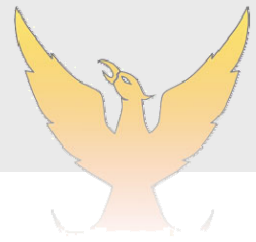




**2008 USBC Open Championships
Pattern Report**





2008 USBC Open Championships

Number of Lanes

48

Lane Surface

Brunswick Pro Anvilane

Pinsetters

Brunswick GSX

Lane Machines

Kegel Kustodian Ion and Kustodian Walker

Lane Conditioner

Kegel Infinity

Lane Cleaner

Kegel Defense C mixed at 4:1

Pattern Side to Side Ratios

22' 2.5 to 1

38' 2.2 to 1

Pattern Front to Back Taper Ratios

Outside Taper 3.5 to 1

Inside Taper 3.3 to 1

Pattern Distance

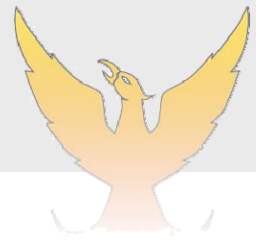
40 Feet

Pattern Volume

Forward 11.80 mL

Reverse 12.20 mL

Total 24.00 mL



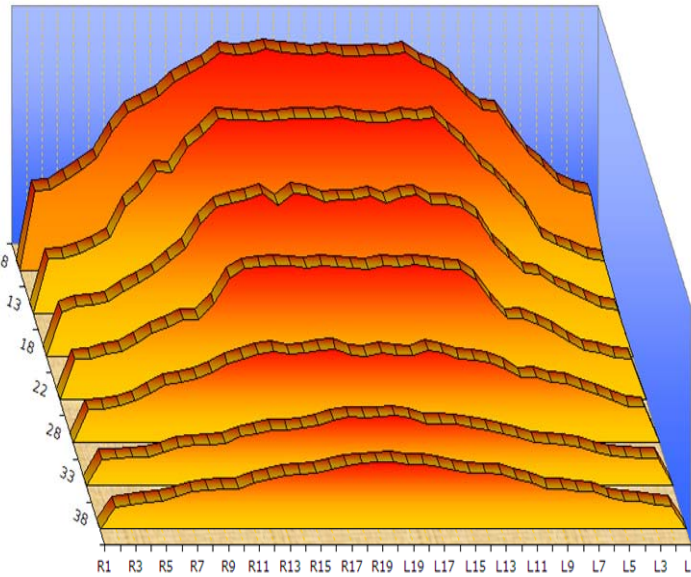
2008 USBC Open Championships

Side to Side Ratios

22' 2.5 to 1
38' 2.2 to 1

Distance from
Foul Line
&
Ratios

- 08' – 2.0 to 1
- 13' – 2.6 to 1
- 18' – 2.6 to 1
- 22' – 2.5 to 1**
- 28' – 2.0 to 1
- 33' – 2.1 to 1
- 38' – 2.2 to 1**



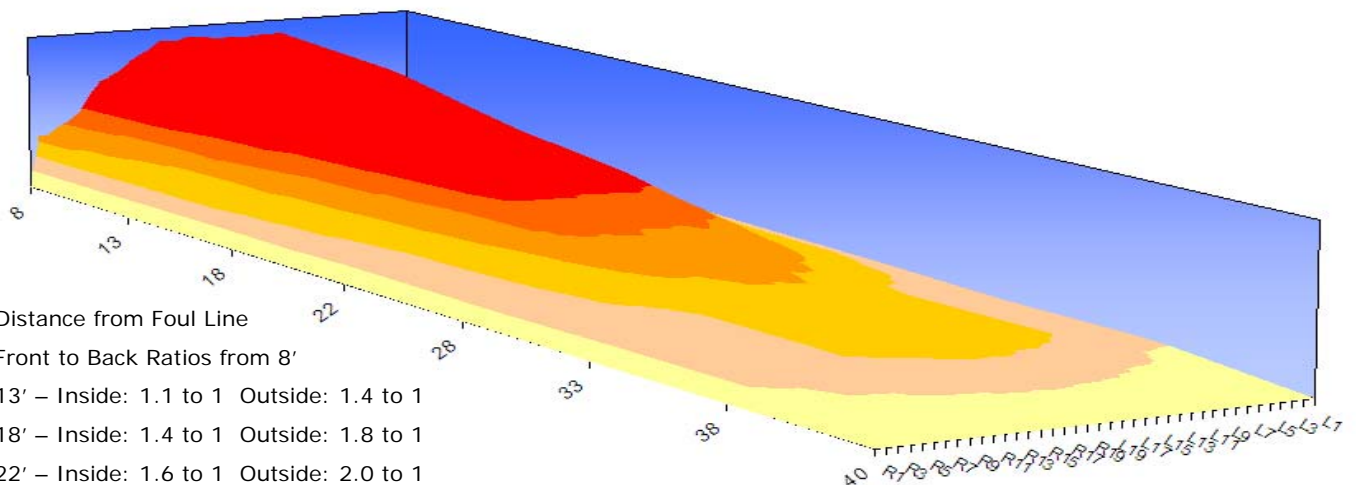
The 2D chart on the left was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern.

Side to side ratios throughout the pattern can be an indicator of the difficulty of a pattern. Generally, the lower the ratios throughout the pattern, the more difficult the pattern.

Front to Back Taper Ratios

Outside Taper 3.5 to 1
Inside Taper 3.3 to 1

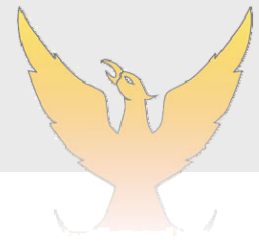
The 3D chart below was generated by taking tapes at select distances throughout the pattern. This gives a visual of how the conditioner tapers off from the front end to the back end of the pattern.



Distance from Foul Line

Front to Back Ratios from 8'

- 13' – Inside: 1.1 to 1 Outside: 1.4 to 1
- 18' – Inside: 1.4 to 1 Outside: 1.8 to 1
- 22' – Inside: 1.6 to 1 Outside: 2.0 to 1
- 28' – Inside: 2.4 to 1 Outside: 2.4 to 1
- 33' – Inside: 3.2 to 1 Outside: 3.3 to 1
- 38' – Inside: 3.3 to 1 Outside: 3.5 to 1



2008 USBC Open Championships

Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50 µL

Pattern Distance: 40 feet

Forward Settings										
Screen #	Left End of Stream	Right End of Stream	# Loads or Streams	Travel Speed (in/sec)	Beginning Distance of Load (feet)	Ending Distance of Load (feet)	# Boards Crossed per Load	Total Boards Crossed	Total Volume of Oil (µL)	
01F	2	2	4	10.00	0.00	4.20	37	148	7400	
02F	6	6	1	10.00	4.20	5.60	29	29	1450	
03F	8	8	1	14.00	5.60	7.50	25	25	1250	
04F	11	11	1	14.00	7.50	9.40	19	19	950	
05F	13	13	1	18.00	9.40	11.90	15	15	750	
06F	2	2	0	18.00	11.90	24.00				
07F	2	2	0	22.00	24.00	31.00				
08F	2	2	0	30.00	31.00	40.00				
09F										
Forward Buff Screens: 3			Forward # Boards Crossed Volume mL					236	11.80	
Reverse Settings										
Screen #	Left End of Stream	Right End of Stream	# Loads or Streams	Travel Speed (in/sec)	Beginning Distance of Load (feet)	Ending Distance of Load (feet)	# Boards Crossed per Load	Total Boards Crossed	Total Volume of Oil (µL)	
01R	2	2	0	30.00		31.00				
02R	14	14	1	22.00	31.00	27.90	13	13	650	
03R	12	12	2	18.00	27.90	22.80	17	34	1700	
04R	10	10	2	18.00	22.80	17.70	21	42	2100	
05R	9	9	1	18.00	17.70	15.20	23	23	1150	
06R	7	7	1	14.00	15.20	13.30	27	27	1350	
07R	5	5	1	14.00	13.30	11.40	31	31	1550	
08R	2	2	2	10.00	11.40	8.60	37	74	3700	
09R	2	2	0	10.00	8.60	0.00				
Reverse # Boards Crossed Volume mL								244	12.20	
Forward plus Reverse Boards Crossed Volume mL								480	24.00	





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The charts on this page are generated by Kegel's KOSI software from the lane machine program sheet.

The **OVERHEAD CHART** on the right shows where the conditioner is applied on both the forward and reverse screens. The gradient area is a calculation of how the conditioner might bleed off the buffer brush.

The **COMPOSITE GRAPH** below shows the total amount of conditioner applied to every board. A good way to think about this graph is to envision all the conditioner on the lane being pushed back to the foul line. Once all the conditioner is stacked up, this is what it would look like.

- Forward Oil
- Reverse Oil
- Combined Oil
- Buff Area

