

**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 |