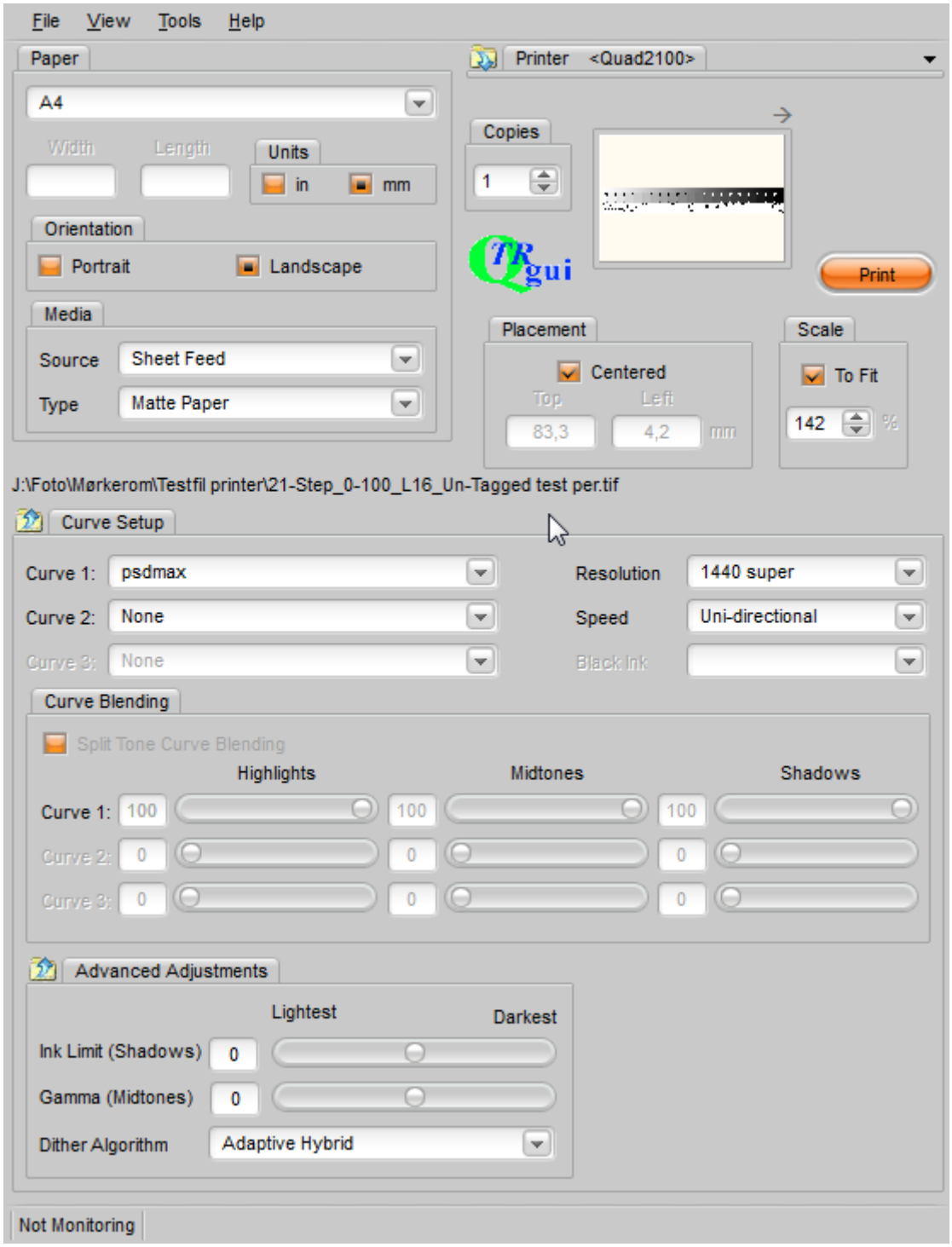
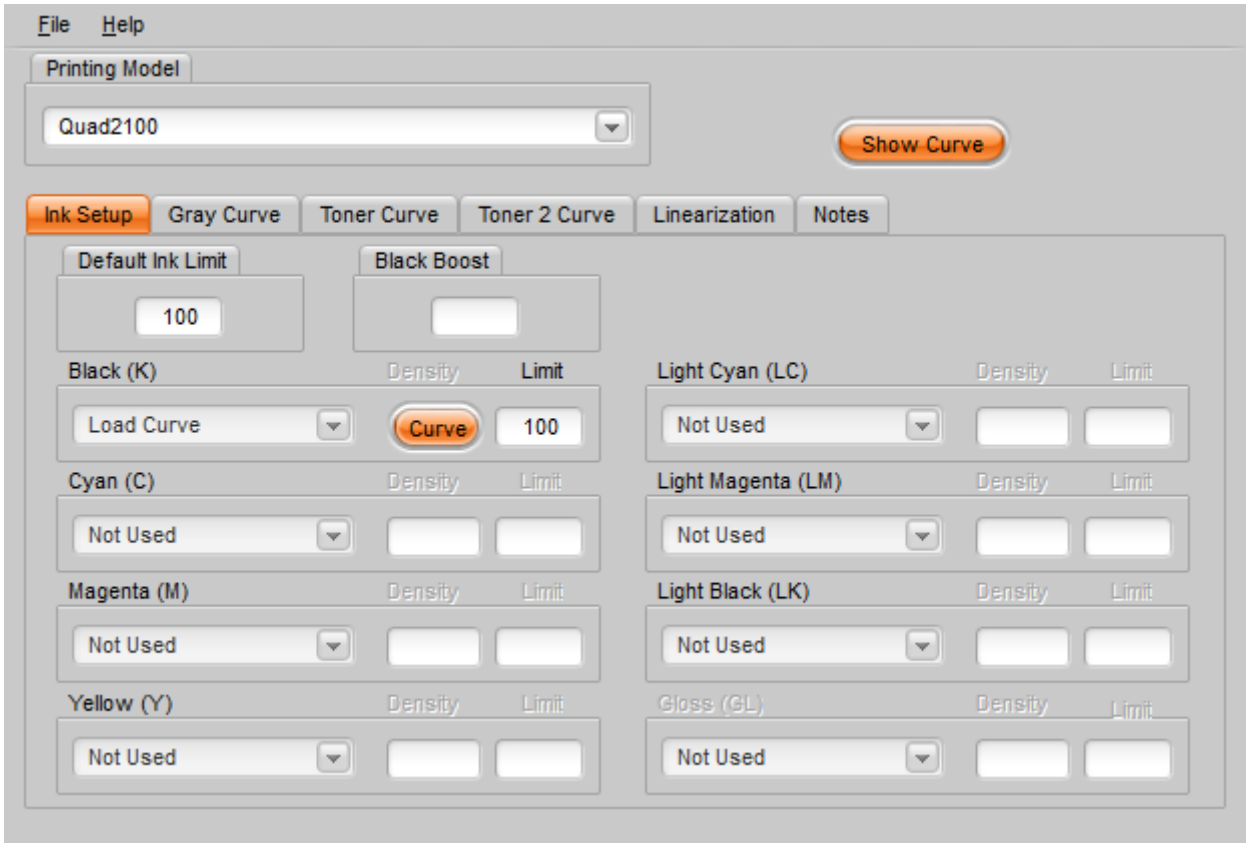
Workflow
Ebony 2 black, EEM, Epson 2100.

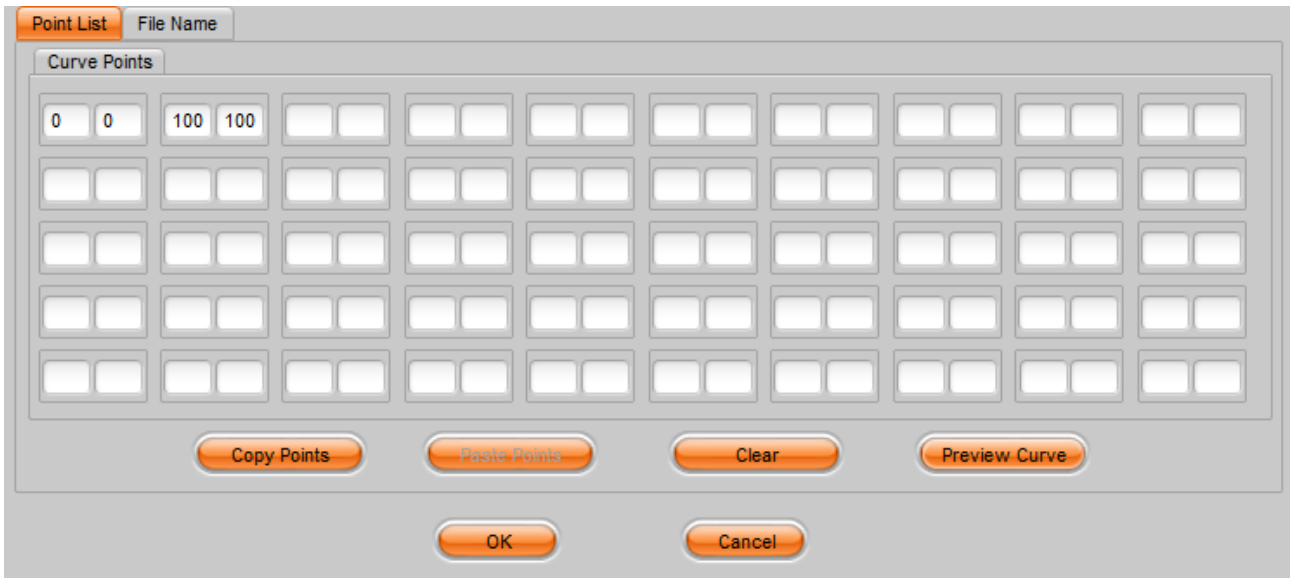
1. Set ink limit(D-max)

Make a print with these settings.



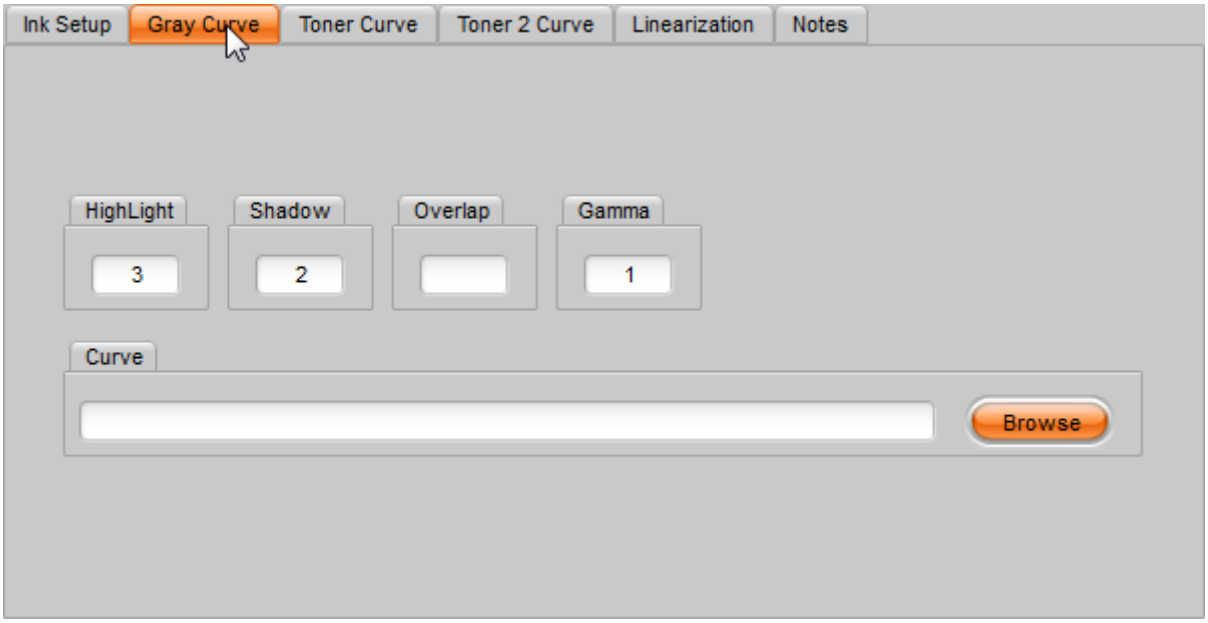
Go to «Tools» and «curve creation».



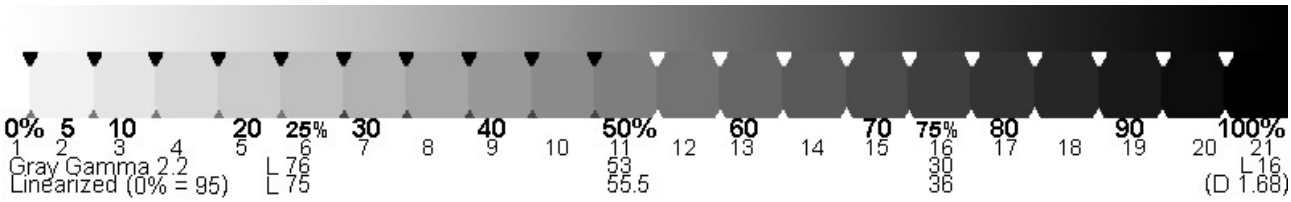


This gives a linear curve from white to black

«Gray»- og «toner curve» values. «Linearization» is blank.



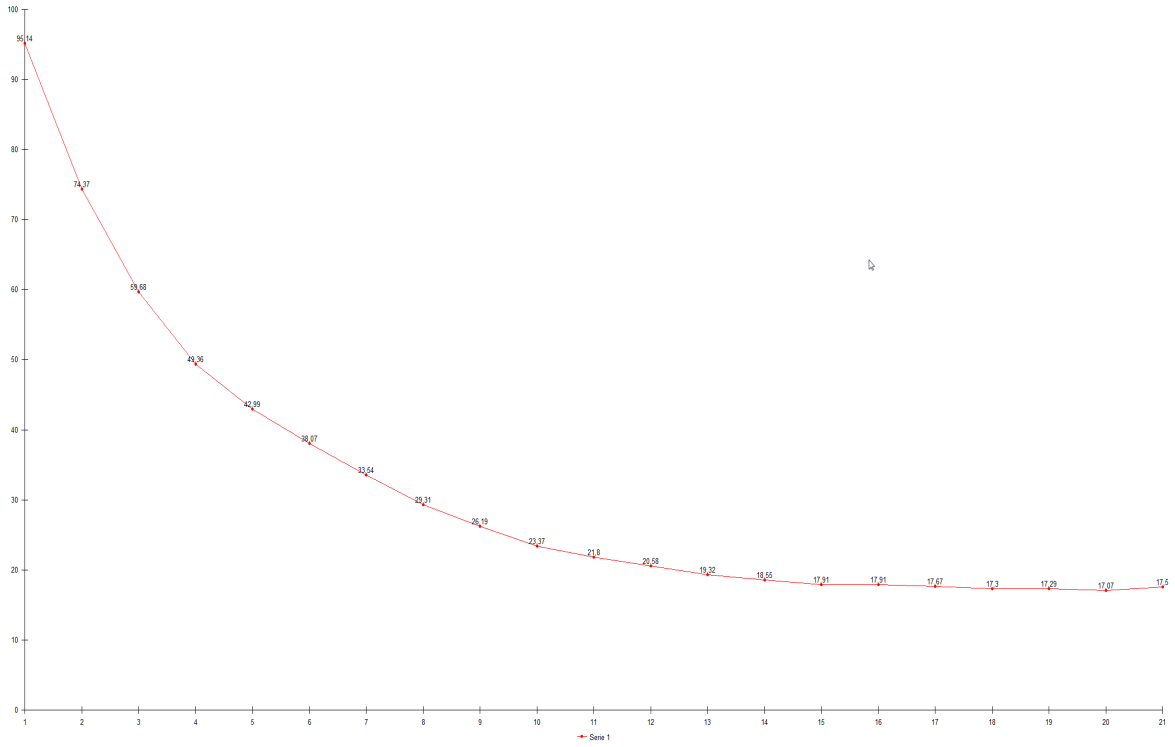
Print the 21 steep file, let dry, measure the Lab values and insert in excel.



Result from Spyder 3 print.

95,14	1,24	-0,37
74,37	1,28	0,92
59,68	1,33	2,12
49,36	1,34	2,67
42,99	1,64	2,62
38,07	1,27	2,49
33,54	1,40	2,43
29,31	0,82	2,23
26,19	0,92	1,60
23,37	0,82	1,12
21,80	0,71	1,17
20,58	0,84	0,63
19,32	0,59	0,46
18,55	1,21	0,12
17,91	0,65	0,39
17,91	0,65	0,38
17,67	0,92	0,47
17,30	0,39	0,15
17,29	0,41	0,16
17,07	0,74	0,34
17,53	0,18	0,23

Excel graph.

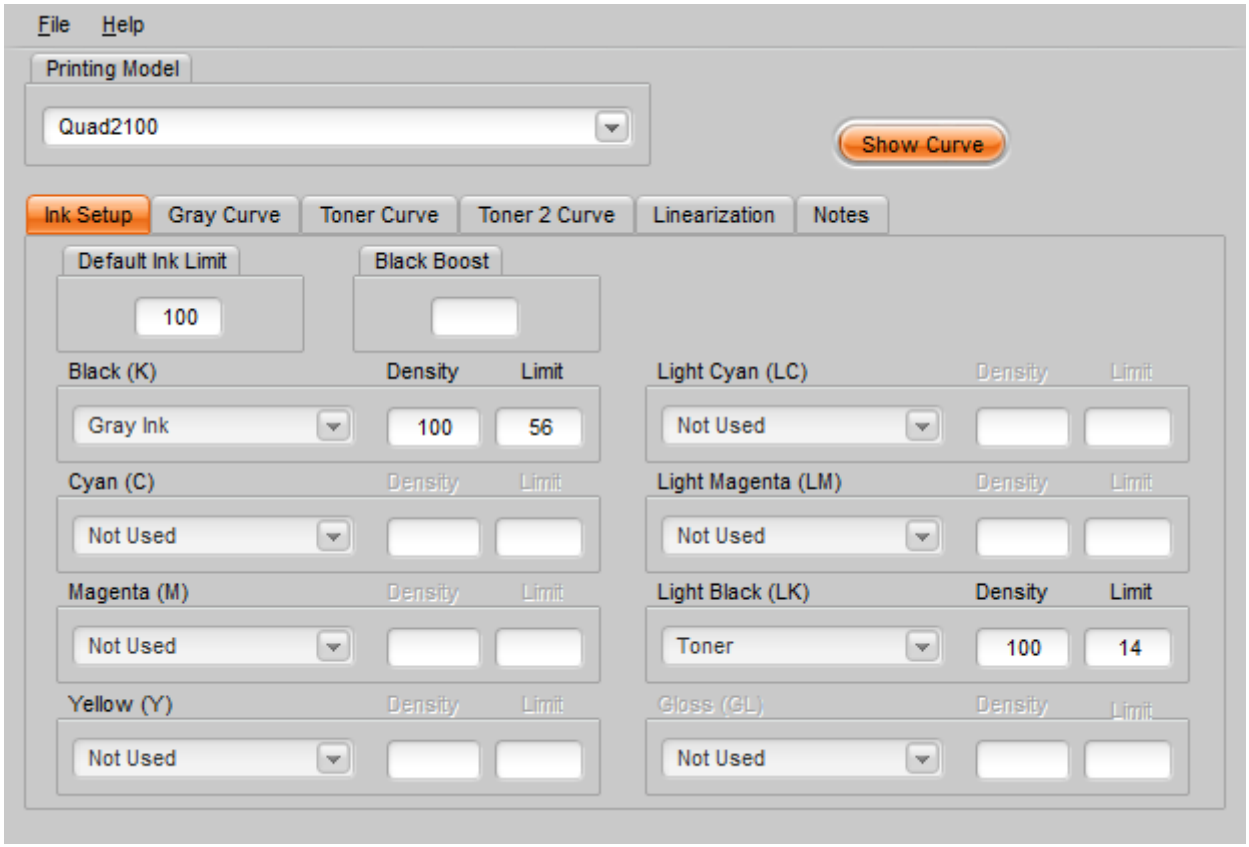


D-max(ink limit) is there curve flattens out. In this case it is set to 70%, Point 15

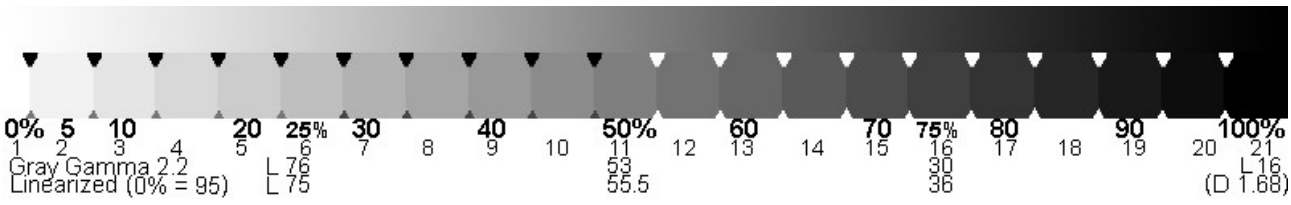
2. Pre Linearization.

Ink limit is 70. Split the two blacks by 80/20. This give ink limit 56/14. Boost zero.

Gray- og toner curve.(3-2-1)
Lineaization blank.



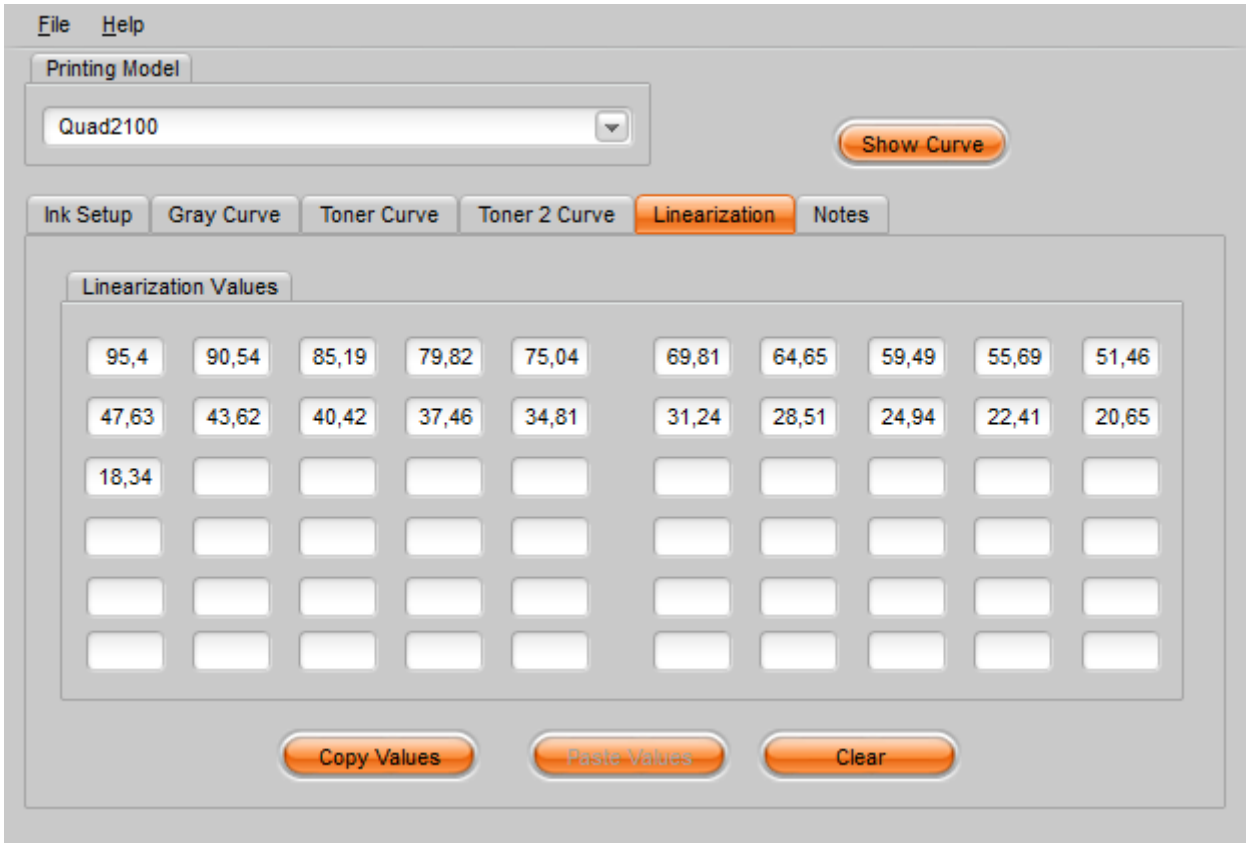
Print 21 steep file with these new values.



Dry and measure. Send the file to «QTR-Linearize-Data», If the curve is relatively linear, the values at the bottom of the file are copy to the flap Linearization.

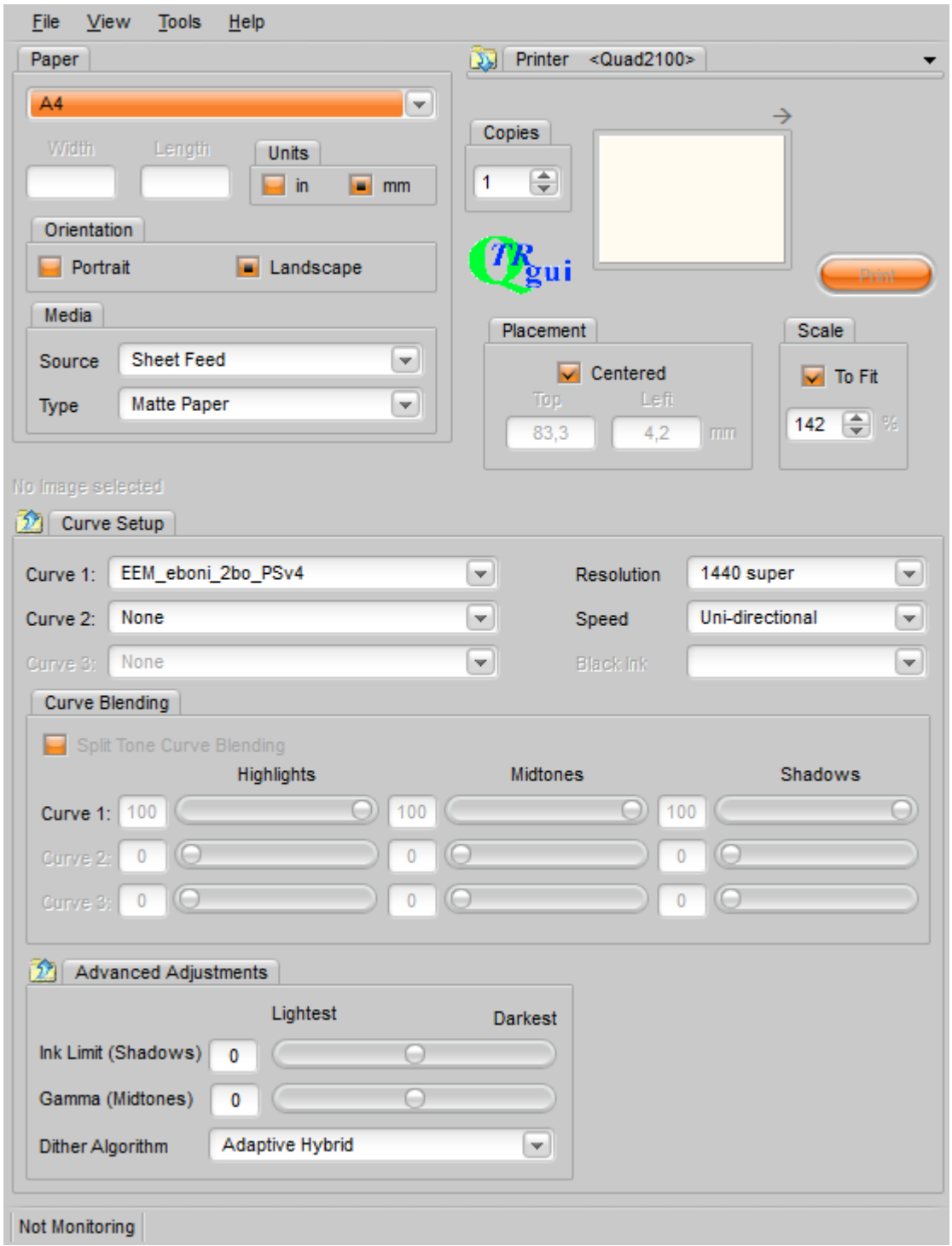
Result pre linearization.

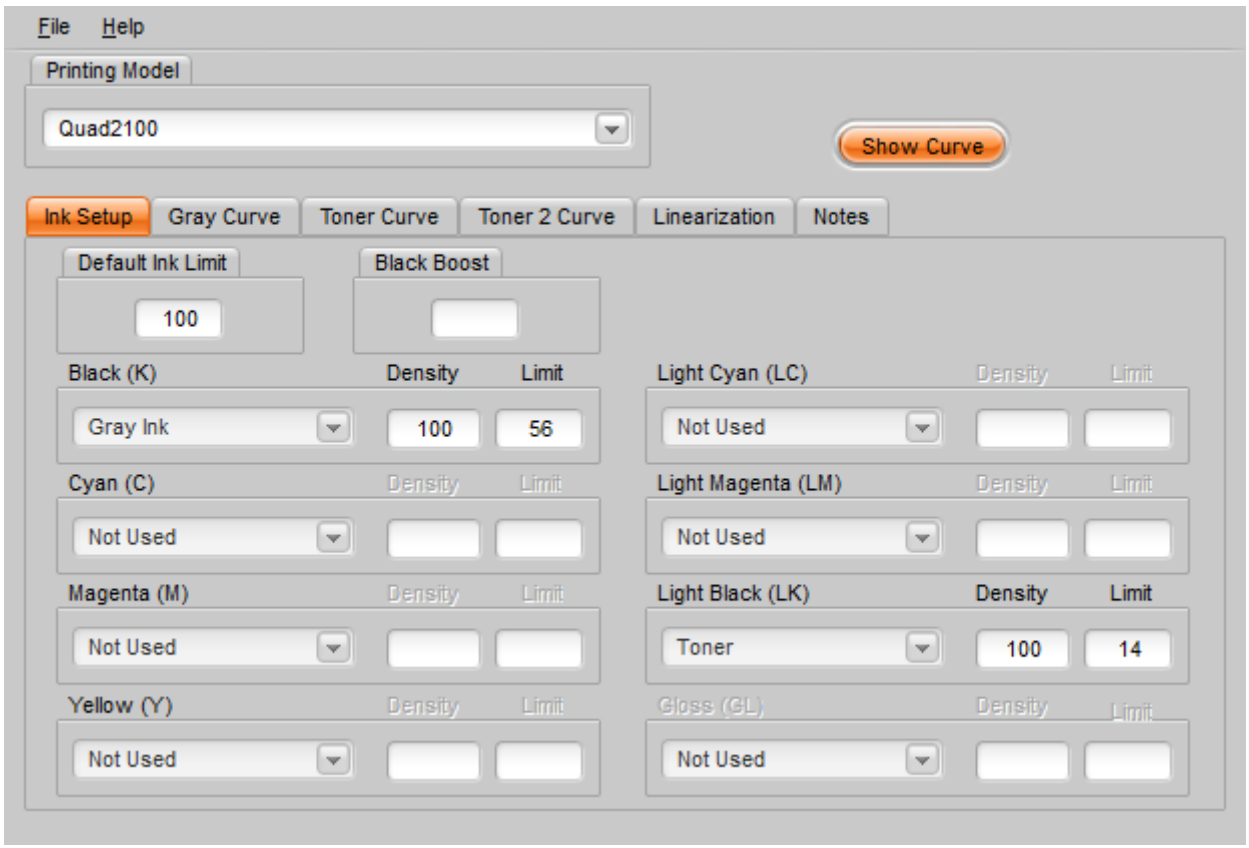
```
QTR-Linearize-Data version 2.7.0.0
File: C:\Users\Per studio\AppData\Roaming\Datacolor\Spyder3Print\Data\Export\Dmax ny 2-out.txt
Step    Dens    Lab     A       B
0.00    0.053   95.40   1.08    -0.74   -                                b  |   a                       L  +
5.00    0.111   90.54   0.98    -0.49   -                                 b |  a                    L     +
10.00   0.178   85.19   0.98    -0.10   -                                  b|  a                 L        +
15.00   0.249   79.82   0.96    0.35    -                                   |b a              L           +
20.00   0.316   75.04   1.11    0.60    -                                   | b a          L              +
25.00   0.393   69.81   1.03    1.07    -                                   |   b      L                 +
30.00   0.474   64.65   1.18    1.41    -                                   |   ab  L                    +
35.00   0.560   59.49   1.21    1.69    -                                   |   aLb                      +
40.00   0.627   55.69   1.28    1.93    -                                   |  L a b                     +
45.00   0.706   51.46   1.40    1.97    -                                  L    a b                    +
50.00   0.782   47.63   1.49    2.19    -                                L |    a  b                    +
55.00   0.867   43.62   1.69    2.19    -                             L    |     a b                    +
60.00   0.939   40.42   1.43    2.31    -                          L       |    a   b                   +
65.00   1.009   37.46   1.55    2.16    -                       L          |     a b                    +
70.00   1.076   34.81   1.11    2.22    -                    L             |    a   b                   +
75.00   1.170   31.24   1.56    1.99    -                 L                |     ab                     +
80.00   1.248   28.51   1.48    1.60    -              L                   |    ab                      +
85.00   1.357   24.94   1.11    1.34    -           L                      |   ab                       +
90.00   1.440   22.41   0.94    1.03    -        L                         |  ab                        +
95.00   1.501   20.65   0.64    0.54    -     L                            | b                          +
100.00  1.586   18.34   1.00    0.21    -  L                               b  a                         +

LINEARIZE="95.4 90.54 85.19 79.82 75.04 69.81 64.65 59.49 55.69 51.46 47.63 43.62 40.42 37.46 34.81 31.24 28.51 24.94 22.41 20.65 18.3
```

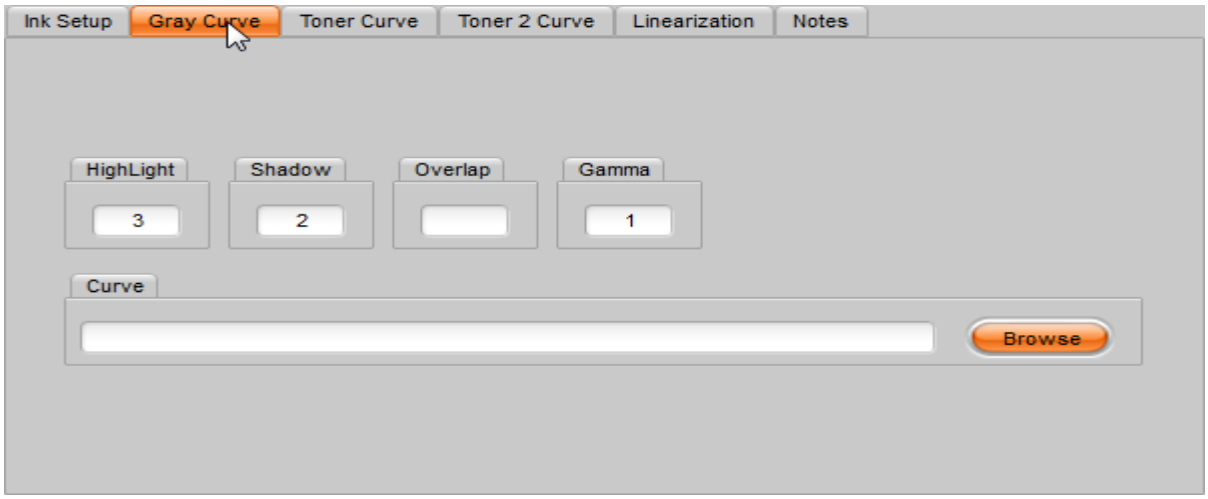


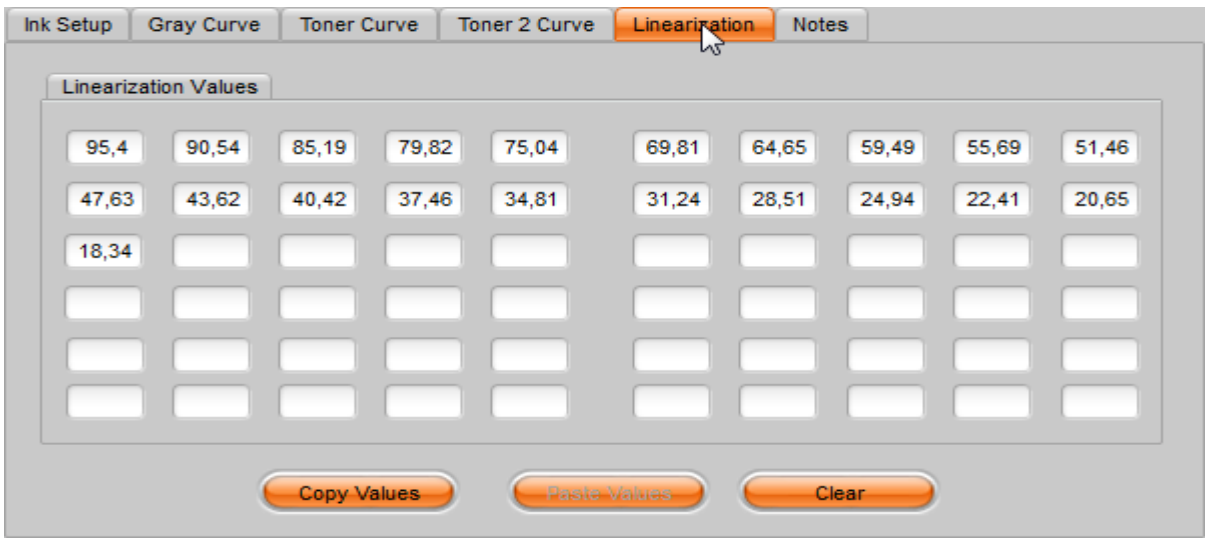
3. Linearization.

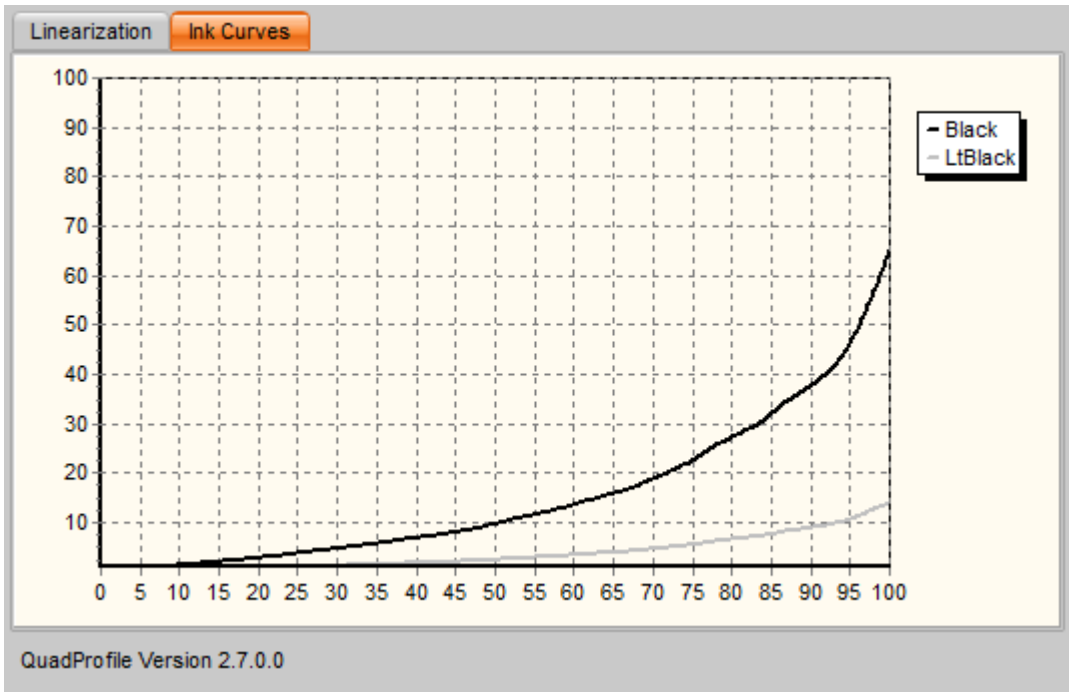
Print 21 steep with these settings.

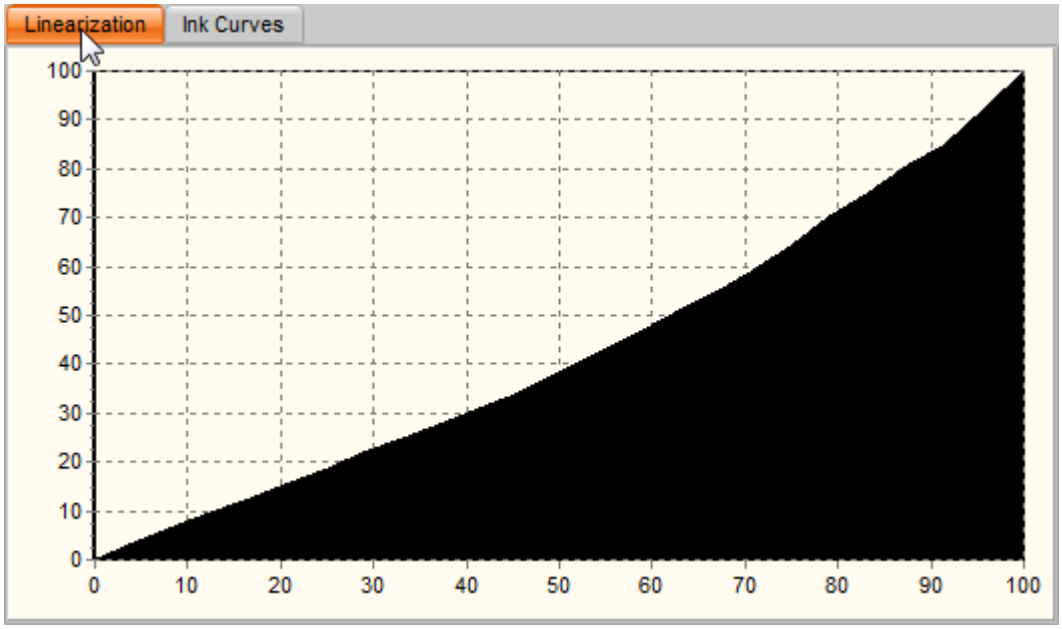



File
Help
Printing Model
Quad2100
Show Curve
Ink Setup
Gray Curve
Toner Curve
Toner 2 Curve
Linearization
Notes
Default Ink Limit
100
Black Boost
Black (K)
Density
Limit
Gray Ink
100
56
Light Cyan (LC)
Not Used
Cyan (C)
Not Used
Light Magenta (LM)
Not Used
Magenta (M)
Not Used
Light Black (LK)
Density
Limit
Toner
100
14
Yellow (Y)
Not Used
Gloss (GL)
Not Used

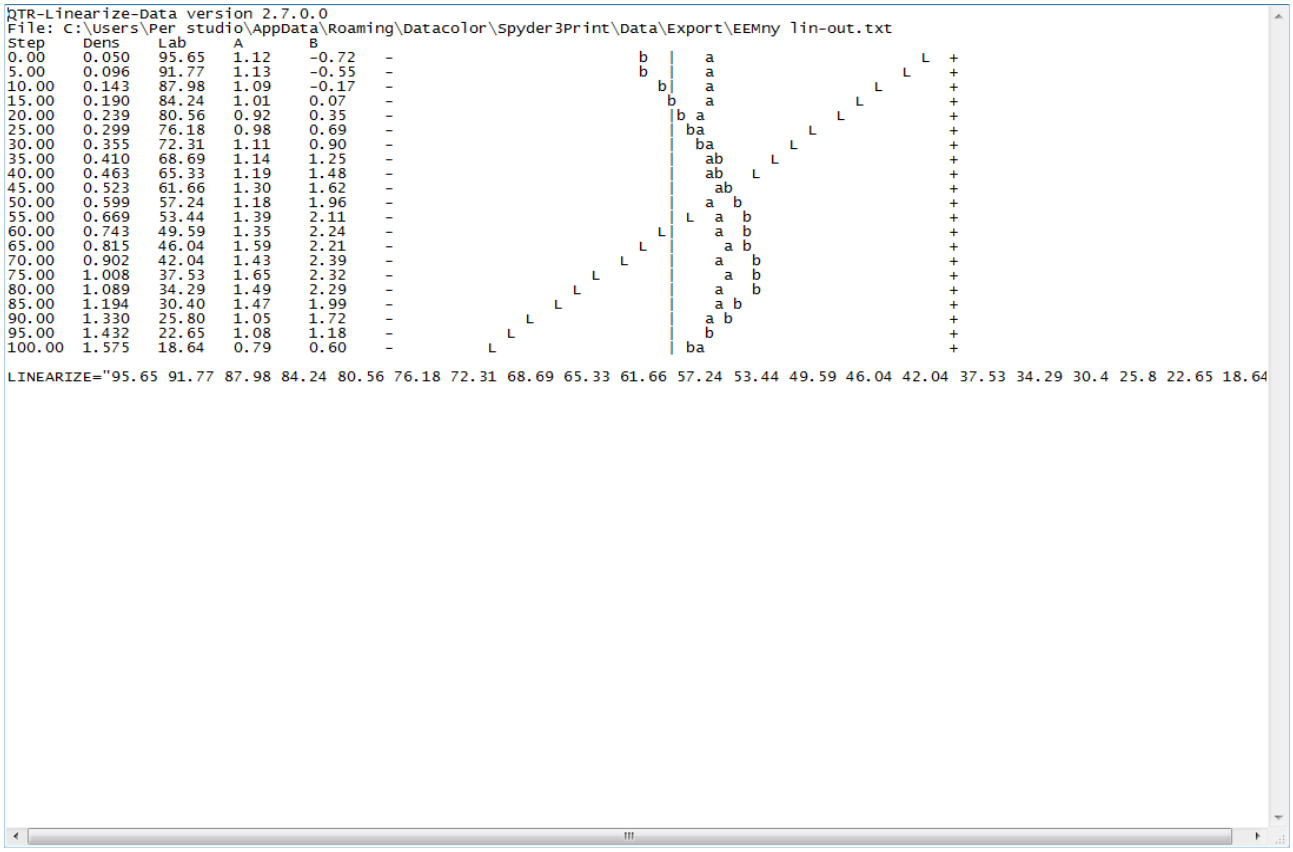

Ink Setup
Gray Curve
Toner Curve
Toner 2 Curve
Linearization
Notes
HighLight
3
Shadow
2
Overlap
Gamma
1
Curve
Browse


Ink Setup
Gray Curve
Toner Curve
Toner 2 Curve
Linearization
Notes
Linearization Values
95,4
90,54
85,19
79,82
75,04
69,81
64,65
59,49
55,69
51,46
47,63
43,62
40,42
37,46
34,81
31,24
28,51
24,94
22,41
20,65
18,34
Copy Values
Paste Values
Clear


Linearization
Ink Curves
100
90
80
70
60
50
40
30
20
10
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Black
LtBlack
QuadProfile Version 2.7.0.0


Linearization
Ink Curves
100
90
80
70
60
50
40
30
20
10
0
0 10 20 30 40 50 60 70 80 90 100

Result after linearization.



```
QTR-Linearize-Data version 2.7.0.0
File: C:\Users\Per studio\AppData\Roaming\Datacolor\Spyder3Print\Data\Export\EEMny lin-out.txt
Step    Dens    Lab     A       B
0.00    0.050   95.65   1.12    -0.72   -                           b  |   a                      L  +
5.00    0.096   91.77   1.13    -0.55   -                           b  |   a                    L    +
10.00   0.143   87.98   1.09    -0.17   -                             b|   a                 L       +
15.00   0.190   84.24   1.01    0.07    -                              b   a              L          +
20.00   0.239   80.56   0.92    0.35    -                               |b a           L             +
25.00   0.299   76.18   0.98    0.69    -                               | ba         L               +
30.00   0.355   72.31   1.11    0.90    -                               |  ba      L                 +
35.00   0.410   68.69   1.14    1.25    -                               |   ab     L                 +
40.00   0.463   65.33   1.19    1.48    -                               |   ab   L                   +
45.00   0.523   61.66   1.30    1.62    -                               |    ab                      +
50.00   0.599   57.24   1.18    1.96    -                               |   a  b                     +
55.00   0.669   53.44   1.39    2.11    -                               | L  a  b                    +
60.00   0.743   49.59   1.35    2.24    -                            L  |    a  b                   +
65.00   0.815   46.04   1.59    2.21    -                         L     |     a b                    +
70.00   0.902   42.04   1.43    2.39    -                      L        |     a  b                   +
75.00   1.008   37.53   1.65    2.32    -                   L           |      a  b                  +
80.00   1.089   34.29   1.49    2.29    -                L              |     a  b                   +
85.00   1.194   30.40   1.47    1.99    -             L                 |     a b                    +
90.00   1.330   25.80   1.05    1.72    -          L                    |    a b                     +
95.00   1.432   22.65   1.08    1.18    -       L                       |    b                       +
100.00  1.575   18.64   0.79    0.60    -    L                          | ba                         +

LINEARIZE="95.65 91.77 87.98 84.24 80.56 76.18 72.31 68.69 65.33 61.66 57.24 53.44 49.59 46.04 42.04 37.53 34.29 30.4 25.8 22.65 18.64
```