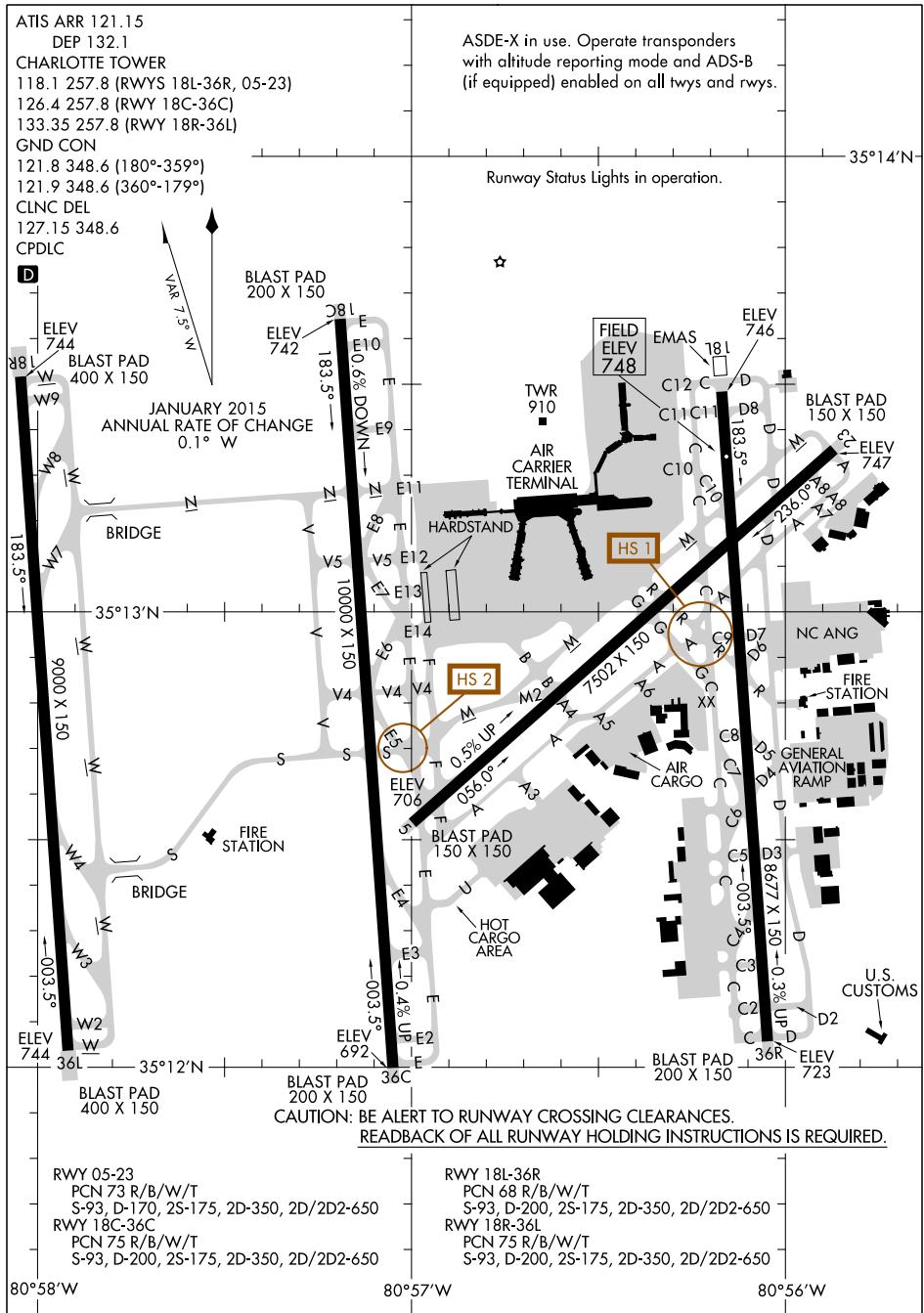


16315

AIRPORT DIAGRAM

AL-78 (FAA)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

AIRPORT DIAGRAM

16315

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)

**DEPARTURE ROUTE DESCRIPTION**

TAKOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 18C/L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

TAKOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to GILFN, thence . . .

. . . on track 188° to ICONS, then on BLDWN transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

BLDWN TRANSITION (ICONS1.BLDWN)

(NOTES CONTINUED ON FOLLOWING PAGE)

(WEAZL1.WEAZL) 16203

SL-78 (FAA)

WEAZL ONE DEPARTURE (RNAV)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

CHARLOTTE, NORTH CAROLINA

**TOP ALTITUDE:
8000**

ATIS DEP 132.1
 CLNC DEL 15 348.6
 GND CON (80°-359°)
 (60°-179°)
 TE TOWER
 36R, 5-23)
 18C-36C)
 18R-36L)
 DEP CON
 0.5 257.2

CLAWD
 WEAZL
 WHFRD

* 14300
 * 6400
 003°
 (45)

* 5400
 * 3400
 003°
 (7)

NOTE: For turbojets only.
NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: RADAR

NOTE: If unable to answer:

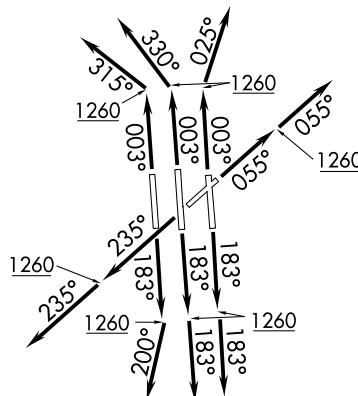
NOTE: If unable to accept climb rates,
advise ATC on initial contact.

NOTE: Accelerate to 250K, if unable advise ATC.

NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable advise ATC.

TAKEOFF MINIMUMS

Rwy 18L/C/R, 23, 36C/R: Standard with minimum climb of 500' per NM to 1260.
Rwy 5: Standard with minimum climb of 500' per NM to 1300.
Rwy 36L: Standard with minimum climb of 500' per NM to 1400.



(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

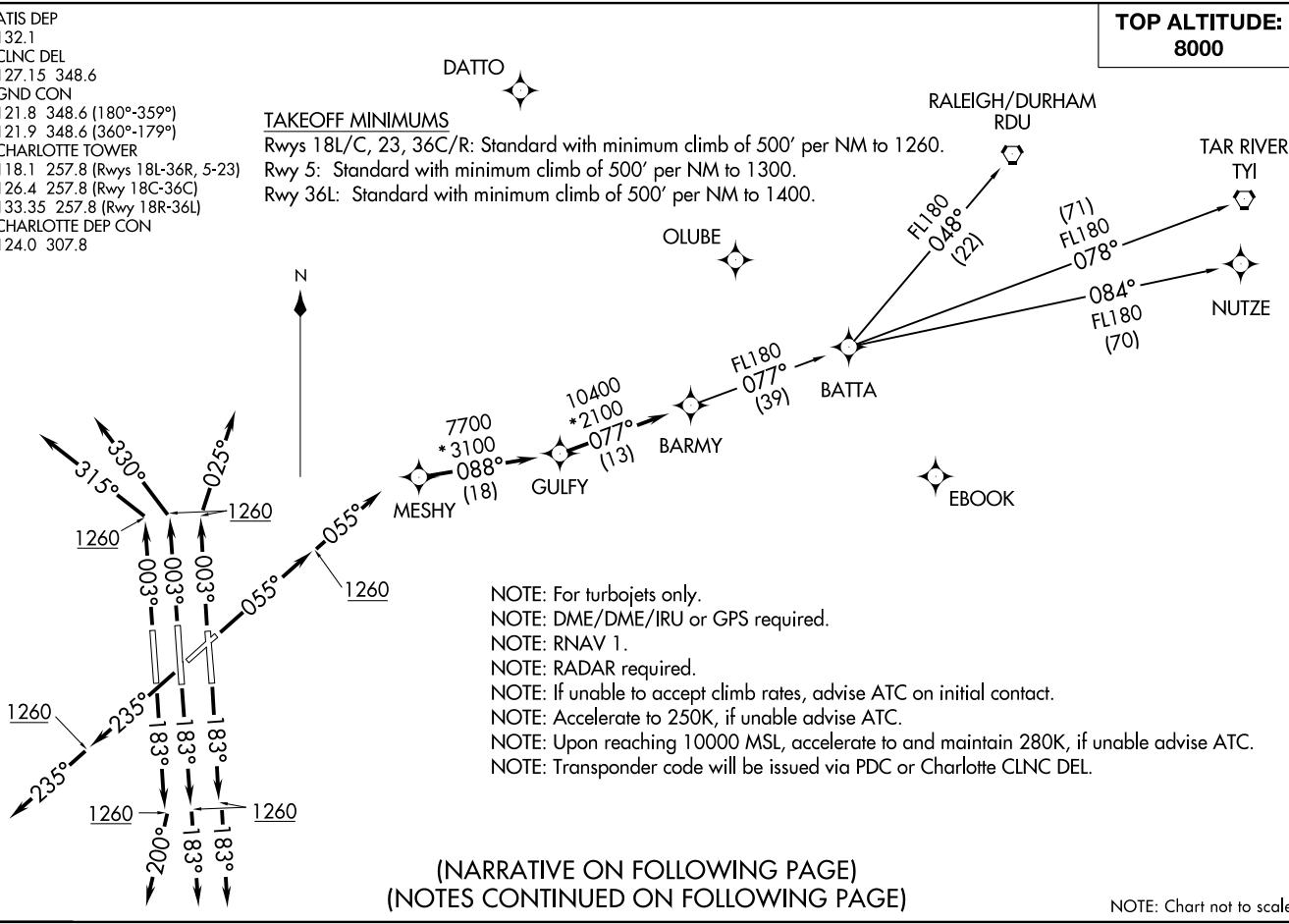
**WEAZL ONE DEPARTURE (RNAV)
(WEAZL1 WEAZL1) 20AUG15**

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INT'L (CLT)

TOP ALTITUDE:
8000

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON
124.0 307.8

BARMY ONE DEPARTURE (RNAV)
(BARMY1.BARMY) 26MAY16



CHARLOTTE, NORTH CAROLINA
CHARLOTTE DOUGLAS INTERNATIONAL (CLT)

(CLT2.CLT) 15176

CHARLOTTE TWO DEPARTURE

SL-78 (FAA)

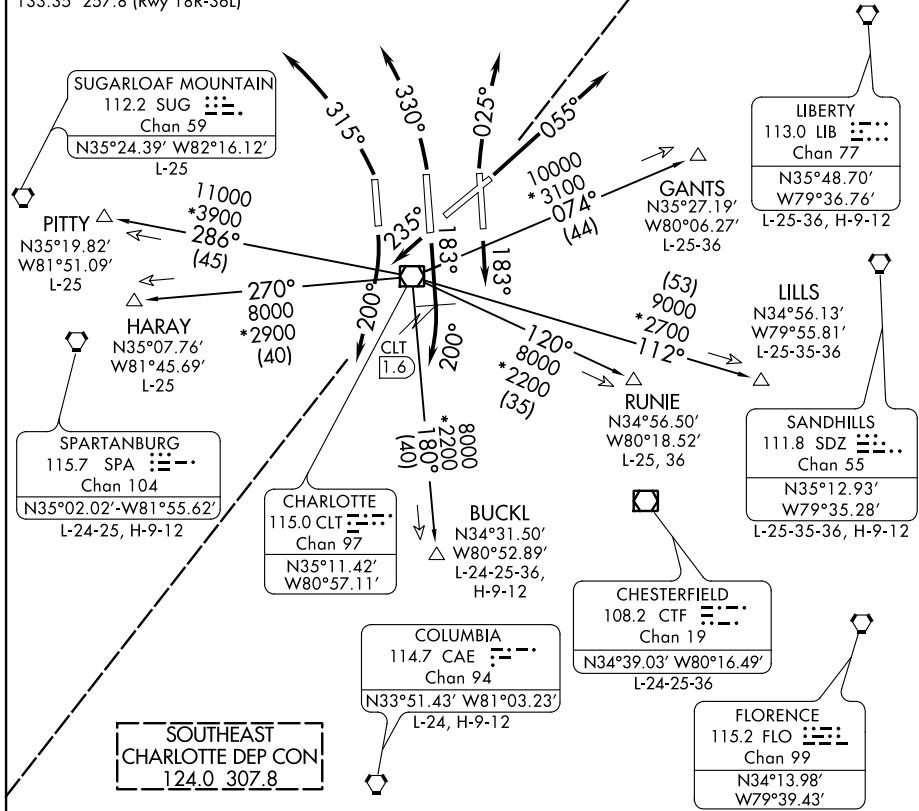
CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)

TOP ALTITUDE:
8000

NORTHWEST
CHARLOTTE DEP CON
120.5 257.2

GREENSBORO
116.2 GSO
Chan 109
N36°02.74'
W79°58.58'
L-25-36, H-9-12



NOTE: For Turbojet aircraft requesting at or below 10000' only.

NOTE: DME and RADAR required.

NOTE: Accelerate to 250K, if unable, advise ATC.

NOTE: Transponder code will be issued via PDC or Charlotte clearance delivery.

NOTE: If unable to accept climb rate, advise ATC on initial contact.

TAKEOFF MINIMUMS:

Rwy 18L, 18R, 18C, 23, 36C, 36R: Standard.

Rwy 5: Standard with minimum climb of 275' per NM to 2000.

Rwy 36L: Standard with minimum climb of 231' per NM to 3600.

(NARRATIVE ON FOLLOWING PAGE)

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

CHARLOTTE TWO DEPARTURE
(CLT2.CLT) 15176

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)

**TOP ALTITUDE:
8000**

KILNS ONE DEPARTURE (RNAV)

TAKEOFF MINIMUMS

Rwys 18L/C/R, 23, 36C/R: Standard with minimum climb of 500' per NM to 1260.

Rwy 5: Standard with minimum climb of 500' per NM to 1300.

Rwy 36L: Standard with minimum climb of 500' per NM to 1400.

ATIS DEP

132.1

CLNC DEL

127.15 348.6

GND CON

121.8 348.6 (180°-359°)

121.9 348.6 (360°-179°)

CHARLOTTE TOWER

118.1 257.8 (Rwys 5-23, 18L-36R)

126.4 257.8 (Rwy 18C-36C)

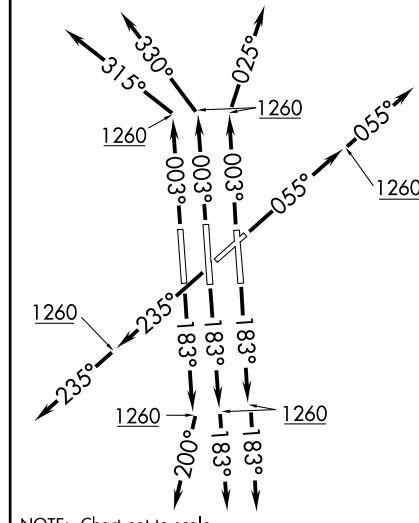
133.35 257.8 (Rwy 18R-36L)

CHARLOTTE DEP CON

124.0 307.8

KILNS ONE DEPARTURE (RNAV)

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)



(NARRATIVE ON FOLLOWING PAGE)
(NOTES CONTINUED ON FOLLOWING PAGE)

▼

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 18C: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 18L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect radar vectors to LACHN, thence

TAKEOFF RWY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect radar vectors to LACHN, thence

. . . . on depicted route to BOBZY, then on assigned transition. Maintain 8000.

Expect clearance to filed altitude within 10 minutes after departure.

NASHVILLE TRANSITION (BOBZY1.BNA):TNSLY TRANSITION (BOBZY1.TNSLY):

TAKEOFF OBSTACLE NOTES:

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.

 Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.

 Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

 Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.

 Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.

 Railroad, pole and trees beginning 471' from DER, 93' right of centerline,
 up to 36' AGL/795' MSL.

 Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.

▼

DEPARTURE ROUTE DESCRIPTION

- TAKEOFF RUNWAY 5: Climb heading 055° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 18R: Climb heading 183° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 18C: Climb heading 183° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 18L: Climb heading 183° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 23: Climb heading 235° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 36L: Climb heading 003° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 36C: Climb heading 003° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 36R: Climb heading 003° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to intercept filed/assigned transition or enroute fix/navaid.
 Maintain 4000, expect filed altitude/flight level 10 minutes after departure.

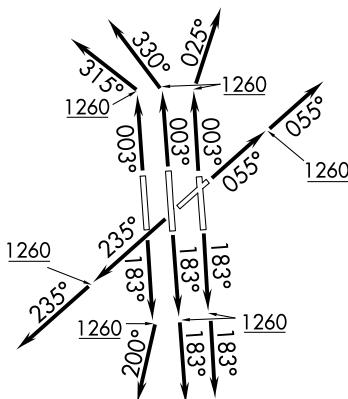
- ANDYS TRANSITION (HUG3.ANDYS): From over CLT VOR/DME on CLT R-196 to ANDYS.
CHOPN TRANSITION (HUG3.CHOPN): From over CLT VOR/DME on CLT R-165 to CHOPN.
DEBIE TRANSITION (HUG3.DEBIE): From over CLT VOR/DME on CLT R-255 to DEBIE.
GIPPR TRANSITION (HUG3.GIPPR): From over CLT VOR/DME on CLT R-093 to GIPPR.
PITTY TRANSITION (HUG3.PITTY): From over CLT VOR/DME on CLT R-286 to PITTY.
ROBAY TRANSITION (HUG3.ROBAY): From over CLT VOR/DME on CLT R-347 to ROBAY.
SADIE TRANSITION (HUG3.SADIE): From over CLT VOR/DME on CLT R-347 to SADIE.

TAKEOFF OBSTACLE NOTES

- Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.
 Rwy 18L: Tower and pole beginning 981' from DER, 708' left of centerline, up to 160' AGL/850' MSL.
 Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
 Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
 Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.
 Rwy 23: Trees beginning 3899' from DER, 216' left of centerline, up to 99' AGL/818' MSL.
 Trees beginning 1491' from DER, 603' right of centerline, up to 74' AGL/823' MSL.
 Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
 Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.
 Rwy 36R: Pole and trees beginning 713' from DER, 416' left of centerline, up to 94' AGL/853' MSL.
 Railroad, antenna, poles and trees beginning 471' from DER, 93' right of centerline,
 up to 93' AGL/852' MSL.

ICONS ONE DEPARTURE (RNAV)CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON
120.5 257.2 (Rwys 36C, 36L)
124.0 307.8 (Rwys 5, 18C, 18L, 18R, 23, 36R)

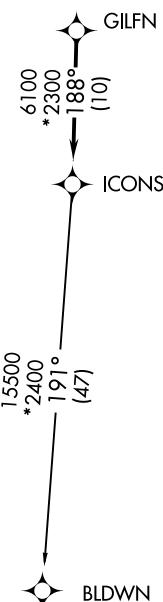
TOP ALTITUDE:
8000**TAKEOFF MINIMUMS**

Rwys 18L/C/R, 23, 36C/R:

Standard with minimum climb of 500' per NM to 1260.

Rwy 5: Standard with minimum climb of 500' per NM to 1300.

Rwy 36L: Standard with minimum climb of 500' per NM to 1400.



NOTE: For turbojets only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: If unable to accept climb rates, advise ATC on initial contact.

NOTE: Accelerate to 250K, if unable advise ATC.

NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable advise ATC.

NOTE: Transponder code will be issued via PDC or Charlotte CLNC DEL.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAYS 18L/C: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

TAKEOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to LAMDE, thence . . .

. . . on depicted route to LILLS. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

TAKEOFF OBSTACLE NOTES

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline, up to 36' AGL/795' MSL.

Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAYS 18C/L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

TAKEOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to WAYDS, thence

. . . . on depicted route to JOJJO, then on assigned transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

CUBIM TRANSITION (JOJJO1.CUBIM):

DOOGE TRANSITION (JOJJO1.DOOGE):

NOONN TRANSITION (JOJJO1.NOONN): (ATC assigned only.)

TAKEOFF OBSTACLE NOTES:

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.

Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline, up to 36' AGL/795' MSL.

Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAYS 18C/L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

TAKEOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to WHFRD, thence. . . .

. . . . on track 003° to WEAZL, then on CLAWD TRANSITION. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

CLAWD TRANSITION (WEAZL1.CLAWD)TAKEOFF OBSTACLE NOTES

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.

Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.

Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.

Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.

Railroad, pole, and trees beginning 471' from DER, 93' right of centerline, up to 36' AGL/795' MSL.

Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.

▼

DEPARTURE ROUTE DESCRIPTION

TAKEOF RWY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 18L/C: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to UGANG, thence

TAKEOF RWY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to UGANG, thence

. . . . on track 196° to BEAVY, then on assigned transition. Maintain 8000, expect clearance to filed altitude within 10 minutes after departure.

DUNKIN TRANSITION (BEAVY1.DUNKN)

GANDT TRANSITION (BEAVY1.GANDT)

(NOTES CONTINUED ON FOLLOWING PAGE)

HUGO THREE DEPARTURE

SL-78 (FAA)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (I)
121.9 348.6 (S)
CHARLOTTE TCA
118.1 257.8 (I)
126.4 257.8 (I)
133.35 257.8

TOP ALTITUDE:
4000

NOTE: Chart not to scale.

SADIE
N36°41.81'
W81°33.61'

HOLSTON MOUNTAIN
114.6 HMV 
Chan 93
N36°26.22' W82°07.78'

CHARLESTON
7.4 HVQ 
Chan 121
P20.98' W81°46.19'
+ 04 H10 10

LYNCHBURG
109.2 LYH 
Chan 29
37°15.27' W79°14.18'
26-36 H-10-12

NORTHWEST
CHARLOTTE DEP CON
134 75 257 2

SUGARLOAF MOUNTAIN
112.2 SUG Chan 59
N35°24.39' W82°16.12'

FOOTHILLS
113.4 ODF Chan 81
N34°41.75'
W83°17.86'
I-25 H-9-12

GREENWOOD
115.5 GRD 
Chan 102

ELECTRIC CITY
108.6 ELW : = :
Chan 23
N34°25.15'
W82°47.08'

L-24-23
SOUTHEAST
CHARLOTTE DEP CON
128.325 307.8

COLLIERS
3.9 IRQ 
Chan 86
42.44' -W82°09.72'

COLUMBIA
114.7 CAE 
Chan 94
3°51.43'-W81°03.2'

TAKOFF MINIMUMS

Rwvs 18R, 18I, 18C, 23, 36R; Standard

Rwy 5: Standard with minimum climb of 275' per NM to 2000

Rwy 3: Standard with minimum climb of 20' per NM to 3000'.
Rwy 3C: Standard with minimum climb of 208' per NM to 3400', or alternatively, with Standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur not later than 2000' prior to DER.

Rwy 36L: Standard with minimum climb of 215' per NM to 3500

NOTE: For propeller aircraft only.
NOTE: RADAR and DME Required
NOTE: Transponder code will be issued via PDC or Charlotte Clearance Delivery.

NOTE: Turboprops: Operate in a manner that will result in best forward speed and climb rate.

SAVANNAH
115.95 SAV Chan 106 (Y)
N32°08.78' W81°11.95'

L-24, H-9-12

HUGO THREFF DEPARTURE

(HUG3 HUG) 15176

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INT'L (CLT)

KRITR TWO DEPARTURE (RNAV)CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA**TAKEOFF OBSTACLE NOTES**

- Rwy 5: Tree 810' from DER, 677' right of centerline, 768' MSL. Tree 1031' from DER, 665' left of centerline, 773' MSL. Tree 1050' from DER, 755' left of centerline, 787' MSL. Tree 1894' from DER, 854' left of centerline, 799' MSL. Trees beginning 2088' from DER, 877' left of centerline, up to 821' MSL. Trees beginning 2437' from DER, 971' left of centerline, up to 822' MSL. Tree 2582' from DER, 1056' left of centerline, 843' MSL. Trees beginning 2608' from DER, 543' left of centerline, up to 848' MSL. Tree 3977' from DER, 480' left of centerline, 856' MSL.
- Rwy 18C: Airfield light 11' from DER, 84' left of centerline, 4' AGL/695' MSL. Tree 555' from DER, 564' left of centerline, 711' MSL. Tree 1059' from DER, 762' right of centerline, 729' MSL. Trees beginning 1183' from DER, 608' left of centerline, up to 746' MSL. Trees beginning 1478' from DER, 276' left of centerline, up to 757' MSL. Tree 2035' from DER, 1025' left of centerline, 764' MSL. Trees beginning 2058' from DER, 182' right of centerline, up to 771' MSL. Tree 2723' from DER, 971' left of centerline, 773' MSL. Trees beginning 3245' from DER, 793' right of centerline, up to 792' MSL. Tree 4249' from DER, 1039' right of centerline, 805' MSL. Tree 5354' from DER, 1810' right of centerline, 831' MSL. Trees beginning 5551' from DER, 1412' right of centerline, up to 120' AGL/848' MSL.
- Rwy 18L: Airfield light 10' from DER, centerline, 3' AGL/726' MSL. Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL. Tower and tree beginning 981' from DER, 689' right of centerline, up to 765' MSL. Tree 1235' from DER, 795' right of centerline, 767' MSL. Trees beginning 1457' from DER, 703' right of centerline, up to 777' MSL. Tree 2248' from DER, 815' right of centerline, 783' MSL. Tower 4408' from DER, 1505' left of centerline, 160' AGL/849' MSL.
- Rwy 18R: Airfield light 10' from DER, 4' left of centerline, 3' AGL/746' MSL. Ground 145' from DER, 522' left of centerline, 748' MSL.
- Rwy 23: MALSR 1' from DER, on centerline, 706' MSL. Control box 1' from DER, 136' right of centerline, 4' AGL/708' MSL. Tree 1270' from DER, 772' right of centerline, 742' MSL. Tree 1310' from DER, 771' right of centerline, 753' MSL. Tree 1477' from DER, 702' right of centerline, 757' MSL. Trees beginning 1573' from DER, 654' right of centerline, up to 758' MSL. Trees beginning 1728' from DER, 541' right of centerline, up to 762' MSL. Trees beginning 1814' from DER, 597' right of centerline, up to 775' MSL. Tree 1844' from DER, 805' right of centerline, 776' MSL. Trees beginning 1944' from DER, 697' right of centerline, up to 792' MSL. Trees beginning 2242' from DER, 361' right of centerline, up to 811' MSL.
- Rwy 36C: Airfield light 4' from DER, 11' left of centerline, 1' AGL/743' MSL. Trees beginning 1246' from DER, 598' right of centerline, up to 822' MSL. Trees beginning 1937' from DER, 446' right of centerline, up to 823' MSL. Trees beginning 2045' from DER, 237' right of centerline, up to 827' MSL.
- Rwy 36L: Airfield light 9' from DER, 3' left of centerline, 2' AGL/745' MSL. Tree 1355' from DER, 544' left of centerline, 786' MSL.
- Rwy 36R: Airport sign 19' from DER, 289' right of centerline, 6' AGL/747' MSL. Trees beginning 470' from DER, 474' right of centerline, up to 767' MSL. Tree and railroad beginning 640' from DER, 93' right of centerline, up to 775' MSL. Light pole and tree beginning 837' from DER, 500' right of centerline, up to 777' MSL. Tree 943' from DER, 650' left of centerline, 771' MSL. Pole 1004' from DER, 739' left of centerline, 774' MSL. Trees beginning 1058' from DER, 346' right of centerline, up to 779' MSL. Pole 1191' from DER, 769' left of centerline, 778' MSL. Tree 1297' from DER, 625' right of centerline, 780' MSL. Tree 1295' from DER, 585' left of centerline, 782' MSL. Tree 1396' from DER, 646' right of centerline, 784' MSL. Trees beginning 1475' from DER, 1' left of centerline, up to 805' MSL. Tree 1612' from DER, 732' right of centerline, 787' MSL. Tree and pole beginning 1652' from DER, 718' right of centerline, up to 809' MSL. Trees beginning 1725' from DER, 557' right of centerline, up to 816' MSL. Trees beginning 1874' from DER, on centerline, up to 820' MSL. Tree 2053' from DER, 90' left of centerline, 59' AGL/807' MSL. Trees beginning 2070' from DER, 41' left of centerline, up to 72' AGL/815' MSL. Trees beginning 2132' from DER, 324' left of centerline, up to 823' MSL. Tree 2457' from DER, 919' left of centerline, 830' MSL. Tower 3685' from DER, 1160' right of centerline, 70' AGL/844' MSL. Tree 3737' from DER, 392' left of centerline, 91' AGL/843' MSL. Tree 3756' from DER, 530' right of centerline, 846' MSL. Trees beginning 3759' from DER, 433' left of centerline, up to 851' MSL. Trees beginning 3774' from DER, 578' right of centerline, up to 852' MSL. Trees beginning 3803' from DER, 171' left of centerline, up to 863' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAYS 18L/C: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200 or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

TAKEOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to HMMPY, thence

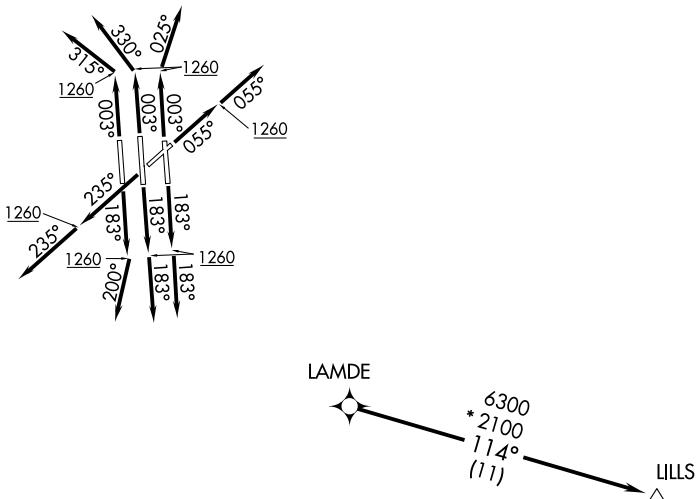
. . . . on track 181° to KWEEN, then on PITRW transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

PITRW TRANSITION (KWEEN1.PITRW)

(CONTINUED ON FOLLOWING PAGE)

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwys 18L-36R, 5-23)
126.4 257.8 (Rwys 18C-36C)
133.35 257.8 (Rwys 18R-36L)
CHARLOTTE DEP CON
124.0 307.8

TOP ALTITUDE:
8000



NOTE: For turbojets only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: Accelerate to 250K, if unable, advise ATC.

NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable advise ATC.

NOTE: If unable to accept climb rates, advise ATC on initial contact.

NOTE: Transponder code will be issued via PDC or Charlotte CLNC DEL.

TAKEOFF MINIMUMS

Rwys 18L/C/R, 23, 36C/R: Standard with minimum climb of 500' per NM to 1260.

Rwys 5: Standard with minimum climb of 500' per NM to 1300.

Rwys 36L: Standard with minimum climb of 500' per NM to 1400.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

LILLS EIGHT DEPARTURE (RNAV)

(LILS8.LILS) 26MAY16

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INT'L (CLT)

(KRITR2,KRITR) 16203

SL-78 (FAA)

KRITR TWO DEPARTURE (RNAV)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON
120.5 257.2

**TOP ALTITUDE:
8000**

TAKEOFF MINIMUMS

Rwvs 18I/C/R 23, 36C/R

Standard with minimum climb of 500' per NM to 1260

Rwy 5: Standard with minimum climb of 500' per NM to 1300

Rwy 36L: Standard with minimum climb of 500' per NM to 1400.

NOTE: For t
NOTE: DME
NOTE: RNA
NOTE: RAD
NOTE: If und

NOTE: For turbojets only.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1

NOTE: RNAV I.

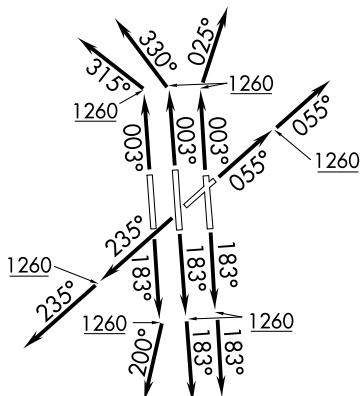
NOTE: RADAR

NOTE: If unable to accept
this ATG, sign

advise ATC on initial contact.
NOTE: Accelerate to 250K, if unable to

NOTE: Upon reaching 10000 MSL, accelerate

to and maintain 280K, if unable advise



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale

KRITR TWO DEPARTURE (RNAV) (KRITR2.KRITR) 21JUL16

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INT'L (CLT)

**TAKEOFF OBSTACLE NOTES**

- Rwy 5: Tree 810' from DER, 677' right of centerline, 768' MSL. Tree 1031' from DER, 665' left of centerline, 773' MSL. Tree 1050' from DER, 755' left of centerline, 787' MSL. Tree 1894' from DER, 854' left of centerline, 799' MSL. Trees beginning 2088' from DER, 877' left of centerline, up to 821' MSL. Trees beginning 2437' from DER, 971' left of centerline, up to 822' MSL. Tree 2582' from DER, 1056' left of centerline, 843' MSL. Trees beginning 2608' from DER, 543' left of centerline, up to 848' MSL. Tree 3977' from DER, 480' left of centerline, 856' MSL.
- Rwy 18C: Airfield light 11' from DER, 84' left of centerline, 4' AGL/695' MSL. Tree 555' from DER, 564' left of centerline, 711' MSL. Tree 1059' from DER, 762' right of centerline, 729' MSL. Trees beginning 1183' from DER, 608' left of centerline, up to 746' MSL. Trees beginning 1478' from DER, 276' left of centerline, up to 757' MSL. Tree 2035' from DER, 1025' left of centerline, 764' MSL. Trees beginning 2058' from DER, 182' right of centerline, up to 771' MSL. Tree 2723' from DER, 971' left of centerline, 773' MSL. Trees beginning 3245' from DER, 793' right of centerline, up to 792' MSL. Tree 4249' from DER, 1039' right of centerline, 805' MSL. Tree 5354' from DER, 1810' right of centerline, 831' MSL. Trees beginning 5551' from DER, 1412' right of centerline, up to 120' AGL/848' MSL.
- Rwy 18L: Airfield light 10' from DER, centerline, 3' AGL/726' MSL. Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL. Tower and tree beginning 981' from DER, 689' right of centerline, up to 765' MSL. Tree 1235' from DER, 795' right of centerline, 767' MSL. Trees beginning 1457' from DER, 703' right of centerline, up to 777' MSL. Tree 2248' from DER, 815' right of centerline, 783' MSL. Tower 4408' from DER, 1505' left of centerline, 160' AGL/849' MSL.
- Rwy 18R: Airfield light 10' from DER, 4' left of centerline, 3' AGL/746' MSL. Grd 145' from DER, 522' left of centerline, 748' MSL.
- Rwy 23: MALSR 1' from DER, on centerline, 706' MSL. Control box 1' from DER, 136' right of centerline, 4' AGL/708' MSL. Tree 1270' from DER, 772' right of centerline, 742' MSL. Tree 1310' from DER, 771' right of centerline, 753' MSL. Tree 1477' from DER, 702' right of centerline, 757' MSL. Trees beginning 1573' from DER, 654' right of centerline, up to 758' MSL. Trees beginning 1728' from DER, 541' right of centerline, up to 762' MSL. Trees beginning 1814' from DER, 597' right of centerline, up to 775' MSL. Tree 1844' from DER, 805' right of centerline, 776' MSL. Trees beginning 1944' from DER, 697' right of centerline, up to 792' MSL. Trees beginning 2242' from DER, 361' right of centerline, up to 811' MSL.
- Rwy 36C: Airfield light 4' from DER, 11' left of centerline, 1' AGL/743' MSL. Trees beginning 1246' from DER, 598' right of centerline, up to 822' MSL. Trees beginning 1937' from DER, 446' right of centerline, up to 823' MSL. Trees beginning 2045' from DER, 237' right of centerline, up to 827' MSL.
- Rwy 36L: Airfield light 9' from DER, 3' left of centerline, 2' AGL/745' MSL. Tree 1355' from DER, 544' left of centerline, 786' MSL.
- Rwy 36R: APRT sign 19' from DER, 289' right of centerline, 6' AGL/747' MSL. Trees beginning 470' from DER, 474' right of centerline, up to 767' MSL. Tree and railroad, beginning 640' from DER, 93' right of centerline, up to 775' MSL. Light pole and tree beginning 837' from DER, 500' right of centerline, up to 777' MSL. Tree 943' from DER, 650' left of centerline, 771' MSL. Pole 1004' from DER, 739' left of centerline, 774' MSL. Trees beginning 1058' from DER, 346' right of centerline, up to 779' MSL. Pole 1191' from DER, 769' left of centerline, 778' MSL. Tree 1279' from DER, 625' right of centerline, 780' MSL. Tree 1295' from DER, 585' left of centerline, 782' MSL. Tree 1396' from DER, 646' right of centerline, 784' MSL. Trees beginning 1475' from DER, 1' left of centerline, up to 805' MSL. Tree 1612' from DER, 732' right of centerline, 787' MSL. Tree and pole beginning 1652' from DER, 718' right of centerline, up to 809' MSL. Trees beginning 1725' from DER, 557' right of centerline, up to 816' MSL. Trees beginning 1874' from DER, on centerline, up to 820' MSL. Tree 2053' from DER, 90' left of centerline, 59' AGL/807' MSL. Trees beginning 2070' from DER, 41' left of centerline, up to 72' AGL/815' MSL. Trees beginning 2132' from DER, 324' left of centerline, up to 823' MSL. Tree 2457' from DER, 919' left of centerline, 830' MSL. Tower 3685' from DER, 1160' right of centerline, 70' AGL/844' MSL. Tree 3737' from DER, 392' left of centerline, 91' AGL/843' MSL. Tree 3756' from DER, 530' right of centerline, 846' MSL. Trees beginning 3759' from DER, 433' left of centerline, up to 851' MSL. Trees beginning 3774' from DER, 578' right of centerline, up to 852' MSL. Trees beginning 3803' from DER, 171' left of centerline, up to 863' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFRUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAYS 18L/C: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

TAKEOFRUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to MUNBE, thence . . .

. . . on depicted route to KILNS, then on AUDII transition. Maintain 8000.

Expect clearance to filed altitude within 10 minutes after departure.

AUDII TRANSITION (KILNS1.AUDI)

TAKEOFF OBSTACLE NOTES

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline,
up to 36' AGL/795' MSL.

Tower and trees beginning 3686' from DER, 530' right of centerline,
up to 93' AGL/852' MSL.

ICONS ONE DEPARTURE (RNAV)**TAKEOFF OBSTACLE NOTES**

- Rwy 5: Tree 810' from DER, 677' right of centerline, 768' MSL. Tree 1031' from DER, 665' left of centerline, 773' MSL. Tree 1050' from DER, 755' left of centerline, 787' MSL. Tree 1894' from DER, 854' left of centerline, 799' MSL. Trees beginning 2088' from DER, 877' left of centerline, up to 821' MSL. Trees beginning 2437' from DER, 971' left of centerline, up to 822' MSL. Tree 2582' from DER, 1056' left of centerline, 843' MSL. Trees beginning 2608' from DER, 543' left of centerline, up to 848' MSL. Tree 3977' from DER, 480' left of centerline, 856' MSL.
- Rwy 18C: Airfield light 11' from DER, 84' left of centerline, 4' AGL/695' MSL. Tree 555' from DER, 564' left of centerline, 711' MSL. Tree 1059' from DER, 762' right of centerline, 729' MSL. Trees beginning 1183' from DER, 608' left of centerline, up to 746' MSL. Trees beginning 1478' from DER, 276' left of centerline, up to 757' MSL. Tree 2035' from DER, 1025' left of centerline, 764' MSL. Trees beginning 2058' from DER, 182' right of centerline, up to 771' MSL. Tree 2723' from DER, 971' left of centerline, 773' MSL. Trees beginning 3245' from DER, 793' right of centerline, up to 792' MSL. Tree 4249' from DER, 1039' right of centerline, 805' MSL. Tree 5354' from DER, 1810' right of centerline, 831' MSL. Trees beginning 5551' from DER, 1412' right of centerline, up to 120' AGL/848' MSL.
- Rwy 18L: Airfield light 10' from DER, on centerline, 3' AGL/726' MSL. Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL. Tower and tree beginning 981' from DER, 689' right of centerline, up to 765' MSL. Tree 1235' from DER, 795' right of centerline, 767' MSL. Trees beginning 1457' from DER, 703' right of centerline, up to 777' MSL. Tree 2248' from DER, 815' right of centerline, 783' MSL. Tower 4408' from DER, 1505' left of centerline, 160' AGL/849' MSL.
- Rwy 18R: Airfield light 10' from DER, 4' left of centerline, 3' AGL/746' MSL. Ground 145' from DER, 522' left of centerline, 748' MSL.
- Rwy 23: MALSR 1' from DER, on centerline, 706' MSL. Control box 1' from DER, 136' right of centerline, 4' AGL/708' MSL. Tree 1270' from DER, 772' right of centerline, 742' MSL. Tree 1310' from DER, 771' right of centerline, 753' MSL. Tree 1477' from DER, 702' right of centerline, 757' MSL. Trees beginning 1573' from DER, 654' right of centerline, up to 758' MSL. Trees beginning 1728' from DER, 541' right of centerline, up to 762' MSL. Trees beginning 1814' from DER, 597' right of centerline, up to 775' MSL. Tree 1844' from DER, 805' right of centerline, 776' MSL. Trees beginning 1944' from DER, 697' right of centerline, up to 792' MSL. Trees beginning 2242' from DER, 361' right of centerline, up to 811' MSL.
- Rwy 36C: Airfield light 4' from DER, 11' left of centerline, 1' AGL/743' MSL. Trees beginning 1246' from DER, 598' right of centerline, up to 822' MSL. Trees beginning 1937' from DER, 446' right of centerline, up to 823' MSL. Trees beginning 2045' from DER, 237' right of centerline, up to 827' MSL.
- Rwy 36L: Airfield light 9' from DER, 3' left of centerline, 2' AGL/745' MSL. Tree 1355' from DER, 544' left of centerline, 786' MSL.
- Rwy 36R: Airport sign 19' from DER, 289' right of centerline, 6' AGL/747' MSL. Trees beginning 470' from DER, 474' right of centerline, up to 767' MSL. Tree and railroad, beginning 640' from DER, 93' right of centerline, up to 775' MSL. Light pole and tree beginning 837' from DER, 500' right of centerline, up to 777' MSL. Tree 943' from DER, 650' left of centerline, 771' MSL. Pole 1004' from DER, 739' left of centerline, 774' MSL. Trees beginning 1058' from DER, 346' right of centerline, up to 779' MSL. Pole 1191' from DER, 769' left of centerline, 778' MSL. Tree 1279' from DER, 625' right of centerline, 780' MSL. Tree 1295' from DER, 585' left of centerline, 782' MSL. Tree 1396' from DER, 646' right of centerline, 784' MSL. Trees beginning 1475' from DER, 1' left of centerline, up to 805' MSL. Tree 1612' from DER, 732' right of centerline, 787' MSL. Tree and pole beginning 1652' from DER, 718' right of centerline, up to 809' MSL. Trees beginning 1725' from DER, 557' right of centerline, up to 816' MSL. Trees beginning 1874' from DER, on centerline, up to 820' MSL. Tree 2053' from DER, 90' left of centerline, 59' AGL/807' MSL. Trees beginning 2070' from DER, 41' left of centerline, up to 72' AGL/815' MSL. Trees beginning 2132' from DER, 324' left of centerline, up to 823' MSL. Tree 2457' from DER, 919' left of centerline, 830' MSL. Tower 3685' from DER, 1160' right of centerline, 70' AGL/844' MSL. Tree 3737' from DER, 392' left of centerline, 91' AGL/843' MSL. Tree 3756' from DER, 530' right of centerline, 846' MSL. Trees beginning 3759' from DER, 433' left of centerline, up to 851' MSL. Trees beginning 3774' from DER, 578' right of centerline, up to 852' MSL. Trees beginning 3803' from DER, 171' left of centerline, up to 863' MSL.

ATIS DEP 132.1
CLNC DEL 127.15 348.6
GND CON 121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)

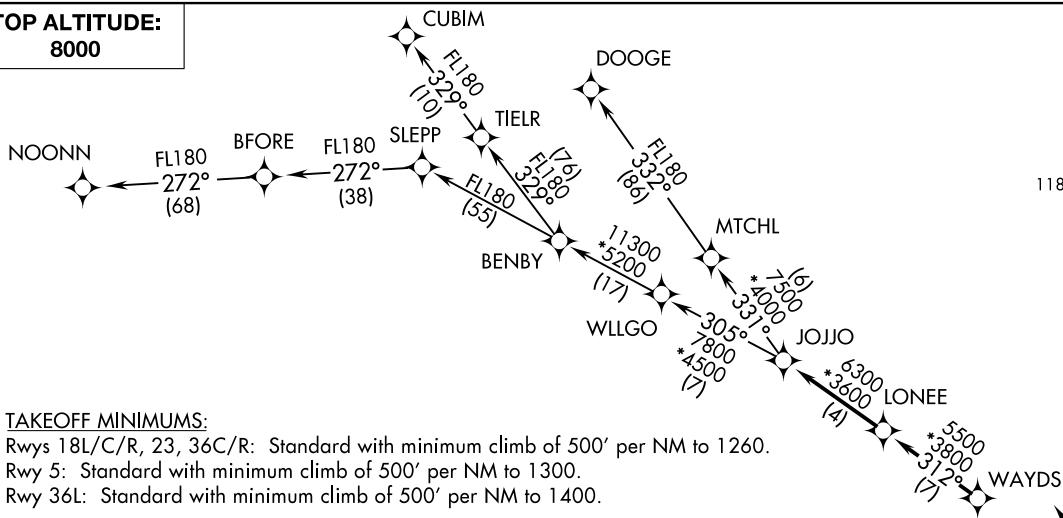
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)

126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)

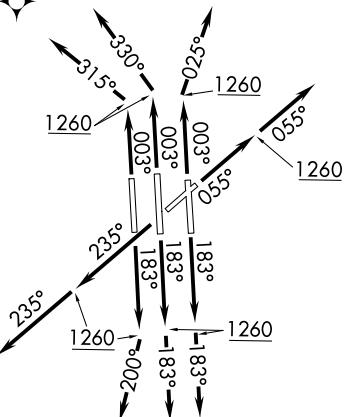
CHARLOTTE DEP CON 120.5 257.2

JOJO ONE DEPARTURE (RNAV) (JOJO1.JOJO) 15344

TOP ALTITUDE:
8000



N



(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(KWEEN1.KWEEN) 16203

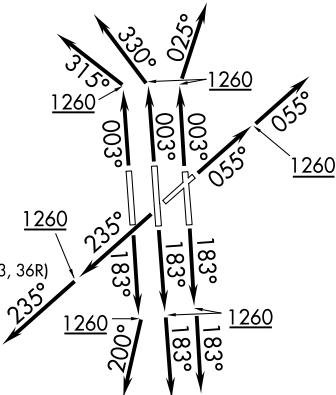
SL-78 (FAA)

KWEEN ONE DEPARTURE (RNAV)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
 132.1
 CLNC DEL
 127.15 348.6
 GND CON
 121.8 348.6 (180°-359°)
 121.9 348.6 (360°-179°)
CHARLOTTE TOWER
 118.1 257.8 (Rwy 18L-36R, 5-23)
 126.4 257.8 (Rwy 18C-36C)
 133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON
 120.5 257.2 (Rwys 36C, 36L)
 124.0 307.8 (Rwys 5, 18C, 18L, 18R)

**TOP ALTITUDE:
8000**



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graph TD
    HMMPY((HMMPY  
5500  
2300  
181°  
(7))) --> KWEEN((KWEEN  
11100  
1900  
183°  
(28)))
    KWEEN --> UNJAM((UNJAM  
FL180  
183°  
(43)))
    UNJAM --> FL180((FL180))
    FL180 --> TASTY((TASTY))
  
```

- NOTE: For Turbojets only.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: If unable to accept climb rates, advise ATC on initial contact.
- NOTE: Accelerate to 250K, if unable, advise ATC.
- NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable, advise ATC.
- NOTE: Transponder code will be issued via PDC or Charlotte CLNC DEL.

TAKEOFF MINIMUMS

Rwys 18L/C/R, 23, 36C/R: Standard with minimum climb of 500' per NM to 1260.

Rwy 5: Standard with minimum climb of 500' per NM to 1300.

Rwy 36L: Standard with minimum climb of 500' per NM to 1400.

(NOTES ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

KWEEN ONE DEPARTURE (RNAV) (KWEEN1.KWEEN) 21JUL16

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)

▼

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055° or as assigned by ATC, Thence. . . .

TAKEOFF RUNWAY 18C: Climb heading 183° until passing CLT VOR/DME 1.6 DME, then turn right heading 200°, Thence. . . .

TAKEOFF RUNWAY 18L: Climb heading 183°, Thence. . . .

TAKEOFF RUNWAY 18R: Climbing right turn heading 200°, Thence. . . .

TAKEOFF RUNWAY 23: Climb heading 235°, Thence. . . .

TAKEOFF RUNWAY 36C: Climbing left turn heading 330°, Thence. . . .

TAKEOFF RUNWAY 36L: Climbing left turn heading 315°, Thence. . . .

TAKEOFF RUNWAY 36R: Climbing right turn heading 025°, Thence. . . .

. . . . expect RADAR vectors to intercept filed/assigned transition or enroute fix/navaid. Maintain 8000. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

BUCKL TRANSITION (CLT2.BUCKL): From over CLT VOR/DME to BUCKL.

GANTS TRANSITION (CLT2.GANTS): From over CLT VOR/DME to GANTS.

HARAY TRANSITION (CLT2.HARAY): From over CLT VOR/DME to HARAY.

LILLS TRANSITION (CLT2.LILLS): From over CLT VOR/DME to LILLS.

PITTY TRANSITION (CLT2.PITTY): From over CLT VOR/DME to PITTY.

RUNIE TRANSITION (CLT2.RUNIE): From over CLT VOR/DME to RUNIE.

TAKEOFF OBSTACLE NOTES:

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline,
up to 36' AGL/795' MSL. Tower and trees beginning 3686' from DER, 530' right of
centerline, up to 93' AGL/852' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOF^NRUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAYS 18C/L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to GINNN, thence

TAKEOF^NRUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to GINNN, thence

. . . . on track 255° to ESTRR, then on IPTAY transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

IPTAY TRANSITION (ESTRR1.IPTAY):**TAKEOF^NOBSTACLE NOTES:**

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.

Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.

Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline,

up to 36' AGL/795' MSL.

Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.

HORNET EIGHT DEPARTURECHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA**DEPARTURE ROUTE DESCRIPTION**TAKEOFF RUNWAY 5: Climb heading 055°, thenceTAKEOFF RUNWAY 18R: Climbing right turn heading 200°, thenceTAKEOFF RUNWAY 18C: Climb heading 183° until passing CLT VOR/DME 1.6 DME, then turn right heading 200°, thenceTAKEOFF RUNWAY 18L: Climb heading 183°, thenceTAKEOFF RUNWAY 23: Climb heading 235°, thenceTAKEOFF RUNWAY 36L: Climbing left turn heading 315°, thenceTAKEOFF RUNWAY 36C: Climbing left turn heading 330°, thenceTAKEOFF RUNWAY 36R: Climbing right turn heading 025°, thence

. . . . expect RADAR vectors to intercept filed/assigned transition or enroute fix/navaid. Maintain 8000, expect filed altitude/flight level 10 minutes after departure.

JOTTA TRANSITION (HOR8.JOTTA): From over CLT VOR/DME on CLT R-011 to JOTTA.

MERIL TRANSITION (HOR8.MERIL): From over CLT VOR/DME on CLT R-076 to MERIL.

NALEY TRANSITION (HOR8.NALEY): From over CLT VOR/DME on CLT R-011 to NALEY.

TAKEOFF OBSTACLE NOTES

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18L: Tower and pole beginning 981' from DER, 708' left of centerline, up to 160' AGL/850' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 23: Trees beginning 3899' from DER, 216' left of centerline, up to 99' AGL/818' MSL.
Trees beginning 1491' from DER, 603' right of centerline, up to 74' AGL/823' MSL.

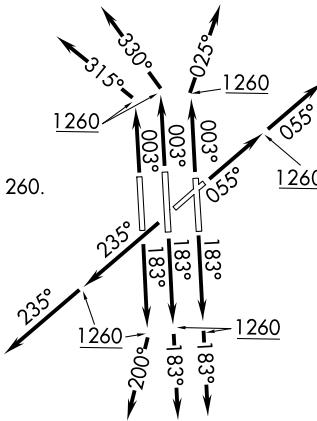
Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Pole and trees beginning 713' from DER, 416' left of centerline, up to 94' AGL/853' MSL.
Railroad, antenna, poles and trees beginning 471' from DER, 93' right of centerline, up to 93' AGL/852' MSL.

ATIS DEP 132.1
CLNC DEL 127.15 348.6
GND CON 121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER 118.1 257.8 (Rwys 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON 120.5 257.2

1260 023°
1260 003°
1260 055°
1260 183°
1260 183°
1260 183°
1260 183°
1260 200°
1260 235°
1260 315°
1260 330°

Z



- NOTE: For Turbojets only.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV 1.
 NOTE: RADAR required.
 NOTE: If unable to accept climb rates, advise ATC on initial contact.
 NOTE: Accelerate to 250K, if unable advise ATC.
 NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable advise ATC.

ESTRR ONE DEPARTURE (RNAV) (ESTRR1,ESTRR) 15344

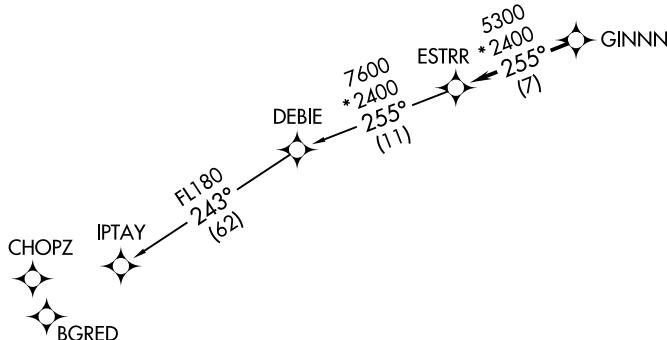
TOP ALTITUDE:
8000

TAKEOFF MINIMUMS:

Rwys 18C/L/R, 23, 36C/R: Standard with minimum climb of 500' per NM to 1260.

Rwy 5: Standard with minimum climb of 500' per NM to 1300.

Rwy 36L: Standard with minimum climb of 500' per NM to 1400.



(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKOFF RUNWAY 5: Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 18C/L: Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 18R: Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 23: Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 36C: Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 36L: Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

TAKOFF RUNWAY 36R: Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to JDEAN, thence

. . . . on track 022° to KRITR, then on assigned transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

FILDS TRANSITION (KRITR2.FILDS)

SMIAM TRANSITION (KRITR2.SMIAM)

(NOTES CONTINUED ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKEOF**RUNWAY 5:** Climb heading 055° to 1260, then on heading 055° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAYS 18L/C:** Climb heading 183° to 1260, then on heading 183° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAY 18R:** Climb heading 183° to 1260, then on heading 200° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAY 23:** Climb heading 235° to 1260, then on heading 235° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAY 36C:** Climb heading 003° to 1260, then on heading 330° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAY 36L:** Climb heading 003° to 1260, then on heading 315° or as assigned by ATC, expect RADAR vectors to MESHY, thence

TAKEOF**RUNWAY 36R:** Climb heading 003° to 1260, then on heading 025° or as assigned by ATC, expect RADAR vectors to MESHY, thence

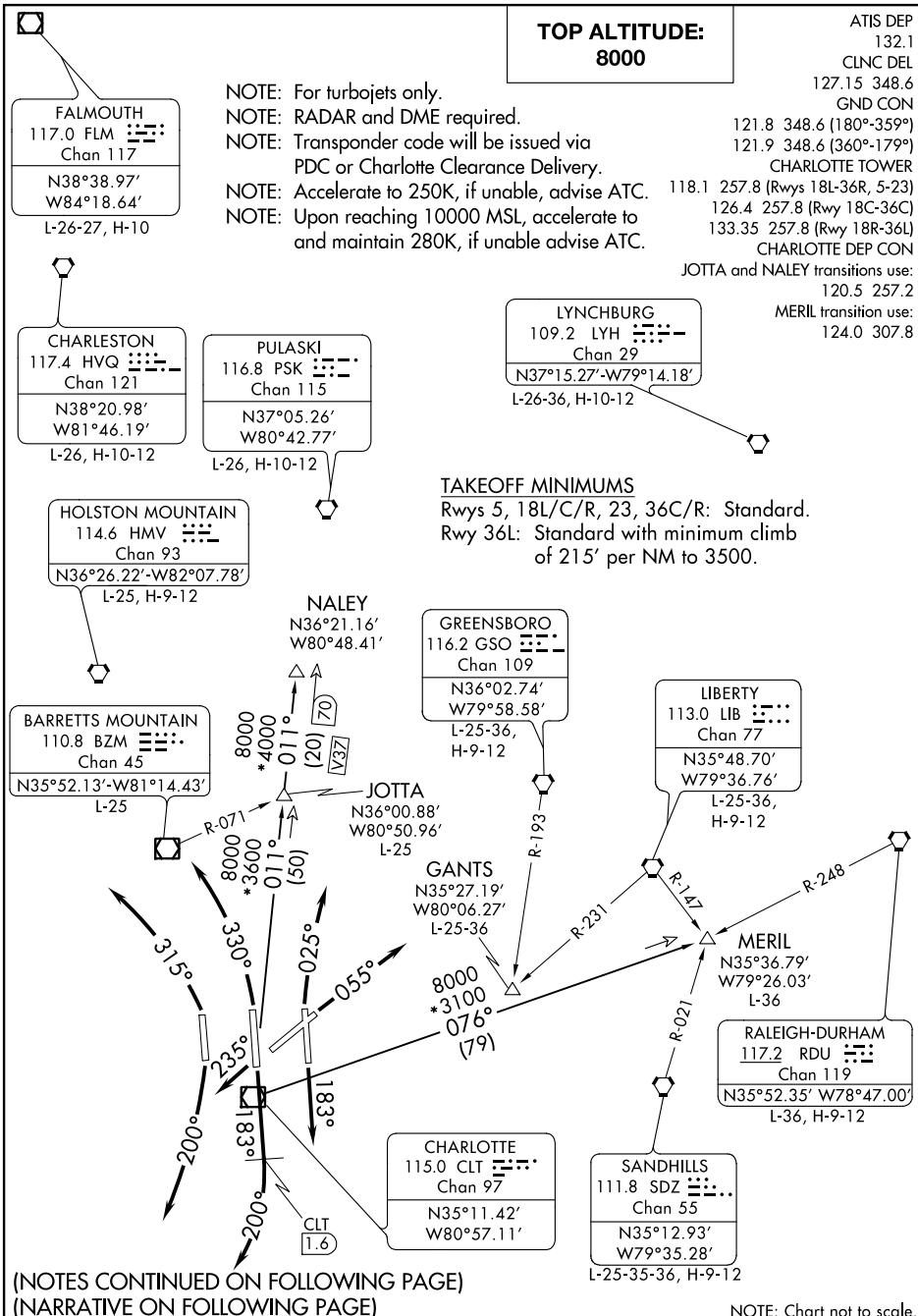
. . . . on depicted route to BARMY, then on assigned transition. Maintain 8000. Expect clearance to filed altitude within 10 minutes after departure.

NUTZE TRANSITION (BARMY1.NUTZE)**RALEIGH/DURHAM TRANSITION (BARMY1.RDU)****TAR RIVER TRANSITION (BARMY1.TYI)**

TAKEOFF OBSTACLE NOTES

- Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.
- Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.
- Rwy 18L: Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.
Tower 4408' from DER, 1505' left of centerline, 160' AGL/850' MSL.
- Rwy 23: Trees 2242' from DER, 1097' right of centerline, up to 92' AGL/811' MSL.
- Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.
- Rwy 36R: Trees beginning 1476' from DER, 741' left of centerline, up to 92' AGL/851' MSL.
Railroad, pole, and trees beginning 471' from DER, 93' right of centerline, up to 36' AGL/795' MSL. Tower and trees beginning 3686' from DER, 530' right of centerline, up to 93' AGL/852' MSL.

HORNET EIGHT DEPARTURE

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 055°, thence

TAKEOFF RWY 18R: Climbing right turn heading 200°, thence

TAKEOFF RWY 18C: Climb heading 183° until passing CLT VOR/DME
1.6 DME, then turn right heading 200°, thence

TAKEOFF RWY 18L: Climb heading 183°, thence

TAKEOFF RWY 23: Climb heading 235°, thence

TAKEOFF RWY 36L: Climbing left turn heading 315°, thence

TAKEOFF RWY 36C: Climbing left turn heading 330°, thence

TAKEOFF RWY 36R: Climbing right turn heading 025°, thence

. . . . expect RADAR vectors to intercept filed/assigned transition or enroute fix/navaid. Maintain 8000, expect filed altitude/flight level 10 minutes after departure.

DEBIE TRANSITION (BOB7.DEBIE): From over CLT VOR/DME on CLT R-255 to DEBIE.

HARAY TRANSITION (BOB7.HARAY): From over CLT VOR/DME on CLT R-270 to HARAY.

ZAVER TRANSITION (BOB7.ZAVER): From over CLT VOR/DME on CLT R-270 to ZAVER.

TAKEOFF OBSTACLE NOTES:

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18L: Tower and pole beginning 981' from DER, 708' left of centerline, up to 160' AGL/850' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 23: Trees beginning 3899' from DER, 216' left of centerline, up to 99' AGL/818' MSL.
Trees beginning 1491' from DER, 603' right of centerline, up to 74' AGL/823' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Pole and trees beginning 713' from DER, 416' left of centerline, up to 94' AGL/853' MSL.
Railroad, antenna, poles and trees beginning 471' from DER, 93' right of centerline,
up to 93' AGL/852' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 055°, thence. . . .

TAKEOFF RUNWAY 18R: Climbing right turn heading 200°, thence. . . .

TAKEOFF RUNWAY 18C: Climb heading 183° until passing CLT VOR/DME 1.6 DME, then turn right heading 200°, thence. . . .

TAKEOFF RUNWAY 18L: Climb heading 183°, thence. . . .

TAKEOFF RUNWAY 23: Climb heading 235°, thence. . . .

TAKEOFF RUNWAY 36L: Climbing left turn heading 315°, thence. . . .

TAKEOFF RUNWAY 36C: Climbing left turn heading 330°, thence. . . .

TAKEOFF RUNWAY 36R: Climbing right turn heading 025°, thence. . . .

. . . . expect RADAR vectors to intercept filed/assigned transition or enroute fix/navaid. Maintain 8000, expect filed altitude/flight level 10 minutes after departure.

ANDYS TRANSITION (PAN3.ANDYS): From over CLT VOR/DME on CLT R-196 to ANDYS.

COLUMBIA TRANSITION (PAN3.CAE): From over CLT VOR/DME on CLT R-180 to BUCKL, then on CAE R-014 to CAE VORTAC.

LILLS TRANSITION (PAN3.LILLS): From over CLT VOR/DME on CLT R-112 to LILLS.

TAYLOR TRANSITION (PAN3.TAY): From over CLT VOR/DME on CLT R-196 to TREAL, then on CAE R-205 to DUNKN, then on TAY R-022 to TAY VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 5: Trees beginning 1031' from DER, 480' left of centerline, up to 127' AGL/856' MSL.

Rwy 18L: Tower and pole beginning 981' from DER, 708' left of centerline, up to 160' AGL/850' MSL.
Trees beginning 1235' from DER, 707' right of centerline, up to 88' AGL/767' MSL.

Rwy 18C: Trees beginning 1688' from DER, 735' left of centerline, up to 108' AGL/787' MSL.
Trees beginning 3251' from DER, 995' right of centerline, up to 102' AGL/841' MSL.

Rwy 23: Trees beginning 3899' from DER, 216' left of centerline, up to 99' AGL/818' MSL.
Trees beginning 1491' from DER, 603' right of centerline, up to 74' AGL/823' MSL.

Rwy 36C: Trees beginning 1937' from DER, 725' left of centerline, up to 54' AGL/823' MSL.
Trees beginning 1420' from DER, 309' right of centerline, up to 114' AGL/823' MSL.

Rwy 36R: Pole and trees beginning 713' from DER, 416' left of centerline, up to 94' AGL/853' MSL.
Railroad, antenna, poles and trees beginning 471' from DER, 93' right of centerline, up to 93' AGL/852' MSL.

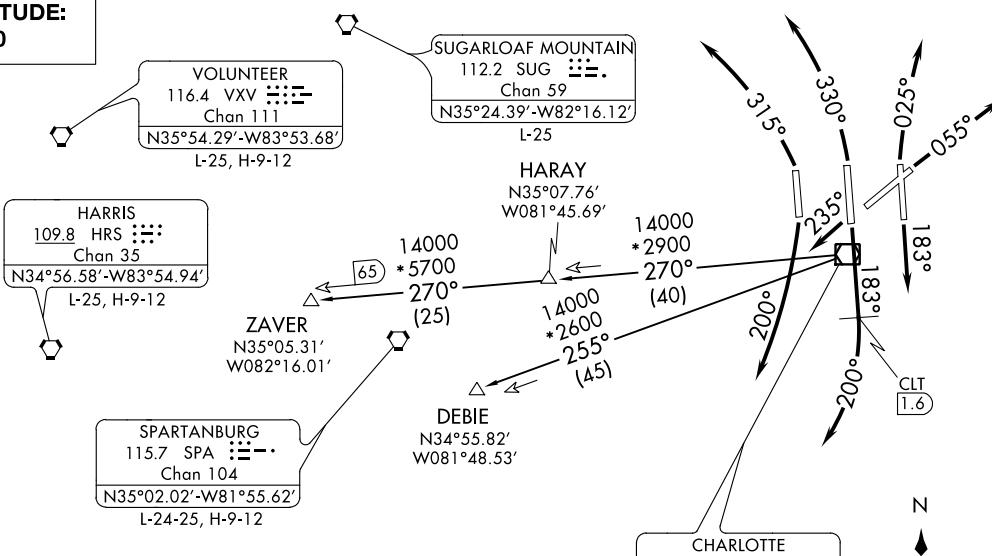
(BOBZ.BOB) 16259
BOBCAT SEVEN DEPARTURE

SE-2, 10 NOV 2016 to 08 DEC 2016

**BOBCAT SEVEN DEPARTURE
(BOB7.BOB)**
15SEP16

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180°-359°)
121.9 348.6 (360°-179°)
CHARLOTTE TOWER
118.1 257.8 (Rwy 18L-36R, 5-23)
126.4 257.8 (Rwy 18C-36C)
133.35 257.8 (Rwy 18R-36L)
CHARLOTTE DEP CON
120.5 257.2

TOP ALTITUDE: 8000



- NOTE: For turbojets only.
NOTE: RADAR and DME required.
NOTE: Transponder code will be issued via PDC or Charlotte Clearance Delivery.
NOTE: Accelerate to 250K, if unable, advise ATC.
NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K, if unable advise ATC.

NOTE: Chart not to scale.

TAKEOFF MINIMUMS:

Rwys 5, 18L/C/R, 23, 36C/R: Standard.
Rwy 36L: Standard with minimum climb of 215' per NM to 3500'.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)

(BEAVY1,BEAVY) 16203

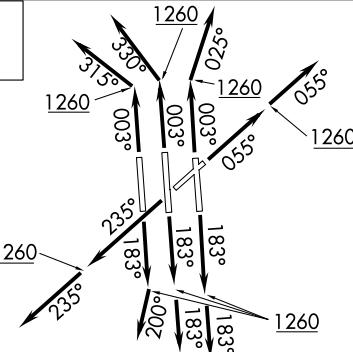
BEAVY ONE DEPARTURE (RNAV)

SL-78 (FAA)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

ATIS DEP
132.1
CLNC DEL
127.15 348.6
GND CON
121.8 348.6 (180)
121.9 348.6 (360)
CHARLOTTE TOW
118.1 257.8 (Rwy 18)
126.4 257.8 (Rwy 36)
133.35 257.8 (Rwy 18)
CHARLOTTE DEP C
120.5 257.2 (Rwy 18)
124.0 307.8 (Rwy 36)

TOP ALTITUDE:



NOTE: For Turbojets only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

NOTE: RADAR required

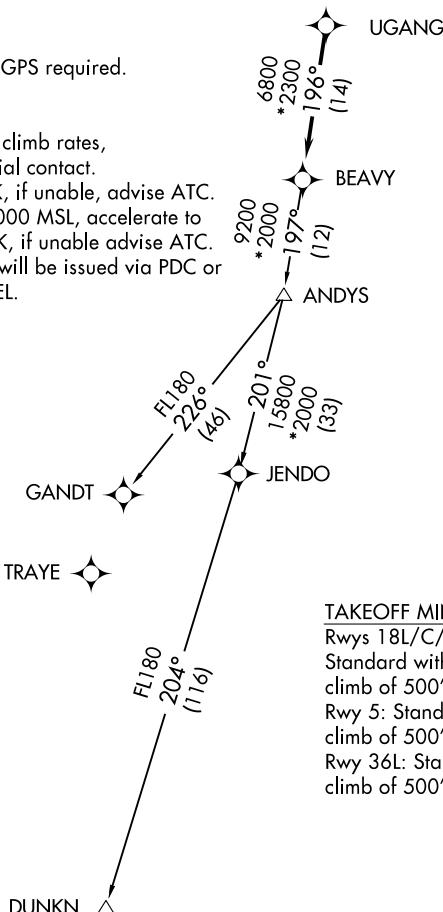
**NOTE: If unable to accept climb rates,
advise ATC on initial contact**

NOTE: Accelerate to 250K if unable advise ATC

NOTE: Upon reaching 10000 MSL, accelerate to
and maintain 280K, if unable advise ATC

NOTE: Transponder code will be issued via PDC or Charlotte CINCP DEI

Charlotte CLINC DEL.



TAKEOFF MINIMUMS

Rwys 18L/C/R, 23, 36C/R:

Standard with minimum

climb of 500' per NM to 1260.
Rwy 5: Standard with minimum

Rwy 3: Standard with minimum climb of 500' per NM to 1300.
Rwy 36L: Standard with minimum

Rwy 30L. Standard with minimum climb of 500' per NM to 1400.

(NARRATIVE ON FOLLOWING PAGE)

(NOTES CONTINUED ON FOLLOWING PAGE)

BEAVY ONE DEPARTURE (RNAV) (BEAVY1 BEAVY) 21JUL16

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INT'L (CLT)

KWEEN ONE DEPARTURE (RNAV)

CHARLOTTE/DOUGLAS INTL (CLT)
CHARLOTTE, NORTH CAROLINA

(NOTES CONTINUED)

TAKEOFF OBSTACLE NOTES

- Rwy 5: Tree 810' from DER, 677' right of centerline, 768' MSL. Tree 1031' from DER, 665' left of centerline, 773' MSL. Tree 1050' from DER, 755' left of centerline, 787' MSL. Tree 1894' from DER, 854' left of centerline, 799' MSL. Trees beginning 2088' from DER, 877' left of centerline, up to 821' MSL. Trees beginning 2437' from DER, 971' left of centerline, up to 822' MSL. Tree 2582' from DER, 1056' left of centerline, 843' MSL. Trees beginning 2608' from DER, 543' left of centerline, up to 848' MSL. Tree 3977' from DER, 480' left of centerline, 856' MSL.
- Rwy 18C: Airfield light 11' from DER, 84' left of centerline, 4' AGL/695' MSL. Tree 555' from DER, 564' left of centerline, 711' MSL. Tree 1059' from DER, 762' right of centerline, 729' MSL. Trees beginning 1183' from DER, 608' left of centerline, up to 746' MSL. Trees beginning 1478' from DER, 276' left of centerline, up to 757' MSL. Tree 2035' from DER, 1025' left of centerline, 764' MSL. Trees beginning 2058' from DER, 182' right of centerline, up to 771' MSL. Tree 2723' from DER, 971' left of centerline, 773' MSL. Trees beginning 3245' from DER, 793' right of centerline, up to 792' MSL. Tree 4249' from DER, 1039' right of centerline, 805' MSL. Tree 5354' from DER, 1810' right of centerline, 831' MSL. Trees beginning 5551' from DER, 1412' right of centerline, up to 120' AGL/848' MSL.
- Rwy 18L: Airfield light 10' from DER, on centerline, 3' AGL/726' MSL. Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL. Tower and tree beginning 981' from DER, 689' right of centerline, up to 765' MSL. Tree 1235' from DER, 795' right of centerline, 767' MSL. Trees beginning 1457' from DER, 703' right of centerline, up to 777' MSL. Tree 2248' from DER, 815' right of centerline, 783' MSL. Tower 4408' from DER, 1505' left of centerline, 160' AGL/849' MSL.
- Rwy 18R: Airfield light 10' from DER, 4' left of centerline, 3' AGL/746' MSL. Ground 145' from DER, 522' left of centerline, 748' MSL.
- Rwy 23: MALSR 1' from DER, on centerline, 706' MSL. Control box 1' from DER, 136' right of centerline, 4' AGL/708' MSL. Tree 1270' from DER, 772' right of centerline, 742' MSL. Tree 1310' from DER, 771' right of centerline, 753' MSL. Tree 1477' from DER, 702' right of centerline, 757' MSL. Trees beginning 1573' from DER, 654' right of centerline, up to 758' MSL. Trees beginning 1728' from DER, 541' right of centerline, up to 762' MSL. Trees beginning 1814' from DER, 597' right of centerline, up to 775' MSL. Tree 1844' from DER, 805' right of centerline, 776' MSL. Trees beginning 1944' from DER, 697' right of centerline, up to 792' MSL. Trees beginning 2242' from DER, 361' right of centerline, up to 811' MSL.
- Rwy 36C: Airfield light 4' from DER, 11' left of centerline, 1' AGL/743' MSL. Trees beginning 1246' from DER, 598' right of centerline, up to 822' MSL. Trees beginning 1937' from DER, 446' right of centerline, up to 823' MSL. Trees beginning 2045' from DER, 237' right of centerline, up to 827' MSL.
- Rwy 36L: Airfield light 9' from DER, 3' left of centerline, 2' AGL/745' MSL. Tree 1355' from DER, 544' left of centerline, 786' MSL.
- Rwy 36R: Airport sign 19' from DER, 289' right of centerline, 6' AGL/747' MSL. Trees beginning 470' from DER, 474' right of centerline, up to 767' MSL. Tree and railroad, beginning 640' from DER, 93' right of centerline, up to 775' MSL. Light pole and tree beginning 837' from DER, 500' right of centerline, up to 777' MSL. Tree 943' from DER, 650' left of centerline, 771' MSL. Pole 1004' from DER, 739' left of centerline, 774' MSL. Trees beginning 1058' from DER, 346' right of centerline, up to 779' MSL. Pole 1191' from DER, 769' left of centerline, 778' MSL. Tree 1279' from DER, 625' right of centerline, 780' MSL. Tree 1295' from DER, 585' left of centerline, 782' MSL. Tree 1396' from DER, 646' right of centerline, 784' MSL. Trees beginning 1475' from DER, 1' left of centerline, up to 805' MSL. Tree 1612' from DER, 732' right of centerline, 787' MSL. Tree and pole beginning 1652' from DER, 718' right of centerline, up to 809' MSL. Trees beginning 1725' from DER, 557' right of centerline, up to 816' MSL. Trees beginning 1874' from DER, on centerline, up to 820' MSL. Tree 2053' from DER, 90' left of centerline, 59' AGL/807' MSL. Trees beginning 2070' from DER, 41' left of centerline, up to 72' AGL/815' MSL. Trees beginning 2132' from DER, 324' left of centerline, up to 823' MSL. Tree 2457' from DER, 919' left of centerline, 830' MSL. Tower 3685' from DER, 1160' right of centerline, 70' AGL/844' MSL. Tree 3737' from DER, 392' left of centerline, 91' AGL/843' MSL. Tree 3756' from DER, 530' right of centerline, 846' MSL. Trees beginning 3759' from DER, 433' left of centerline, up to 851' MSL. Trees beginning 3774' from DER, 578' right of centerline, up to 852' MSL. Trees beginning 3803' from DER, 171' left of centerline, up to 863' MSL.

KWEEN ONE DEPARTURE (RNAV)

(KWEEN1.KWEEN) 21JUL16

CHARLOTTE, NORTH CAROLINA
CHARLOTTE/DOUGLAS INTL (CLT)