

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

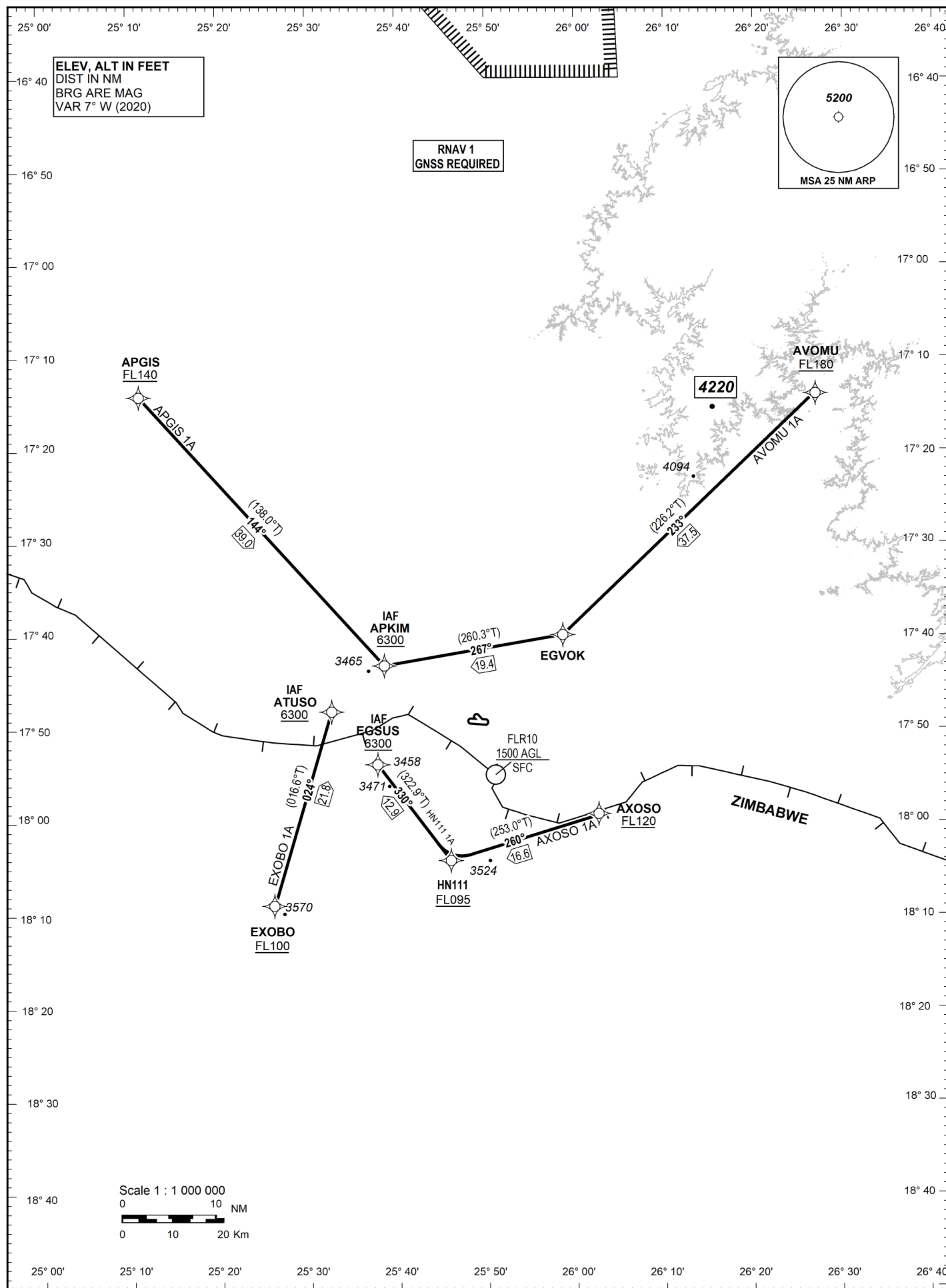
HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)

RNAV STAR RWY 10

TRANSITION ALTITUDE
5000

APP 124.300
TWR 118.100

APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, HN111 1A



STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)
RNAV STAR RWY 10
APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, HN111 1A

TABULAR DESCRIPTION

RNAV STAR RWY 10
APGIS 1A

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	Navigation Specification
010	IF	APGIS	-	-	-	-	-	+FL140	-	-	-	RNAV 1
020	TF	APKIM	-	144 (138.0)	-	39.0	-	+6300	-	-	-	RNAV 1

AVOMU 1A

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	Navigation Specification
010	IF	AVOMU	-	-	-	-	-	+FL180	-	-	-	RNAV 1
020	TF	EGVOK	-	233 (226.2)	-	37.5	-	-	-	-	-	RNAV 1
030	TF	APKIM	-	267 (260.3)	-	19.4	-	+6300	-	-	-	RNAV 1

AXOSO 1A

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	Navigation Specification
010	IF	AXOSO	-	-	-	-	-	+FL120	-	-	-	RNAV 1
020	TF	HN111	-	260 (253.0)	-	16.6	-	+FL095	-	-	-	RNAV 1
030	TF	EGSUS	-	330 (322.9)	-	12.9	-	+6300	-	-	-	RNAV 1

EXOBO 1A

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	Navigation Specification
010	IF	EXOBO	-	-	-	-	-	+FL100	-	-	-	RNAV 1
020	TF	ATUSO	-	024 (016.6)	-	21.8	-	+6300	-	-	-	RNAV 1

HN111 1A

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	Navigation Specification
010	IF	HN111	-	-	-	-	-	+FL095	-	-	-	RNAV 1
020	TF	EGSUS	-	330 (322.9)	-	12.9	-	+6300	-	-	-	RNAV 1

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)
RNAV STAR RWY 10
APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, HN111 1A

WAYPOINT LIST
RNAV STAR RWY 10

WaypointIdentifier	Coordinates	
APGIS	S 17 14 13.0	E 025 11 11.6
APKIM	S 17 43 14.1	E 025 38 31.5
ATUSO	S 17 48 09.8	E 025 32 34.8
AVOMU	S 17 13 58.0	E 026 26 53.0
AXOSO	S 17 59 22.1	E 026 02 33.8
EGSUS	S 17 53 51.6	E 025 37 43.5
EGVOK	S 17 39 57.9	E 025 58 34.5
EXOBO	S 18 09 09.0	E 025 26 02.7
HN111	S 18 04 13.1	E 025 45 54.0

ROUTING

NAME	TEXT
APGIS 1A	From APGIS track 144° to APKIM. MEL/MEA: APGIS AT or ABOVE FL140, APKIM AT or ABOVE 6300'.
AVOMU 1A	From AVOMU track 233° to EGVOK, track 267° to APKIM. MEL/MEA: AVOMU AT or ABOVE FL180, APKIM AT or ABOVE 6300'.
AXOSO 1A	From AXOSO track 260° to HN111, track 330° to EGSUS. MEL/MEA: AXOSO AT or ABOVE FL120, HN111 AT or ABOVE FL095, EGSUS AT or ABOVE 6300'.
EXOBO 1A	From EXOBO track 024° to ATUSO. MEL/MEA: EXOBO AT or ABOVE FL100, ATUSO AT or ABOVE 6300'.
HN111 1A	From HN111 track 330° to EGSUS. MEL/MEA: HN111 AT or ABOVE FL095, EGSUS AT or ABOVE 6300'.

THIS PAGE
INTENTIONALLY
LEFT BLANK

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

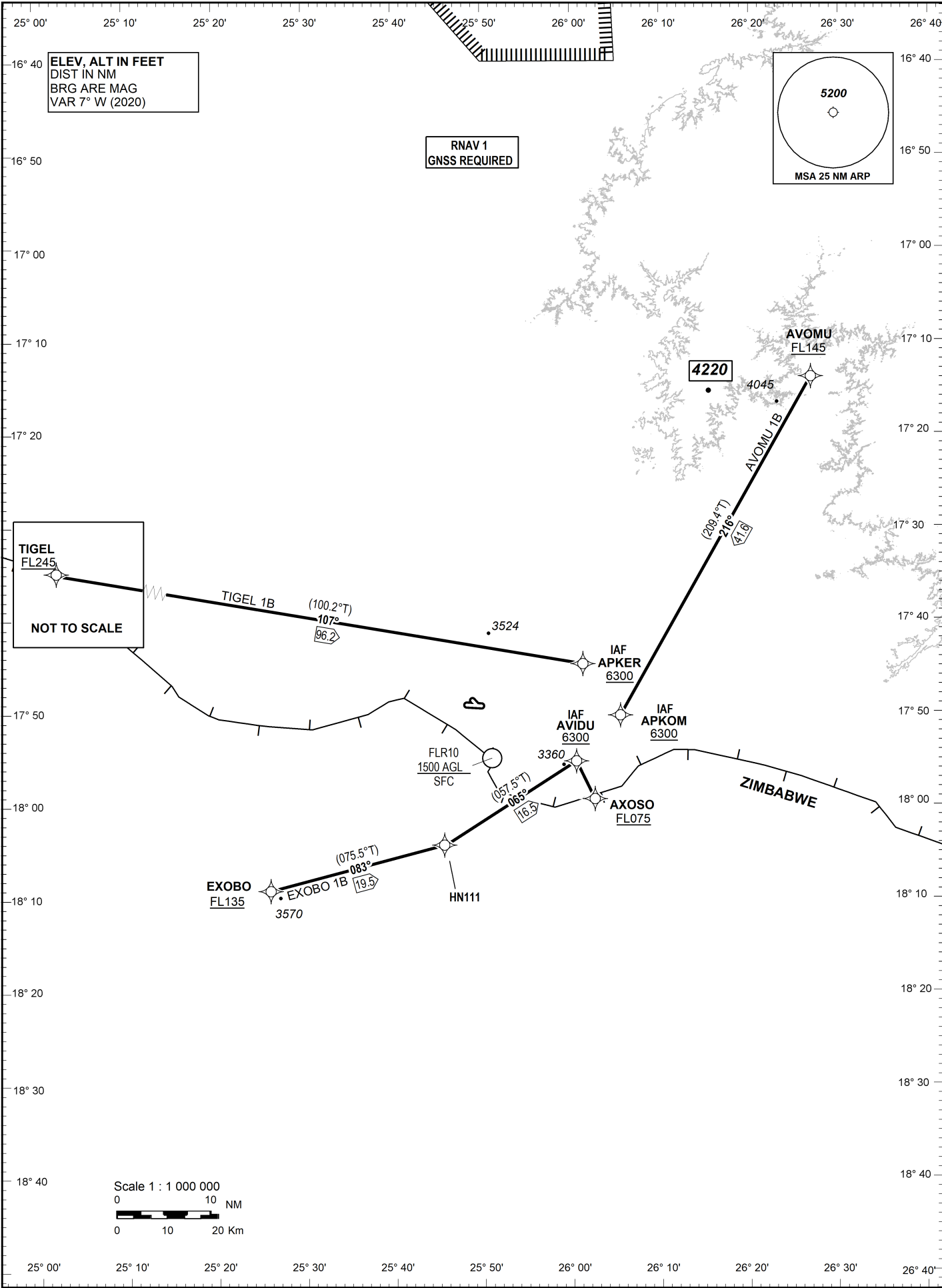
TRANSITION ALTITUDE
5000

APP 124.300
TWR 118.100

HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)

RNAV STAR RWY 28

AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B



STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)
RNAV STAR RWY 28
AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B

TABULAR DESCRIPTION

RNAV STAR RWY 28
AVOMU 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	IF	AVOMU	-	-	-	-	-	+FL145	-	-	-	RNAV 1
020	TF	APKOM	-	216 (209.4)	-	41.6	-	+6300	-	-	-	RNAV 1

AXOSO 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	IF	AXOSO	-	-	-	-	-	+FL075	-	-	-	RNAV 1
020	TF	AVIDU	-	341 (334.0)	-	4.5	-	+6300	-	-	-	RNAV 1

EXOBO 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	IF	EXOBO	-	-	-	-	-	+FL135	-	-	-	RNAV 1
020	TF	HN111	-	083 (075.5)	-	19.5	-	-	-	-	-	RNAV 1
030	TF	AVIDU	-	065 (057.5)	-	16.5	-	+6300	-	-	-	RNAV 1

TIGEL 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	IF	TIGEL	-	-	-	-	-	+FL245	-	-	-	RNAV 1
020	TF	APKER	-	107 (100.2)	-	96.2	-	+6300	-	-	-	RNAV 1

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

HARRY MWAANGA NKUMBULA INTL/Livingstone
(FLHN)
RNAV STAR RWY 28
AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B

WAYPOINT LIST
RNAV STAR RWY 28

WaypointIdentifier	Coordinates	
APKER	S 17 44 50.7	E 026 01 15.2
APKOM	S 17 50 22.7	E 026 05 27.1
AVIDU	S 17 55 18.0	E 026 00 29.5
AVOMU	S 17 13 58.0	E 026 26 53.0
AXOSO	S 17 59 22.1	E 026 02 33.8
EXOBO	S 18 09 09.0	E 025 26 02.7
HN111	S 18 04 13.1	E 025 45 54.0
TIGEL	S 17 28 12.0	E 024 22 00.0

ROUTING

NAME	TEXT
AVOMU 1B	From AVOMU track 216° to APKOM. MEL/MEA: AVOMU AT or ABOVE FL145, APKOM AT or ABOVE 6300'.
AXOSO 1B	From AXOSO track 341° to AVIDU. MEL/MEA: AXOSO AT or ABOVE FL075, AVIDU AT or ABOVE 6300'.
EXOBO 1B	From EXOBO track 083° to HN111, track 065 to to AVIDU. MEL/MEA: EXOBO AT or ABOVE FL075, AVIDU AT or ABOVE 6300'.
TIGEL 1B	From TIGEL track 107° to APKER. MEL/MEA: TIGEL AT or ABOVE FL245, APKER AT or ABOVE 6300'.

THIS PAGE
INTENTIONALLY
LEFT BLANK