

forms of burners in use, with the two kinds of gas sold in New York. The pressure gauge, test meter and photometer used were instruments of the finest make.

FIVE-FOOT SCOTCH TIP—COAL GAS.

CONSUMPTION.	METER PRESSURE.	OBSERVED CANDLE POWER	CORRECTED CANDLE POWER	CANDLES PER FOOT.
4.75	.50	2.98	3.15	.66
6.30	1.00	3.04	3.19	.50
7.85	1.50	2.80	3.10	.39
8.90	2.00	3.06	3.33	.37
9.90	2.50	3.15	3.04	.30
10.85	3.00	3.00	3.00	.27

FIVE-FOOT SCOTCH TIP—WATER GAS.

CONSUMPTION.	METER PRESSURE.	OBSERVED CANDLE POWER	CORRECTED CANDLE POWER	CANDLES PER FOOT.
3.75	.50	9.92	10.51	2.80
5.10	1.00	11.52	12.55	2.46
6.40	1.50	8.96	9.64	1.50
7.15	2.00	9.04	9.40	1.31
8.05	2.50	8.92	9.00	1.11
9.10	3.00	11.56	11.79	1.29

A glance at these figures tells the story. The man is robbed of his money and deprived of his light.

But this is not all. The consumer has to pay for twice as much gas as he can burn, and gets less illumination than if he was paying for one-half the quantity. In addition to this the atmosphere he breathes is poisoned.

When a man sits down at home in the evening and sees his gas burning in sharp, pointed shapes like fiery maple leaves, he