

**WARSAW CHOPIN AIRPORT  
RNAV (GNSS)  
RWY 11 (CAT A/B/C/D)**

**EPWA RNAV (GNSS) RWY 11 FROM WA412**

SEQUENCE NUMBER	PATH TERMINATOR	WAYPOINT IDENTIFIER	FLY - OVER	COURSE/TRACK °M (°T)	DISTANCE (NM)	TURN DIRECTION	ALTITUDE	SPEED (kt)	VPA/TCH	NAV SPEC
001	IF	WA412	-	-	-	-	-	-220	-	RNP APCH
002	TF	WA411	-	109 (114.28)	4.00	-	+3800 ft	-	-	RNP APCH
003	TF	GOSIT	-	109 (114.27)	2.58	-	-	-	-	RNP APCH
004	TF	WA409	-	109 (114.34)	1.50	-	+3000 ft	-	-	RNP APCH
005	TF	RW11	Y	110 (114.52)	8.12	-	@412 ft	-	-3.0/50	RNP APCH
006	CF	OLBIL	Y	110 (114.52)	5.49	-	-	-220	-	RNP APCH
007	DF	EVDEX	-	-	-	R	+4000 ft	-220	-	RNP APCH

WAYPOINT IDENTIFIER	COORDINATES	
EVDEX (MAF)	51°56'46.5"	020°26'40.6"
GOSIT	52°14'15.7"	020°42'33.9"
OLBIL (MATF)	52°08'00.5"	021°04'54.6"
RW11 (MAPt)	52°10'17.3"	020°56'48.2"
WA409 (FAP/FAF)	52°13'38.6"	020°44'47.3"
WA411 (IF)	52°15'19.3"	020°38'44.3"
WA412 (IAF)	52°16'57.7"	020°32'48.0"

## SBAS FAS Data Block Coding Data

EPWA RNAV (GNSS) RWY 11	
Input Data	
Parameters	Values
Operation Type:	0
SBAS Provider:	1
Airport Identifier:	EPWA
Runway:	11
Runway Direction:	0
Approach Performance Designator:	0
Route Indicator:	
Reference Path Data Selector:	0
Reference Path Identifier:	E11A
LTP/FTP Latitude:	521017.3100N
LTP/FTP Longitude:	0205648.1700E
LTP/FTP Ellipsoidal Height (metres):	141.7
FPAP Latitude:	520942.2965N
Delta FPAP Latitude (seconds):	-35.0135
FPAP Longitude:	0205852.9025E
Delta FPAP Longitude (seconds):	124.7325
Threshold Crossing Height:	50.0
TCH Units Selector:	0
Glidepath Angle (degrees):	3.00
Course Width (metres):	105.00
Length Offset (metres):	304
HAL (metres):	40.0
VAL (metres):	35.0

Output Data	
Data Block	10 01 17 10 05 0B 00 00 01 31
	31 05 BC BA 63 16 54 46 FD 08
	89 19 75 EE FE 79 CE 03 F4 01
	2C 01 64 26 C8 AF 68 BE 41 B1
Calculated CRC Value	68BE41B1

Required Additional Data (not CRC wrapped)	
ICAO Code	WA
LTP/FTP Orthometric Height (metres)	110.2
FPAP Orthometric Height (metres)	110.3