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**CHALLENGE**  
SERIES

# **KEGEL** NAVIGATION PATTERNS





### SUNSET STRIP 3240

Using Kegel's reverse drop brush function, this pattern places oil on the lane in four board strips.

Some lanes may allow certain styles to play the outside strip while others may find the middle or inside strip the best.

With a great performance and a little luck, you too can be a star on the Sunset Strip!

#### **Latitude Ratio Coordinates**

22' 3.2 to 1

38' 2.6 to 1

#### **Longitude Ratio Coordinates**

Outside Taper 4.6 to 1

Inside Taper 4.3 to 1

#### **Pattern Distance**

40 Feet

#### **Pattern Volume**

Forward 15.95 mL

Reverse 8.75mL

Total 24.70 mL



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#### Latitude Ratio Coordinates

22' 3.2 to 1  
38' 2.6 to 1

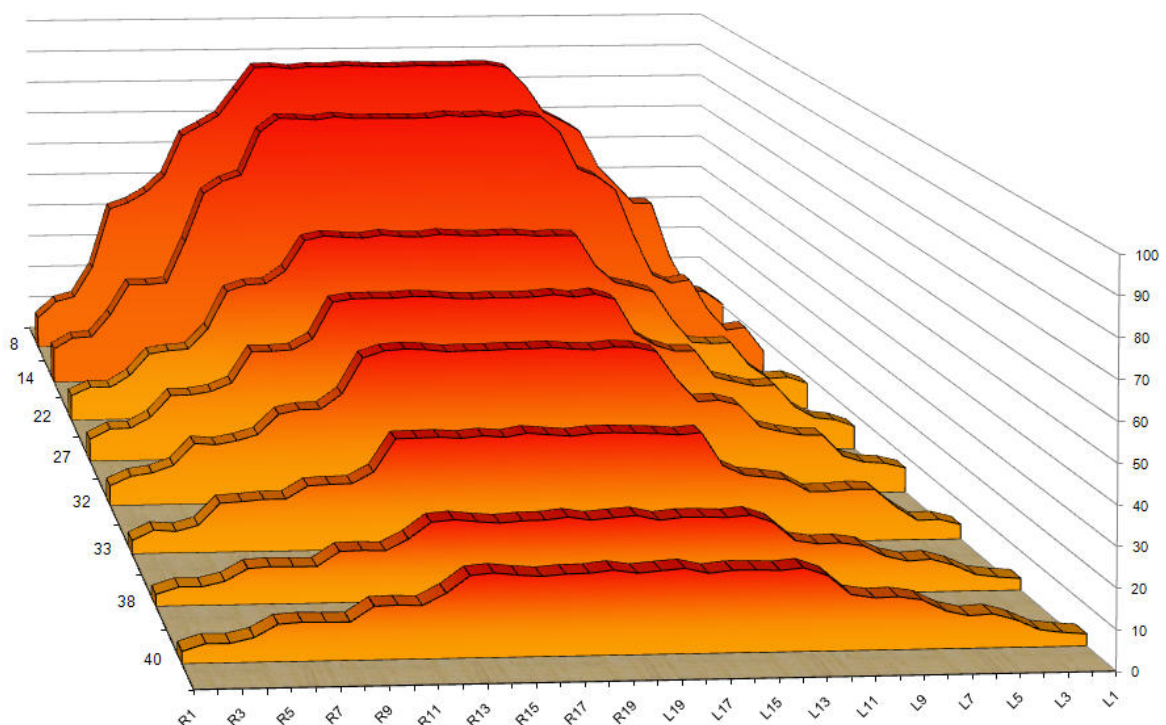
The 2D chart below was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern. All Latitude Ratio Coordinates are calculated from these two distances.

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 4.3 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 reverse 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: 40 feet

Reverse Drop Brush: 32 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 ( $\mu$ L)	
01F	2	2	2	14.00	0.00	1.90	37	74	3700	
02F	5	5	3	18.00	1.90	9.50	31	93	4650	
03F	9	9	4	18.00	9.50	19.70	23	92	4600	
04F	13	13	4	18.00	19.70	29.90	15	60	3000	
05F	2	2	0	18.00	29.90	33.00	0	0	0	
06F	2	2	0	22.00	33.00	40.00	0	0	0	
07F										
08F										
09F										
Forward Buff Screens: 2			Forward # Boards Crossed   Volume mL					319	15.95	
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		21.00	0	0	0	
02R	13	13	2	14.00	21.00	17.10	15	30	1500	
03R	9	9	2	14.00	17.10	13.20	23	46	2300	
04R	5	5	2	14.00	13.20	9.30	31	62	3100	
05R	2	2	1	10.00	9.30	7.90	37	37	1850	
06R	2	2	0	10.00	7.90	0.00	0	0	0	
07R										
08R										
09R										
Reverse # Boards Crossed   Volume mL								175	8.75	
Forward plus Reverse Boards Crossed   Volume mL								494	24.70	





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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.

