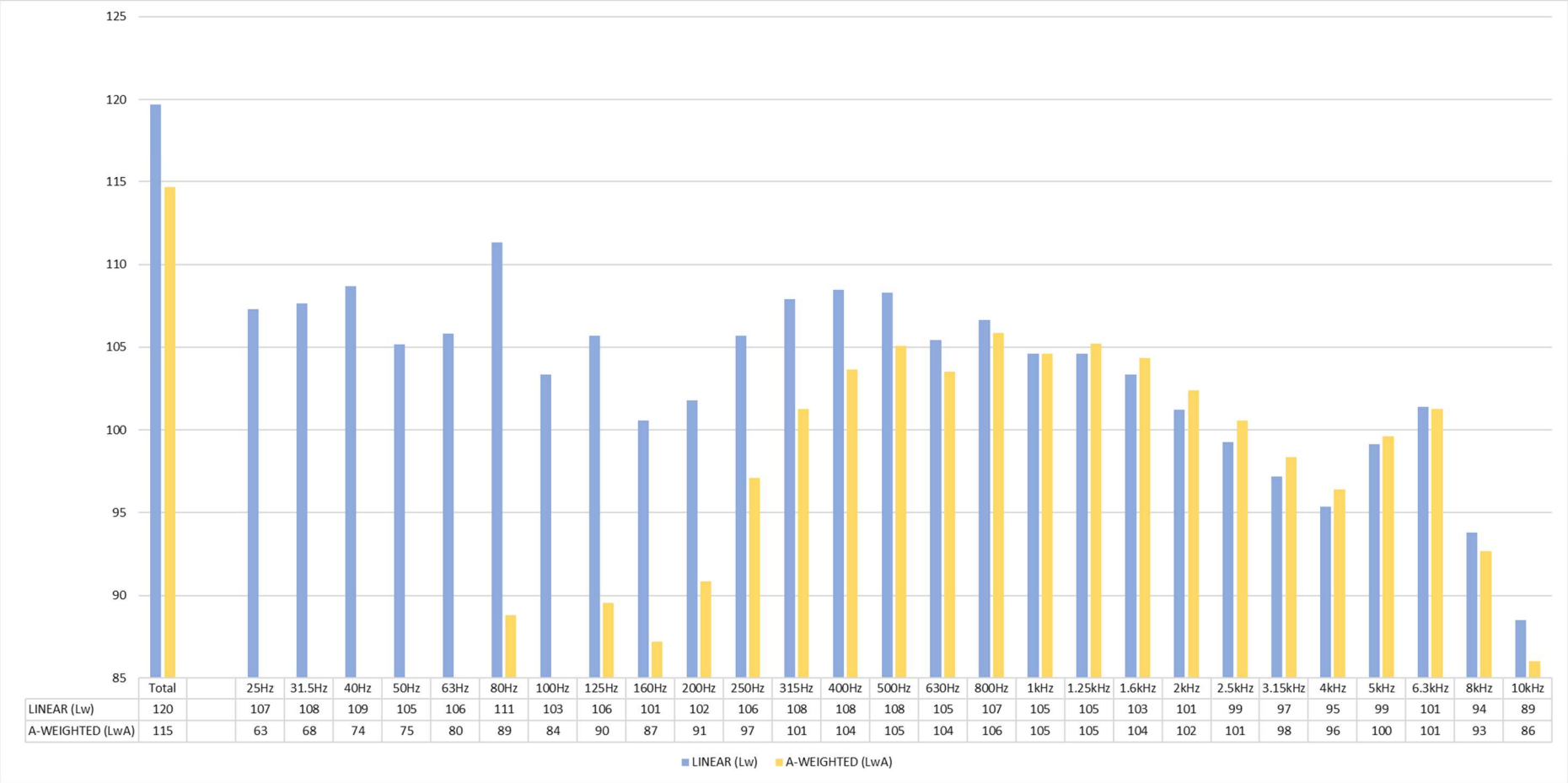
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	118		99	109	100	103	106	108	107	109	107	105	104	102	104	104	105	101	100	102	99	100	99	98	97	92	89	86	82
A-WEIGHTED (LwA)	112		54	69	65	73	80	86	88	93	94	94	96	95	99	101	103	101	100	102	100	101	101	99	98	93	89	85	79

Figure 68: DT325 Stationary



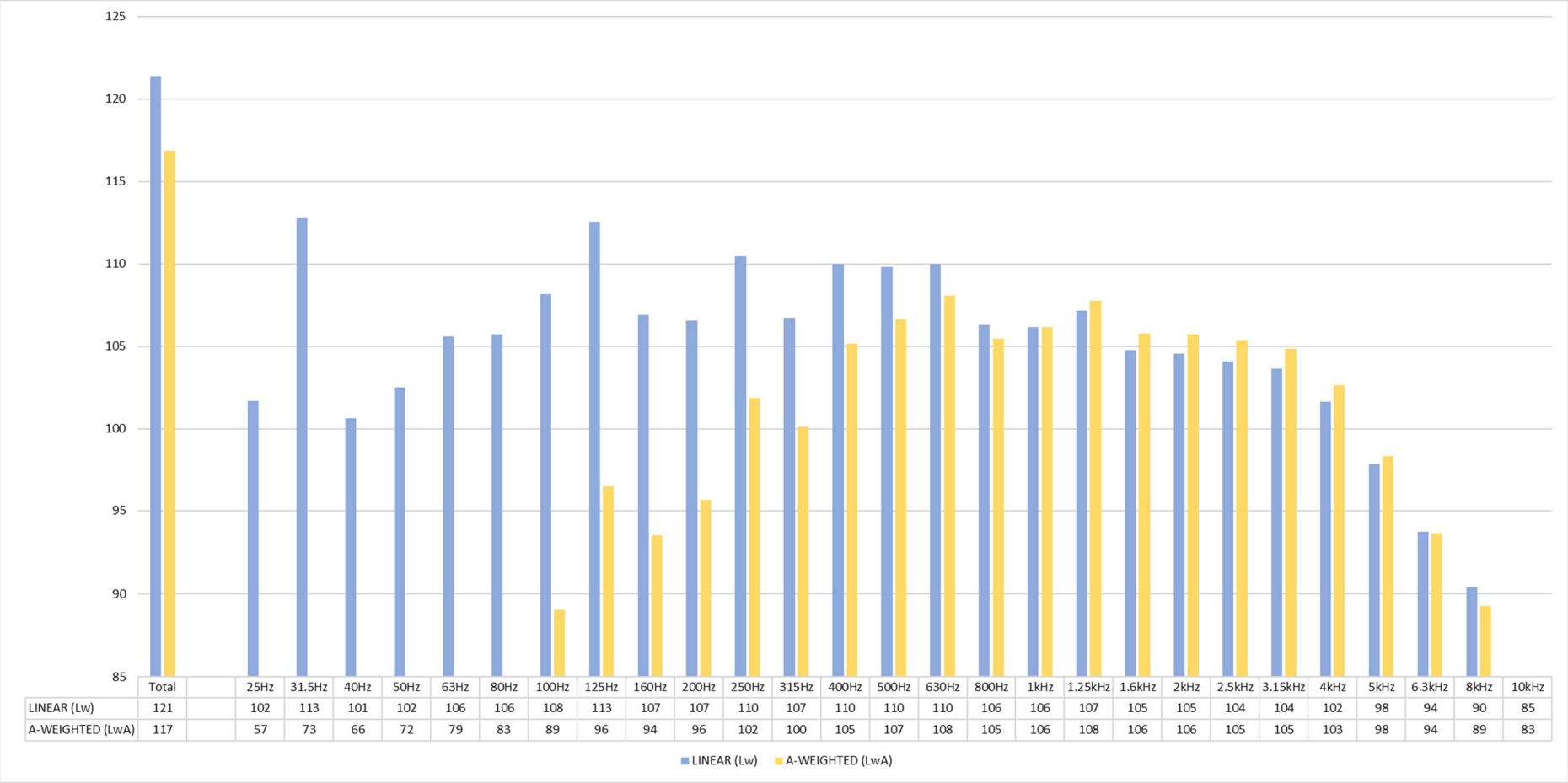
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		99	108	105	106	110	111	108	112	111	108	108	104	106	104	104	103	103	102	102	101	101	99	98	103	96	89	86
A-WEIGHTED (LwA)	113		55	69	71	75	83	88	89	95	98	97	100	97	101	101	102	102	103	103	103	102	102	100	99	103	96	87	83

Figure 69: DT325 Uphill



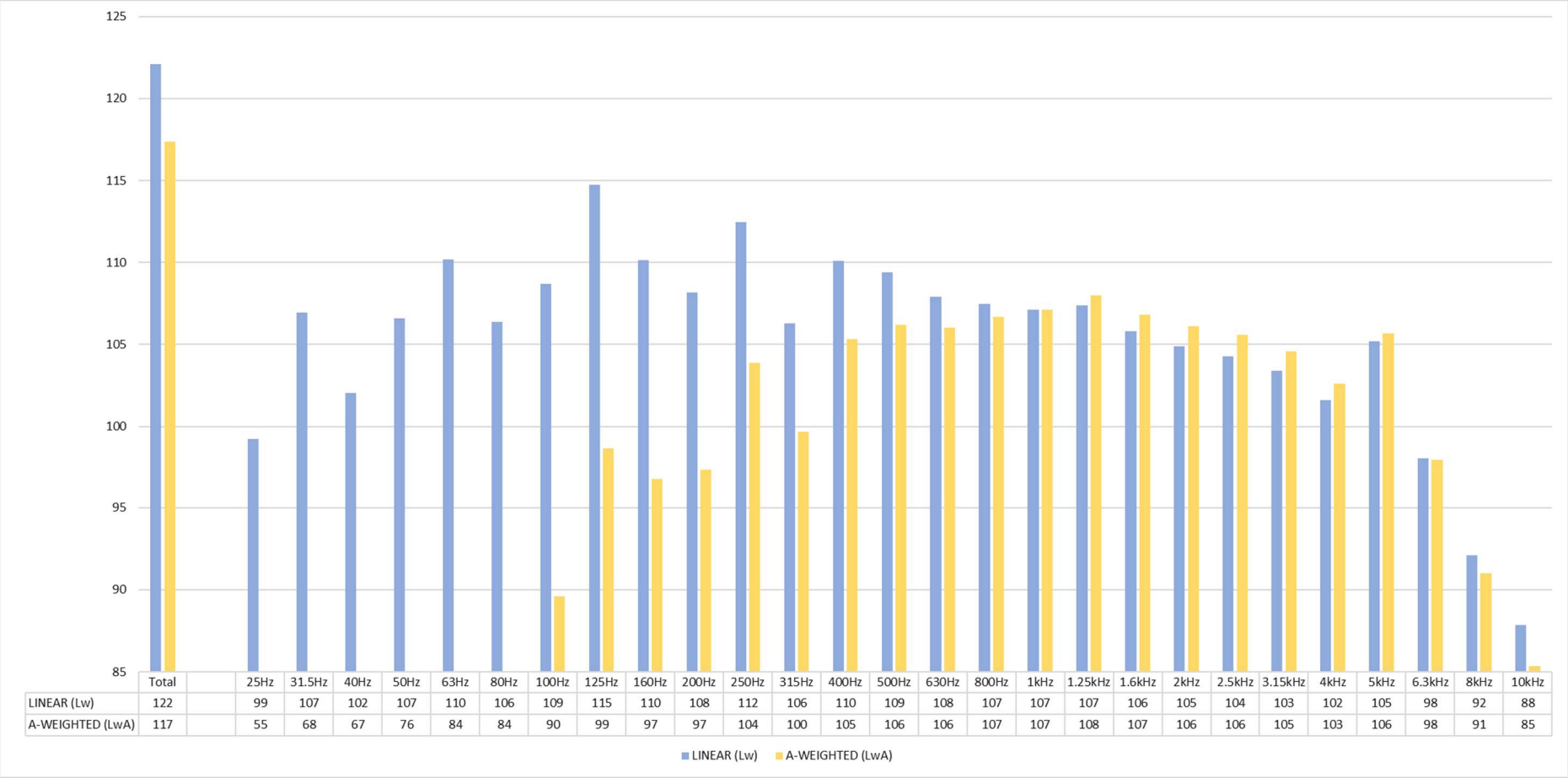
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		107	108	109	105	106	111	103	106	101	102	106	108	108	108	105	107	105	105	103	101	99	97	95	99	101	94	89
A-WEIGHTED (LwA)	115		63	68	74	75	80	89	84	90	87	91	97	101	104	105	104	106	105	105	104	102	101	98	96	100	101	93	86

Figure 70: DT325 Downhill



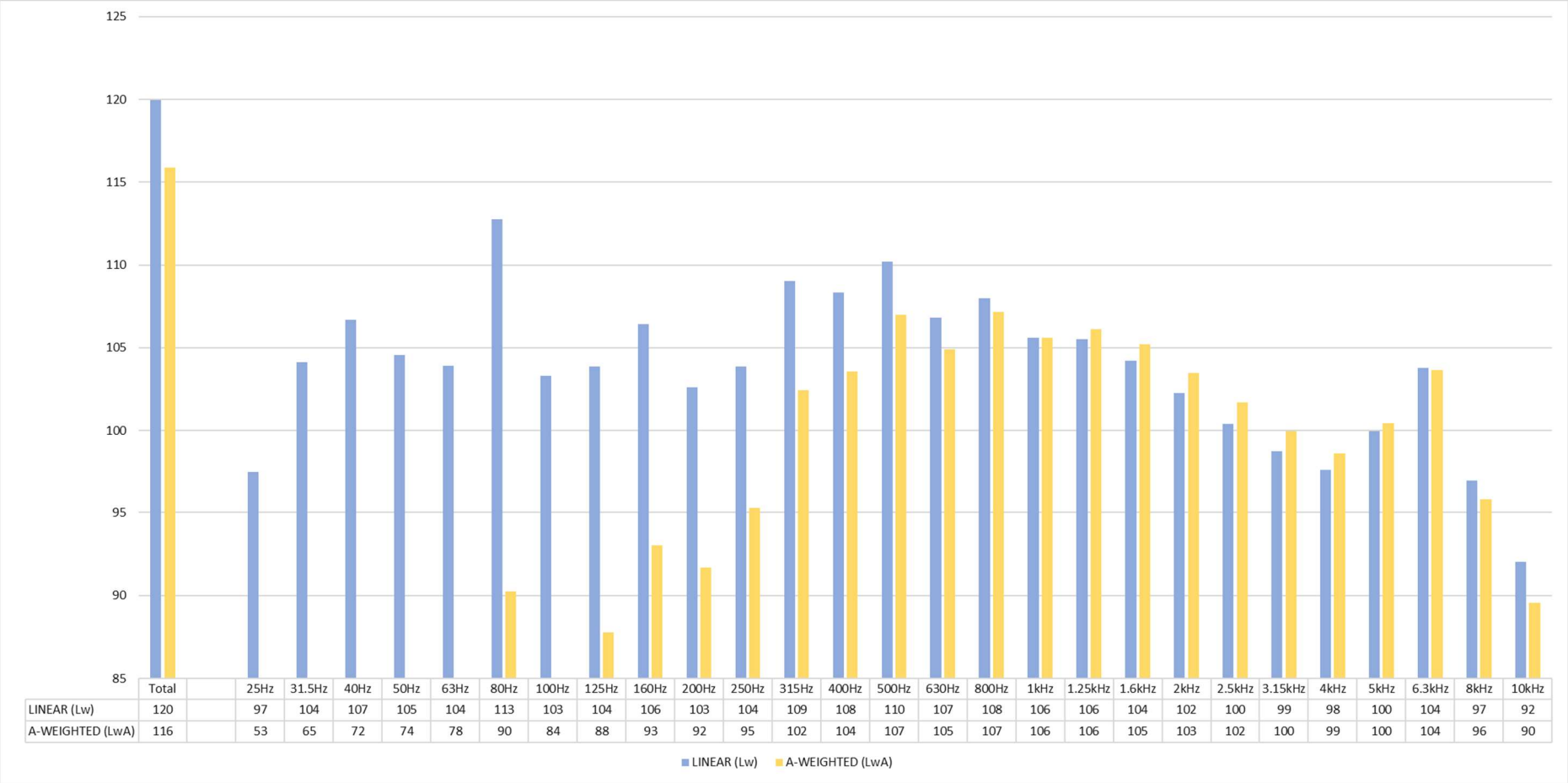
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		102	113	101	102	106	106	108	113	107	107	110	107	110	110	110	106	106	107	105	105	104	104	102	98	94	90	85
A-WEIGHTED (LwA)	117		57	73	66	72	79	83	89	96	94	96	102	100	105	107	108	105	106	108	106	106	105	105	103	98	94	89	83

Figure 71: DT326 Stationary



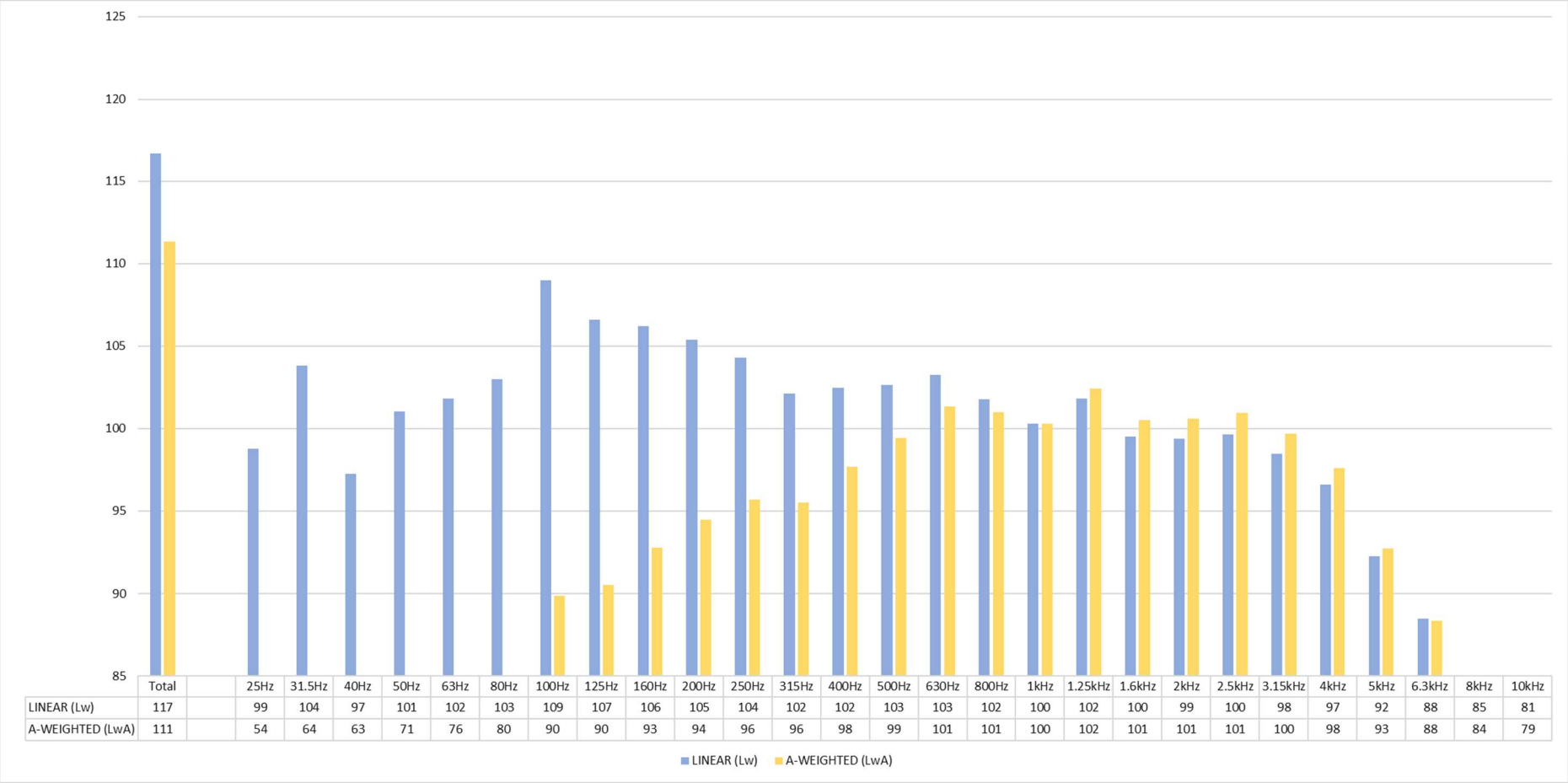
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		99	107	102	107	110	106	109	115	110	108	112	106	110	109	108	107	107	107	106	105	104	103	102	105	98	92	88
A-WEIGHTED (LwA)	117		55	68	67	76	84	84	90	99	97	97	104	100	105	106	106	107	107	108	107	106	106	105	103	106	98	91	85

Figure 72: DT326 Uphill



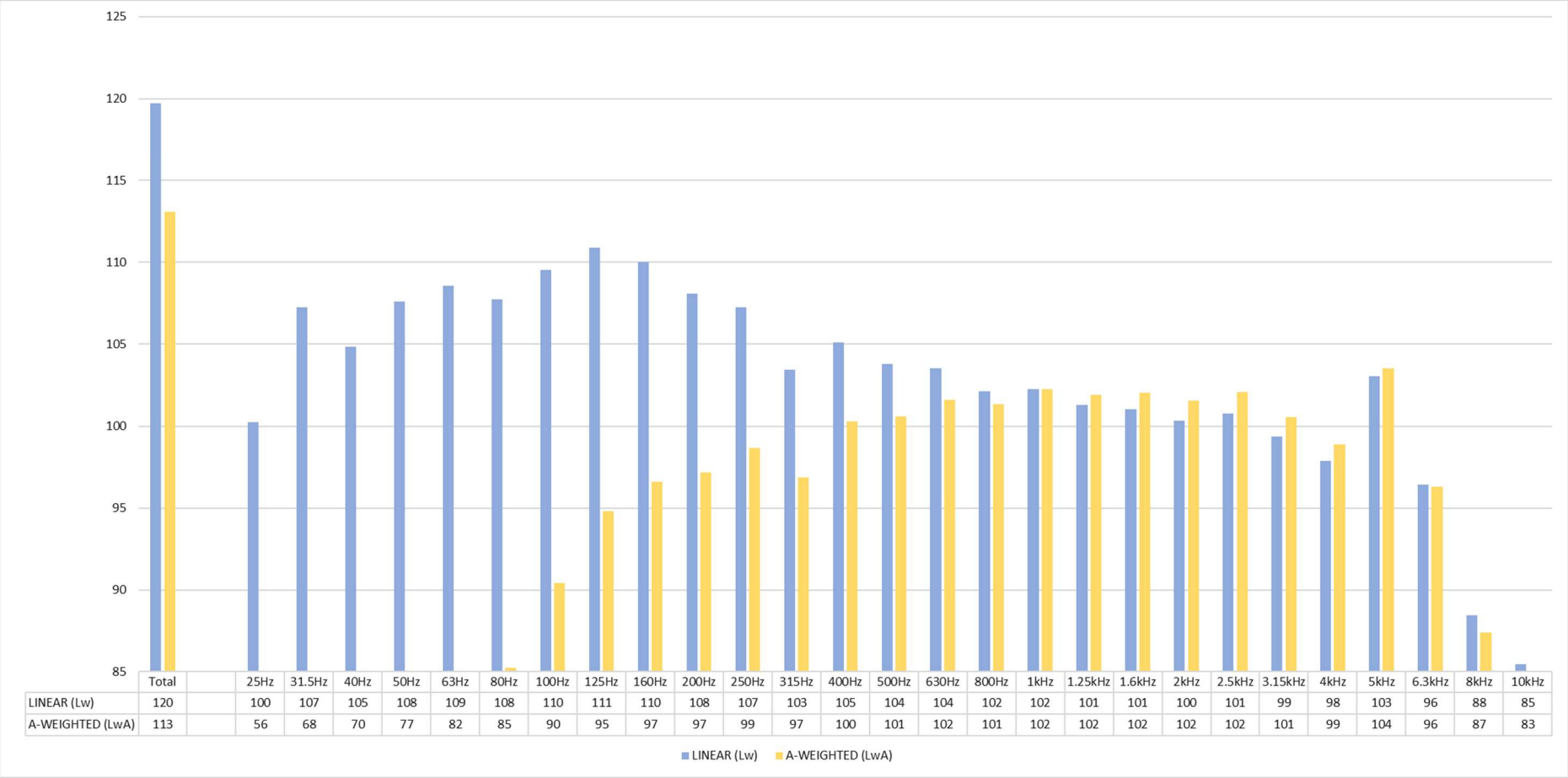
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		97	104	107	105	104	113	103	104	106	103	104	109	108	110	107	108	106	106	104	102	100	99	98	100	104	97	92
A-WEIGHTED (LwA)	116		53	65	72	74	78	90	84	88	93	92	95	102	104	107	105	107	106	106	105	103	102	100	99	100	104	96	90

Figure 73: DT326 Downhill



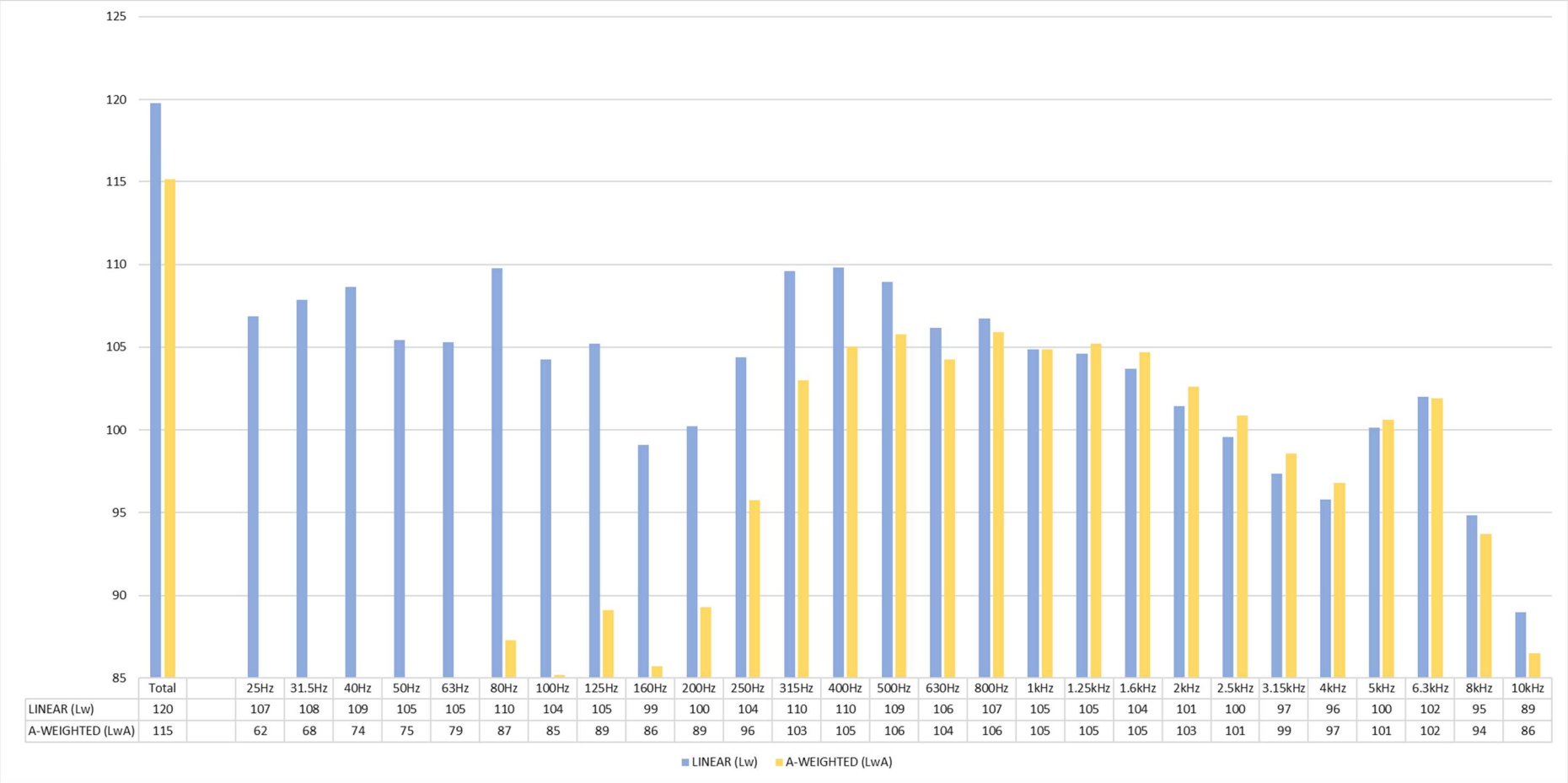
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	117	99	104	97	101	102	103	109	107	106	105	104	102	102	103	103	102	100	102	100	99	100	98	97	92	88	85	81
A-WEIGHTED (LwA)	111	54	64	63	71	76	80	90	90	93	94	96	96	98	99	101	101	100	102	101	101	101	100	98	93	88	84	79

Figure 74: DT327 Stationary



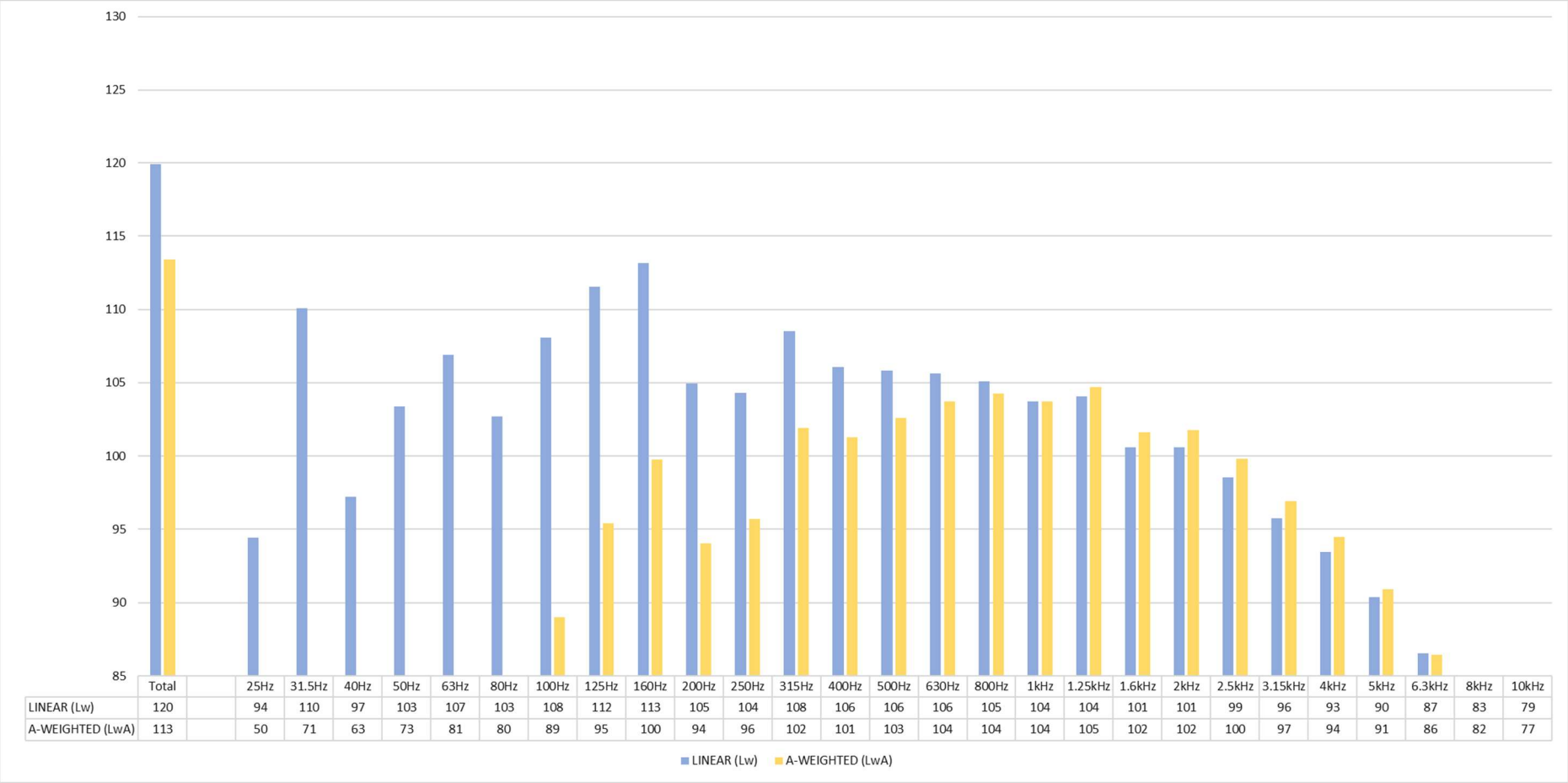
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		100	107	105	108	109	108	110	111	110	108	107	103	105	104	104	102	102	101	101	100	101	99	98	103	96	88	85
A-WEIGHTED (LwA)	113		56	68	70	77	82	85	90	95	97	97	99	97	100	101	102	101	102	102	102	102	102	101	99	104	96	87	83

Figure 75: DT327 Uphill



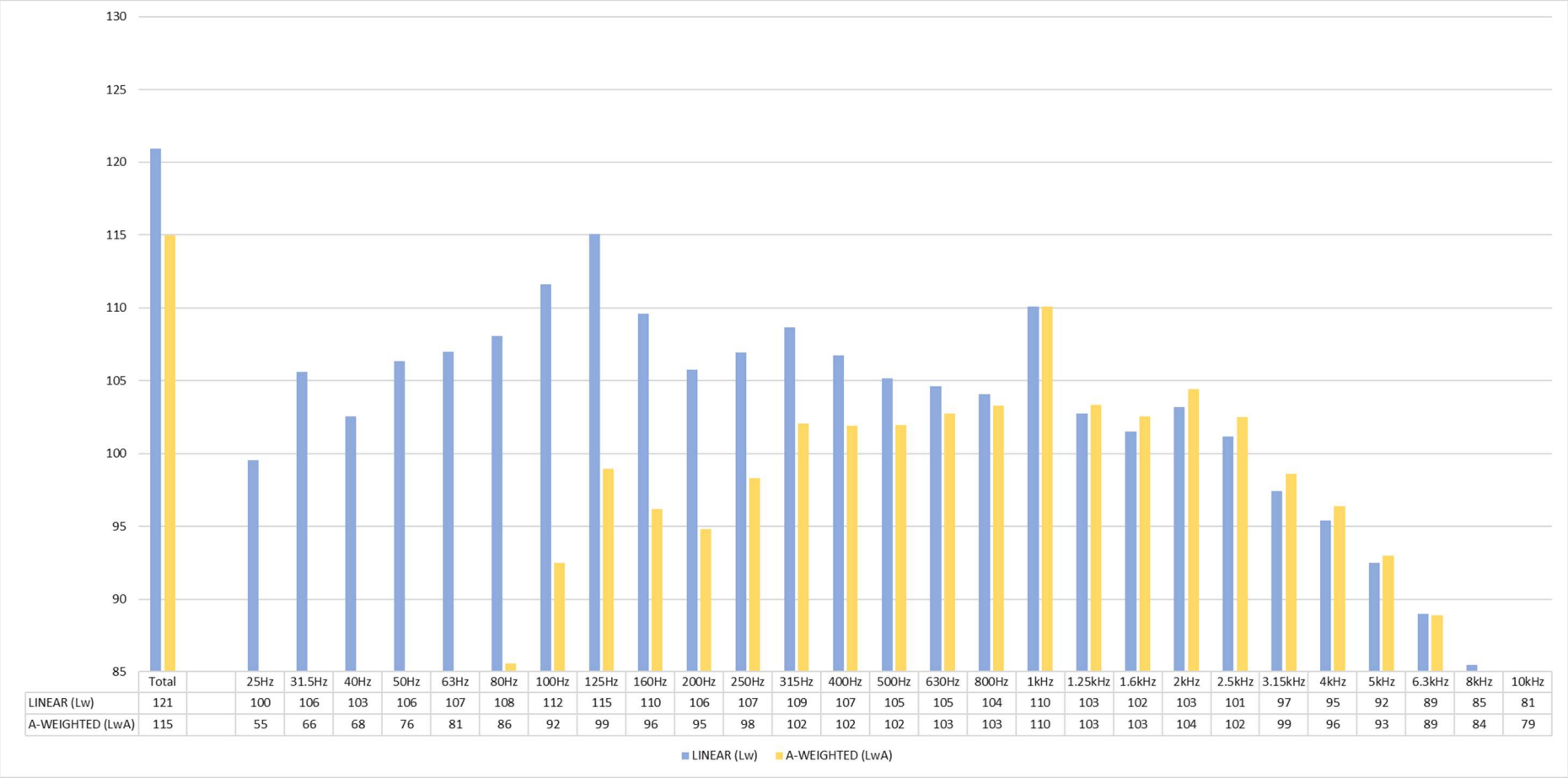
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		107	108	109	105	105	110	104	105	99	100	104	110	110	109	106	107	105	105	104	101	100	97	96	100	102	95	89
A-WEIGHTED (LwA)	115		62	68	74	75	79	87	85	89	86	89	96	103	105	106	104	106	105	105	105	103	101	99	97	101	102	94	86

Figure 76: DT327 Downhill



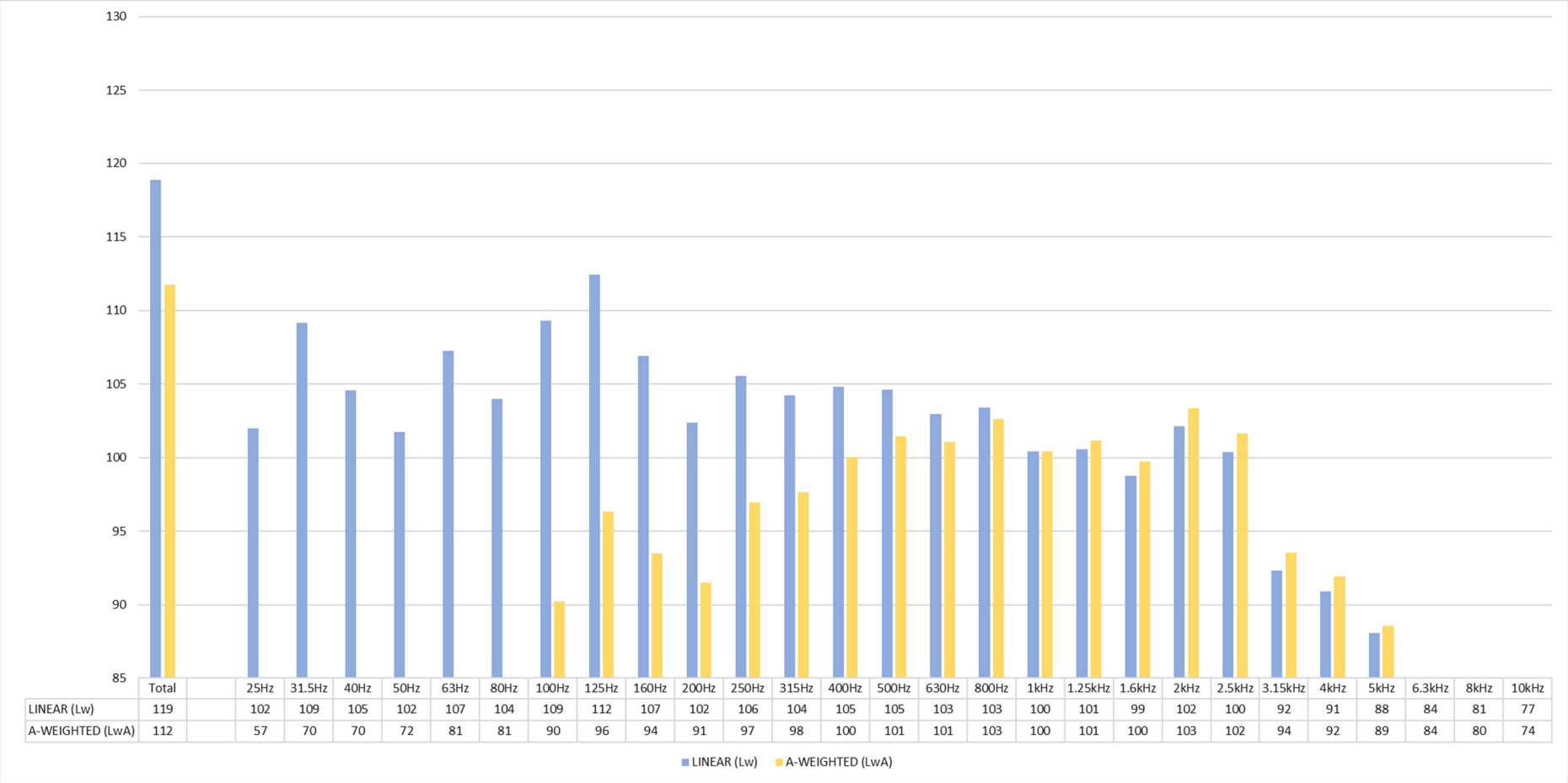
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	94	110	97	103	107	103	108	112	113	105	104	108	106	106	106	105	104	104	101	101	99	96	93	90	87	83	79
A-WEIGHTED (LwA)	113	50	71	63	73	81	80	89	95	100	94	96	102	101	103	104	104	104	105	102	102	100	97	94	91	86	82	77

Figure 77: DT364 Stationary



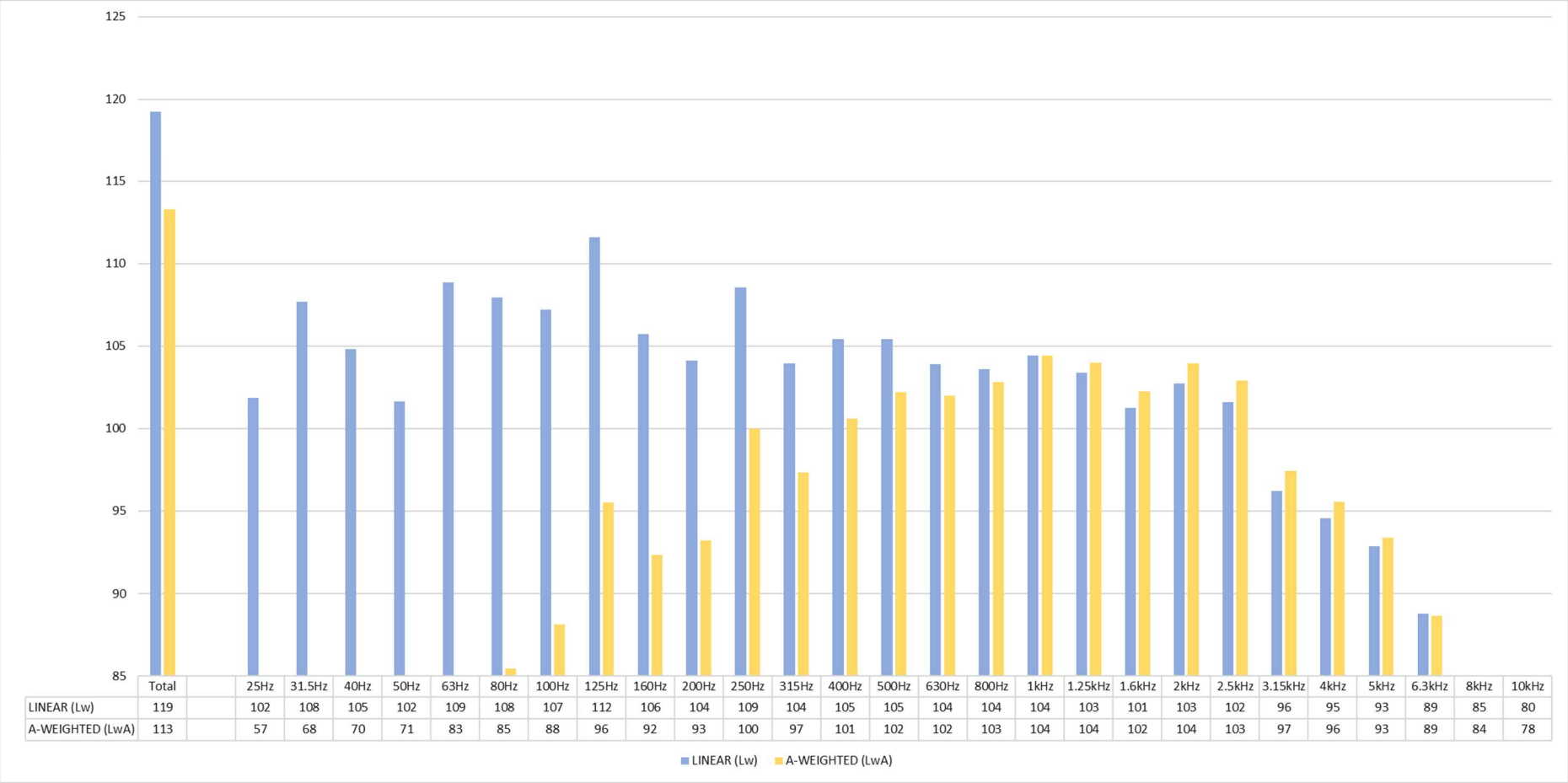
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		100	106	103	106	107	108	112	115	110	106	107	109	107	105	105	104	110	103	102	103	101	97	95	92	89	85	81
A-WEIGHTED (LwA)	115		55	66	68	76	81	86	92	99	96	95	98	102	102	102	103	103	110	103	103	104	102	99	96	93	89	84	79

Figure 78: DT364 Uphill



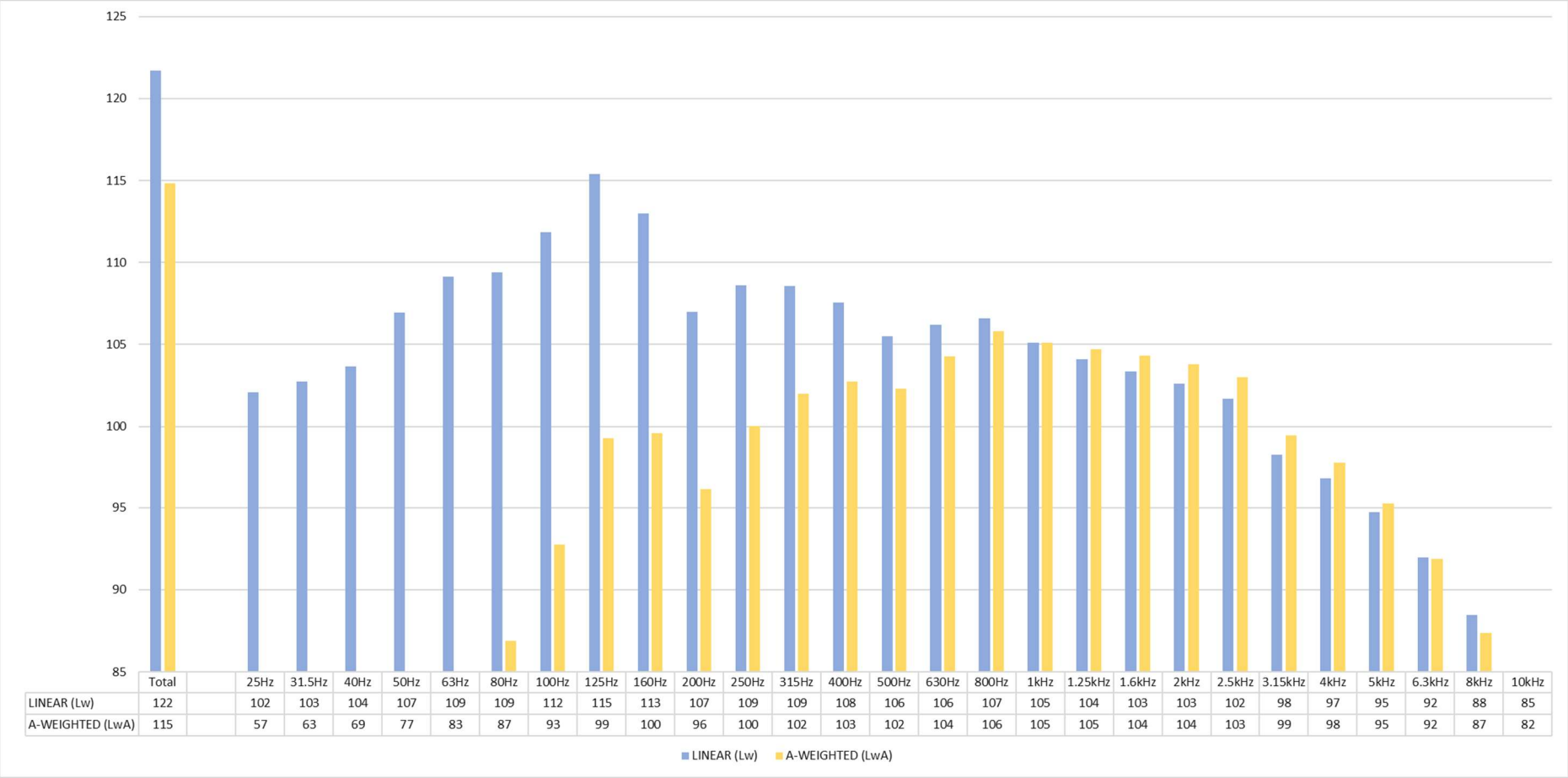
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		102	109	105	102	107	104	109	112	107	102	106	104	105	105	103	103	100	101	99	102	100	92	91	88	84	81	77
A-WEIGHTED (LwA)	112		57	70	70	72	81	81	90	96	94	91	97	98	100	101	101	103	100	101	100	103	102	94	92	89	84	80	74

Figure 79: DT364 Downhill



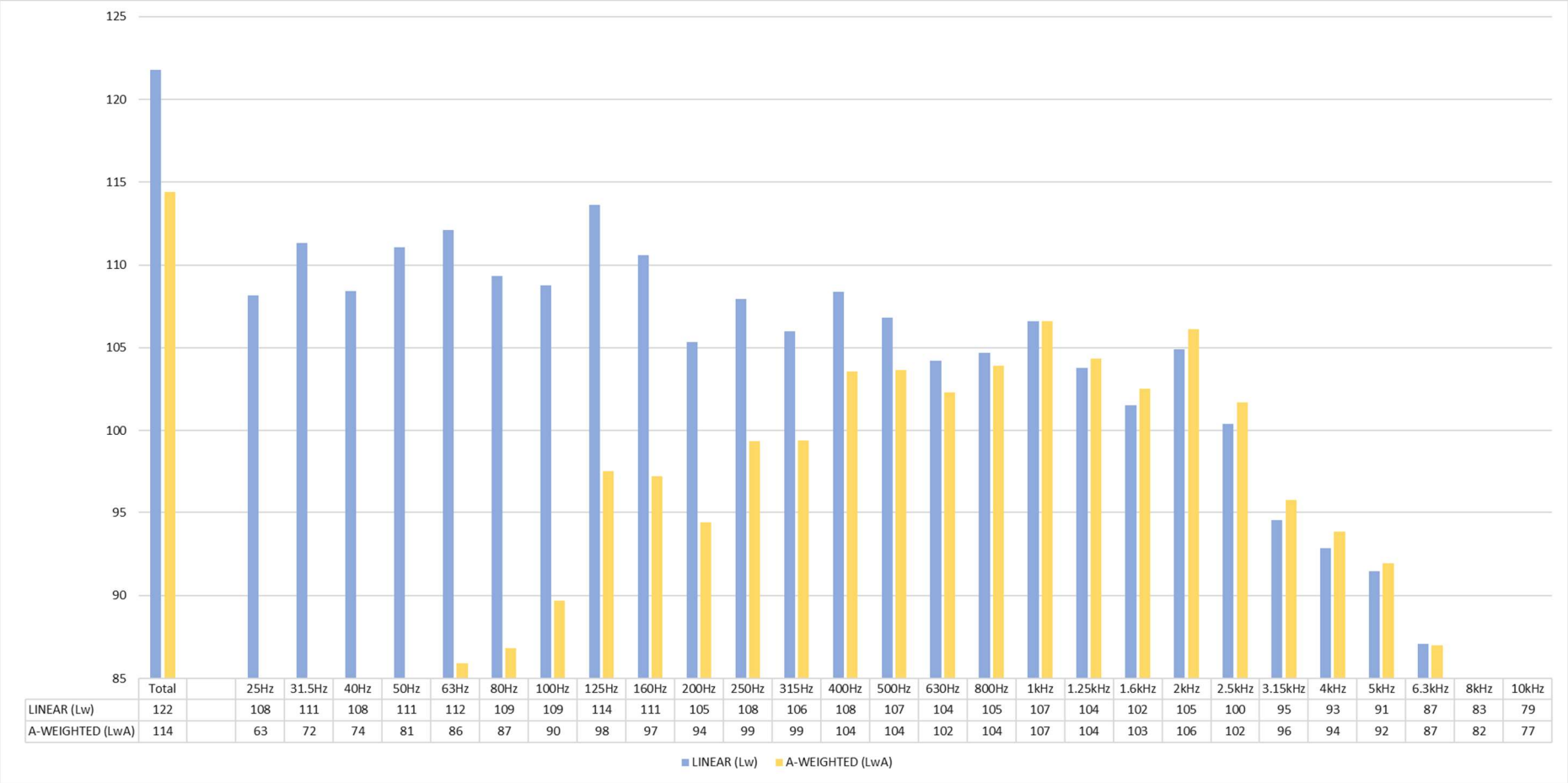
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		102	108	105	102	109	108	107	112	106	104	109	104	105	105	104	104	104	103	101	103	102	96	95	93	89	85	80
A-WEIGHTED (LwA)	113		57	68	70	71	83	85	88	96	92	93	100	97	101	102	102	103	104	104	102	104	103	97	96	93	89	84	78

Figure 80: DT365 Stationary



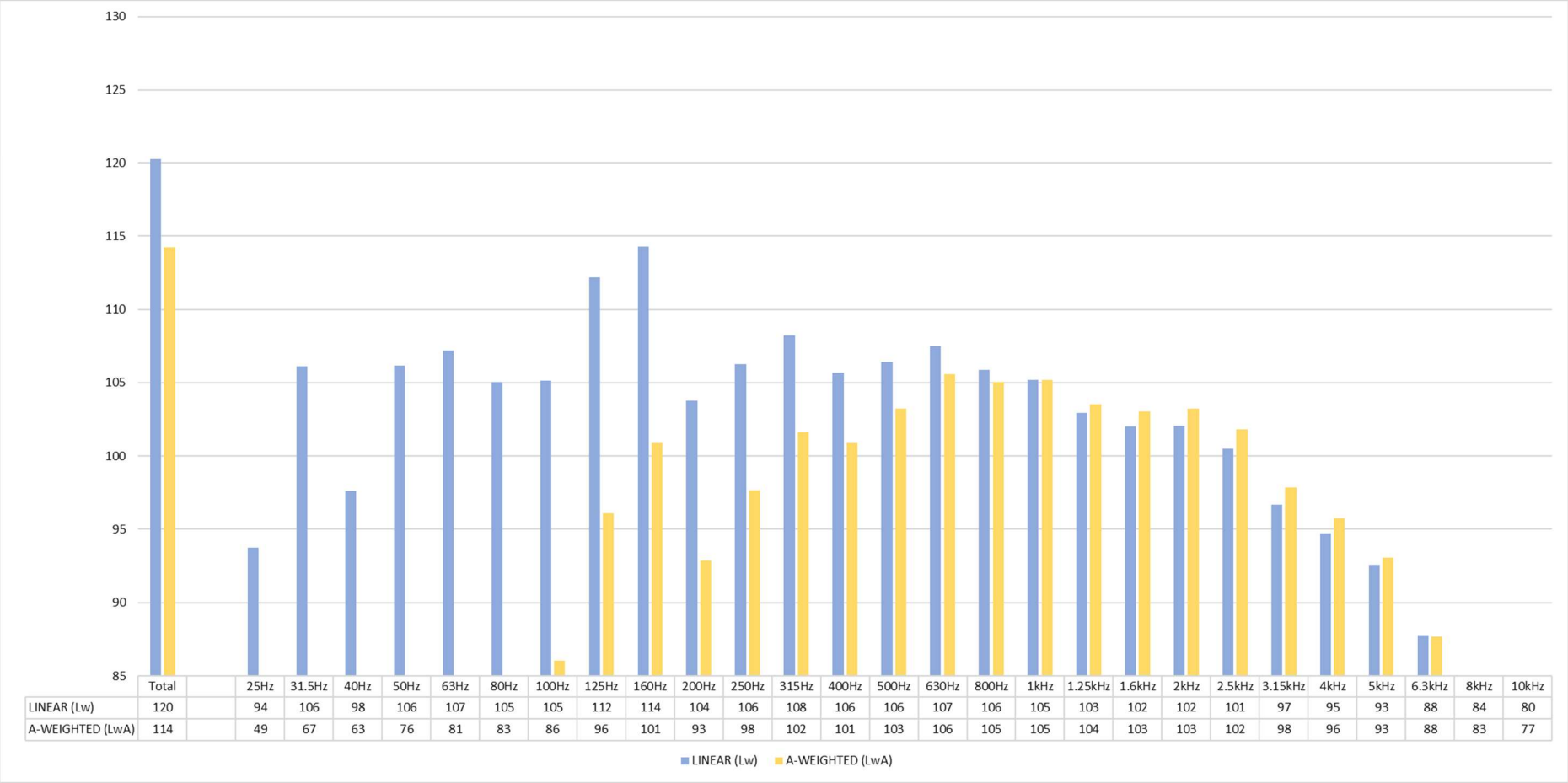
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		102	103	104	107	109	109	112	115	113	107	109	109	108	106	106	107	105	104	103	103	102	98	97	95	92	88	85
A-WEIGHTED (LwA)	115		57	63	69	77	83	87	93	99	100	96	100	102	103	102	104	106	105	105	104	104	103	99	98	95	92	87	82

Figure 81: DT365 Uphill



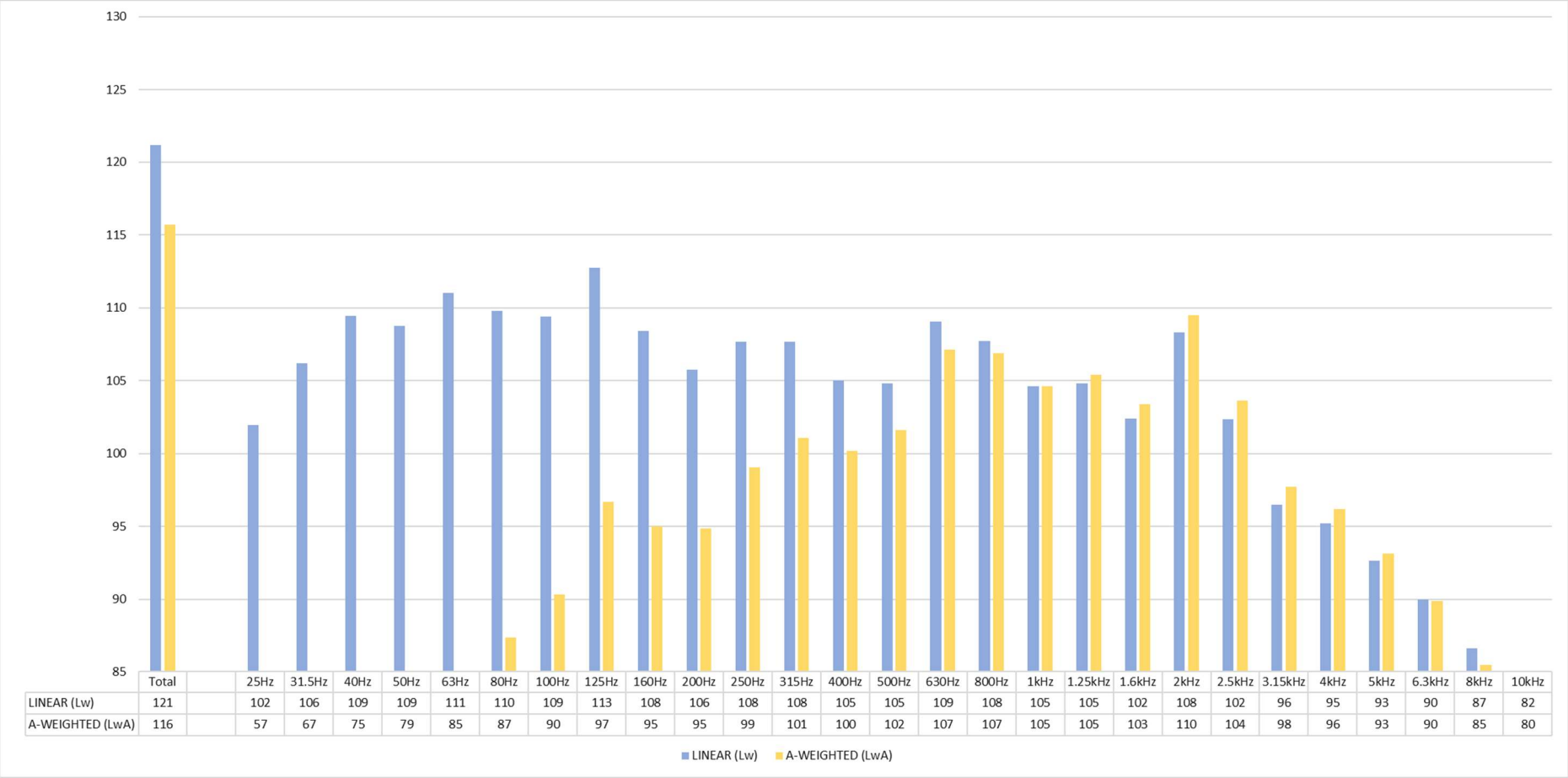
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		108	111	108	111	112	109	109	114	111	105	108	106	108	107	104	105	107	104	102	105	100	95	93	91	87	83	79
A-WEIGHTED (LwA)	114		63	72	74	81	86	87	90	98	97	94	99	99	104	104	102	104	107	104	103	106	102	96	94	92	87	82	77

Figure 82: DT365 Downhill



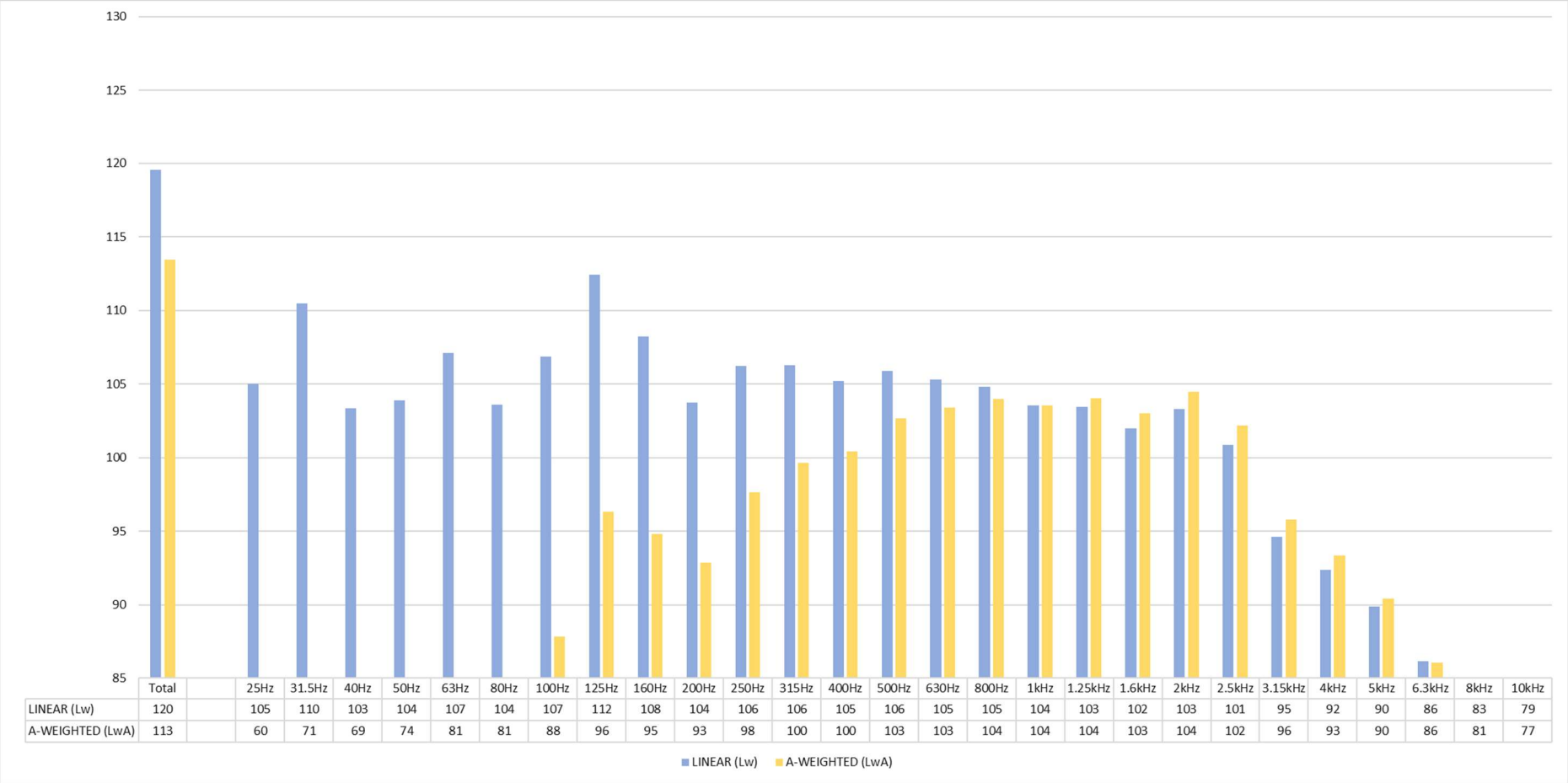
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		94	106	98	106	107	105	105	112	114	104	106	108	106	106	107	106	105	103	102	102	101	97	95	93	88	84	80
A-WEIGHTED (LwA)	114		49	67	63	76	81	83	86	96	101	93	98	102	101	103	106	105	105	104	103	103	102	98	96	93	88	83	77

Figure 83: DT366 Stationary



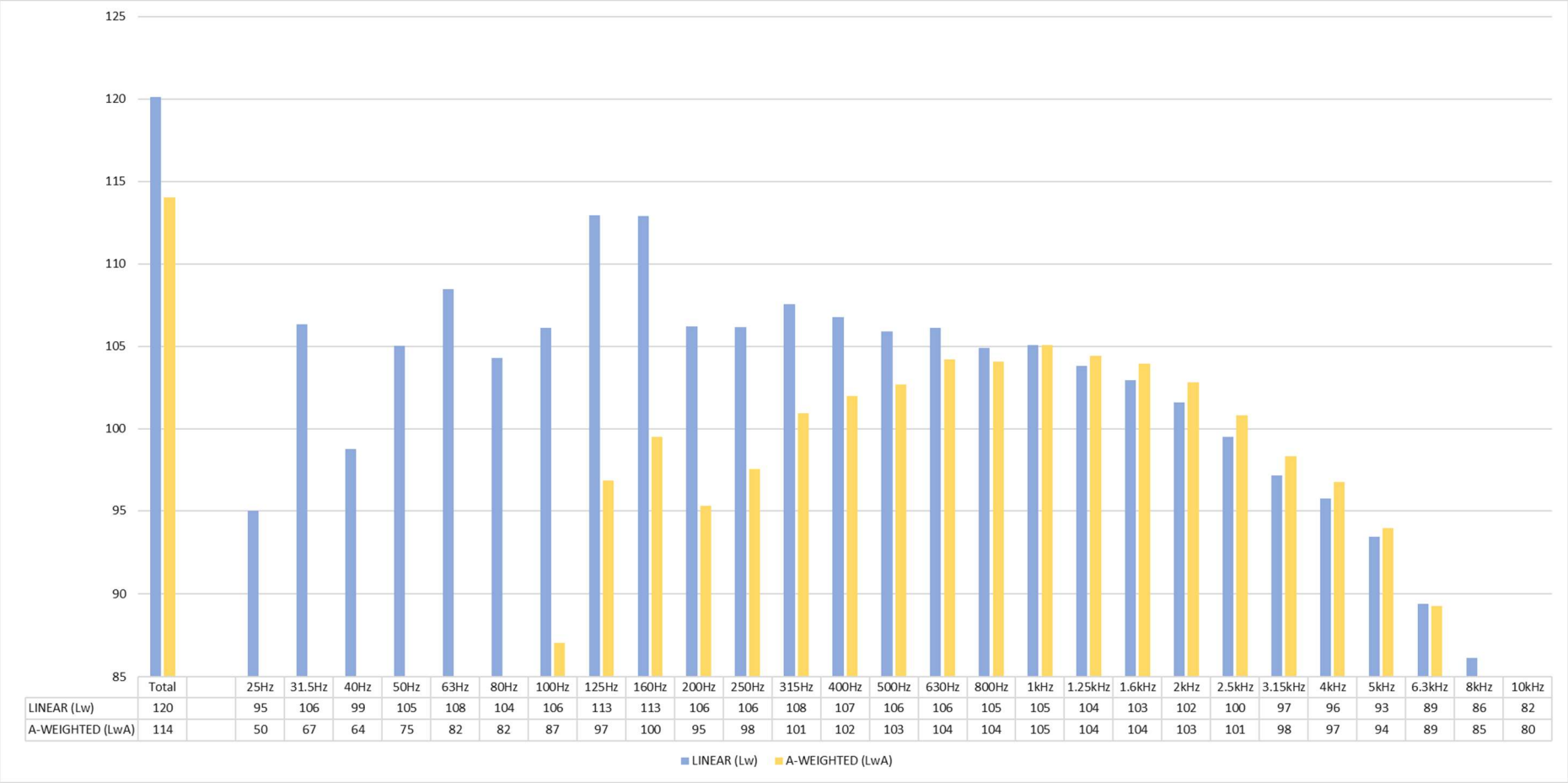
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		102	106	109	109	111	110	109	113	108	106	108	108	105	105	109	108	105	105	102	108	102	96	95	93	90	87	82
A-WEIGHTED (LwA)	116		57	67	75	79	85	87	90	97	95	95	99	101	100	102	107	107	105	105	103	110	104	98	96	93	90	85	80

Figure 84: DT366 Uphill



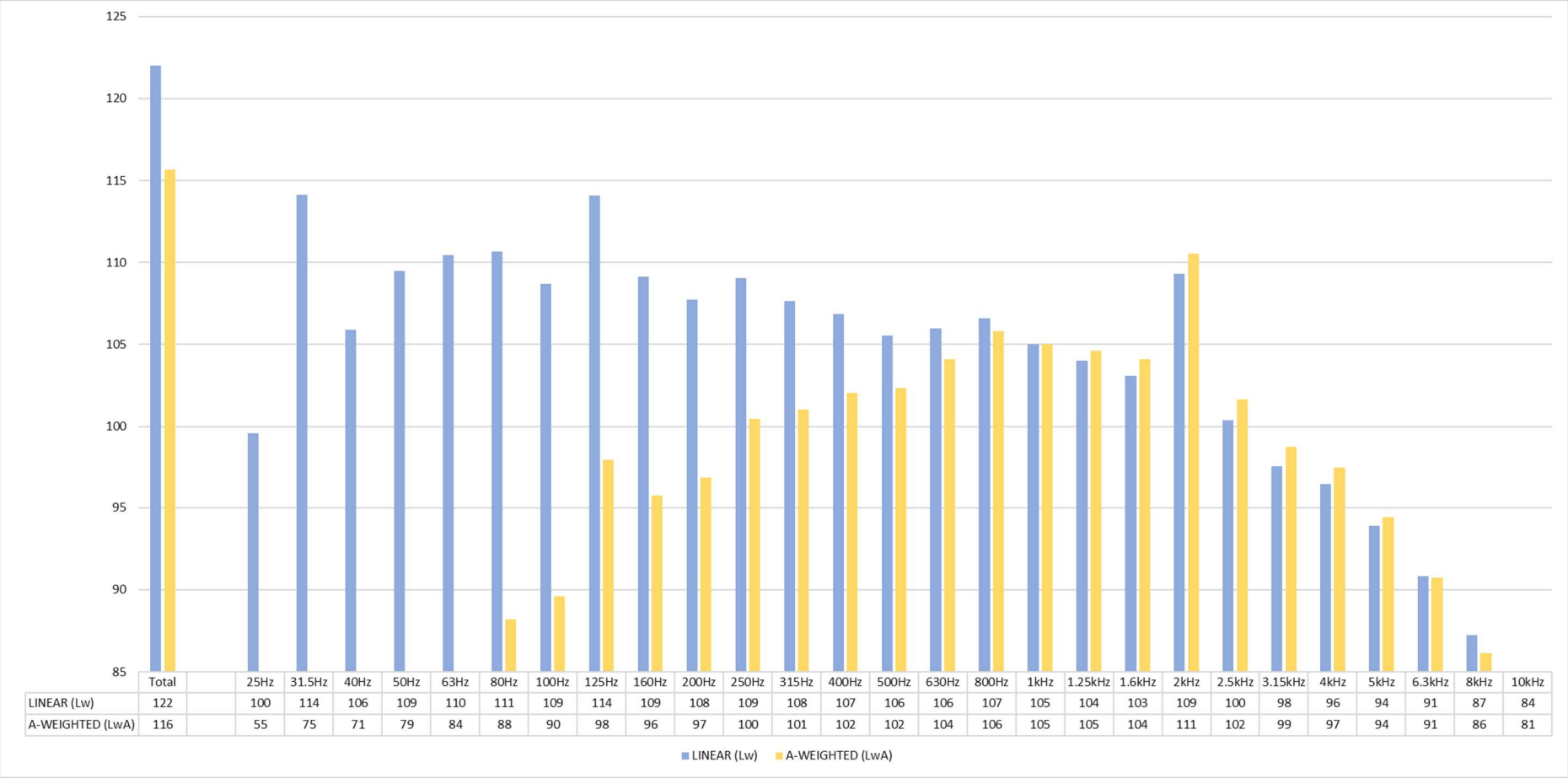
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		105	110	103	104	107	104	107	112	108	104	106	106	105	106	105	105	104	103	102	103	101	95	92	90	86	83	79
A-WEIGHTED (LwA)	113		60	71	69	74	81	81	88	96	95	93	98	100	100	103	103	104	104	104	103	104	102	96	93	90	86	81	77

Figure 85: DT366 Downhill



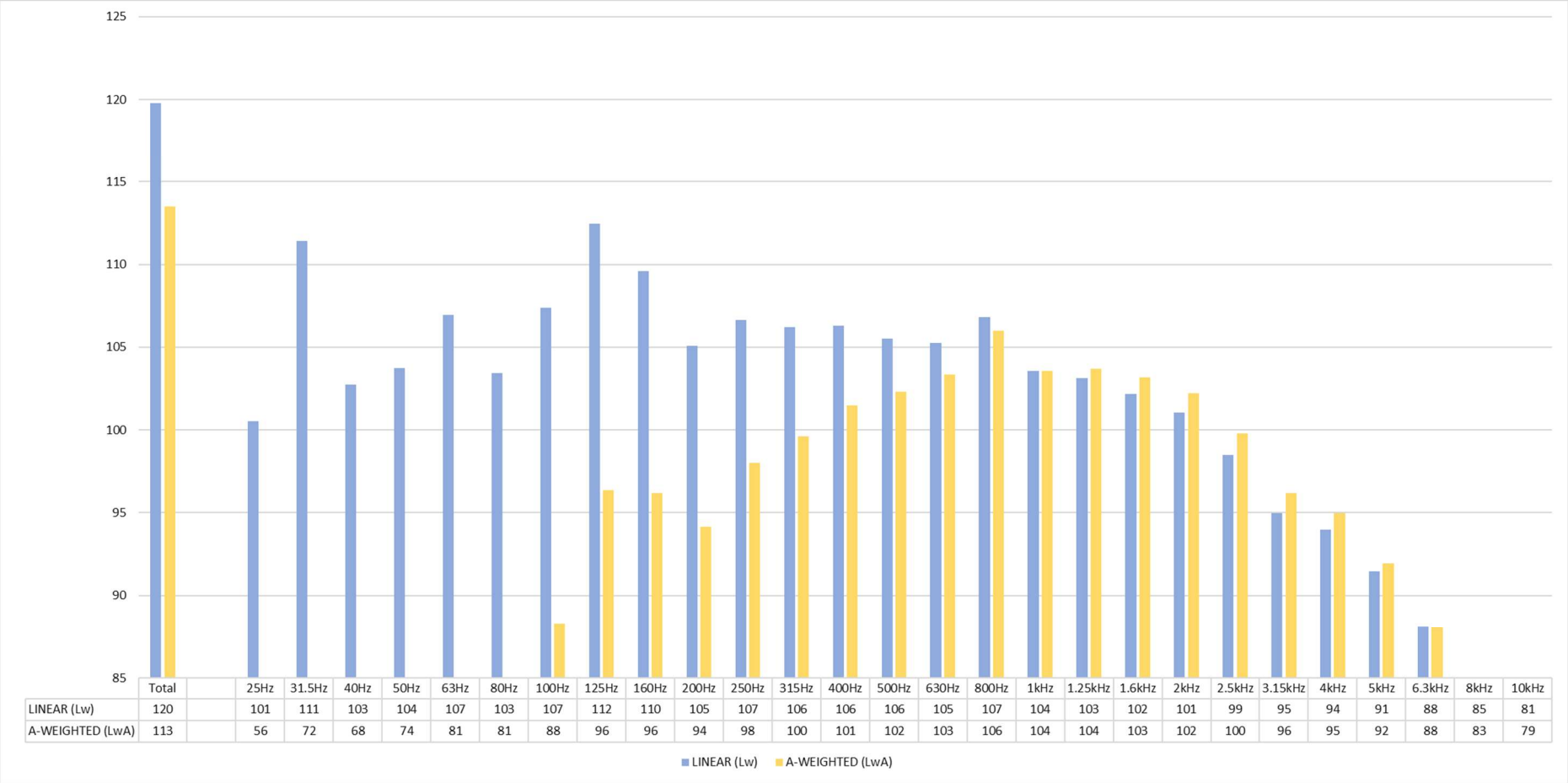
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120		95	106	99	105	108	104	106	113	113	106	106	108	107	106	106	105	105	104	103	102	100	97	96	93	89	86	82
A-WEIGHTED (LwA)	114		50	67	64	75	82	82	87	97	100	95	98	101	102	103	104	104	105	104	104	103	101	98	97	94	89	85	80

Figure 86: DT367 Stationary



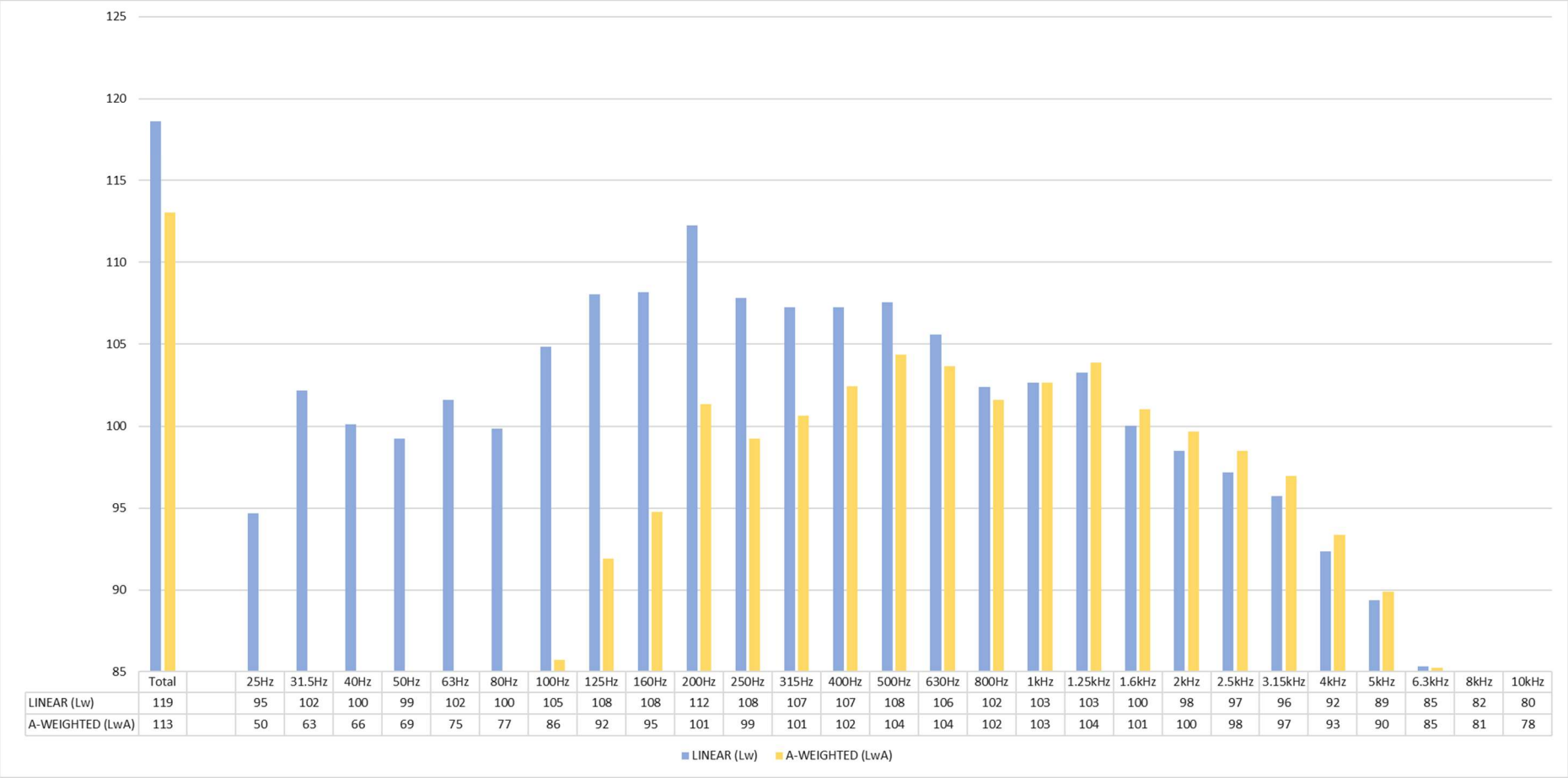
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	122		100	114	106	109	110	111	109	114	109	108	109	108	107	106	106	107	105	104	103	109	100	98	96	94	91	87	84
A-WEIGHTED (LwA)	116		55	75	71	79	84	88	90	98	96	97	100	101	102	102	104	106	105	105	104	111	102	99	97	94	91	86	81

Figure 87: DT367 Uphill



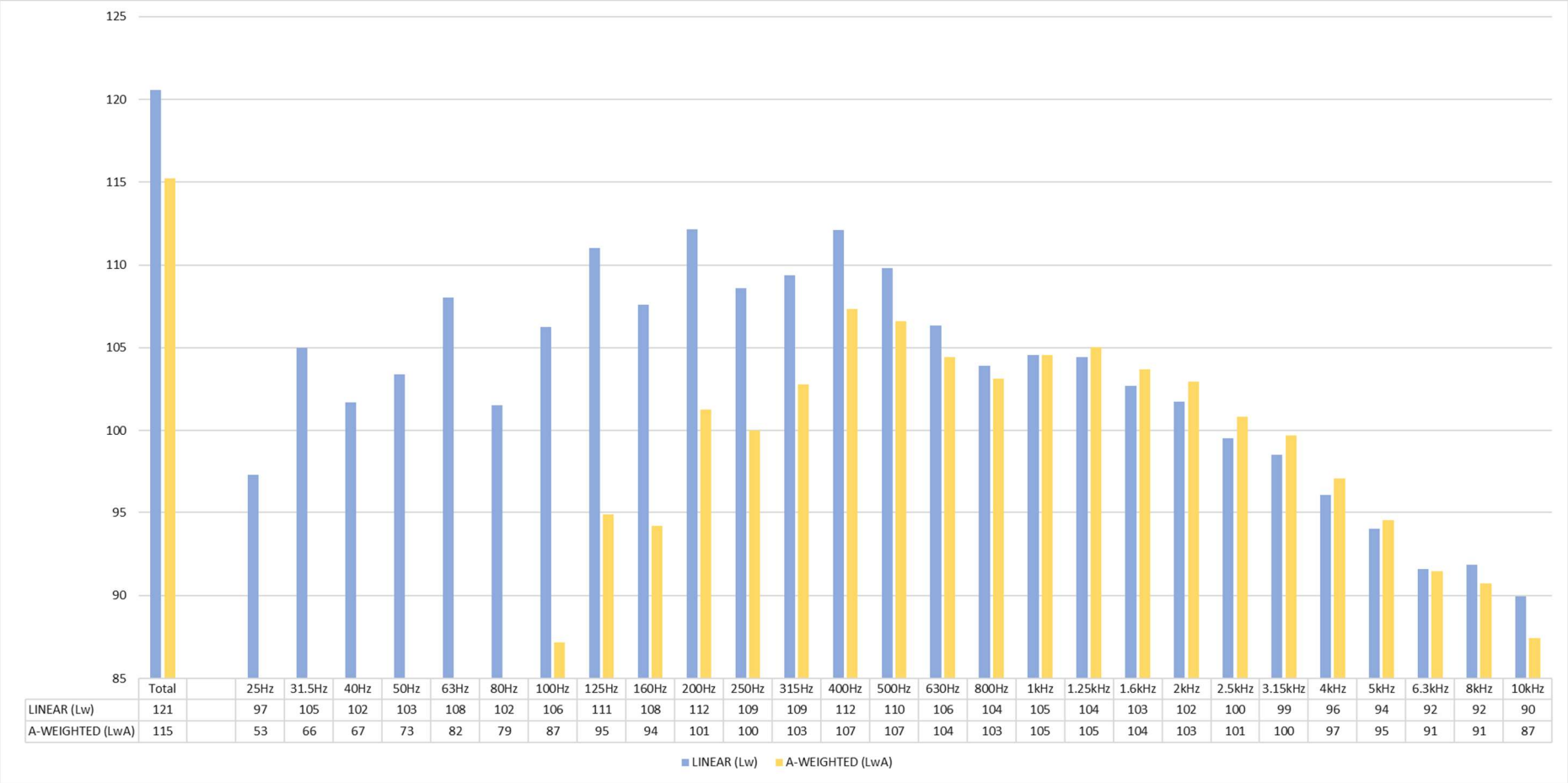
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	101	111	103	104	107	103	107	112	110	105	107	106	106	106	105	107	104	103	102	101	99	95	94	91	88	85	81
A-WEIGHTED (LwA)	113	56	72	68	74	81	81	88	96	96	94	98	100	101	102	103	106	104	104	103	102	100	96	95	92	88	83	79

Figure 88: DT367 Downhill



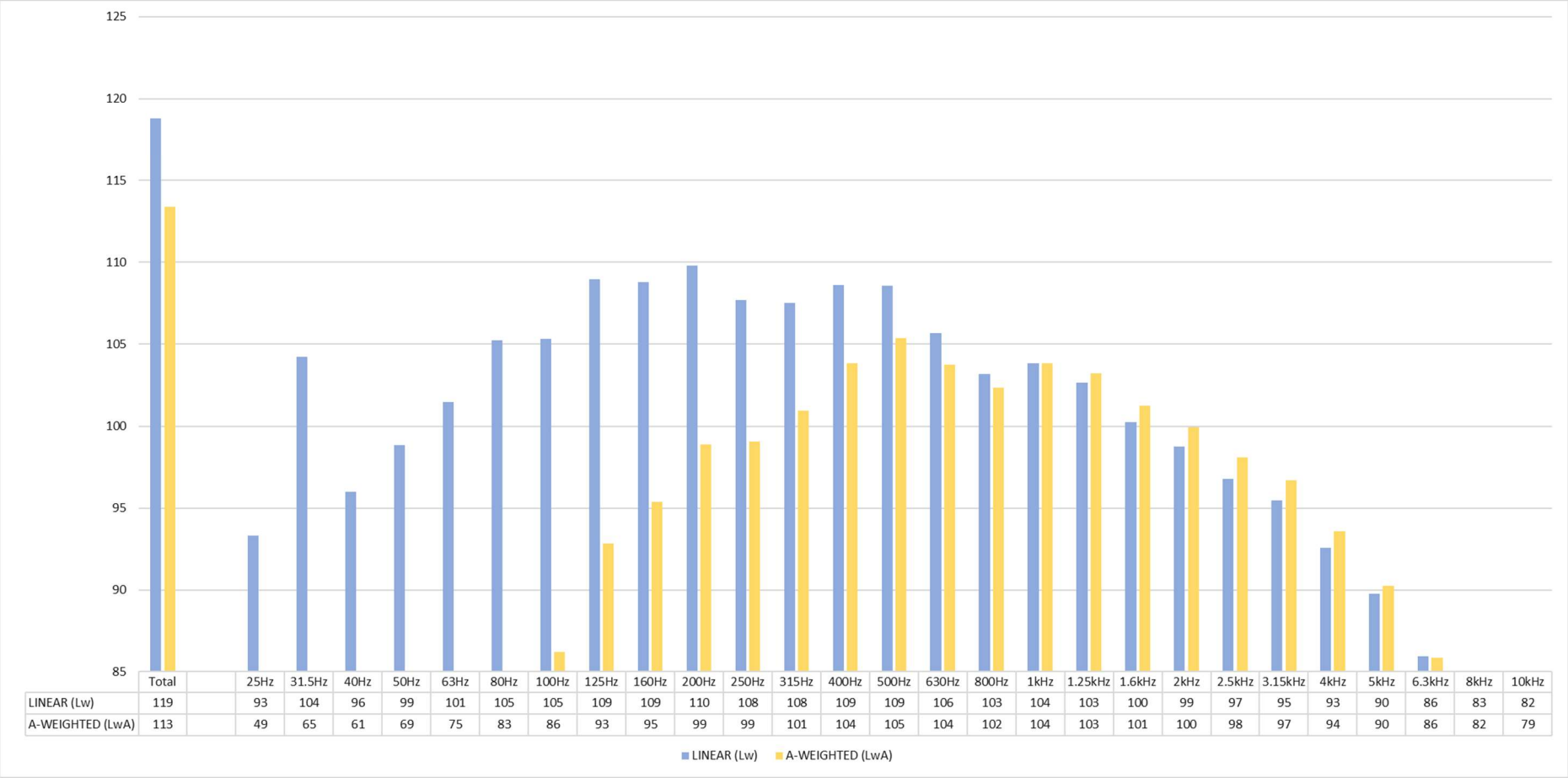
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		95	102	100	99	102	100	105	108	108	112	108	107	107	108	106	102	103	103	100	98	97	96	92	89	85	82	80
A-WEIGHTED (LwA)	113		50	63	66	69	75	77	86	92	95	101	99	101	102	104	104	102	103	104	101	100	98	97	93	90	85	81	78

Figure 89: EX125 Stationary



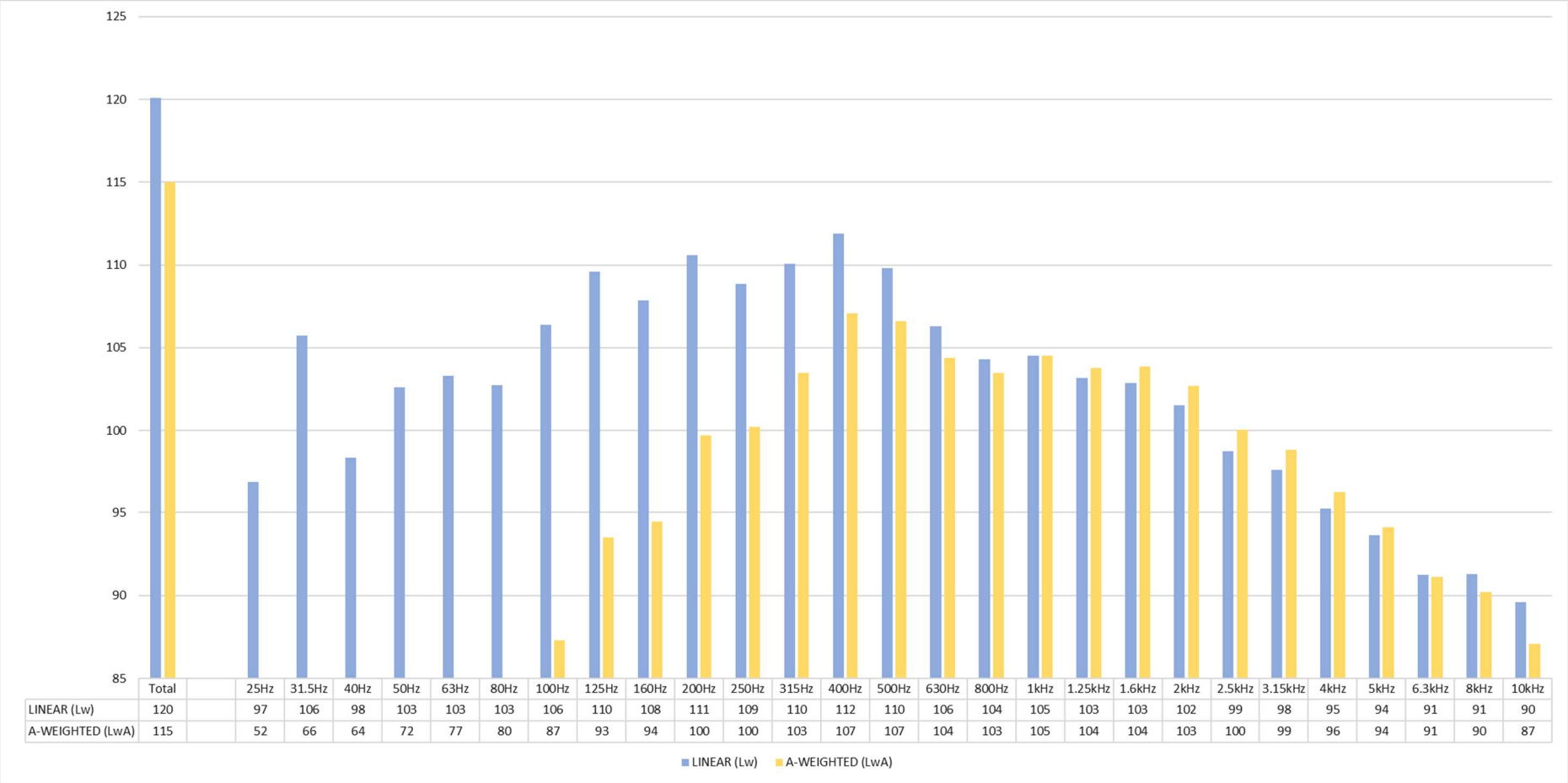
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	121		97	105	102	103	108	102	106	111	108	112	109	109	112	110	106	104	105	104	103	102	100	99	96	94	92	92	90
A-WEIGHTED (LwA)	115		53	66	67	73	82	79	87	95	94	101	100	103	107	107	104	103	105	105	104	103	101	100	97	95	91	91	87

Figure 90: EX125 Dynamic



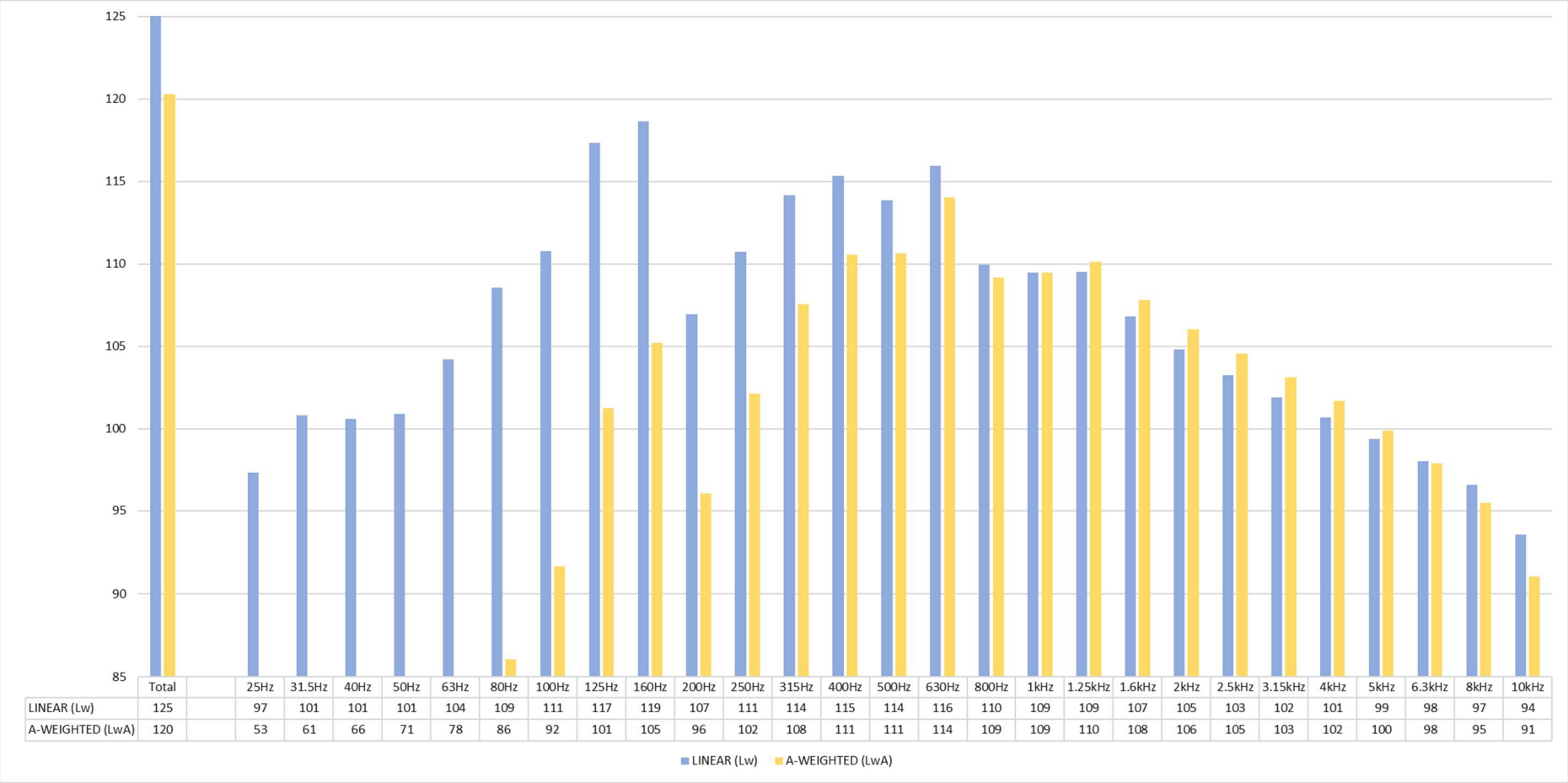
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	119		93	104	96	99	101	105	105	109	109	110	108	108	109	109	106	103	104	103	100	99	97	95	93	90	86	83	82
A-WEIGHTED (LwA)	113		49	65	61	69	75	83	86	93	95	99	99	101	104	105	104	102	104	103	101	100	98	97	94	90	86	82	79

Figure 91: EX129 Stationary



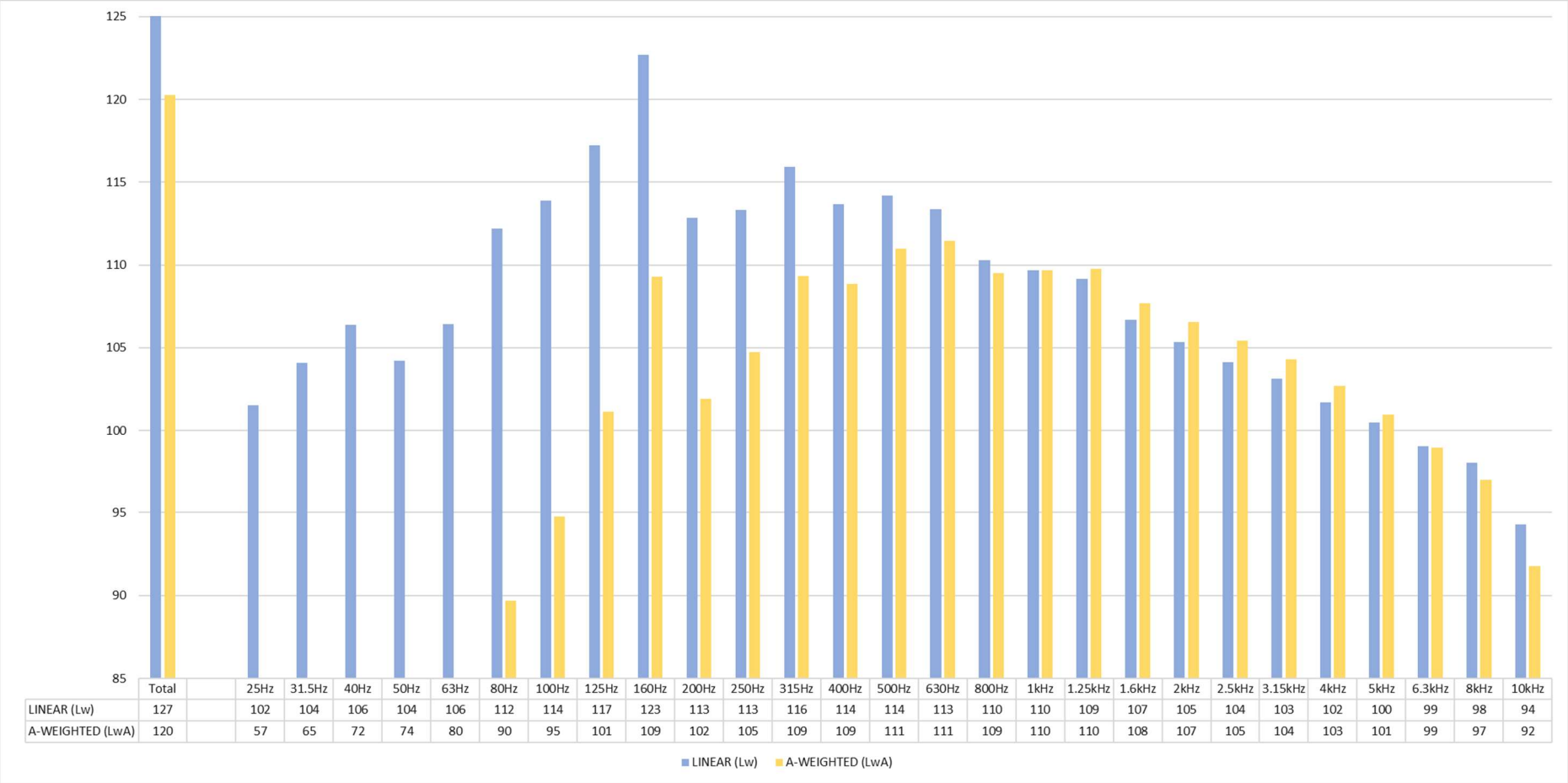
	Total	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	120	97	106	98	103	103	103	106	110	108	111	109	110	112	110	106	104	105	103	103	102	99	98	95	94	91	91	90
A-WEIGHTED (LwA)	115	52	66	64	72	77	80	87	93	94	100	100	103	107	107	104	103	105	104	104	103	100	99	96	94	91	90	87

Figure 92: EX129 Dynamic



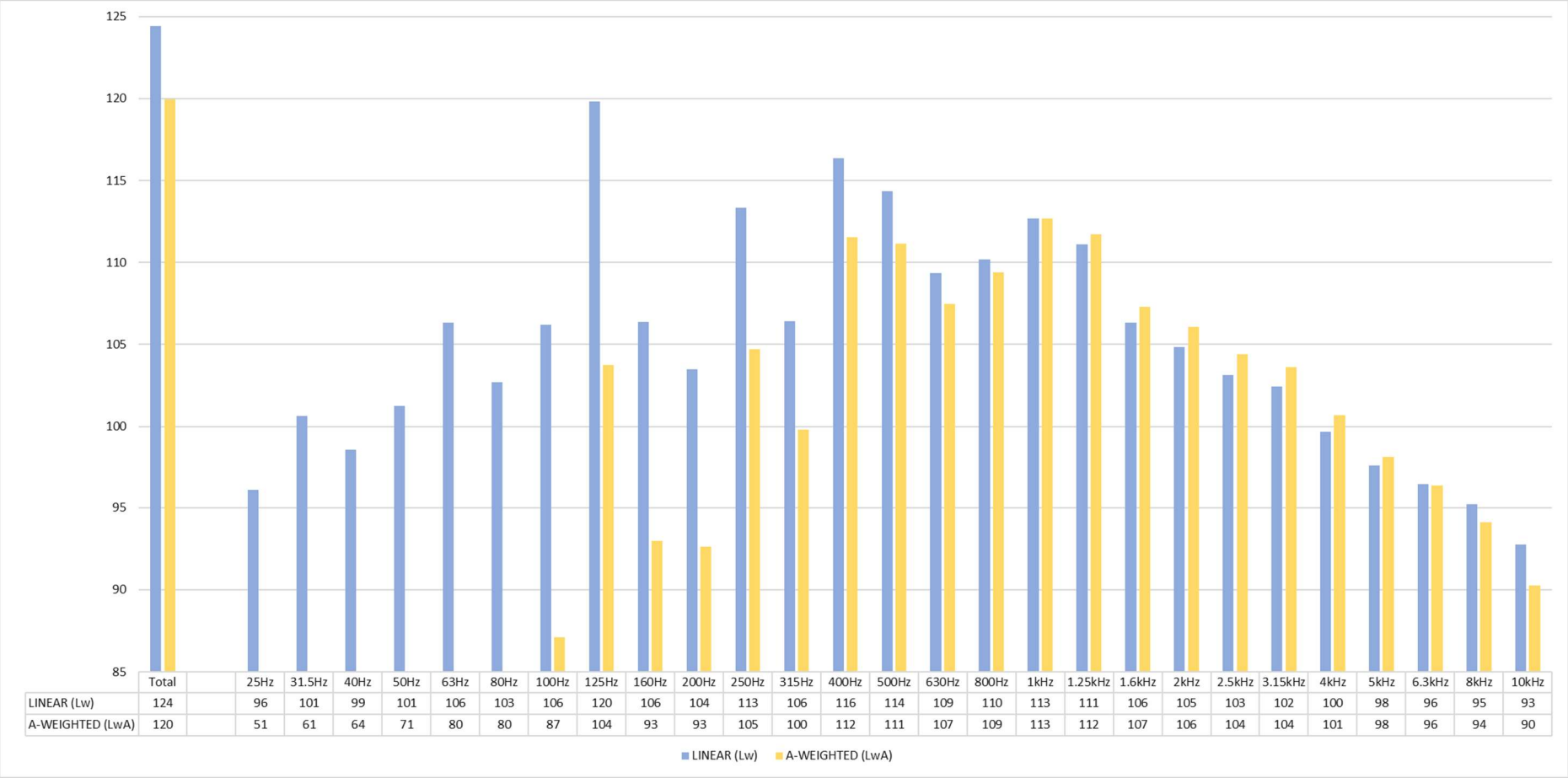
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	125		97	101	101	101	104	109	111	117	119	107	111	114	115	114	116	110	109	109	107	105	103	102	101	99	98	97	94
A-WEIGHTED (LwA)	120		53	61	66	71	78	86	92	101	105	96	102	108	111	111	114	109	109	110	108	106	105	103	102	100	98	95	91

Figure 93: EX258 Stationary



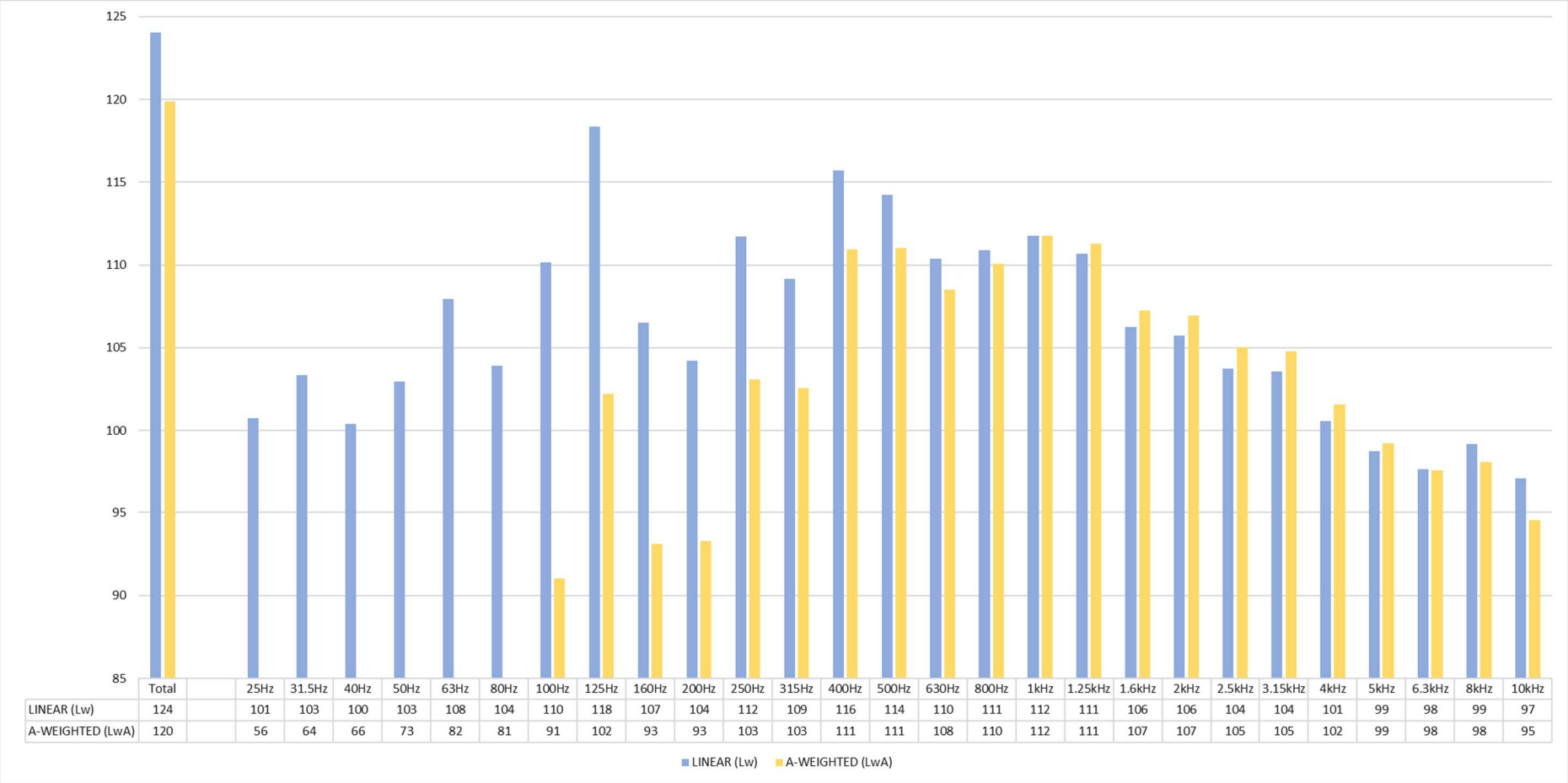
	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	127		102	104	106	104	106	112	114	117	123	113	113	116	114	114	113	110	110	109	107	105	104	103	102	100	99	98	94
A-WEIGHTED (LwA)	120		57	65	72	74	80	90	95	101	109	102	105	109	109	111	111	109	110	110	108	107	105	104	103	101	99	97	92

Figure 94: EX258 Dynamic



	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	124		96	101	99	101	106	103	106	120	106	104	113	106	116	114	109	110	113	111	106	105	103	102	100	98	96	95	93
A-WEIGHTED (LwA)	120		51	61	64	71	80	80	87	104	93	93	105	100	112	111	107	109	113	112	107	106	104	104	101	98	96	94	90

Figure 95: EX259 Stationary



	Total		25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
LINEAR (Lw)	124		101	103	100	103	108	104	110	118	107	104	112	109	116	114	110	111	112	111	106	106	104	104	101	99	98	99	97
A-WEIGHTED (LwA)	120		56	64	66	73	82	81	91	102	93	93	103	103	111	111	108	110	112	111	107	107	105	105	102	99	98	98	95

Figure 96: EX259 Dynamic