

BLS EPHEMERIS		CATALOG CROSS-MATCH (novelty)	
Period	1.073837 d	VSX	no match
Epoch (t0)	2391.6656 BTJD	ASAS-SN	no match
Duration	0.1700 d	Gaia eclipsing-binary table	no match
Depth	0.570 % (5,704 ppm)	Gaia variable classification	no match
SNR	28.5	TESS EB catalog (Prsa+2022)	no match
INDEPENDENT CHECKS (f3i gates)		ExoFOP TOI list	no match
Eclipses observed	48 (gate >= 3)	Verdict: NOVEL	
Robust depth ratio	0.98 (gate >= 0.50)		
Robust depth sigma	22.8 (gate >= 7.0)		
Odd/even z-score	0.67 (consistent)		
Secondary eclipse	not detected		

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

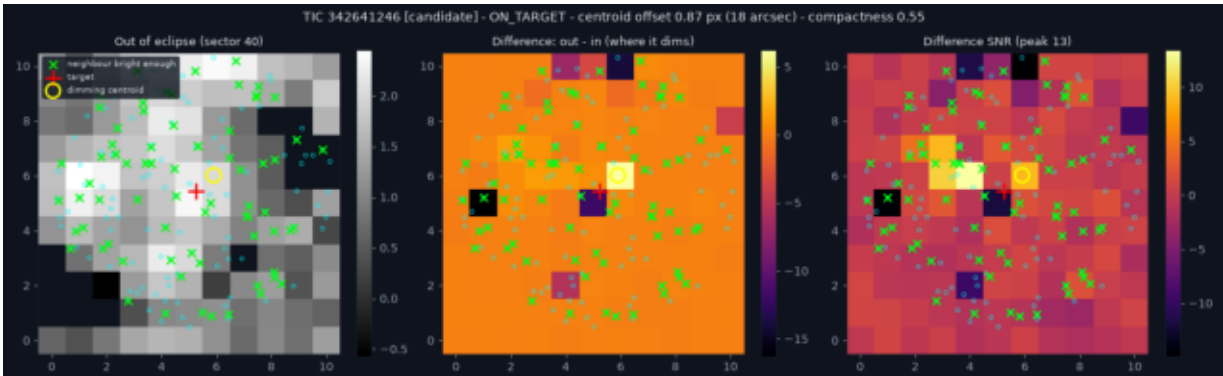
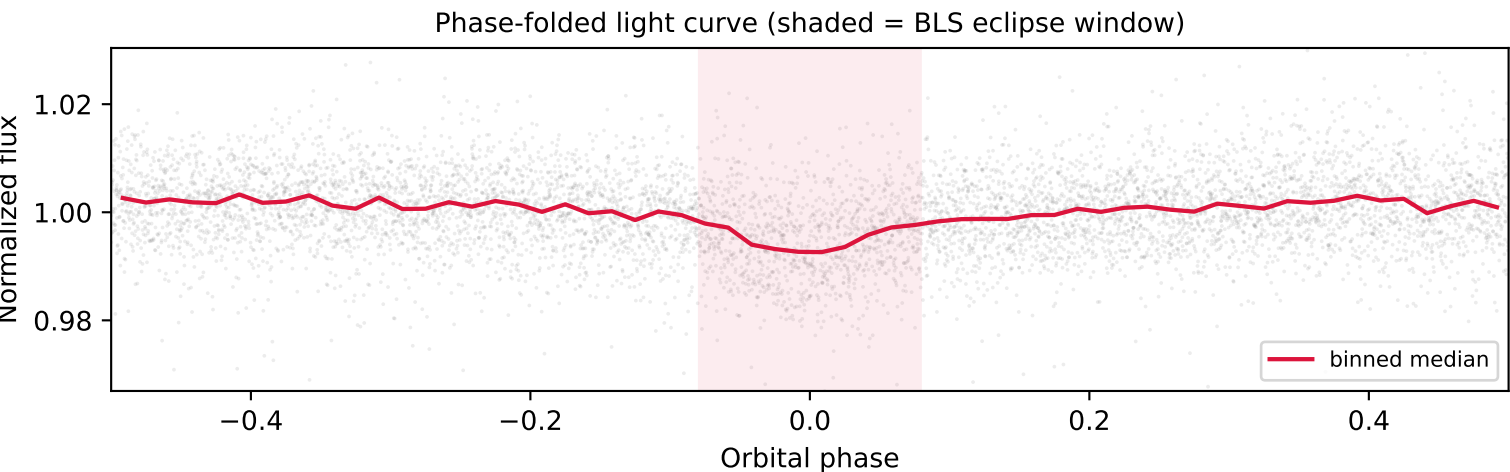
Sector 40 light-curve dip in this sector: 19.6 sigma t0 refined by -0.0050 phase

Difference-image peak SNR 13.48 (gate >= 5.0) Compactness 0.55 (gate >= 0.50)

Dimming centroid offset 0.87 px (18 arcsec) (gate <= 1.0 px, i.e. on the target)

Nearest bright-enough neighbour in cutout: TIC 1685196964

0.87 px away, dTmag +5.58 - farther from the dimming than the target



Caveat (THIN MARGIN): The ON_TARGET call rests on a neighbour-competition margin of just 0.004 px (dimming centroid 0.867 px from target vs 0.871 px from the nearest bright-enough neighbour) - inside diag_pixel.py's own stated centroid systematic of 0.10-0.3 px. TESS's resolution cannot confidently separate this star from that neighbour.