



CHALLENGE
SERIES

KEGEL NAVIGATION PATTERNS





BROADWAY 4537

This 37 foot pattern is named after the wide open street in Manhattan called BROADWAY, which ironically originates at a park called Bowling Green. BROADWAY was originally translated from the Dutch name of 'Breede weg' because of its location in New Amsterdam. Because of the medium short length of this pattern and light volume of conditioner towards the outside portion of the lane, players can arrive to the pocket on the BROADWAY from multiple directions.

Latitude Ratio Coordinates

22' 4.5 to 1

35' 3.5 to 1

Longitude Ratio Coordinates

Outside Taper 3.1 to 1

Inside Taper 2.5 to 1

Pattern Distance

37 Feet

Pattern Volume

Forward 11.00 mL

Reverse 12.25 mL

Total 23.25 mL

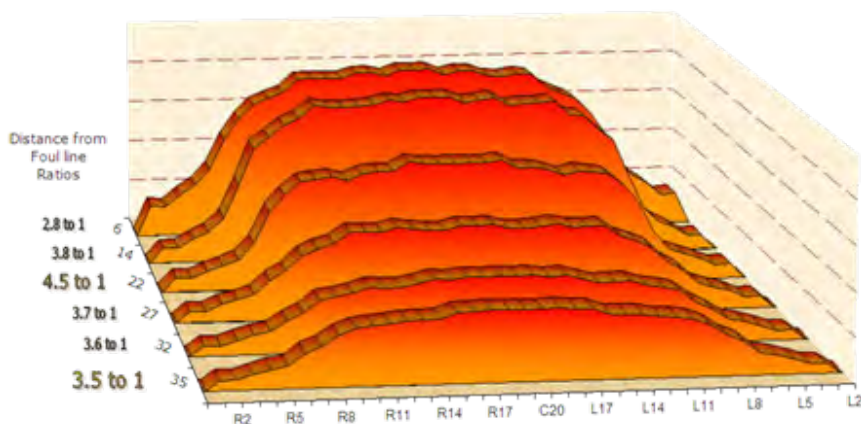


BROADWAY 4537

Latitude Ratio Coordinates

22' 4.5 to 1

35' 3.5 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.

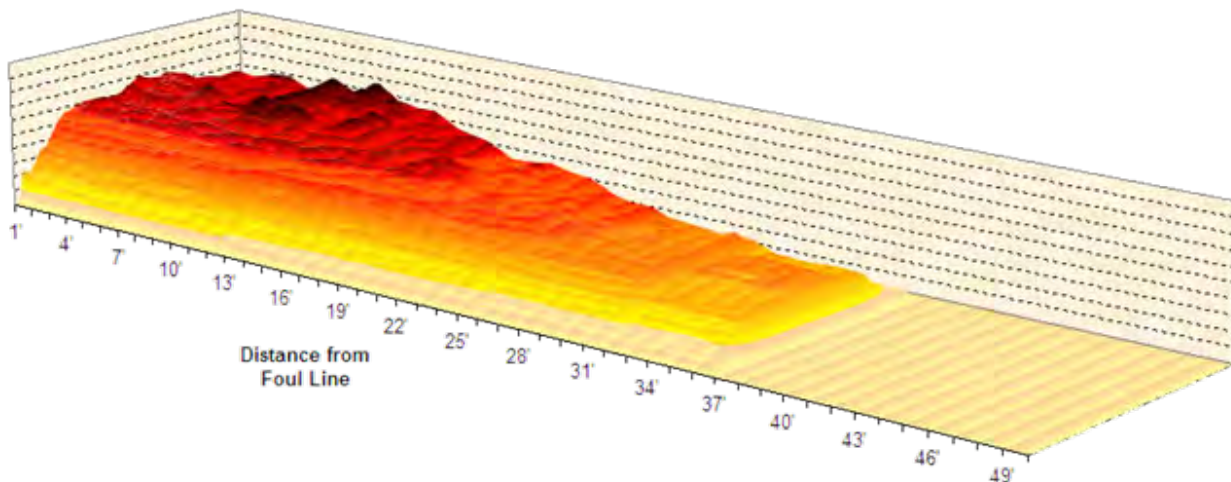
Latitude ratios in the last half of the pattern can be an indicator of the difficulty of a pattern. Generally, the lower the ratios down lane, the more difficult the pattern.

Longitude Ratio Coordinates

Outside Taper 3.1 to 1

Inside Taper 2.5 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.





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Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50 µL

Pattern Distance: 37 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	4	4	1	14.00	0.00	0.00	33	33	1650	
02F	5	5	1	14.00	0.00	1.90	31	31	1550	
03F	7	7	2	14.00	1.90	5.80	27	54	2700	
04F	9	9	2	14.00	5.80	9.70	23	46	2300	
05F	11	10	2	18.00	9.70	14.80	20	40	2000	
06F	13	12	1	18.00	14.80	17.30	16	16	800	
07F	2	2	0	18.00	17.30	24.00				
08F	2	2	0	22.00	24.00	31.00				
09F	2	2	0	26.00	31.00	37.00				
Forward Buff Screens: 3			Forward # Boards Crossed Volume mL					220	11.00	
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	12	11	1	22.00	31.00	27.90	18	18	900	
03R	10	9	1	18.00	27.90	25.40	22	22	1100	
04R	8	8	3	18.00	25.40	17.80	25	75	3750	
05R	7	7	1	14.00	17.80	15.90	27	27	1350	
06R	6	6	1	14.00	15.90	14.00	29	29	1450	
07R	2	2	2	14.00	14.00	10.10	37	74	3700	
08R	2	2	0	14.00	10.10	0.00				
09R										
Reverse # Boards Crossed Volume mL								245	12.25	
Forward plus Reverse Boards Crossed Volume mL								465	23.25	





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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

