

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KLAL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> LAKELAND	<u>STATE</u> FL		
<u>AIRPORT ELEVATION</u> 142	<u>TDZE</u> 132	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 2F	<u>DATED</u> 07/15/2021	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<u>REQUIRED EFFECTIVE DATE</u> 10/07/2021	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 006/30 CW 186/30	NOPT	ARSHW	IF/IAF	2700
2. 186/30 CW 276/30		GUUNR	IAF	2700
3. 276/30 CW 006/30		276/20 CW 006/20		2800
4. 276/20 CW 006/20		BOMRR	IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GUUNR	IAF	ARSHW	NOPT	TF	FB	1.00	185.75	5.84	2700
BOMRR	IAF	ARSHW	NOPT	TF	FB	1.00	005.75	5.84	2700
ARSHW	IF/IAF	FLYEN		TF	FB	1.00	095.75	6.01	1700
FLYEN	FAF	SUNFN/1.67 NM TO RW10		TF	FB	0.30	095.81	3.08	
SUNFN/1.67 NM TO RW10		RW10	MAP	TF	FO	0.30	095.81	1.67	
RW10	MAP	1100 MSL		CA			095.81		1100
1100 MSL		PLUMY		DF	FO	1.00			2000



MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	332	1800	200	332	1800	200	332	1800	200	332	1800	200			
LNAV/VNAV DA	439	2400	307	439	2400	307	439	2400	307	439	2400	307			
LNAV MDA	520	2400	388	520	2400	388	520	3500	388	520	3500	388			
CIRCLING	600	1	458	660	1	518	720	1 1/2	578	840	2 1/4	698			

CHANGES - REASONS

1. INCORPORATES P-NOTAM FDC 1/8910. - ADDED CHANGES FROM ADMT 2F.
2. CHANGED ALL REFERENCES FOR RWY 9 TO RWY 10. - UPDATED AIRNAV DATA.
3. BOMRR TO ARSHW COURSE CHANGED FROM 005.76 TO 005.75. - UPDATED EVALUATION.
4. GUUNR TO ARSHW COURSE CHANGED FROM 185.76 TO 185.75. - UPDATED EVALUATION.
5. ARSHW TO FLYEN COURSE CHANGED FROM 095.76 TO 095.75 AND DISTANCE FROM 6.00 TO 6.01. - UPDATED EVALUATION.
6. CHANGED SUNFN FROM "1.90 NM TO RWY 9" TO "1.67 NM TO RWY 10". - UPDATED EVALUATION.
7. CHANGED DIST FROM FLYEN TO SUNFN FROM 2.86 TO 3.08. - UPDATED EVALUATION.
8. CHANGED DIST FROM SUNFN TO MAP FROM 1.90 TO 1.67. - UPDATED EVALUATION.
9. CHANGED 095.76 TO 095.75 IN LINE 2. - UPDATED EVALUATION.
10. CHANGED LINE 3 FROM 4.76 TO 4.75. - UPDATED EVALUATION.
11. CHANGED SUNFN FROM 1.90 TO 1.67 IN LINE 4. - UPDATED EVALUATION.
12. CHANGED LINE 5 200 HAT FROM 0.47 TO 0.46. - UPDATED EVALUATION.
13. CHANGED TCH FROM 51.8 TO 55.0. - UPDATED EVALUATION.
14. CHANGED STEPDOWN ALTITUDE FROM 780 TO 720 AND REMOVED ASSOCIATED "***". - UPDATED EVALUATION AND "***" NO LONGER REQUIRED.
15. DELETED PLANT CITY ALTIMETER NOTES. - MOVED TO BACK OF -9.
16. CHANGED INOP ALS NOTE FROM "LNAV CATS C/D" TO "LNAV/VNAV ALL CATS". - UPDATED EVALUATION.
17. CHANGED VDP FROM 1.06 TO 0.99 NM. - UPDATED EVALUATION.
18. CHANGED LPV VIS FROM ½ SM TO 1800 RVR. - UPDATED EVALUATION.
19. CHANGED LNAV/VNAV VIS FROM ½ SM TO 2400 RVR. - UPDATED EVALUATION.
20. CHANGED LNAV VIS CATS A/B FROM ½ SM TO 2400 RVR. - UPDATED EVALUATION.
21. CHANGED LNAV VIS CAT C/D FROM 5/8 SM TO 3500 RVR. - UPDATED EVALUATION.
22. CHANGED FAS DATA TCH FROM 51.8 TO 55.0, FPAP LAT/LONG FROM 275921.4800/0820021.2800 TO 275921.4700/0820021.2805 AND CRC REMAINDER FROM A6781A7E TO C92C8590. - NEW AIRNAV DATA AND UPDATED EVALUATION.
23. ADDED CIRCLING ICON. - NEW CIRCLING RADII EVALUATED.



AIRPORT ID
KLAL

PROCEDURE NAME
RNAV (GPS) RWY 10

ORIGINAL/AMENDMENT
3

CITY
LAKELAND

STATE
FL

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: LAL ATCT, TAMPA APP CON, ZMA, AMGR

Digitally signed by

FLIGHT CHECKED BY

PENDING

JOHN BORDY

OFFICE

DATE

Jul 14, 2021

DEVELOPED BY

STEVEN WINNER

Digitally signed by

STEVEN E WINNER

Jul 09, 2021

OFFICE

AJV-A422

DATE

06/25/2021

APPROVED BY

MARLON ROBINSON

Digitally signed by

JOHN BORDY

Jul 14, 2021

OFFICE

AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAL
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	275921.2535N
LTP/FTP LONGITUDE	0820201.9270W
LTP/FTP ELLIPSOIDAL HEIGHT	+00144
FPAP LATITUDE	275921.4700N
FPAP LONGITUDE	0820021.2805W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	DCE73437

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00401
FPAP ORTHOMETRIC HEIGHT	+00401

