$$P \approx (1.634459) - (1.6417128) \cdot \mathrm{erf}\left(\frac{r - 57.749051}{31.147374}\right)$$

Average power (mW)

Micrometer reading (um)

x_1	⠔	y_1
(		3.27
1(		3.22
2(		3.13
3(		2.94
4(		2.58
5(		2.09
6(		1.5028
7(		0.9424
8(		0.4974
9(		0.2372
10(		0.0772
11(		0.019084
12(		0.000646
13(		−0.004296
14(		−0.005692
15(		−0.006132
20(		−0.006494

2

◯ $(100, 1.8)$

3

∿ $y_1 \sim a - b \cdot \mathrm{erf}\!\left(\dfrac{x_1 - c}{w} \right)$

STATISTICS   RESIDUALS

$R^2 = 1$ e_1 [plot]

PARAMETERS

$a = 1.63446$ $b = 1.64171$
$c = 57.7491$ $w = 31.1474$