

NEEDLE ONE DEPARTURE

AL-384 (FAA)

BOEING FLD/KING COUNTY INTL (BFI)
SEATTLE, WASHINGTON

ATIS
127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.94'

**TOP ALTITUDE:
2100**

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.26'

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.67'

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.50'

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'

YAKIMA
116.0 YKM
Chan 107
N46°34.21'-W120°26.68'

TAKEOFF MINIMUMS

Rwys 14L/R: NA - ATC.

Rwy 32L: Standard with minimum climb of 425' per NM to 1400 or 400-1 $\frac{7}{8}$ with minimum climb of 240' per NM to 1400.

Rwy 32R: Standard with minimum climb of 345' per NM to 1400 or 400-2 with minimum climb of 240' per NM to 1400.

NOTE: Rwys 32L/R, no right turns authorized until leaving 1400'.

NOTE: RADAR required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 32L/R: Climb heading 315°, maintain 2100 or ATC assigned altitude, for RADAR vectors to assigned route/fix, expect clearance to filed altitude within 3 minutes after departure.

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NW-1, 16 JUN 2022 to 14 JUL 2022