

**WARSAW CHOPIN AIRPORT  
RNAV (GNSS)  
RWY 29 (CAT A/B/C/D)**

**EPWA RNAV (GNSS) RWY 29 FROM WA731**

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	WA731	-	-	-	-	-	-220	-	RNP APCH
002	TF	WA729	-	290 (294.78)	4.00	-	+3800 ft	-	-	RNP APCH
003	TF	TEBRU	-	290 (294.71)	2.60	-	-	-	-	RNP APCH
004	TF	WA728	-	290 (294.63)	1.50	-	+3000 ft	-	-	RNP APCH
005	TF	RW29	Y	290 (294.55)	7.03	-	@396 ft	-	-3.5/50	RNP APCH
006	CF	WA412	Y	289 (294.20)	17.45	-	+3000 ft	-	-	RNP APCH

WAYPOINT IDENTIFIER	COORDINATES	
RW29 (MAPt)	52°09'46.3"	020°58'38.5"
TEBRU	52°06'13.5"	021°11'13.2"
WA728 (FAP/FAF)	52°06'51.0"	021°09'00.5"
WA729 (IF)	52°05'08.4"	021°15'03.1"
WA731 (IAF)	52°03'27.8"	021°20'56.1"
WA412 (MAF)	52°16'57.7"	020°32'48.0"

## SBAS FAS Data Block Coding Data

EPWA RNAV (GNSS) RWY 29	
Input Data	
Parameters	Values
Operation Type:	0
SBAS Provider:	1
Airport Identifier:	EPWA
Runway:	29
Runway Direction:	0
Approach Performance Designator:	0
Route Indicator:	
Reference Path Data Selector:	0
Reference Path Identifier:	E29A
LTP/FTP Latitude:	520946.3300N
LTP/FTP Longitude:	0205838.5400E
LTP/FTP Ellipsoidal Height (metres):	136.9
FPAP Latitude:	521017.3100N
Delta FPAP Latitude (seconds):	30.9800
FPAP Longitude:	0205648.1700E
Delta FPAP Longitude (seconds):	-110.3700
Threshold Crossing Height:	50.0
TCH Units Selector:	0
Glidepath Angle (degrees):	3.50
Course Width (metres):	105.00
Length Offset (metres):	0
HAL (metres):	40.0
VAL (metres):	35.0

Output Data	
Data Block	10 01 17 10 05 1D 00 00 01 39 32 05 B4 C8 62 16 98 A4 00 09 59 19 08 F2 00 BC A1 FC F4 01 5E 01 64 00 C8 AF F4 FA 3B EA
Calculated CRC Value	F4FA3BEA

Required Additional Data (not CRC wrapped)	
ICAO Code	WA
LTP/FTP Orthometric Height (metres)	105.5
FPAP Orthometric Height (metres)	105.4