



TP B.28

Sliding-Bank-Shot Table Comparisons From Careful Measurements



supporting:
 “The Illustrated Principles of Pool and Billiards”
<http://billiards.colostate.edu>
 by David G. Alciatore, PhD, PE ("Dr. Dave")

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for **background and demonstrations** see:
 "NV L.30 – SLIDING BANK SHOT DIAMOND SYSTEMS ... How to Aim Banks at Fast-Speed or Close-to-the-Cushion:"
<https://billiards.colostate.edu/normal-video/nv-l-30/>
 and "NV L.32 – TWICE-PLUS-TENTH ... The Most Useful Bank Shot Diamond System You'll Ever Learn:"
<https://billiards.colostate.edu/normal-video/nv-l-32/>

Carefully Measured Through-Diamond Points on Opposite Rail (meas) for Each Diamond Aim Point on the Banking Rail (aim):

9' Olhausen (Dr. Dave's video table) Bank Reference Lines: aim := (.5 1 1.5 2 2.5 3)^T meas := (1.38 2.72 3.89 5.07 6.38 7.74)^T

9' "Red Label" Diamond: meas_{RD} := (1.40 2.93 4.52 5.60 6.92 8.30)^T

7' Valley Bar Box: meas_V := (1.51 2.74 4.12 5.19 6.52 7.54)^T

9' Brunswick Gold Crown: meas_{GC} := (1.27 2.88 4.38 5.38 6.56 7.96)^T

7' Diamond Bar Box: meas_{DB} := (1.6 3.31 4.94 6.22 7.55 8.59)^T

NOTE - all the tables, except the 9' Olhausen, were under slightly humid conditions, with old, worn-in cloth.

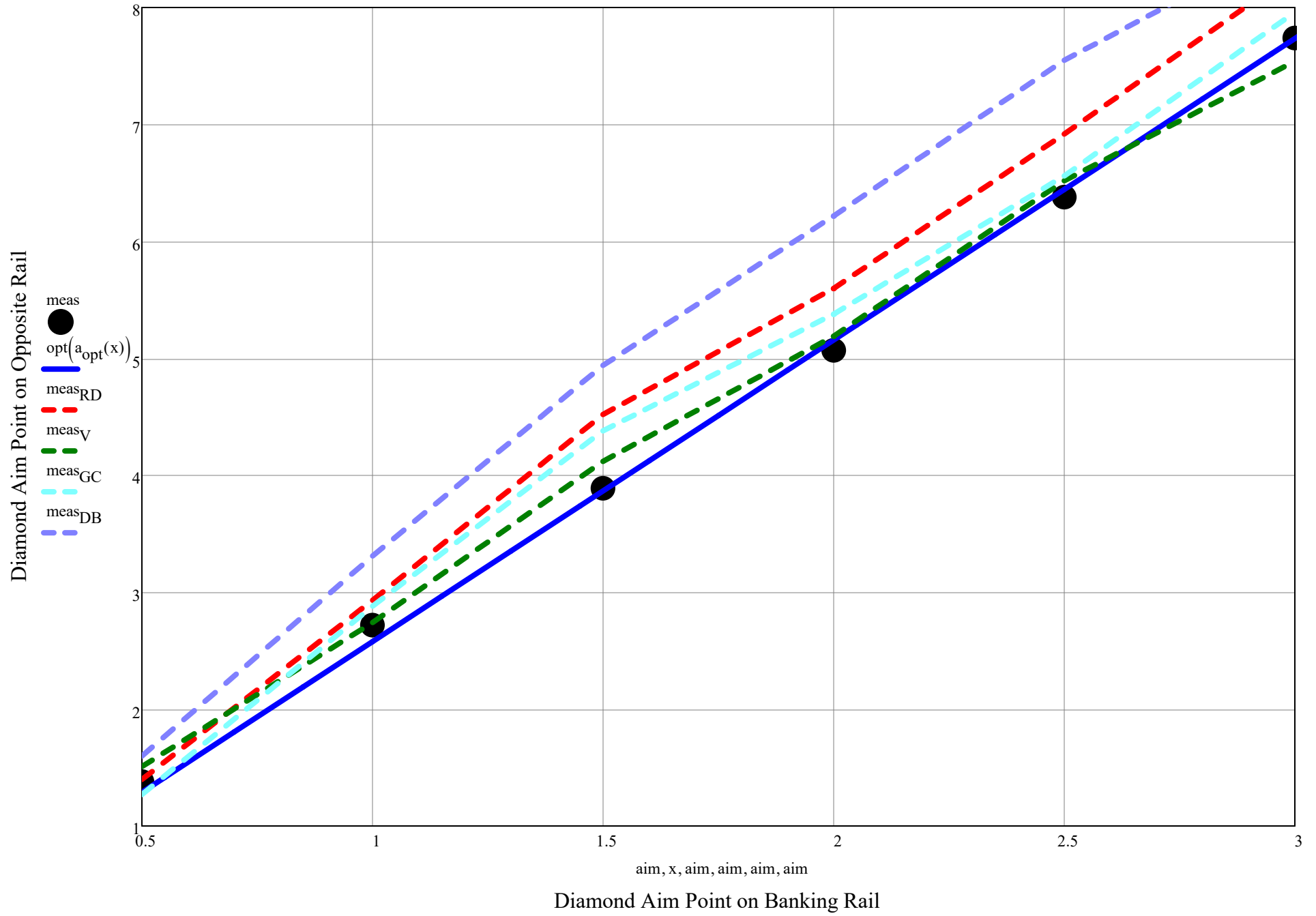
Dr Dave's Twice-Plus-Tenths Diamond System (from TP B.27):

$$D := 12.5 \quad d := \frac{4.25}{D} \quad w := \frac{48.25}{D} \quad f := \frac{1}{5}$$

$$x_{\text{opt}}(a) := a - \frac{(1+f) \cdot a}{w} \cdot d \quad a_{\text{opt}}(x) := \frac{x}{1 - \frac{d \cdot (1+f)}{w}} \quad \text{opt}(a) := (2+f) \cdot a + \frac{(1+f) \cdot a}{w} \cdot d$$

Through-Diamond Sliding Bank Shot Table Comparison

$x := .4, .55, .3, 1$



Conclusions:

- 1) The twice-plus-tenth system matches measured data very well on typical tables under typical conditions.
- 2) The 9' Olhausen and 7' Valley tables banked very close to "on system."
- 2) A Brunswick Gold Crown usually plays "on system," but under humid and used-cloth conditions, it plays a little short, especially at medium bank angles.
- 3) Diamond tables (9' Red Label and 7' bar box) banked very short, especially at larger bank angles. For more info, see: <https://billiards.colostate.edu/faq/bank-kick/Diamond/>
- 4) The 7' Diamond bar-box banked almost a diamond shorter than typical "on system" tables!