

"Brown and Sharpe".tex

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1 Brown & Sharpe Catalog 29 Information

1.1 Sizes of Numbers of the United States Standard Gauge

Source: Brown & Sharpe Catalog No. 29, 1924, pages 172 and 173. For gauges 39 through 44 the source was Lufkin Precision Tools, Catalog No. 7, page T138.

This is an slightly changed item from the Brown & Sharpe catalog about an act of Congress that established this set of values as the "Standard Gauge Sizes" for use in the United States.

Yes the title of this section came directly from the page in the Brown & Sharpe catalog. It is not a typing error from me.

For Sheet and Plate Iron and Steel

An Act

Establishing a Standard Gauge for Sheet and Plate Iron and Steel.

Be it enacted by the Senate and the House of Representatives of the United States of America in Congress assembled:

That for the purpose of securing uniformity the following is established as the only gauge for sheet and plate iron and steel in the United States of America nameley:

Gauge	Thickness in Frac- tions	Thickness in Deci- mal	Gauge	Thickness in Frac- tions	Thickness in Deci- mal	Gauge	Thickness in Frac- tions	Thickness in Deci- mal
0 000 000	1/2	.5	11	1/8	.125	28	1/64	.015625
000 000	15/32	.46875	12	7/64	.109375	29	9/640	.0140625
00 000	7/17	.4375	13	3/32	.09375	30	1/80	.0125
0 000	13/32	.40625	14	5/64	.078125	31	7/640	.0109375
000	3/8	.375	15	9/128	.0703125	32	13/1280	.01015625
00	11/32	.34375	16	1/16	.0625	33	3/320	.009375
0	5/16	.3125	17	9/160	.05625	34	11/1280	.00859375
1	9/32	.28125	18	1/20	.05	35	5/640	.0078125
2	17/64	.265625	19	7/160	.04375	36	9/1280	.00703125
3	1/4	.25	20	3/80	.0375	37	17/2560	.006640625
4	15/64	.235375	21	11/320	.034375	38	1/160	.00625
5	7/32	.21875	22	1/32	.03125	39	15/2560	.005859375
6	13/64	.203125	23	9/320	.028125	40	7/1280	.00546875
7	3/16	.1875	24	1/40	.025	41	27/5120	.0052734375
8	11/64	.171875	25	7/320	.021875	42	13/2560	.005078125
9	5/32	.15625	26	3/160	.01875	43	25/5120	.0048828125
10	9/64	.140625	27	11/640	.0171875	44	3/640	.0046875

Table 1: United States Standard Gage

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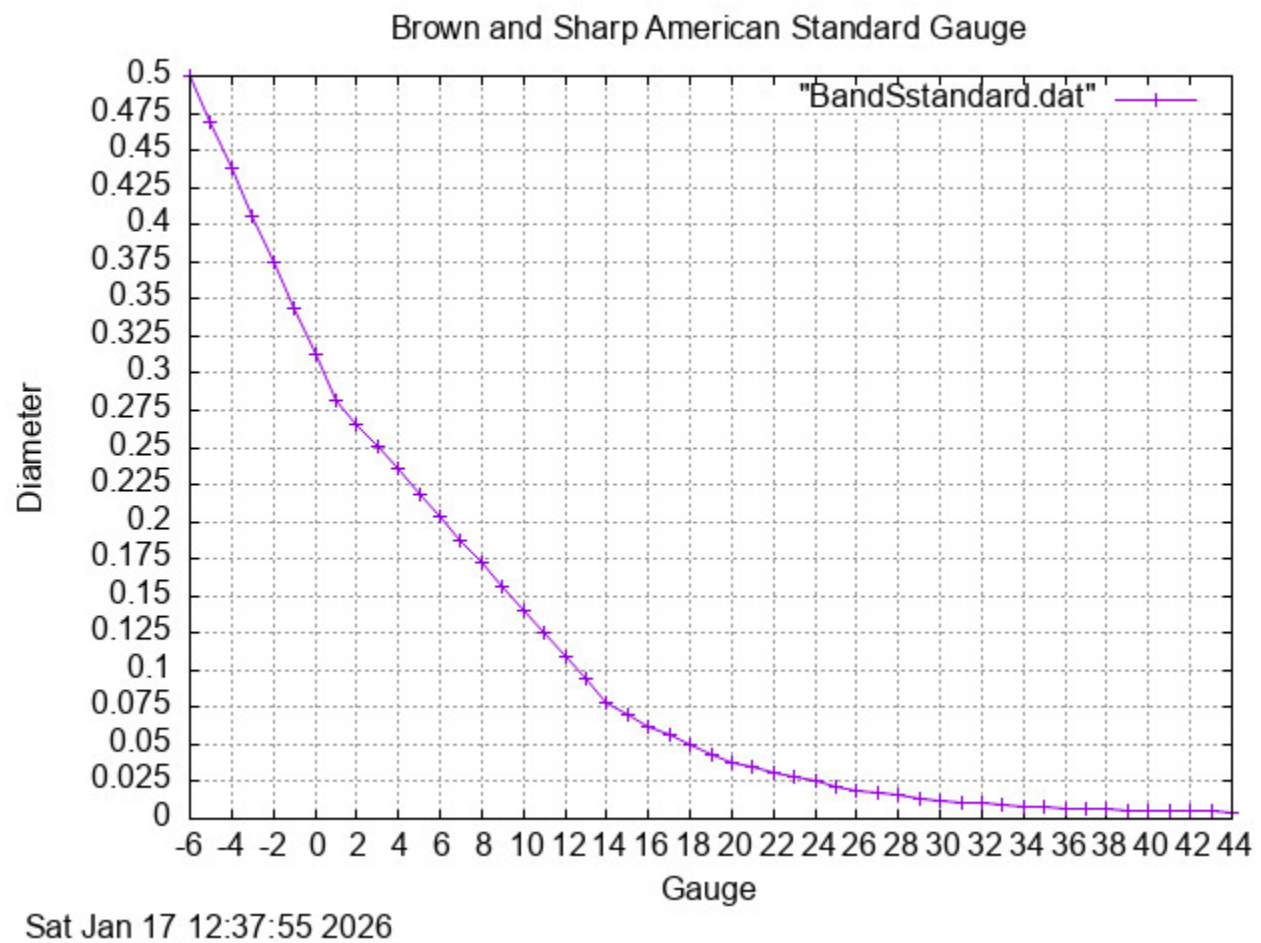


Figure 1: American Standard Gauge for Sheet and Plate Iron and Steel

1.2 Stubs' Steel Wire Gauge

Source: Brown & Sharpe Small Tools in Catlog No. 29, 1924, page 175.

Table of Decimal Equivalents Stubs Steel Wire Gauge							
Z	.413	1	.227	28	.139	55	.050
Y	.404	2	.219	29	.134	56	.045
X	.397	3	.212	30	.127	57	.042
W	.386	4	.207	31	.120	58	.041
V	.377	5	.204	32	.115	59	.040
U	.368	6	.201	33	.112	60	.039
T	.358	7	.199	34	.110	61	.038
S	.348	8	.197	35	.108	62	.037
R	.339	9	.194	36	.106	63	.036
Q	.332	10	.191	37	.103	64	.035
P	.323	11	.188	38	.101	65	.033
O	.316	12	.185	39	.099	66	.032
N	.302	13	.182	40	.097	67	.031
M	.295	14	.180	41	.095	68	.030
L	.290	15	.178	42	.092	69	.029
K	.281	16	.175	43	.088	70	.027
J	.277	17	.172	44	.085	71	.026
I	.272	18	.168	45	.081	72	.024
H	.266	19	.164	46	.079	73	.023
G	.261	20	.161	47	.077	74	.022
F	.257	21	.157	48	.075	75	.021
E	.250	22	.155	49	.072	76	.018
D	.246	23	.153	50	.069	77	.016
C	.242	24	.151	51	.066	78	.015
B	.238	25	.148	52	.063	79	.014
A	.234	26	.146	53	.058	80	.013
		27	.143	54	.055		

Table 2: Stubs' Steel Wire Gauge from Brown & Sharp Catlog 25, 1924

Stub's Gauges

In using the gauges known as Stub's Gauges, there should be constantly borne in mind the difference between the Stubs' Iron Wire Gauge and the Stubs' Steel Wire Gauge.

The Stubs' Iron Wire Gauge is the one commonly known as the English Standard Wire, or Birmingham Gauge, and designates the Stubs' soft wire sizes.

The Stubs' Steel Wire Gauge is the one that is used in measuring drawn steel wire or drill rods of the Stubs' make is also used by many makers of America drill rods.

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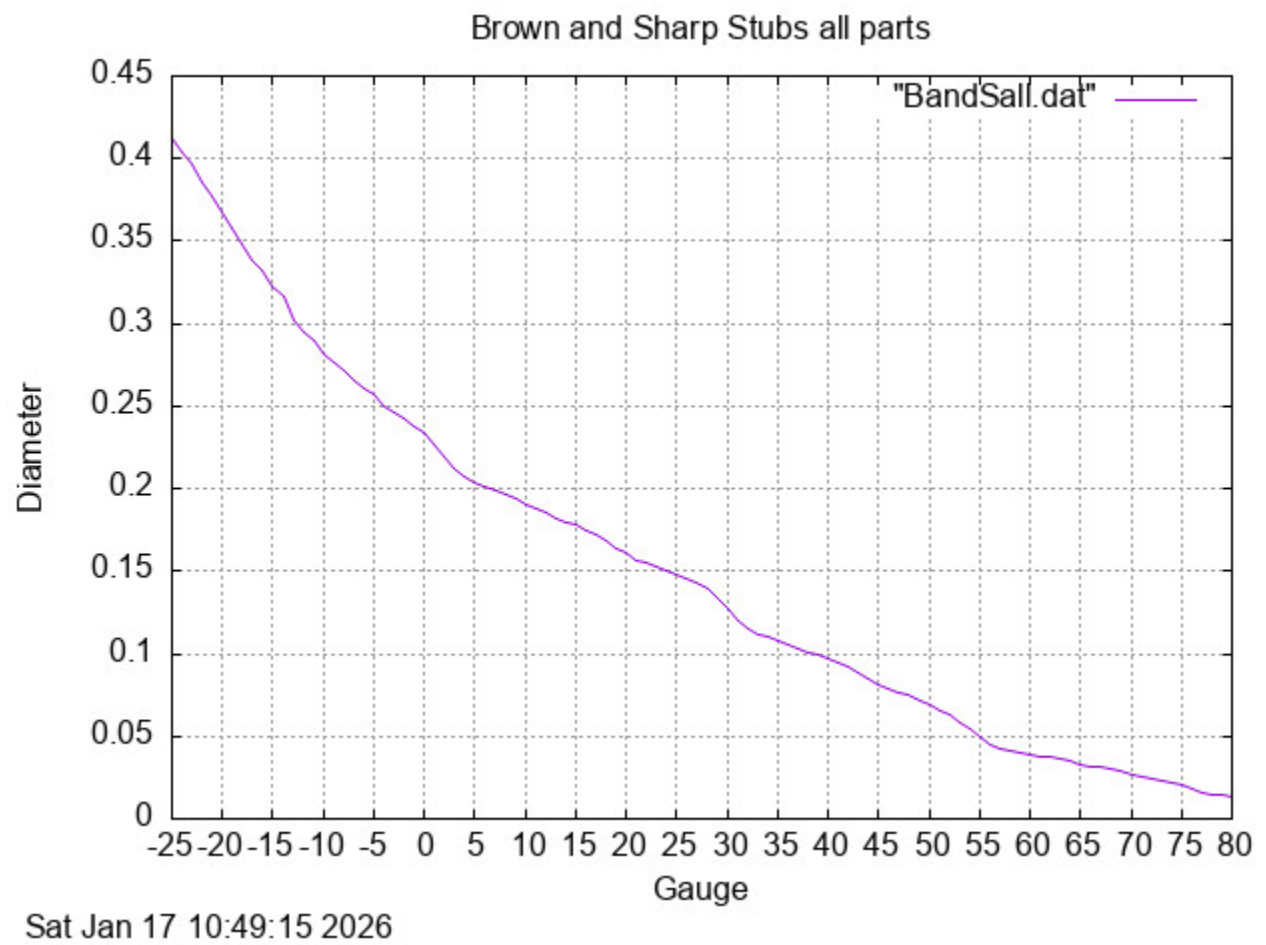
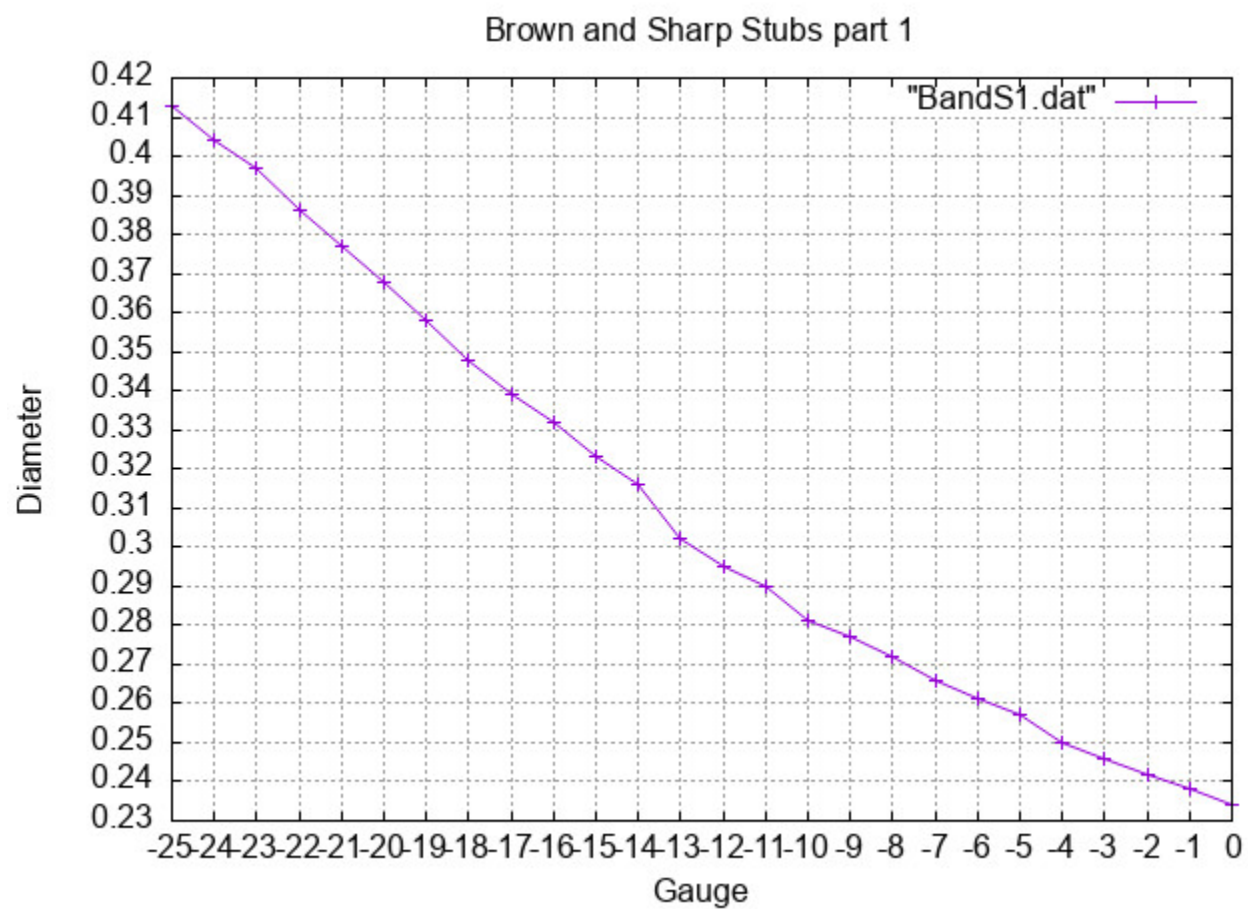


Figure 2: Brown and Sharpe full plot



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Figure 3: Brown and Sharp detailed plot 1 of 4

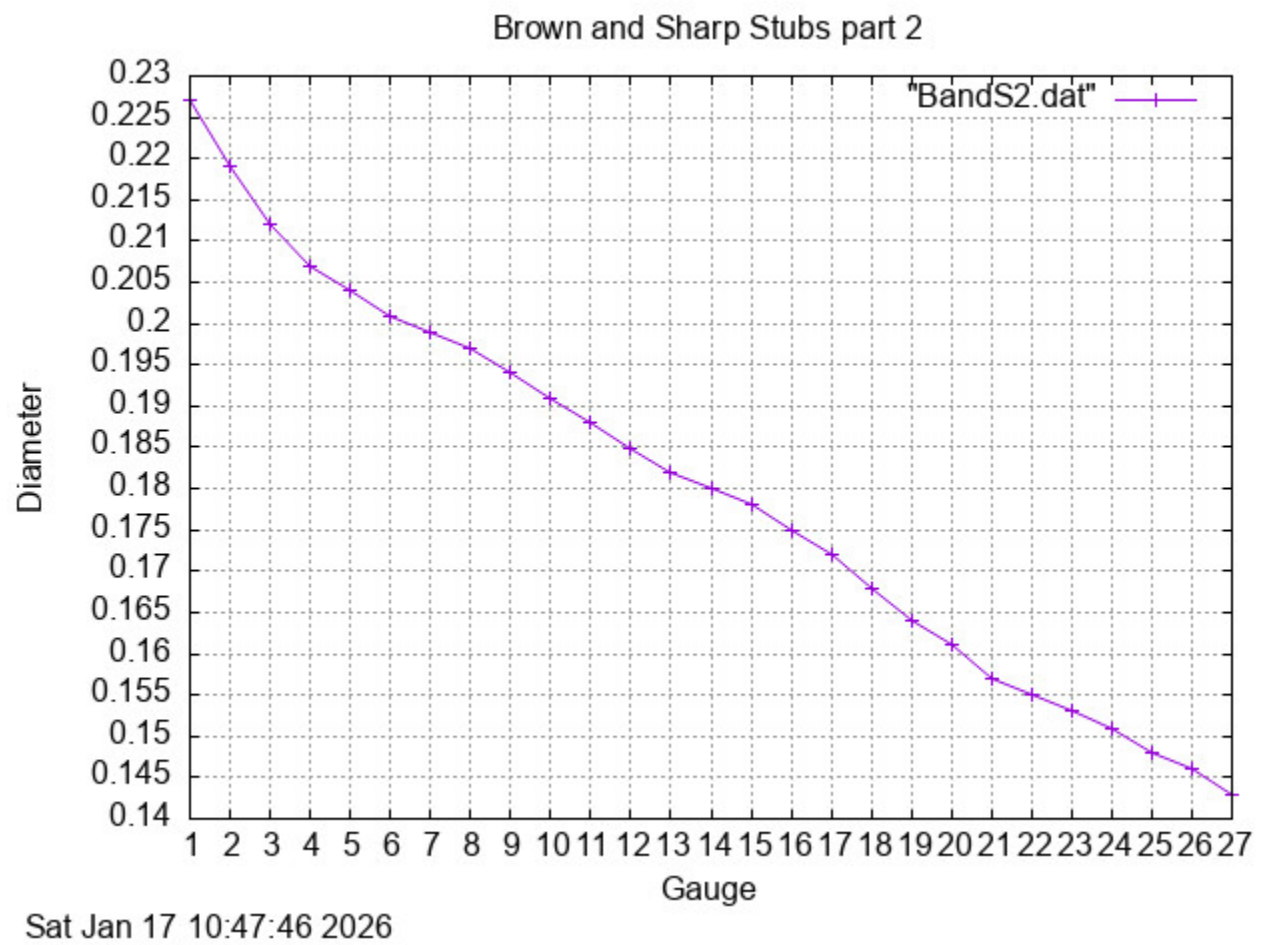


Figure 4: Brown and Sharp detailed plot 2 of 4

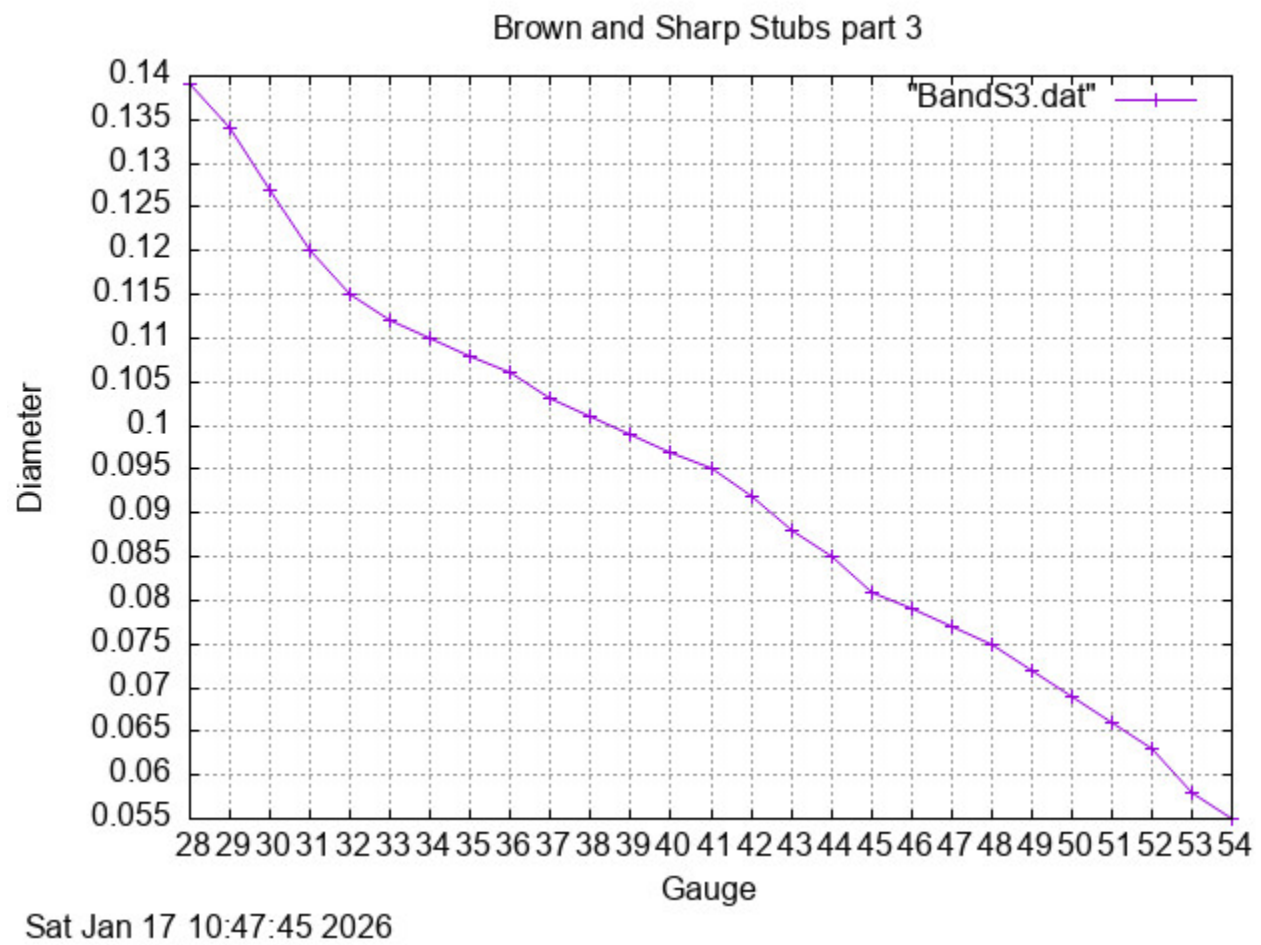


Figure 5: Brown and Sharp detailed plot 3 of 4

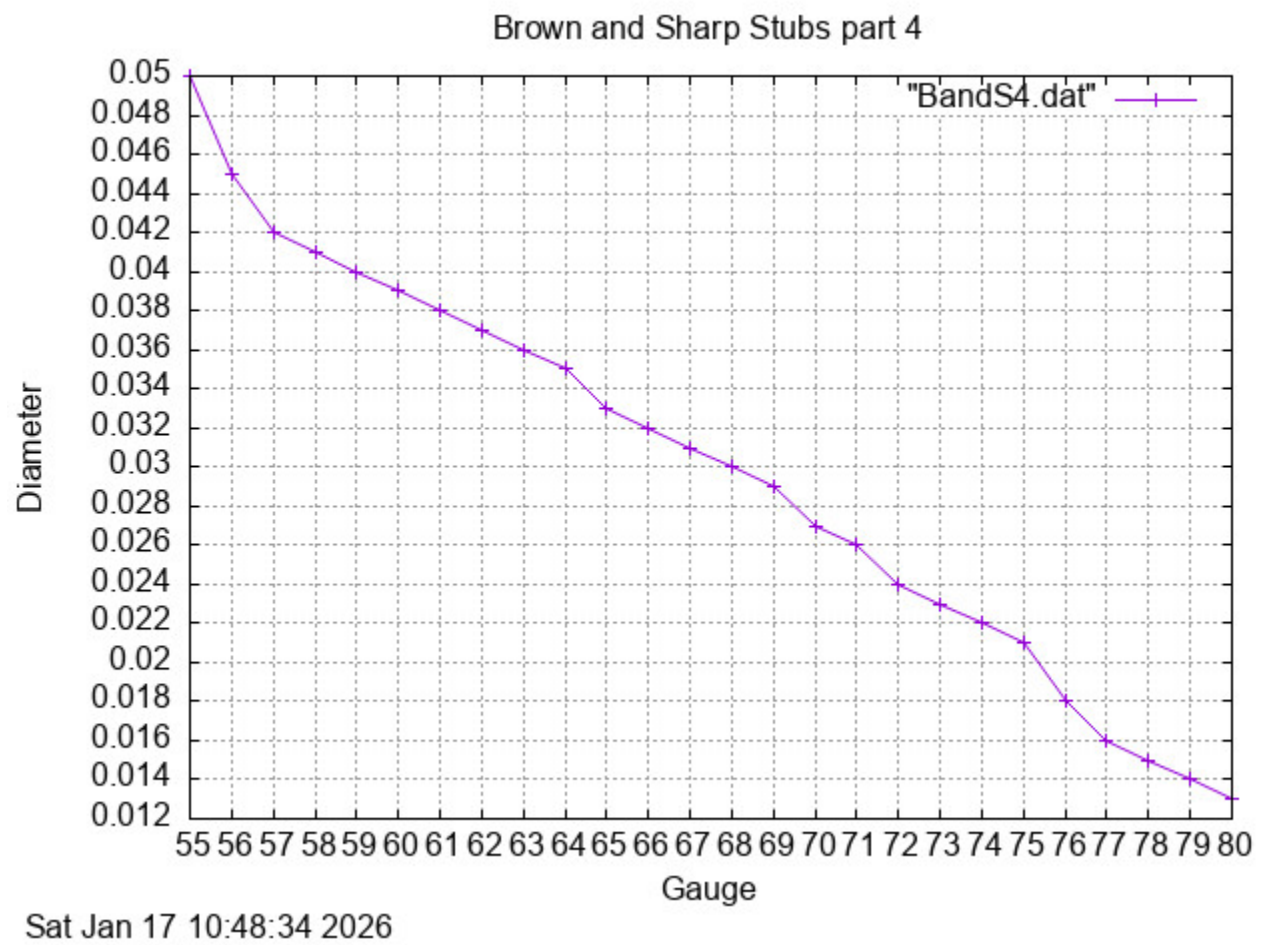


Figure 6: Brown and Sharp detailed plot 4 of 4

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