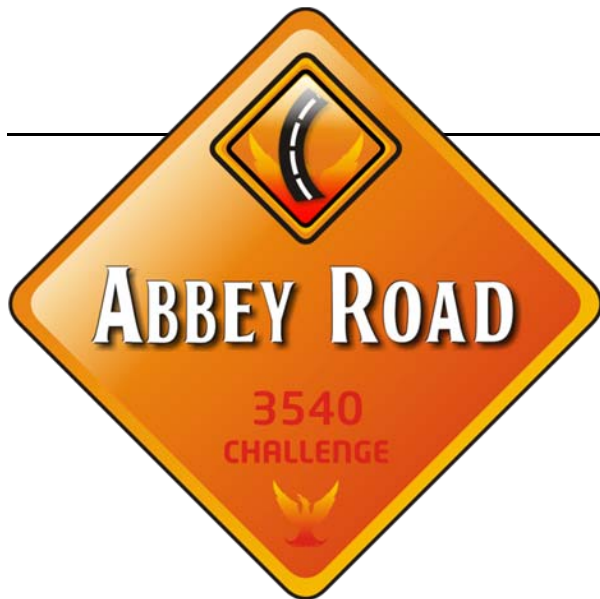




CHALLENGE
SERIES

KEGEL NAVIGATION PATTERNS





ABBEY ROAD 3540

Like the goal of the famous album, this pattern is designed more like the way things used to be; back to the basics. Players should try different lines across the Abbey Road and watch out for traffic to find their best way to the scoring side.

For some it may be on the corner while for others towards the middle, but like the last line the Beatles ever sang... *"in the end the score you take is equal to the score you make."*

Latitude Ratio Coordinates

22' 3.5 to 1
38' 3.1 to 1

Longitude Ratio Coordinates

Outside Taper 5.1 to 1
Inside Taper 4.0 to 1

Pattern Distance

40 Feet

Pattern Volume

Forward 16.60 mL
Reverse 7.60 mL
Total 24.20 mL



KEGEL NAVIGATION PATTERNS

CHALLENGE SERIES



ABBEY ROAD 3540

Latitude Ratio Coordinates

22' 3.5 to 1
38' 3.1 to 1

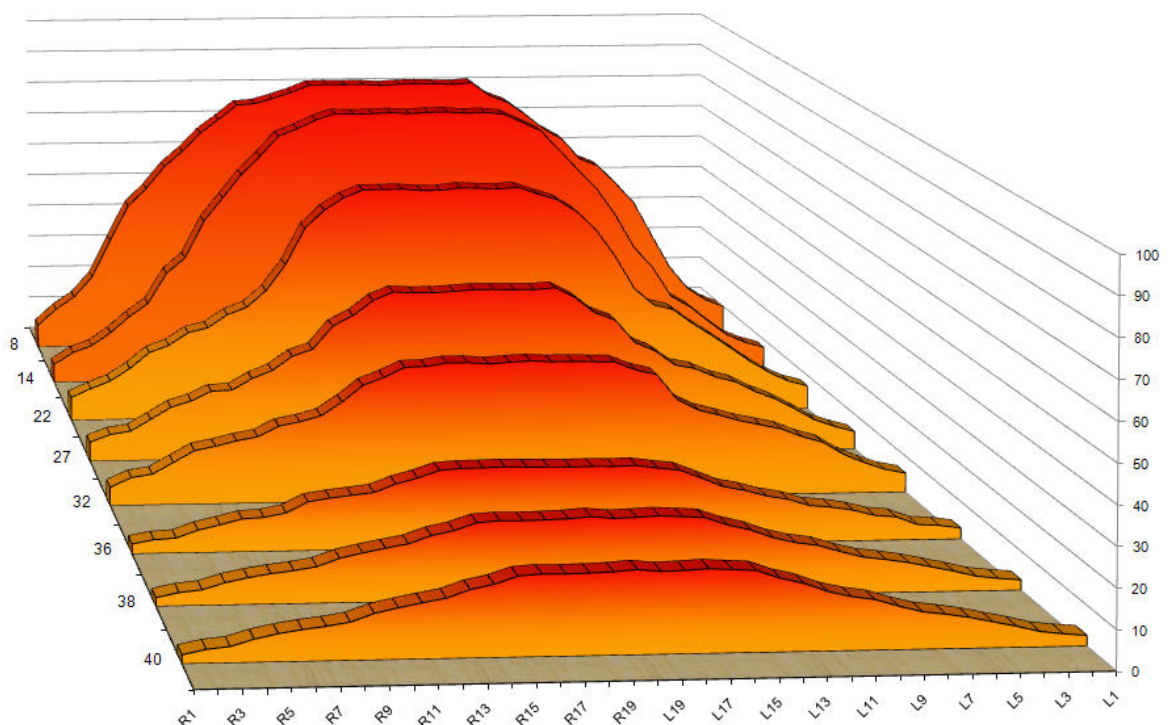
The 2D chart below was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern. All Latitude Ratio Coordinates are calculated from these two distances.

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 5.1 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.





KEGEL NAVIGATION PATTERNS

CHALLENGE SERIES



ABBEY ROAD 3540

Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50 μ L

Pattern Distance: 40 feet

Reverse Drop Brush: 34 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 (μ L) |
| 01F | 2 | 2 | 2 | 14.00 | 0.00 | 1.90 | 37 | 74 | 3700 |
| 02F | 4 | 4 | 1 | 14.00 | 1.90 | 3.80 | 33 | 33 | 1650 |
| 03F | 5 | 5 | 1 | 14.00 | 3.80 | 5.70 | 31 | 31 | 1550 |
| 04F | 6 | 6 | 1 | 14.00 | 5.70 | 7.60 | 29 | 29 | 1450 |
| 05F | 7 | 7 | 1 | 14.00 | 7.60 | 9.50 | 27 | 27 | 1350 |
| 06F | 9 | 9 | 2 | 14.00 | 9.50 | 13.40 | 23 | 46 | 2300 |
| 07F | 11 | 11 | 2 | 18.00 | 13.40 | 18.50 | 19 | 38 | 1900 |
| 08F | 13 | 13 | 2 | 18.00 | 18.50 | 23.60 | 15 | 30 | 1500 |
| 09F | 14 | 14 | 1 | 18.00 | 23.60 | 26.10 | 13 | 13 | 650 |
| 10F | 15 | 15 | 1 | 18.00 | 26.10 | 28.60 | 11 | 11 | 550 |
| 11F | 2 | 2 | 0 | 18.00 | 28.60 | 31.00 | 0 | 0 | 0 |
| 12F | 2 | 2 | 0 | 26.00 | 31.00 | 40.00 | 0 | 0 | 0 |
| Forward Buff Screens: 2 | | | Forward # Boards Crossed Volume mL | | | | | 332 | 16.60 |
| 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 (μ L) |
| 01R | 2 | 2 | 0 | 30.00 | | 22.00 | 0 | 0 | 0 |
| 02R | 12 | 12 | 1 | 18.00 | 22.00 | 19.50 | 17 | 17 | 850 |
| 03R | 10 | 10 | 1 | 18.00 | 19.50 | 17.00 | 21 | 21 | 1050 |
| 04R | 8 | 8 | 1 | 18.00 | 17.00 | 14.50 | 25 | 25 | 1250 |
| 05R | 7 | 7 | 1 | 18.00 | 14.50 | 12.00 | 27 | 27 | 1350 |
| 06R | 6 | 6 | 1 | 14.00 | 12.00 | 10.10 | 29 | 29 | 1450 |
| 07R | 4 | 4 | 1 | 14.00 | 10.10 | 8.20 | 33 | 33 | 1650 |
| 08R | 2 | 2 | 0 | 14.00 | 8.20 | 0.00 | 0 | 0 | 0 |
| Reverse # Boards Crossed Volume mL | | | | | | | | 152 | 7.60 |
| Forward plus Reverse Boards Crossed Volume mL | | | | | | | | 484 | 24.20 |





KEGEL NAVIGATION PATTERNS

CHALLENGE SERIES



ABBNEY ROAD 3540

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.

