



CHALLENGE
SERIES

KEGEL NAVIGATION PATTERNS





MIDDLE ROAD 4239

In political terms, this pattern is centrism in nature because the characteristics lie between the extremes of having to play too far to the right or too far to the left. The MIDDLE ROAD is a 39 foot pattern that is moderately challenging; it's not too easy and it's not too tough. The best mindset and line for this pattern is usually somewhere near the middle of the road.

Latitude Ratio Coordinates

22' 4.2 to 1

37' 3.2 to 1

Longitude Ratio Coordinates

Outside Taper 4.0 to 1

Inside Taper 2.9 to 1

Pattern Distance

39 Feet

Pattern Volume

Forward 11.90 mL

Reverse 10.95 mL

Total 22.85 mL



KEGEL NAVIGATION PATTERNS

CHALLENGE SERIES

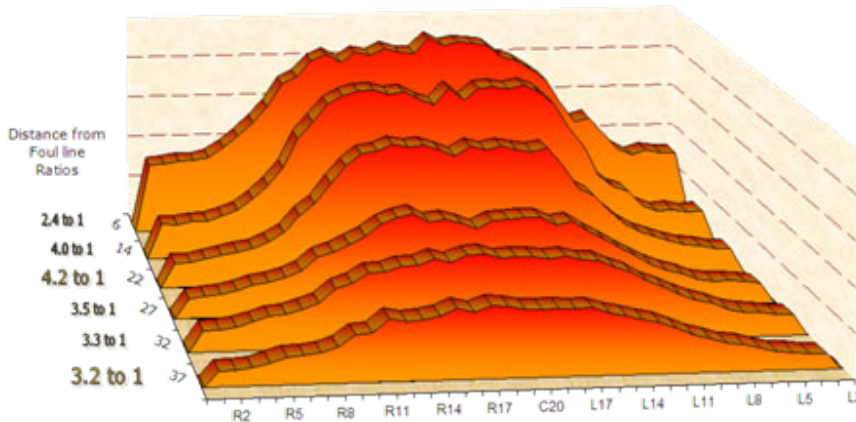


MIDDLE ROAD 4239

Latitude Ratio Coordinates

22' 4.2 to 1

37' 3.2 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. All Latitude Ratio Coordinates are calculated from these two distances.

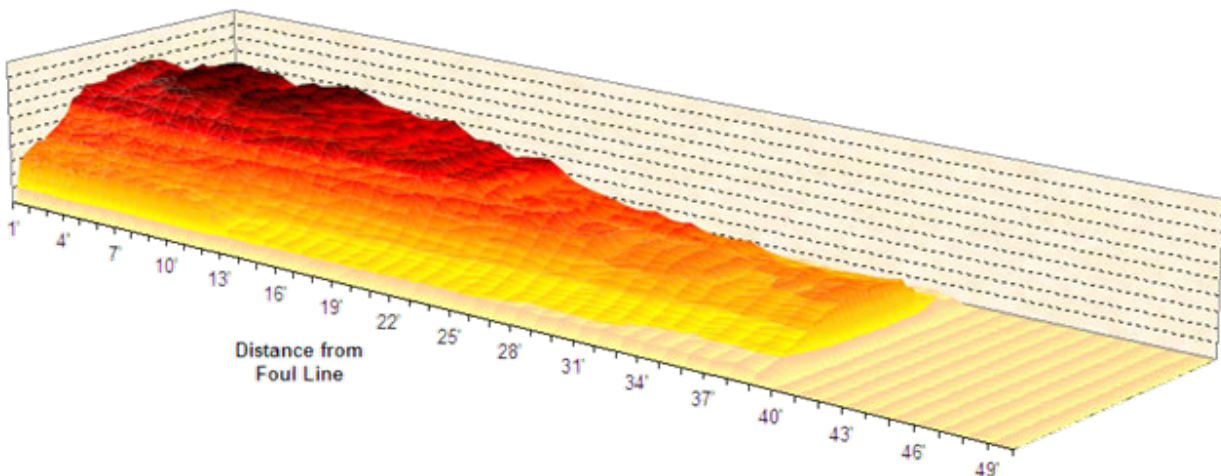
Latitude ratios in the last half of the pattern can be an indicator of the difficulty of a pattern. Generally, the lower the ratios down lane, the more difficult the pattern.

Longitude Ratio Coordinates

Outside Taper 4.0 to 1

Inside Taper 2.9 to 1

The 3D chart below was generated by taking tapes every foot of the pattern. This gives a visual of how the conditioner tapers off from the front to the end of the pattern.





KEGEL NAVIGATION PATTERNS

CHALLENGE SERIES



MIDDLE ROAD 4239

Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50 µL

Pattern Distance: 39 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	2	14.00	0.00	1.90	37	74	3700	
02F	6	6	1	14.00	1.90	3.80	29	29	1450	
03F	8	8	1	14.00	3.80	5.70	25	25	1250	
04F	10	10	3	14.00	5.70	11.60	21	63	3150	
05F	12	12	2	18.00	11.60	16.70	17	34	1700	
06F	14	14	1	18.00	16.70	19.20	13	13	650	
07F	2	2	0	18.00	19.20	26.00				
08F	2	2	0	22.00	26.00	32.00				
09F	2	2	0	30.00	32.00	39.00				
Forward Buff Screens: 3			Forward # Boards Crossed Volume mL					238	11.90	
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		32.00				
02R	13	13	2	22.00	32.00	25.80	15	30	1500	
03R	11	11	2	18.00	25.80	20.70	19	38	1900	
04R	9	9	1	18.00	20.70	18.20	23	23	1150	
05R	7	7	2	18.00	18.20	13.10	27	54	2700	
06R	2	2	2	18.00	13.10	8.00	37	74	3700	
07R	2	2	0	14.00	8.00	0.00				
08R										
09R										
Reverse # Boards Crossed Volume mL								219	10.95	
Forward plus Reverse Boards Crossed Volume mL								457	22.85	





MIDDLE ROAD 4239

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

