



PLATES



INK

Bringing



PAPER

FOUNTAIN SOLUTION



Together to Maximize Quality



Beginning of the Process



Printing Plates

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Store flat in a cool, dry place.
Contents sensitive to light.

Entreposer à plat dans un endroit frais et sec.
Contenu sensible à la lumière.

Conservar en un lugar frío y seco.
Contenido sensible a la luz.

平放在阴凉干燥的地方。
内有光敏物件。

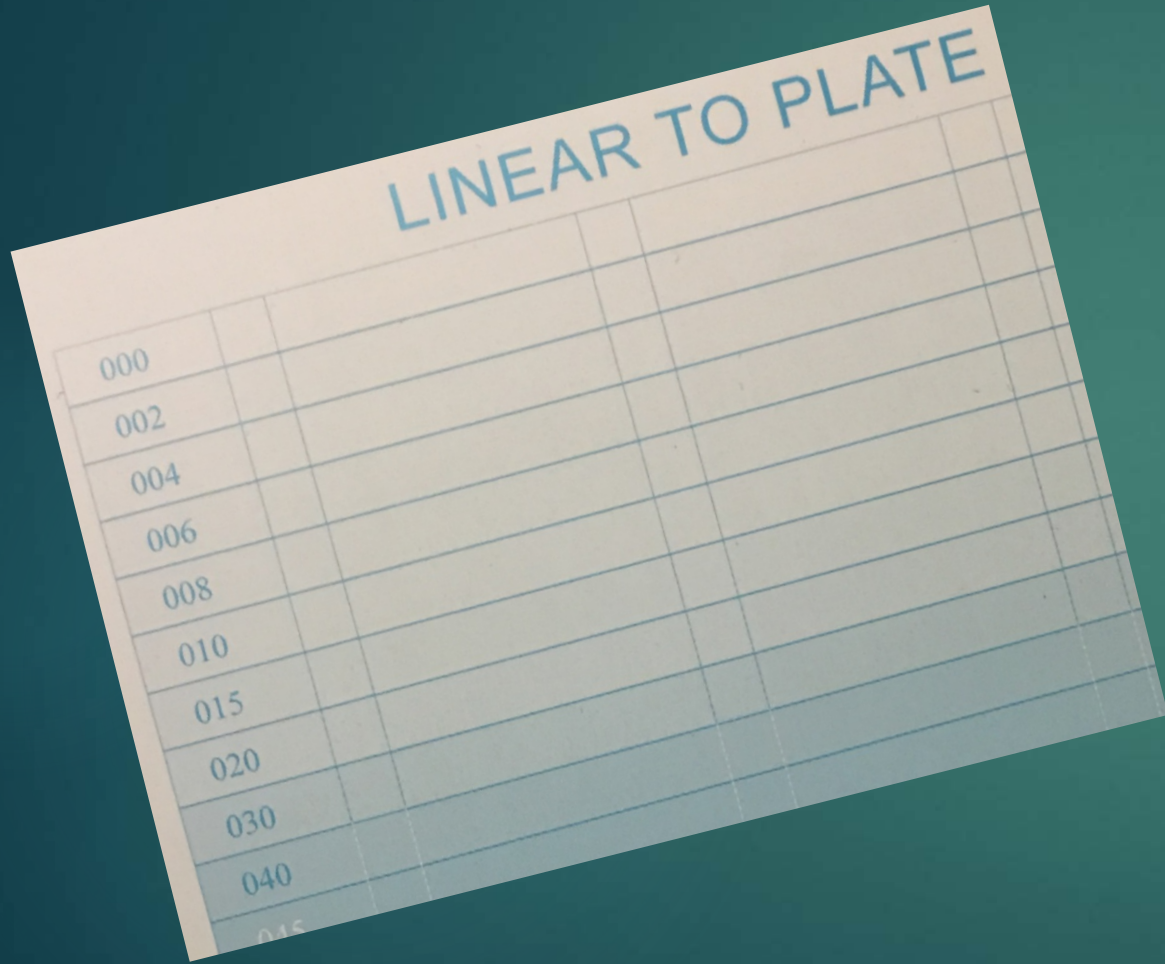
冷暗所に水平に置いて保管してください。
製品は感光性です。

Made in U.S.A.
Eastman Kodak Company
343 State Street
Rochester, NY 14650 U.S.A.

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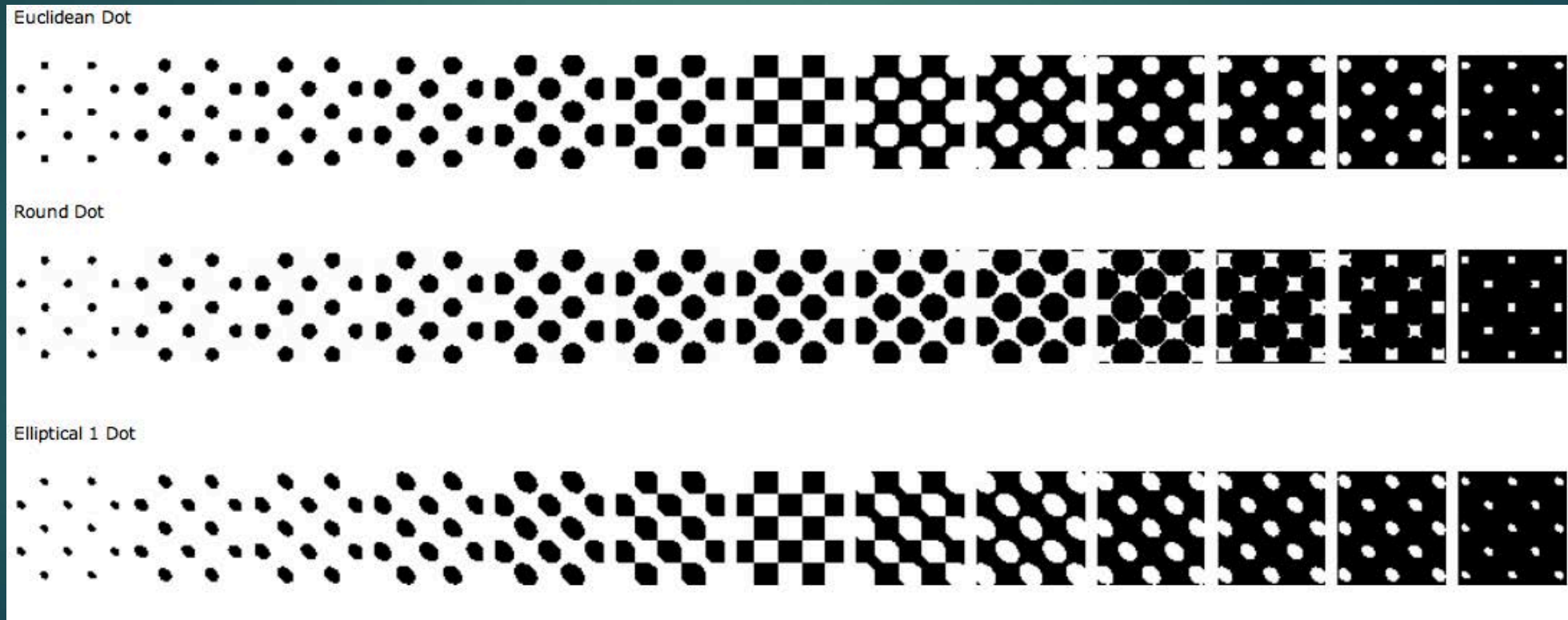


Linearizing the Plate



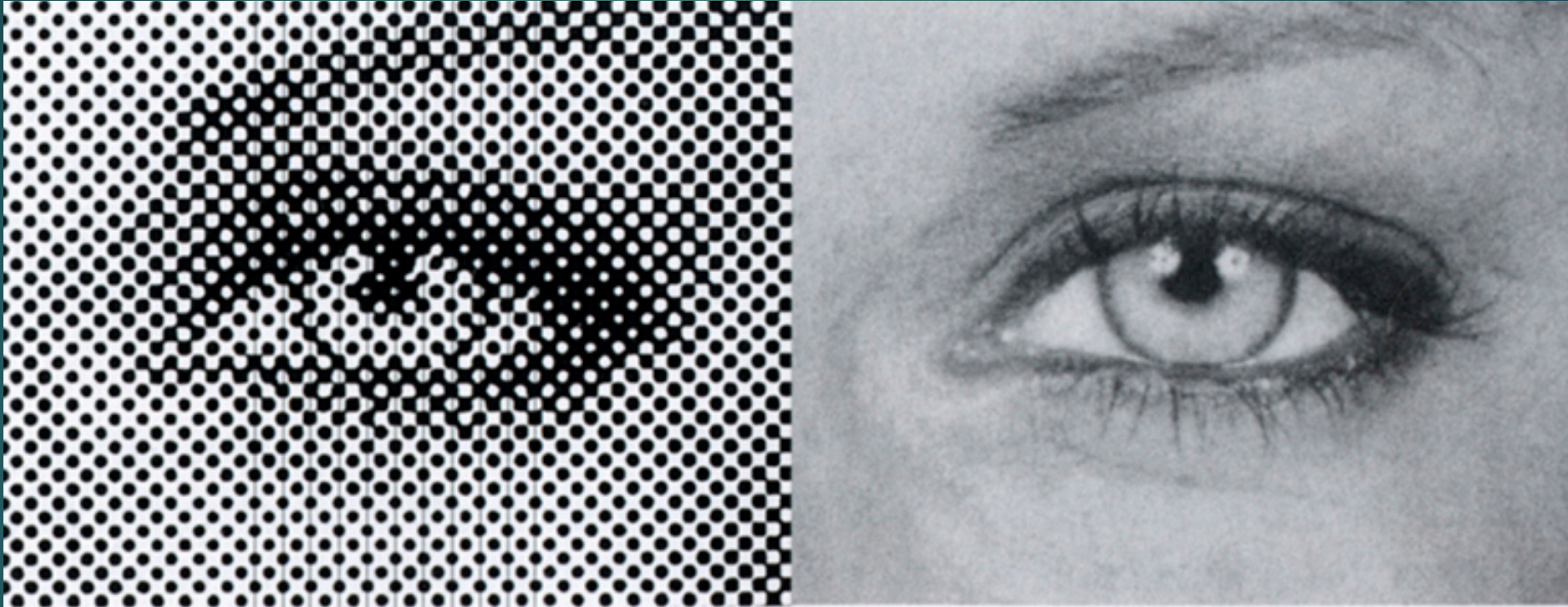
Opportunities for Improvement

Dot Shape



Opportunities for Improvement

Screen line



Prepare the Press

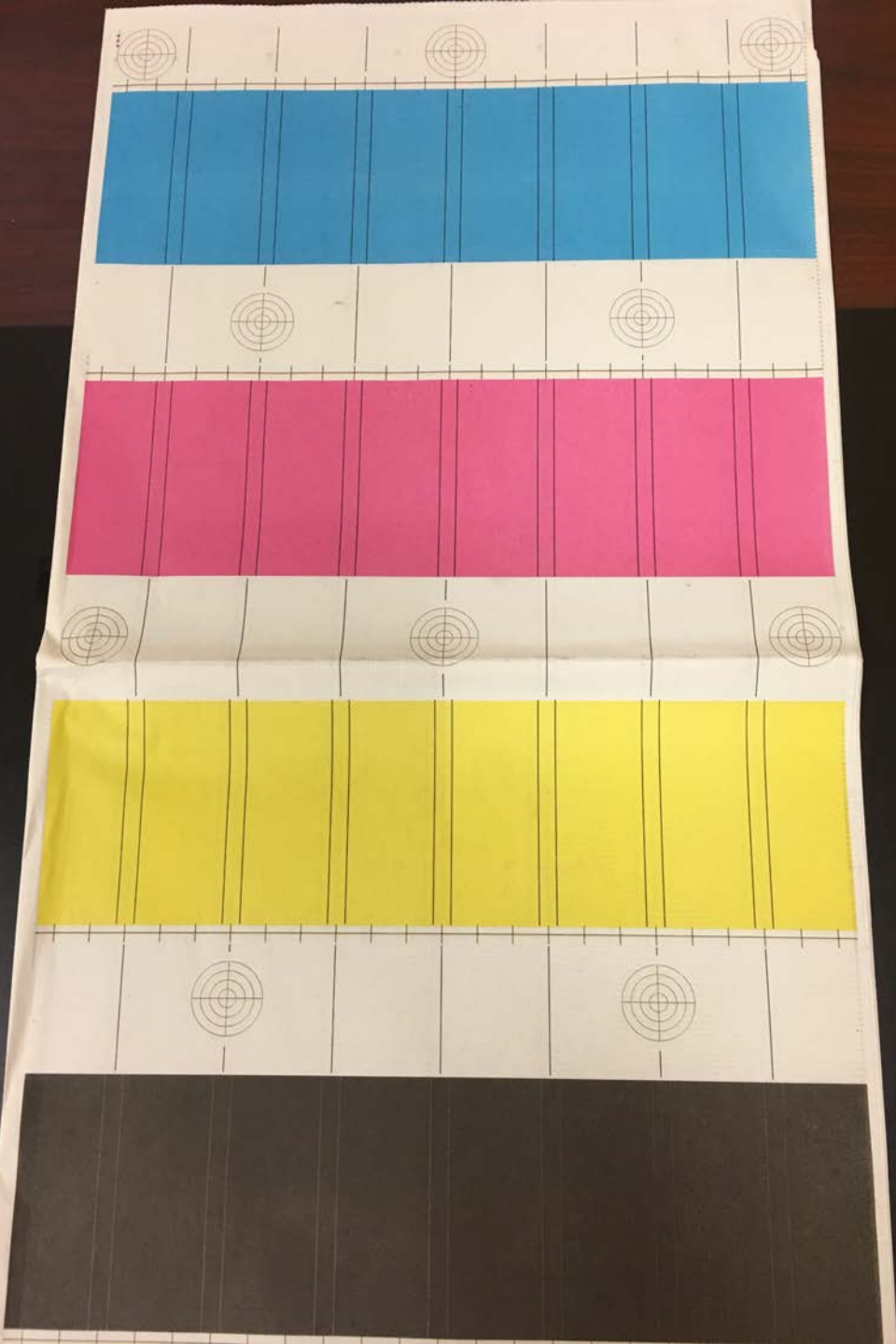
- ▶ All mechanical factors of the press was addressed in the weeks prior to testing



Evaluate Inking System

- ▶ 100% dry solids test
- ▶ Testing was done printing 4 pages across on 1 side of the sheet. Ink was set to 100% across each couple. We printed 1 color on each lead simultaneously in the following order
 - ▶ Black
 - ▶ Magenta
 - ▶ Cyan
 - ▶ Yellow
- ▶ Press tests were done at 3 different speeds for each color (20-35-50 KIPH)
- ▶ All printing couples were found to print within acceptable parameters





Evaluate Ink and Water Together

- ▶ Plates with 15% coverage (a known value) were produced for each color
 - ▶ Preset system accuracy was determined by comparing presets to known values of image and accurate “roll off” of ink in plate gutters.
- ▶ Ink adjustments on this test were made to the entire couple only. This data was used to adjust ink and water curves (nominal adjustments required).



Dot Gain Tests

- ▶ Dot gain tests were run to determine our dot gain for the following configurations on both Thermal SP and Sonora Process-less plates.
 - ▶ 100 line square
 - ▶ 100 line round
 - ▶ 120 line round
- ▶ Files were read with X Rite Exact Scan which enabled timely compilation of data.
- ▶ Quality Promoter Intl. products were vital in the computation of over 200,000 data points read.
- ▶ Dot gain corrections were entered into the RIPs with SNAPs allowable dot gain percentages as our target



Reading Data with X-Rite eXact Scan

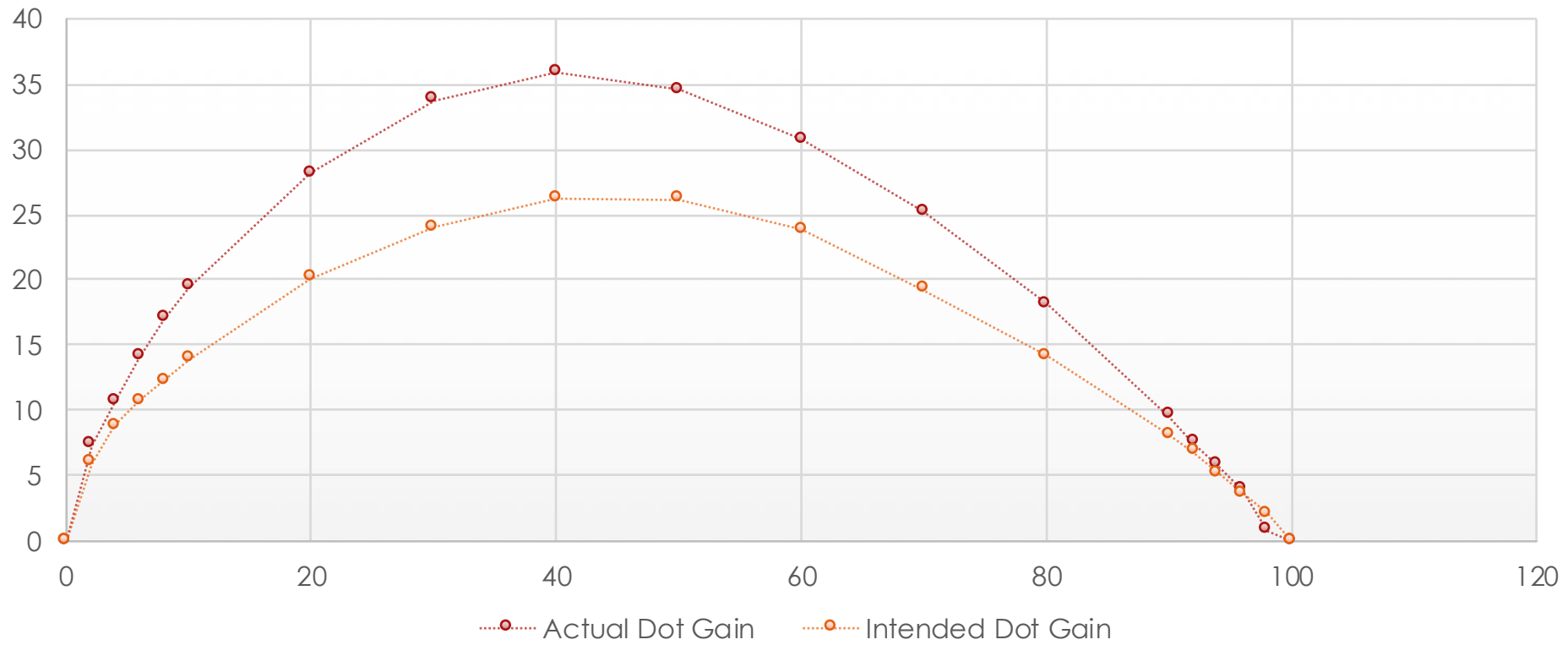
- ▶ Ink was adjusted by the column for this test
- ▶ Pages should dry back 24 hours
- ▶ Read all screen percentages in 32 columns across the couple. Takes an average of 10 minutes to read 32 columns.



Dot Gain Correction

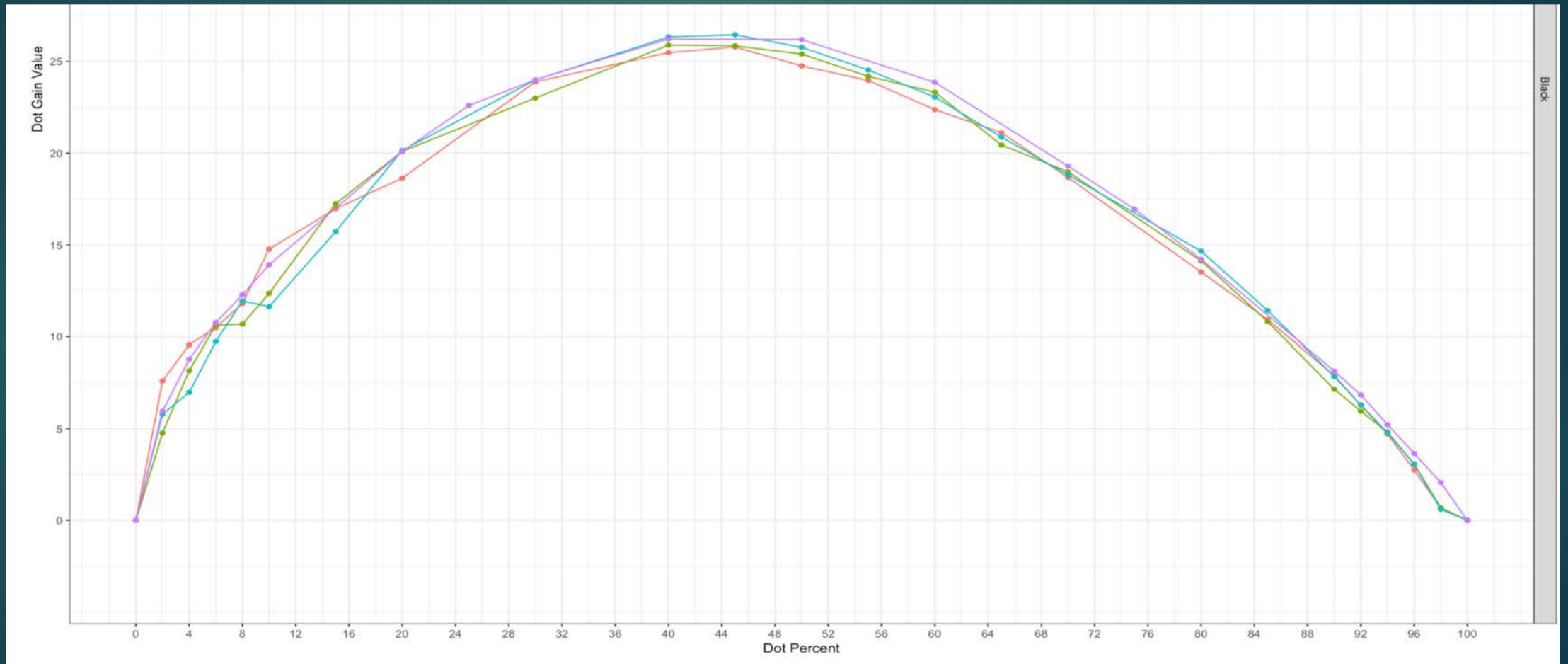


Black Dot Gain Correction 120 Line Round



Dot Gain Correction Verification

007 008 009 SNAP



Black



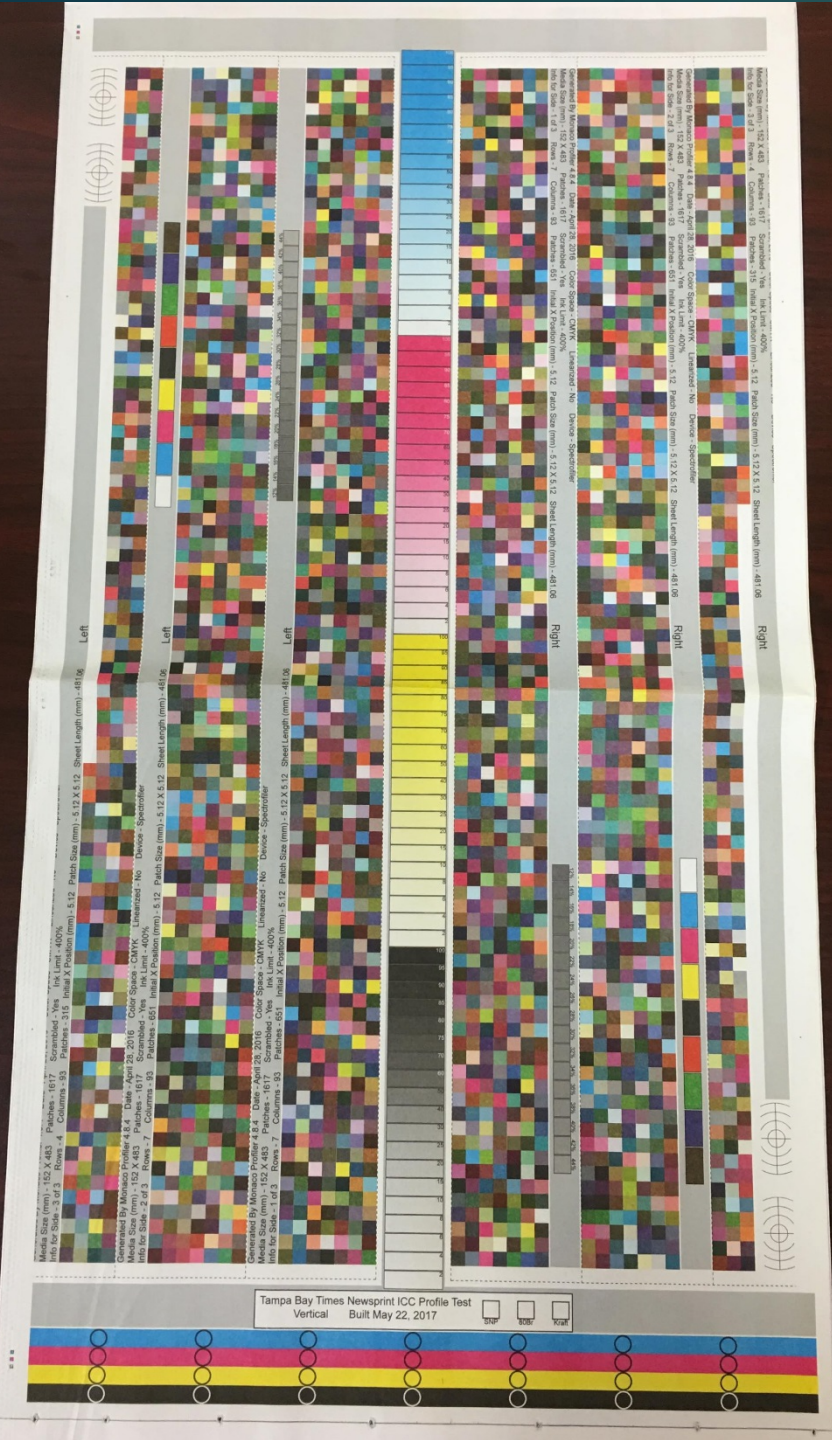
Verification of Dot Gain Adjustments

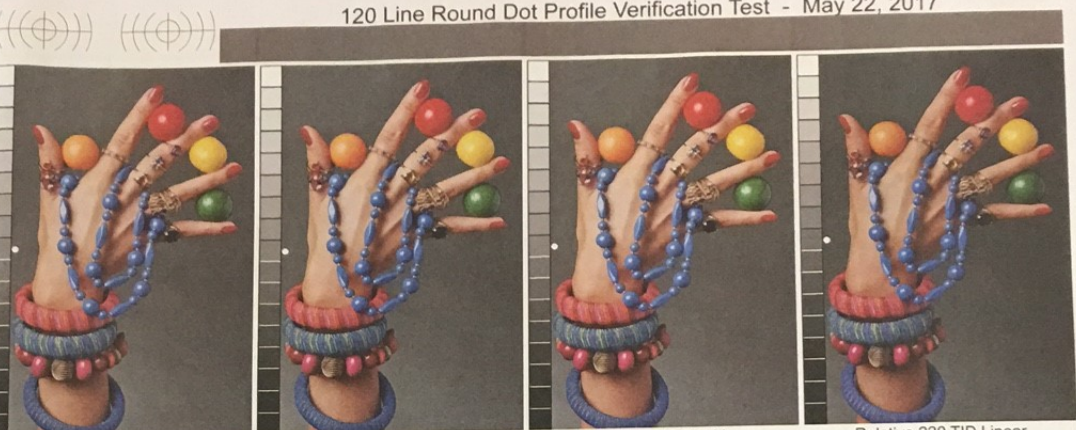
- ▶ All dot gain adjustments yielded correct allowances for SNAP dot gain.
 - ▶ 100 line round Thermal SP
 - ▶ 100 line round Sonora
 - ▶ 120 line round Thermal SP
 - ▶ 120 line Round Sonora



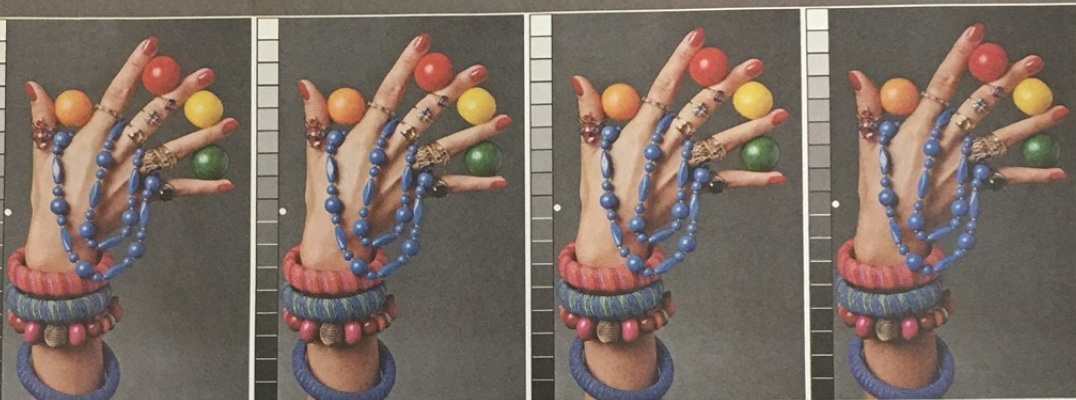
Press Profile

- ▶ After all previous tests were completed, IT8 files were printed to determine accurate profiles, specific to our “Yellow down first” ink laydown

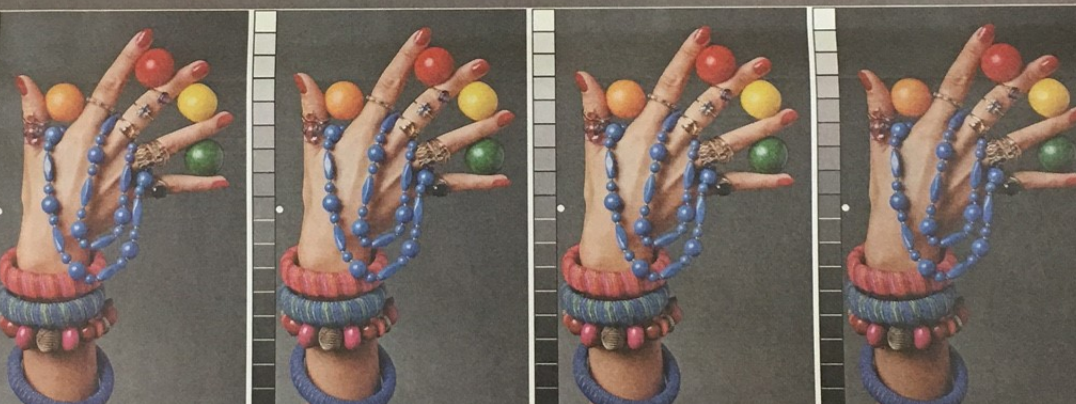




Perceptual 200 TID Linear Perceptual 220 TID Linear Perceptual 240 TID Linear Relative 220 TID Linear



Perceptual 200 TID Contrast +10 Perceptual 220 TID Contrast +10 Perceptual 240 TID Contrast +10 Relative 220 TID Midtone +3



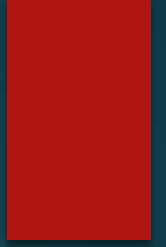
Perceptual 200 TID Saturation +10 Perceptual 220 TID Saturation +10 Perceptual 240 TID Saturation +10 Relative 220 TID Midtone +5

Profile Verification



Performance of Sonora Process-less Plates

- ▶ Averaged over 8 separate press starts, Sonora plates cleaned up between 100-120 copies.
- ▶ No noticeable residue left in ink trains, angle bars or former boards.
- ▶ The Sonora Plates ran dryer than the Thermal SP plates
 - ▶ Usually an extra flood or a dampener increase of 2% would clean up scum
- ▶ The plate coating is slick to the touch and required a little more effort to seat on in the tool-less lockups.
- ▶ No plate wear noted on production of over 200,000 copies





Results

- ▶ Necessary adjustments were made to obtain proper dot on plate
- ▶ Dot gain controlled to produce all of our production within SNAP quality standards for
 - ▶ 100 line Thermal SP and Sonora
 - ▶ 120 line Thermal SP and Sonora
- ▶ Speed up the process of performing our annual SNAP certification tests
- ▶ Established new color profile giving us the best color reproduction with our “yellow down first” laydown sequence and new dot resolution.



Thank you



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