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**SPORT**  
SERIES

# **KEGEL** NAVIGATION PATTERNS





### AUTOBAHN 2542

Using Kegel's reverse drop brush function, the amount of applied conditioner is increased in the midlane but less is at the end of the pattern.

This makes the Autobahn more about speed control and keeping your path straighter through the front part of the 'drive'; a term used for bowling lanes in the early 1900's.

On some 'drives', faster speeds may be best while other 'drives' may require a little less speed to navigate the corner without crashing through the breakpoint.

#### **Latitude Ratio Coordinates**

22' 2.5 to 1

40' 2.0 to 1

#### **Longitude Ratio Coordinates**

Outside Taper 4.6 to 1

Inside Taper 4.0 to 1

#### **Pattern Distance**

42 Feet

#### **Pattern Volume**

Forward 18.70 mL

Reverse 7.15 mL

Total 25.85 mL



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#### Latitude Ratio Coordinates

22' 2.5 to 1  
40' 2.0 to 1

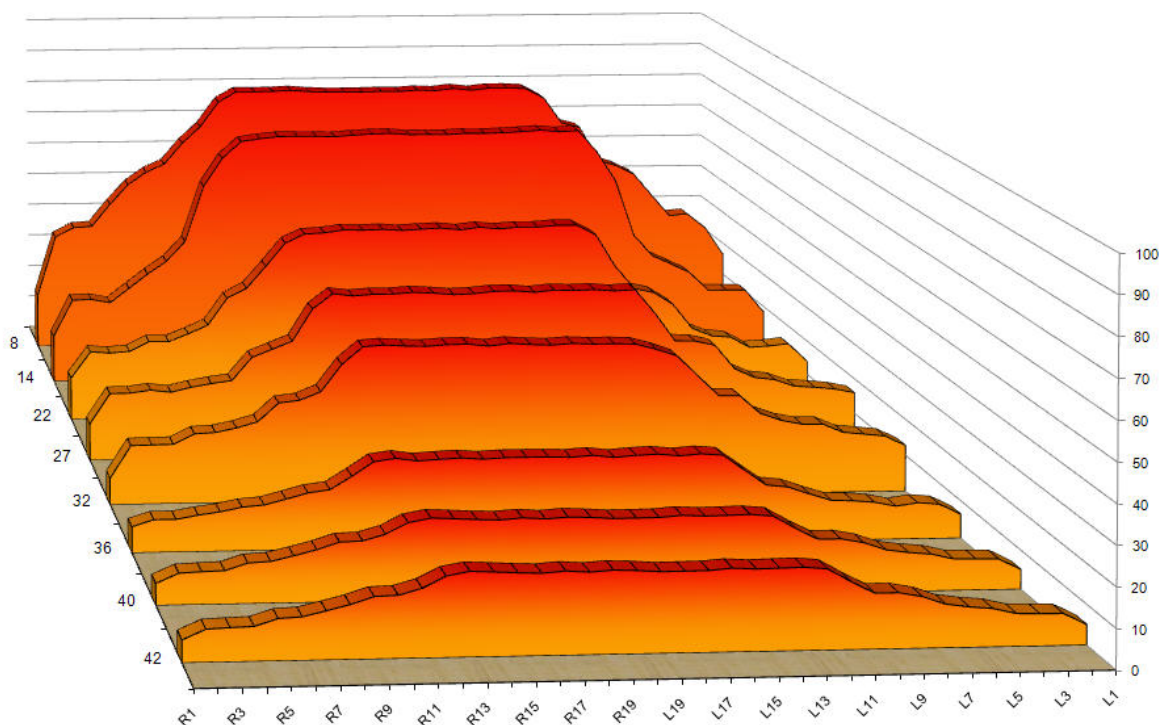
The 2D chart below was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern. All Latitude Ratio Coordinates are calculated from these two distances.

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 4.6 to 1  
Inside Taper 4.0 to 1

The 2D chart also gives a visual of how the conditioner tapers off from the front to the end of the pattern. Because of the drop brush feature used in this pattern, there is a greater amount of taper at the end of the pattern.





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#### Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50  $\mu$ L

Pattern Distance: 42 feet

Reverse Drop Brush: 33'

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 ( $\mu$ L)	
01F	2	2	5	14.00	0.00	7.90	37	185	9250	
02F	6	6	1	14.00	7.90	9.80	29	29	1450	
03F	9	9	2	14.00	9.80	13.70	23	46	2300	
04F	9	9	2	18.00	13.70	18.80	23	46	2300	
05F	12	12	4	18.00	18.80	29.00	17	68	3400	
06F	2	2	0	18.00	29.00	34.00	0	0	0	
07F	2	2	0	22.00	34.00	42.00	0	0	0	
08F										
09F										
Forward Buff Screens: 2			Forward # Boards Crossed   Volume mL					374	18.70	
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 ( $\mu$ L)	
01R	2	2	0	30.00		32.00	0	0	0	
02R	12	12	1	18.00	21.00	18.50	17	17	850	
03R	9	9	1	18.00	18.50	16.00	23	23	1150	
04R	6	6	1	18.00	16.00	13.50	29	29	1450	
05R	2	2	2	18.00	13.50	8.40	37	74	3700	
06R	2	2	0	14.00	8.40	0.00	0	0	0	
07R										
08R										
09R										
Reverse # Boards Crossed   Volume mL								143	7.15	
Forward plus Reverse Boards Crossed   Volume mL								517	25.85	





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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.

