

Harman Prototype Gallery

D. B. (Don) Keele, Jr.

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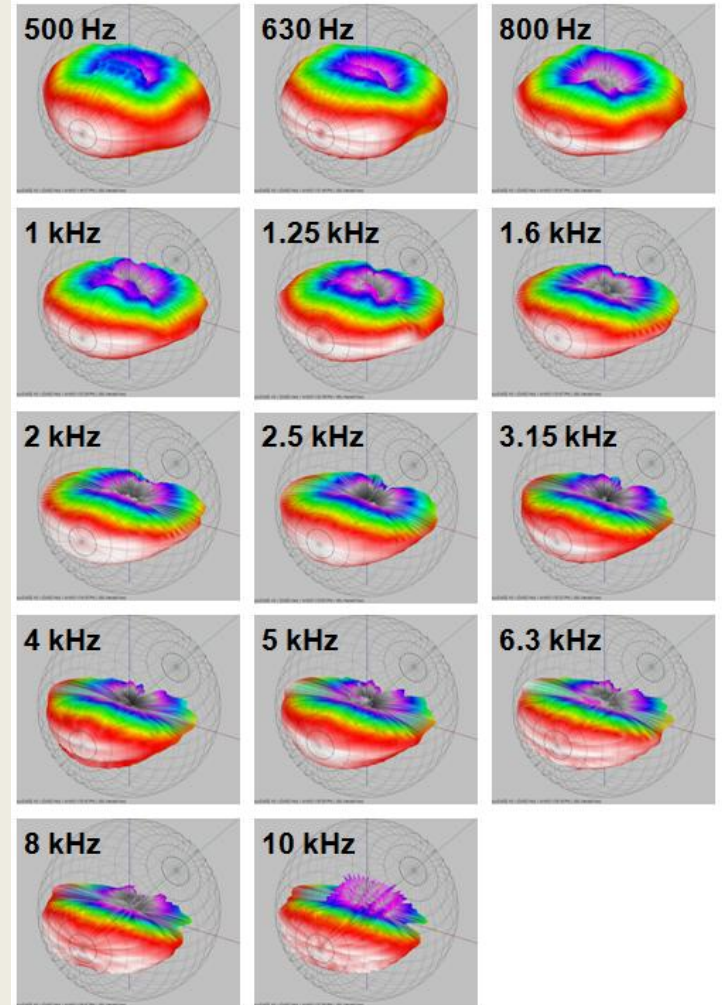
Keele's First CBT Array Prototype of 2003

Free-standing CBT array
Using 18 each 57 mm
(2.25") drivers, and 50
each 18 mm (0.71")
wide-range drivers (used
in Toshiba laptops).
1m tall, 60° circular arc.
45° Vertical Beamwidth!



Measured Polar Balloons of First CBT Prototype

Automated Full-Sphere Polar
Balloons Measured in JBL Arena
(EASE Generated)



Keele's Second CBT Array Prototype of 2004

The CBT45

A ground-plane
CBT using 48
AKG XXL-V5
1.25" Headphone
Drivers



CBT45 Photos



CBT
Array
Measurements

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CBT45 Photos



CBT
Array
Measurements

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Vintage Photograph

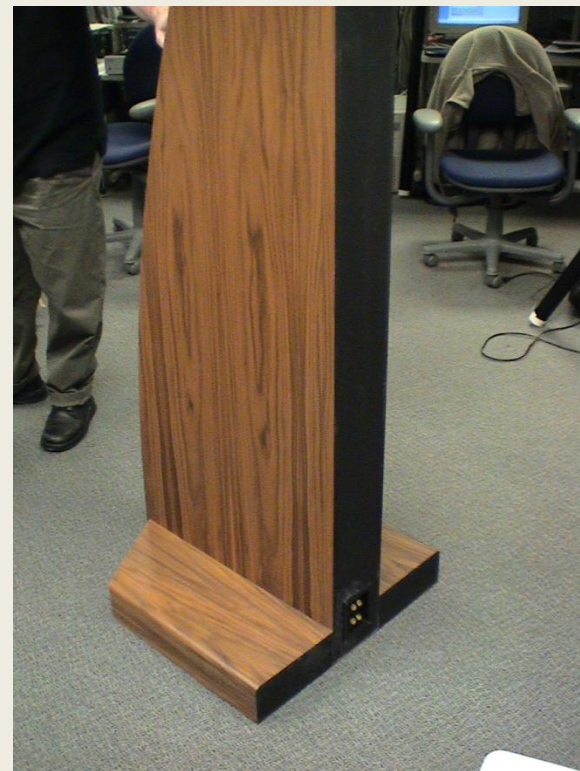
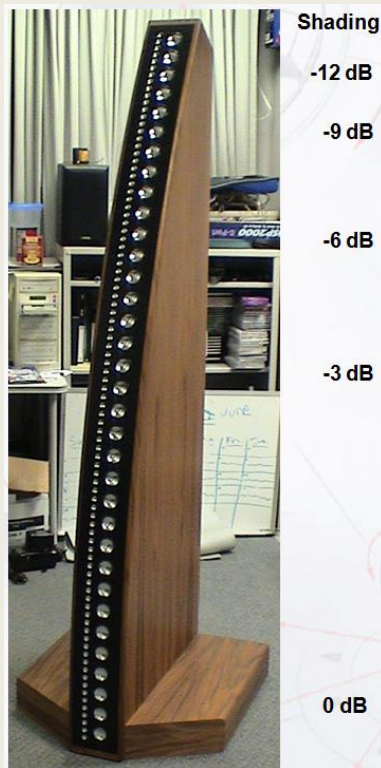
This photo was taken on Oct. 27, 2004 at the Harman Tech Meeting at the Renaissance Parc 55 Hotel which occurred during the San Francisco AES Convention. It shows Floyd Toole (with wine glass in hand) and Don Keele standing on chairs listening to the first CBT ground-plane circular-arc prototype, the CBT45. We were standing on chairs to illustrate that the sound coverage was excellent at points high and close to the array. Note grins on both faces!



Keele's Third CBT Array Prototype of 2004

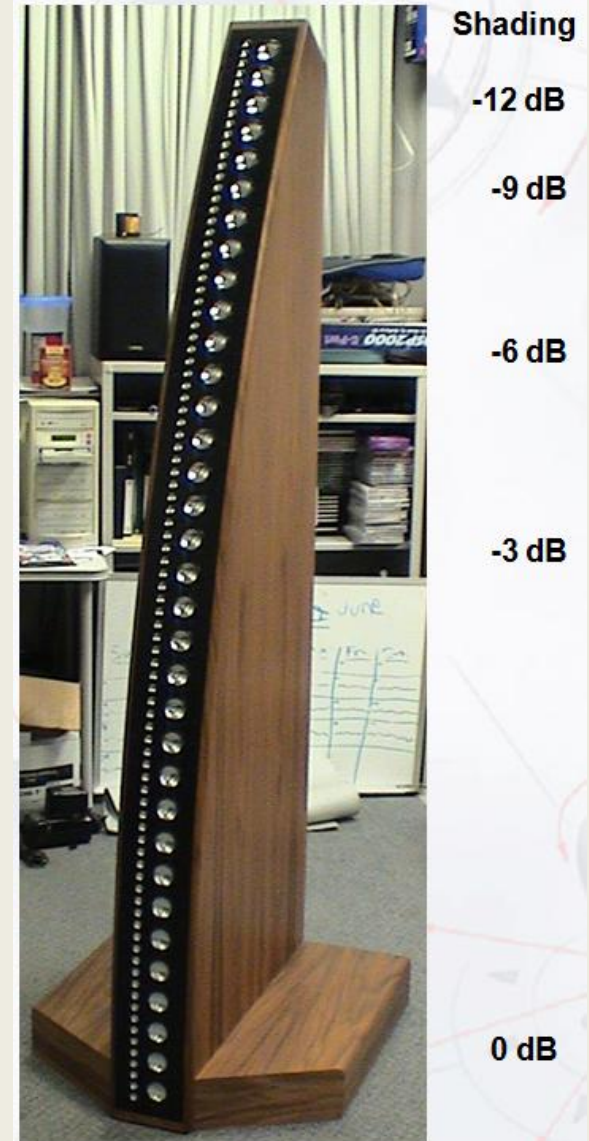
CBT30

Uses 34 Each 53 mm (2.1") Drivers and
90 Each 18 mm (0.71") wide-range drivers.



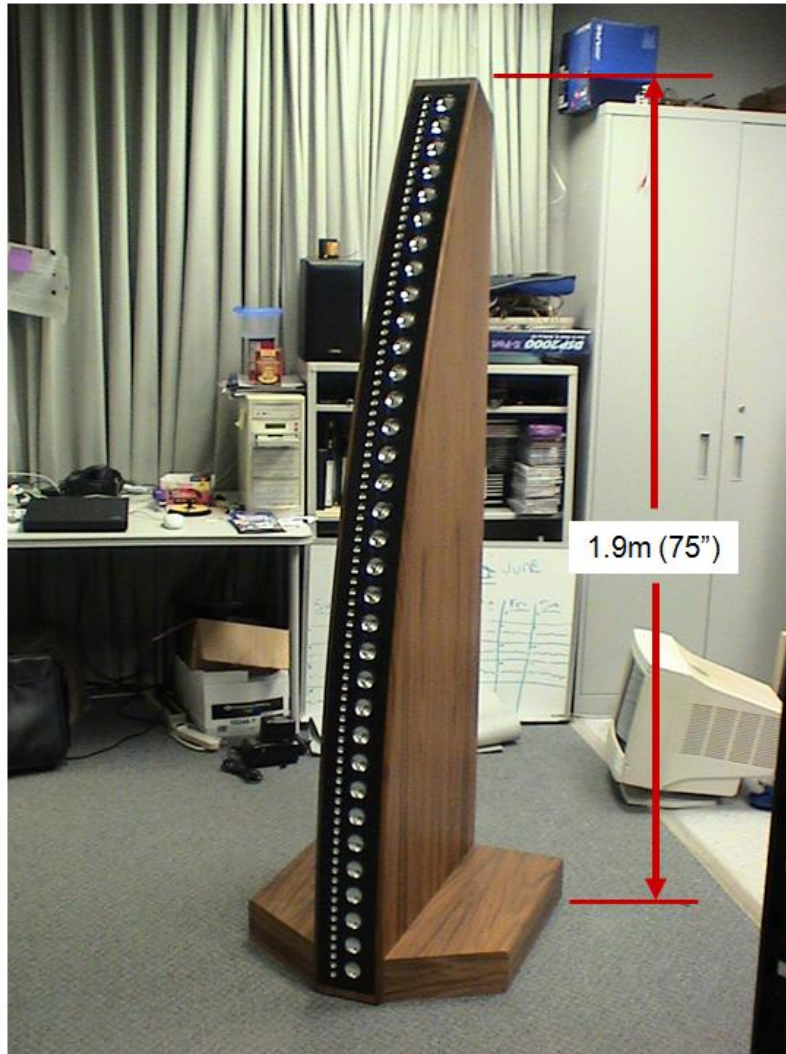
Keele's Third CBT Array Prototype of 2004 (CBT30)

- **CBT30 Ground-Plane CBT Array**
 - 1.9 m (6.25') High
 - 30° Circular Arc
 - Uses 90 Each Odyssey 2, 18 mm (0.71") Dia. Harman Multimedia Drivers
 - Uses 34 Each Warrior 53 mm (2.1") Dia. Harman Multimedia Drivers
 - Crossover: 1 kHz
 - Operating range of 100 Hz to 20 kHz
 - Passive Shading Network
 - Qualifies as a true wide-band constant directivity source! (200 Hz and Up)
 - Narrow 22° Vertical Coverage (-6 dB)
 - Wide 180° Horizontal Coverage
 - Extremely Even Coverage! Up-Down, Right-Left, Far-Near
 - Can Play Very Loud and Clean!



Keele's Third CBT Array Prototype of 2004

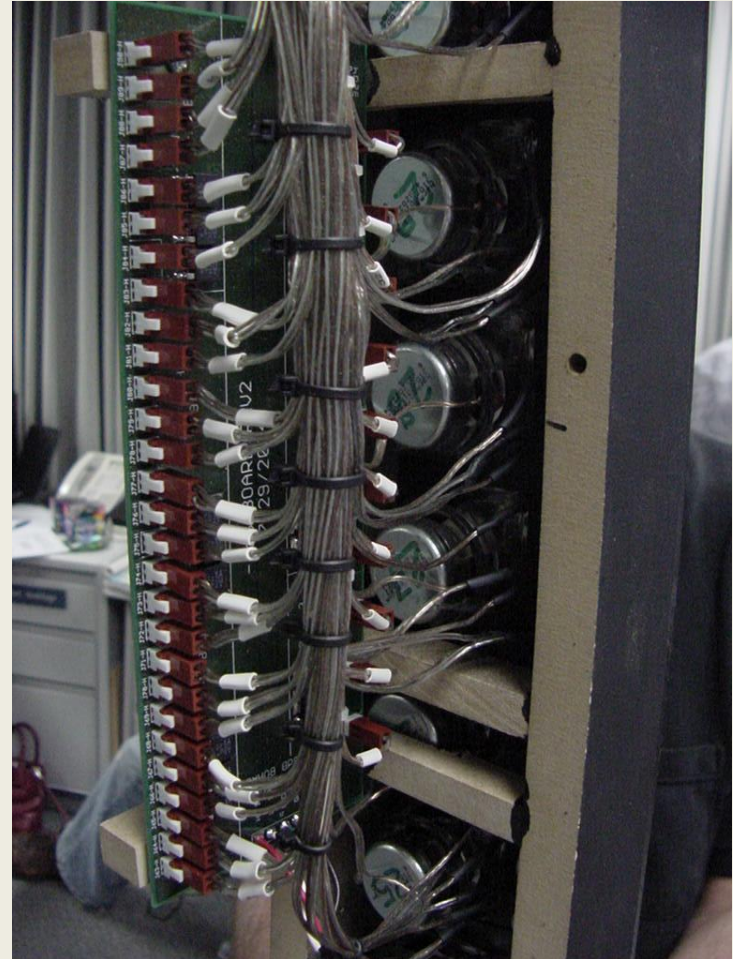
CBT30



Keele's Third CBT Array Prototype of 2004 CBT30

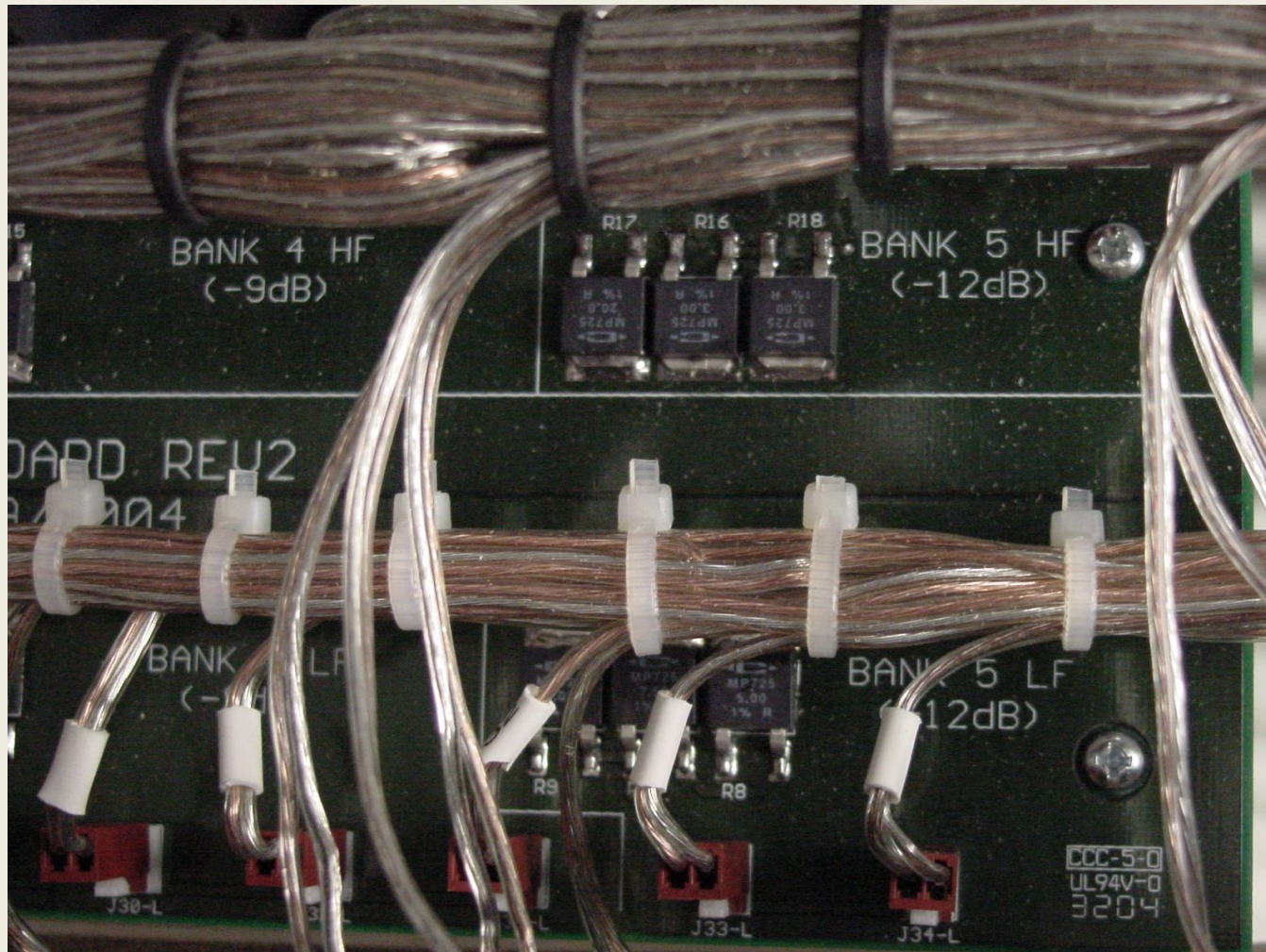


Keele's Third CBT Array Prototype of 2004 CBT30



Keele's Third CBT Array Prototype of 2004

CBT30



Keele's Fourth CBT Array Prototype of 2005

CBT30 Ittersbach (Uses all Harman automotive transducers)

Uses 16 Each 100 mm (4") Drivers and
24 Each 100 mm (4") Electro-Dynamic Planar Drivers.



Used for
woofer
only!