B747-400
Dispatch Performance Data

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B747-400 RB211-524G
List of Authorised Airfields

The following airfields are authorised to be used by British Airways Boeing 747-400 RB211-524G aircraft.

List current as of: 07 March 2018

ICAO Code	City/Airfield Name	IATA Code
BGSF	KANGERLUSSUAQ	SFJ
BIKF	KEFLAVIK	KEF
CYEG	EDMONTON INTL	YEG
CYFB	IQALUIT	YFB
CYHM	HAMILTON	YHM
CYHZ	HALIFAX/STANFIELD INTL	YHZ
CYJT	STEPHENVILLE	YJT
CYOW	OTTAWA/MACDONALD-CARTIER INTL	YOW
CYQX	GANDER INTL	YQX
CYUL	MONTREAL/PIERRE ELLIOT TRUDEAU	YUL
CYVR	VANCOUVER INTL	YVR
CYWG	WINNIPEG/J.A.RICHARDSON INTL	YWG
CYYC	CALGARY INTL	YYC
CYYR	GOOSE BAY	YYR
CYYT	ST JOHNS INTL	YYT
CYYZ	TORONTO/LESTER B PEARSON INTL	YYZ
DAAG	ALGER/HOUARI BOUMEDIENE	ALG
DAAT	TAMENGHASSET/AGUENAR-HADJ BEY	TMR
DBBB	COTONOU/CARDINAL B.G.CADJEHOUN	COO
DGAA	ACCRA/KOTOKA INTL	ACC
DIAP	ABIDJAN/FELIX HOUPHOUET-BOIGNY	ABJ
DNAA	ABUJA/NNAMDI AZIKIWE INTL	ABV
DNMM	LAGOS/MURTALA MUHAMMED	LOS
DRRN	NIAMEY/DIORI HAMANI	NIM
DXXX	LOME/GNASSINGBE EYADEMA INTL	LFW
EBBR	BRUSSELS/BRUSSELS NATIONAL	BRU
EDDB	BERLIN/SCHOENEFELD	SXF
EDDF	FRANKFURT/MAIN	FRA

ICAO Code	City/Airfield Name	IATA Code
EDDM	MUNICH	MUC
EFHK	HELSINKI/VANTAA	HEL
EGAA	BELFAST/ALDERGROVE	BFS
EGBB	BIRMINGHAM	BHX
EGCC	MANCHESTER (UK)	MAN
EGFF	CARDIFF	CWL
EGKK	LONDON/GATWICK	LGW
EGLL	LONDON/HEATHROW	LHR
EGNT	NEWCASTLE	NCL
EGNX	DERBY/EAST MIDLANDS	EMA
EGPF	GLASGOW	GLA
EGPH	EDINBURGH	EDI
EGPK	PRESTWICK	PIK
EGSS	LONDON/STANSTED	STN
EHAM	AMSTERDAM/SCHIPHOL	AMS
EIDW	DUBLIN INTL	DUB
EINN	SHANNON	SNN
EKCH	COPENHAGEN/KASTRUP	CPH
EPWA	WARSAW/CHOPIN	WAW
ESSA	STOCKHOLM/ARLANDA	ARN
FABL	BLOEMFONTEIN/BRAM FISCHER INTL	BFN
FACT	CAPE TOWN INTL	CPT
FALE	DURBAN/KING SHAKA INTL	DUR
FAOR	JOHANNESBURG/O R TAMBO INTL	JNB
FAUP	UPINGTON INTL	UTN
FBSK	GABORONE/SIR SERETSE KHAMA INT	GBE
FIMP	MAURITIUS/SIR SEEWOOSAGUR RAMG	MRU
FKKD	DOUALA	DLA
FLKK	LUSAKA/KENNETH KAUNDA INTL	LUN
FLSK	SIMON MWANSA KAPWEPWE INTL	NLA
FMEE	LA REUNION-ROLAND GARROS	RUN
FNLU	LUANDA/4TH OF FEBRUARY	LAD
FOOL	LIBREVILLE/LEON M BA	LBV
FSIA	SEYCHELLES INTL	SEZ
FTTJ	N DJAMENA/HASSAN DJAMOUS	NDJ

ICAO Code	City/Airfield Name	IATA Code
FVHA	HARARE/ROBERT GABRIEL MUGABE	HRE
FWKI	LILONGWE/KAMUZU INTL	LLW
FYWH	WINDHOEK/HOSEA KUTAKO INTL	WDH
GBYD	BANJUL INTL	BJL
GCTS	TENERIFE SOUTH/REINA SOFIA	TFS
GFLL	FREETOWN/LUNGI SIERRA LEONE	FNA
GLRB	MONROVIA/ROBERTS INTL	ROB
GOOY	DAKAR/LEOPOLD SEDAR SENGHOR	DKR
GVAC	SAL/AMILCAR CABRAL INTL	SID
HEBA	ALEXANDRIA/BORG EL ARAB INTL	HBE
HECA	CAIRO INTL	CAI
HEGN	HURGHADA INTL	HRG
HELX	LUXOR INTL	LXR
HESH	SHARM EL SHEIKH INTL	SSH
HKJK	NAIROBI/JOMO KENYATTA INTL	NBO
HKMO	MOMBASA/MOI INTL	MBA
HTDA	DAR ES SALAAM/JULIUS NYERERE	DAR
HTKJ	KILIMANJARO INTL	JRO
HUEN	ENTEBBE INTL	EBB
KAFW	FORT WORTH ALLIANCE	AFW
KATL	ATLANTA/HARTSFIELD-JACKSON INT	ATL
KBDL	WINDSOR LOCKS/BRADLEY INTL	BDL
KBFI	SEATTLE/BOEING FLD/KING CO INT	BFI
KBGR	BANGOR INTL	BGR
KBHM	BIRMINGHAM/SHUTTLESWORTH INTL	BHM
KBOS	BOSTON/GENERAL EDWARD L.LOGAN	BOS
KBWI	BALTIMORE/WASHINGTON INTL TH.M	BWI
KCLE	CLEVELAND-HOPKINS INTL	CLE
KCLT	CHARLOTTE/DOUGLAS INTL	CLT
KCOS	COLORADO SPRINGS MUNI	COS
KDEN	DENVER INTL	DEN
KDFW	DALLAS-FORT WORTH INTL	DFW
KDTW	DETROIT/METROPOLITAN WAYNE CO	DTW
KEWR	NEWARK/LIBERTY INTL	EWR
KFLL	FT LAUDERDALE/HOLLYWOOD INTL	FLL

ICAO Code	City/Airfield Name	IATA Code
KGEG	SPOKANE INTL	GEG
KIAD	WASHINGTON/DULLES INTL	IAD
KIAH	HOUSTON/GEORGE BUSH INTERCONT.	IAH
KJAX	JACKSONVILLE INTL	JAX
KJFK	NEW YORK/JOHN F KENNEDY INTL	JFK
KLAS	LAS VEGAS/MC CARRAN INTL	LAS
KLAX	LOS ANGELES INTL	LAX
KMCO	ORLANDO INTL	MCO
KMEM	MEMPHIS INTL	MEM
KMIA	MIAMI INTL	MIA
KMKE	MILWAUKEE/GENERAL MITCHELL INT	MKE
KMSP	MINNEAPOLIS-ST PAUL INTL	MSP
KMSY	NEW ORLEANS/LOUIS ARMSTRONG IN	MSY
KOAK	OAKLAND/METROPOLI.OAKLAND INTL	OAK
KONT	ONTARIO	ONT
KORD	CHICAGO/O HARE INTL	ORD
KPBI	WEST PALM BEACH/PALM BEACH INT	PBI
KPDX	PORTLAND INTL	PDX
KPHL	PHILADELPHIA INTL	PHL
KPHX	PHOENIX/SKY HARBOR INTL	PHX
KPIT	PITTSBURGH INTL	PIT
KPSM	PORTSMOUTH INTL AT PEASE	PSM
KRDU	RALEIGH-DURHAM INTL	RDU
KRFD	CHICAGO/ROCKFORD INTL	RFD
KSAN	SAN DIEGO INTL	SAN
KSAT	SAN ANTONIO INTL	SAT
KSEA	SEATTLE-TACOMA INTL	SEA
KSFB	ORLANDO SANFORD INTL	SFB
KSFO	SAN FRANCISCO INTL	SFO
KSLC	SALT LAKE CITY INTL	SLC
KSMF	SACRAMENTO INTL	SMF
KSTL	ST LOUIS/LAMBERT-ST LOUIS INTL	STL
KSWF	NEW YORK/STEWART INTL	SWF
KTPA	TAMPA INTL	TPA
KTUS	TUCSON INTL	TUS

ICAO Code	City/Airfield Name	IATA Code
LCLK	LARNAKA INTL	LCA
LEBL	BARCELONA/EL PRAT	BCN
LEMD	MADRID ADOLFO SUAREZ/BARAJAS	MAD
LEPA	PALMA DE MALLORCA	PMI
LETL	TERUEL	TEV
LFMN	NICE/COTE D AZUR	NCE
LFPG	PARIS/CHARLES DE GAULLE	CDG
LGAV	ATHENS/ELEFTHERIOS VENIZELOS	ATH
LGRP	RODOS/DIAGORAS	RHO
LHBP	BUDAPEST LISZT FERENC INTL	BUD
LIRF	ROME/FIUMICINO	FCO
LKPR	PRAGUE/RUZYNE	PRG
LLBG	TEL AVIV/BEN GURION	TLV
LOWW	VIENNA/SCHWECHAT	VIE
LPAZ	SANTA MARIA	SMA
LPLA	LAJES AB	TER
LPPT	LISBON	LIS
LTAC	ANKARA/ESENBOGA INTL	ESB
LTBA	ISTANBUL/ATATURK INTL	IST
MKJP	KINGSTON/NORMAN MANLEY INTL	KIN
MKJS	MONTEGO BAY/SANGSTER INTL	MBJ
MMGL	GUADALAJARA/DON MIGUEL HIDALGO	GDL
MMMD	MERIDA INTL	MID
MMMX	MEXICO CITY/LIC BENITO JUAREZ	MEX
MMUN	CANCUN INTL	CUN
MYNN	NASSAU/LYNDEN PINDLING INTL	NAS
OBBI	BAHRAIN INTL	BAH
OEDF	DAMMAM/KING FAHD INTL	DMM
OEJN	JEDDAH/KING ABDULAZIZ INTL	JED
OERK	RIYADH/KING KHALED INTL	RUH
OIIE	TEHRAN/IMAM KHOMAINI INTL	IKA
OIMM	MASHHAD/SHAHID HASHEMI NEJAD I	MHD
OISS	SHIRAZ/SHAHID DASTGHAIB INTL	SYZ
OITT	TABRIZ INTL	TBZ
OJAI	AMMAN/QUEEN ALIA INTL	AMM

ICAO Code	City/Airfield Name	IATA Code
OKBK	KUWAIT INTL	KWI
OMAA	ABU DHABI INTL	AUH
OMAL	AL AIN INTL	AAN
OMDB	DUBAI INTL	DXB
OMDW	DUBAI/AL MAKTOUM INTL	DWC
OMSJ	SHARJAH INTL	SHJ
OOMS	MUSCAT INTL	MCT
OPKC	KARACHI/JINNAH INTL	KHI
OPLA	LAHORE/ALLAMA IQBAL INTL	LHE
OTHH	DOHA/HAMAD INTL	DOH
RCKH	KAOHSIUNG INTL	KHH
RCTP	TAIPEI/TAOYUAN INTL	TPE
RJAA	TOKYO/NARITA INTL	NRT
RJBB	OSAKA/KANSAI INTL	KIX
RJCC	SAPPORO/NEW CHITOSE	CTS
RJFF	FUKUOKA	FUK
RJGG	CHUBU/CENTRAIR INT	NGO
RJTT	TOKYO INTL/HANEDA	HND
RKPK	BUSAN/GIMHAE INTL	PUS
RKSI	SEOUL/INCHEON INTL	ICN
RPLB	SUBIC BAY INTL	SFS
RPLL	MANILA/NINOY AQUINO INTL	MNL
SACO	CORDOBA/ING ALV TARAVELLA INTL	COR
SAEZ	BUENOS AIRES/EZEIZA INTL MINIS	EZE
SBBR	BRASILIA/PRES JUSCELINO KUBITS	BSB
SBCF	BELO HORIZONTE/TANCREDO NEVES	CNF
SBFZ	FORTALEZA/PINTO MARTINS INTL	FOR
SBGL	RIO DE JANEIRO/GALEAO INTL	GIG
SBGR	SAO PAULO/GUARULHOS G.A.F.M.	GRU
SBKP	CAMPINAS/VIRACOPOS INTL	VCP
SBPA	PORTO ALEGRE/SALGADO FILHO	POA
SBRF	RECIFE/GUARARAPES INTL	REC
SBSV	SALVADOR/DEPUTADO MAGALHAES	SSA
SUMU	MONTEVIDEO/CARRASCO INTL	MVD
SVMI	CARACAS/MAIQUETIA/BOLIVAR INTL	CCS

ICAO Code	City/Airfield Name	IATA Code
TAPA	ST JOHNS/V C BIRD INTL	ANU
TBPB	BARBADOS/GRANTLEY ADAMS INTL	BGI
TFFR	POINTE-A-PITRE/LE RAIZET	PTP
TGPY	ST GEORGES/MAURICE BISHOP INTL	GND
TKPK	ST.KITTS/ROBERT L. BRADSHAW	SKB
TLPL	VIEUX FORT/HEWANORRA INTL	UVF
TTCP	SCARBOROUGH/A.N.R.ROBINSON INT	TAB
TTPP	PORT OF SPAIN/PIARCO INTL	POS
TXKF	BERMUDA ISLAND INTL/L.F.WADE	BDA
UAAA	ALMATY	ALA
UACC	ASTANA/N. NAZARBAYEV INTL	TSE
UAKK	KARAGANDA	KGF
UATT	AKTOBE/AKTOBE	AKX
UBBB	BAKU/HEYDAR ALIYEV	GYD
UCFM	BISHKEK/MANAS	FRU
UEEE	YAKUTSK	YKS
UHHH	KHABAROVSK NOVY	KHV
UIBB	BRATSK	BTK
UIII	IRKUTSK	IKT
UIUU	ULAN-UDE/MUKHINO	UUD
UKBB	KYIV/BORYSPIL	KBP
ULLI	SANKT-PETERBURG/PULKOVO	LED
ULMM	MURMANSK	MMK
UNNT	NOVOSIBIRSK/TOLMACHEVO	OVB
URMM	MINERALNYYE VODY	MRV
UTAA	ASHGABAT	ASB
UTDD	DUSHANBE	DYU
UTSS	SAMARKAND	SKD
UTTT	TASHKENT INTL/ISLAM KARIMOV	TAS
UUDD	MOSCOW/DOMODEDOVO	DME
UUEE	MOSCOW/SHEREMETYEVO	SVO
UWWW	SAMARA/KURUMOCH	KUF
VAAH	AHMEDABAD	AMD
VABB	MUMBAI/CHHATRAPATI SHIVAJI	BOM
VANP	NAGPUR/DR BABA SAHEB AMBEDKAR	NAG

ICAO Code	City/Airfield Name	IATA Code
VCBI	KATUNAYAKE/BAN. INT AP COLOMBO	CMB
VECC	KOLKATA/NETAJI SUBHASH CHANDR	CCU
VGHS	DHAKA/HAZRAT SHAHJALAL INTL	DAC
VHHH	HONG KONG INTL	HKG
VIDP	DELHI/INDIRA GANDHI INTL	DEL
VMMC	MACAO INTL	MFM
VOBL	BENGALURU/KEMPEGOWDA INTL	BLR
VOCI	COCHIN INTL	COK
VOHS	HYDERABAD/RAJIV GANDHI INTL	HYD
VOMM	CHENNAI INTL	MAA
VTBD	BANGKOK/DON MUEANG INTL	DMK
VTBS	BANGKOK/SUVARNABHUMI INTL	BKK
VTBU	RAYONG/U-TAPAO PATTAYA INTL	UTP
VTCC	CHIANG MAI INTL	CNX
VTSP	PHUKET INTL	HKT
WADD	BALI/I GUSTI NGURAH RAI INTL	DPS
WBSB	BANDAR SERI BEGAWAN/BRUNEI	BWN
WIII	JAKARTA/SOEKARNO HATTA INTL	CGK
WMKJ	JOHOR BAHRU/SENAI INTL AP	JHB
WMKK	KUALA LUMPUR/SEPANG INTL	KUL
WMKP	PENANG INTL	PEN
WSSS	SINGAPORE/CHANGI	SIN
ZBAA	BEIJING/CAPITAL	PEK
ZBHH	HOHHOT/BAITA	HET
ZBTJ	TIANJIN/BINHAI INTL	TSN
ZGGG	GUANGZHOU/BAIYUN	CAN
ZGSZ	SHENZHEN/BAOAN	SZX
ZLLL	LANZHOU/ZHONGCHUAN	LHW
ZLXY	XI AN XIANYANG	XIY
ZPPP	KUNMING/CHANGSHUI	KMG
ZSHC	HANGZHOU/XIAOSHAN	HGH
ZSPD	SHANGHAI/PUDONG	PVG
ZSSS	SHANGHAI/HONGQIAO	SHA
ZUUU	CHENGDU/SHUANGLIU	CTU
ZWWW	URUMQI/DIWOPU	URC

ICAO Code	City/Airfield Name	IATA Code
ZYTL	DALIAN/ZHOUSHUIZI	DLC

KANGERLUSSUAQ

(BGSF)

KANGERLUSSUAQ and runways 09, 27 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS

B747-400

LANDING DATA

KEFLAVIK (BIKF)

A/D Elev **169ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	01	10	19	28
Landing Distance Available	3054m /10017ft	3065m / 10053ft	3054m /10017ft	3065m / 10053ft
Notes				
WAT LIMIT °C : Man / Auto	54°/54	54°/54°	54°/54°	54°/54
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	8kt (3kt)	8kt (3kt)	8kt (3kt)
25F Zero HW wt or TW (Autoland)		8kt (3kt)	8kt (3kt)	
25F Slippery Zero HW wt or TW (Manual)	253.0	253.0	253.0	253.0
25F Slippery Zero HW wt or TW (Autoland)		253.0	253.0	
30F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)	15kt (9kt)	15kt (9kt)
30F Zero HW wt or TW (Autoland)		15kt (9kt)	15kt (9kt)	
30F Slippery Zero HW wt or TW (Manual)	278.0	278.0	278.0	278.0
30F Slippery Zero HW wt or TW (Autoland)		278.0	278.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.

Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **EDMONTON (CYEG)**

A/D Elev **2373ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	02	12	20	30
Landing Distance Available	3351m / 10995ft	3109m / 10200ft	3351m / 10995ft	3109m / 10200ft
Slope	.13UP	.47UP	.13DN	.47DN
Notes				
WAT LIMIT °C : Man / Auto	49°	49°	49°	49°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	7kt (1kt)	11kt (5kt)	7kt (1kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	261.0	243.0	261.0	243.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	7kt (1kt)	11kt (5kt)	7kt (1kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	266.0	280.8	266.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

IQALUIT
(CYFB)

IQALUIT and runways 16, 34 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **HAMILTON (CYHM)**

A/D Elev **780ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**12**	**30**		
Landing Distance Available	2560m / 8398ft	2930m / 9612ft		
Slope	.09 DN	.09 UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	52°/52°	52°		
25F Zero HW wt or TW (Manual)	278.0 (261.0)	5kt (0kt)		
25F Zero HW wt or TW (Autoland)	278.0 (261.0)	5kt (0kt)		
25F Slippery Zero HW wt or TW (Manual)	206.0	240.0		
25F Slippery Zero HW wt or TW (Autoland)	206.0	240.0		
30F Zero HW wt or TW (Manual)	3kt (278.0)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)	3kt (278.0)	11kt (5kt)		
30F Slippery Zero HW wt or TW (Manual)	230.0	262.0		
30F Slippery Zero HW wt or TW (Autoland)	230.0	262.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

HALIFAX

STANFIELD INTL **(CYHZ)**

HALIFAX/STANFIELD INTL and runways 05, 14, 23, 32 authorised for enroute diversion.

Use QRH data to calculate landing performance.

STEPHENVILLE

(CYJT)

STEPHENVILLE and runways 09, 27 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **OTTAWA**

A/D Elev **377ft** Max wt Permitted (For pre flt planning) **285,760kg** **(CYOW)**

RUNWAY	07	14	25	32
Landing Distance Available	2438m / 8000ft	3048m / 10,000ft	2438m / 8000ft	3048m / 10,000ft
Notes				
WAT LIMIT °C : Man / Auto	53°	53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	271.0 (247.0)	8kt (3kt)	271.0 (247.0)	8kt (3kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	200.0	253.0	200.0	253.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (265.0)	8kt (3kt)	280.8 (265.0)	8kt (3kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	220.0	277.0	220.0	277.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

GANDER INTL (CYQX)

GANDER INTL and runways 03, 13, 21, 31 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **MONTREAL**

A/D Elev **118ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **P.E. TRUDEAU INTL (CYUL)**

RUNWAY	06L	06R	10	24L
Landing Distance Available	3353m/11000ft	2926m/9600ft	2134m/7000ft	2926m/9600ft
Slope	0.09 UP	0.20 UP	0.04 UP	0.20 DN
Notes	Note 2	Note 2	Notes 1,2,3	Note 2
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	14kt (8kt)	6kt (0kt)	236.0 (215.0)	6kt (0kt)
25F Zero HW wt or TW (Autoland)	14kt (8kt)			
25F Slippery Zero HW wt or TW (Manual)	276.0	240.0	NOT AUTH	240.0
25F Slippery Zero HW wt or TW (Autoland)	276.0			
30F Zero HW wt or TW (Manual)	14kt (8kt)	6kt (0kt)	252.0 (230.0)	6kt (0kt)
30F Zero HW wt or TW (Autoland)	14kt (8kt)			
30F Slippery Zero HW wt or TW (Manual)	280.8	266.0	NOT AUTH	266.0
30F Slippery Zero HW wt or TW (Autoland)	280.8			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS 10:** Glideslope gives only 23ft wheel height at threshold.
2. **Obstruction:** Mount Royal, 1199ft AMSL, 5.5nm ENE of the airfield.
3. **Rwy 10 Localiser Back Course** – Only reliable within 30° of localiser centreline

BRITISH AIRWAYS **B747-400** LANDING DATA **MONTREAL**

A/D Elev **118ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **P.E. TRUDEAU INTL (CYUL)**

RUNWAY	**24R**	**28**		
Landing Distance Available	3353m/11000ft	2134m/7000ft		
Slope	0.09 DN	0.04 DN		
Notes	Note 1	Notes 1,2		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	14kt (8kt)	236.0 (215.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	276.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (8kt)	252.0 (230.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	NOT AUTH		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Obstruction: Mount Royal, 1199ft AMSL, 5.5nm ENE of the airfield
2. Rwy 28 Localiser – Only reliable within 30° either side of LLZ centreline.

BRITISH AIRWAYS **B747-400** LANDING DATA **VANCOUVER**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **275,688kg** **(CYVR)**

RUNWAY	08L	08R	13	26L
Landing Distance Available	3029m / 9938ft	3292m / 10803ft	2225m / 7300ft	3292m / 10801ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	13kt (7kt)	249.0 (227.0)	13kt (7kt)
25F Zero HW wt or TW (Autoland)	9kt (3kt)	13kt (7kt)		
25F Slippery Zero HW wt or TW (Manual)	251.0	270.0	NOT AUTH	270.0
25F Slippery Zero HW wt or TW (Autoland)	251.0	270.0		
30F Zero HW wt or TW (Manual)	9kt (3kt)	13kt (7kt)	265.0 (241.5)	13kt (7kt)
30F Zero HW wt or TW (Autoland)	9kt (3kt)	13kt (7kt)		
30F Slippery Zero HW wt or TW (Manual)	277.0	280.8	202.0	280.8
30F Slippery Zero HW wt or TW (Autoland)	277.0	280.8		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **VANCOUVER**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **(CYVR)**

RUNWAY	**26R**	**31**		
Landing Distance Available	2809m / 9215ft	2225m / 7 300ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°/54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	4kt (279.0)	249.0 (227.0)		
25F Zero HW wt or TW (Autoland)	4kt (279.0)			
25F Slippery Zero HW wt or TW (Manual)	231.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)	231.0			
30F Zero HW wt or TW (Manual)	4kt (280.8)	265.0 (241.5)		
30F Zero HW wt or TW (Autoland)	4kt (280.8)			
30F Slippery Zero HW wt or TW (Manual)	255.0	202.0		
30F Slippery Zero HW wt or TW (Autoland)	255.0			
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH EAST of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY M10 (F/L) RWY 08L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.04% DN
TOR	3029m (9937ft)	**ED**	3029m (9937ft)	**TOD**	3334m (10938ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	264.6	26/15	1.8	273.6	31/21	1.9	**283.2**	**36/26**	**0.6**	288.7	38/29	0.6	294.5	41/32
66	273.6	28/17	1.9	283.2	33/22	2.0	**293.2**	**38/28**	**0.6**	298.9	41/31	0.6	304.9	43/34
62	284.2	31/19	2.0	294.2	36/24	2.1	**304.7**	**41/30**	**0.6**	310.6	43/33	0.6	316.8	46/36
58	294.3	31/21	2.0	304.5	37/27	2.2	**315.6**	**42/33**	**0.6**	321.7	44/36	0.6	327.7	46/39
54	302.3	32/23	2.1	312.8	37/28	2.3	**324.3**	**42/35**	**0.6**	330.5	45/38	0.6	336.5	47/41
52	306.3	33/22	2.1	316.9	38/28	2.3	**328.6**	**43/34**	**0.6**	334.7	46/37	0.6	340.8	48/40
50	309.7	33/23	2.2	320.5	38/28	2.4	**332.3**	**43/35**	**0.6**	338.5	45/37	0.6	344.8	47/41
48	313.7	33/23	2.2	324.6	39/29	2.4	**336.4**	**44/35**	**0.6**	342.7	46/38	0.6	349.1	48/42
46	317.6	34/24	2.2	328.7	39/30	2.4	**340.5**	**44/36**	**0.6**	346.9	47/39	0.7	353.4	49/42
44	321.4	35/25	2.2	332.5	40/31	2.4	**344.4**	**45/37**	**0.7**	350.9	47/40	0.7	357.5	50/43
42	324.8	34/26	2.3	336.2	39/31	2.4	**348.4**	**44/38**	**0.7**	355.1	46/41	0.7	361.9	49/44
40	329.0	35/26	2.3	340.3	40/32	2.5	**352.7**	**45/38**	**0.7**	359.5	47/41	0.7	366.5	49/45
38	333.0	36/27	2.3	344.4	41/33	2.5	**357.0**	**46/39**	**0.7**	364.0	48/42	0.7	371.2	50/46
36	337.1	36/28	2.3	348.7	42/34	2.6	**361.5**	**47/40**	**0.7**	368.7	49/43	0.7	376.0	51/46
34	341.1	36/29	2.3	352.8	41/34	2.6	**366.0**	**46/41**	**0.7**	373.3	48/44	0.7	380.7	50/47
32	344.7	36/29	2.4	356.6	42/35	2.7	**370.1**	**47/41**	**0.8**	377.6	49/45	0.7	385.0	51/48
30	348.8	37/30	2.4	360.9	42/36	2.8	**374.7**	**47/42**	**0.8**	382.2	50/45	1.0	391.8	51/48
28	349.8	37/30	2.4	361.9	43/36	2.8	**375.8**	**48/42**	**0.8**	383.3	50/46	1.0	393.7	52/48
26	350.7	38/30	2.4	362.9	43/36	2.8	**376.8**	**48/43**	**0.8**	384.4	50/46	1.1	395.5	52/48
24	351.6	38/31	2.5	363.9	43/37	2.8	**377.9**	**48/43**	**0.8**	385.4	50/46	1.1	396.7	52/49
22	352.5	38/31	2.5	364.9	43/37	2.8	**378.9**	**48/43**	**0.8**	386.5	51/46	1.1	397.8	52/49
20	353.4	38/31	2.5	365.9	44/37	2.8	**380.0**	**49/43**	**0.8**	388.0	51/46	1.1	398.8	52/49
18	354.4	39/31	2.5	366.9	44/37	2.8	**381.1**	**49/44**	**0.9**	389.9	51/47	1.0	399.9	53/49
16	355.4	39/32	2.5	368.0	44/38	2.8	**382.1**	**49/44**	**1.0**	391.8	51/47	0.9	400.9	53/50
14	356.4	39/32	2.5	369.0	44/38	2.8	**383.2**	**49/44**	**1.1**	393.7	51/47	0.8	402.0	53/50
12	357.4	39/32	2.5	370.1	45/38	2.8	**384.3**	**50/44**	**1.1**	395.6	51/47	0.8	403.1	53/50
10	358.4	40/32	2.6	371.2	45/38	2.9	**385.5**	**50/45**	**1.1**	396.9	52/47	0.7	404.2	54/50
8	359.4	40/33	2.6	372.2	45/39	2.9	**386.6**	**50/45**	**1.1**	398.0	52/47	0.7	405.3	54/51
6	360.4	40/33	2.6	373.4	45/39	3.0	**388.3**	**50/45**	**1.1**	399.1	52/48	0.7	406.4	54/51
4	361.5	40/33	2.6	374.5	46/39	3.2	**390.3**	**51/45**	**1.0**	400.2	52/48	0.7	407.6	55/51
2	362.6	41/33	2.6	375.6	46/39	3.3	**392.3**	**51/45**	**0.9**	401.3	53/48	0.7	408.7	55/52
0	363.6	41/34	2.6	376.8	46/40	3.5	**394.4**	**51/46**	**0.8**	402.5	53/48	0.7	409.9	55/52

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 08L

ALL ENGINES CLIMB AT V2 PLUS 10KT T0 3014FT QNH (3000FT HAA). SET CLB1 THRUST AT 1514FT QNH (1500FT HAA).

NORTHERLY ROUTINGS ENSURE POSITIVE TERRAIN CLEARANCE BEFORE ACCEPTING ANY NORTHELY ROUTING CLEARANCES

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY L (F/L) RWY 08R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.035% DN
TOR	3505m (11499ft)	**ED**	3505m (11499ft)	**TOD**	3505m (11499ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	276.8	34/24	1.8	285.8	39/30	2.0	**296.0**	**44/35**	**0.3**	299.0	46/38	0.0	299.0	50/42
66	286.6	36/26	1.9	296.0	41/31	1.8	**304.9**	**46/37**	**0.6**	310.4	49/40	0.5	315.5	51/43
62	297.9	39/28	1.9	307.6	44/34	1.9	**317.0**	**49/39**	**0.6**	322.6	51/42	0.6	328.5	54/45
58	307.8	40/30	2.1	318.3	44/36	2.0	**328.4**	**49/42**	**0.6**	334.1	51/45	0.6	340.0	54/48
54	316.2	40/32	2.2	327.0	45/38	2.2	**337.9**	**50/44**	**0.6**	343.6	52/47	0.6	349.7	54/50
52	320.4	41/31	2.2	331.3	46/37	2.2	**342.2**	**51/43**	**0.6**	348.0	53/46	0.6	354.1	55/49
50	324.0	41/32	2.2	335.0	46/38	2.3	**346.7**	**50/44**	**0.6**	352.6	53/47	0.6	358.9	55/50
48	328.2	42/33	2.2	339.3	46/39	2.3	**351.0**	**51/45**	**0.6**	357.1	54/48	0.7	363.6	56/51
46	332.2	42/34	2.2	343.3	47/40	2.4	**355.3**	**52/45**	**0.6**	361.6	54/48	0.7	368.2	57/52
44	336.1	43/35	2.3	347.4	48/40	2.4	**359.6**	**53/46**	**0.6**	366.0	55/49	0.7	372.8	57/52
42	340.0	42/35	2.3	351.5	47/41	2.5	**364.1**	**52/47**	**0.7**	370.7	54/50	0.7	377.6	56/53
40	344.0	43/36	2.4	355.8	48/42	2.6	**368.7**	**53/48**	**0.7**	375.4	55/51	0.7	382.4	57/54
38	348.3	44/37	2.4	360.3	49/43	2.6	**373.5**	**54/49**	**0.7**	380.3	56/52	0.7	387.7	58/55
36	352.6	45/38	2.5	364.9	50/44	2.7	**378.4**	**54/49**	**0.7**	385.2	57/52	1.1	396.0	58/55
34	356.8	44/39	2.5	369.4	49/44	2.7	**382.9**	**54/50**	**0.9**	392.0	55/53	0.9	400.6	57/56
32	360.8	45/39	2.5	373.5	49/45	2.8	**387.5**	**54/51**	**1.0**	397.9	56/53	0.7	404.8	58/57
30	365.1	45/40	2.6	378.2	50/46	3.5	**395.6**	**55/51**	**0.7**	402.5	57/54	0.7	409.6	59/57
28	366.2	46/40	2.6	379.3	51/46	3.5	**396.8**	**55/51**	**0.7**	403.6	57/54	0.7	410.6	59/58
26	367.1	46/40	2.7	380.4	51/46	3.5	**397.8**	**55/52**	**0.7**	404.6	57/55	0.7	411.6	59/58
24	368.2	46/41	2.6	381.4	51/47	3.5	**398.8**	**55/52**	**0.7**	405.6	57/55	0.7	412.7	60/58
22	369.2	46/41	2.6	382.4	51/47	3.5	**399.8**	**56/52**	**0.7**	406.7	58/55	0.7	413.7	60/58
20	370.2	47/41	2.7	383.5	52/47	3.5	**400.9**	**56/52**	**0.7**	407.7	58/55	0.7	414.7	60/59
18	371.2	47/42	2.7	384.5	52/47	3.5	**401.9**	**56/53**	**0.7**	408.8	58/56	0.7	415.8	60/59
16	372.3	47/42	2.7	385.6	52/48	3.5	**403.0**	**56/53**	**0.7**	409.9	59/56	0.7	416.9	61/59
14	373.3	47/42	2.7	386.7	52/48	3.5	**404.0**	**57/53**	**0.7**	411.0	59/56	0.7	418.0	61/59
12	374.4	48/42	2.8	388.5	53/48	3.3	**405.1**	**57/53**	**0.7**	412.0	59/56	0.7	419.2	61/60
10	375.5	48/43	3.0	390.4	53/48	3.2	**406.2**	**57/54**	**0.7**	413.1	59/57	0.7	420.3	62/60
8	376.6	48/43	3.1	392.3	53/48	3.0	**407.3**	**57/54**	**0.7**	414.2	60/57	0.7	421.4	62/60
6	377.7	49/43	3.3	394.2	53/48	2.9	**408.5**	**58/54**	**0.7**	415.4	60/57	0.7	422.5	62/61
4	378.9	49/43	3.4	396.1	53/49	2.7	**409.6**	**58/55**	**0.7**	416.5	60/58	0.7	423.7	62/61
2	380.0	49/44	3.4	397.2	53/49	2.7	**410.8**	**58/55**	**0.7**	417.7	61/58	0.7	424.8	63/61
0	381.2	49/44	3.4	398.3	54/49	2.7	**411.9**	**59/55**	**0.7**	418.9	61/58	0.7	426.0	63/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 08R

ALL ENGINES CLIMB AT V2 PLUS 10KT T0 3014FT QNH (3000FT HAA). SET CLB1 THRUST AT 1514FT QNH (1500FT HAA).

NORTHERLY ROUTINGS ENSURE POSITIVE TERRAIN CLEARANCE BEFORE ACCEPTING ANY NORTHELY ROUTING CLEARANCES

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY H4 (F/L) RWY 13

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.014% DN
TOR	2225m (7299ft)	**ED**	2225m (7299ft)	**TOD**	2225m (7299ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	215.6	14/11	3.4	232.4	19/11	1.8	**241.4**	**24/13**	**0.5**	246.8	27/16	0.5	252.2	30/19
66	215.6	15/11	5.0	240.6	21/11	1.9	**249.9**	**26/14**	**0.5**	255.2	29/17	0.6	260.8	32/20
62	215.6	17/11	6.9	249.9	23/11	1.9	**259.3**	**29/16**	**0.6**	264.8	31/19	0.6	270.6	34/22
58	215.6	19/11	8.6	258.5	24/11	1.9	**268.2**	**30/18**	**0.6**	274.1	33/21	0.6	280.2	36/25
54	215.4	20/12	10.1	265.9	25/13	2.0	**275.9**	**31/20**	**0.6**	282.1	34/23	0.6	288.3	36/26
52	214.4	20/13	11.0	269.3	26/13	2.1	**279.6**	**32/19**	**0.6**	285.7	34/22	0.6	292.1	37/25
50	213.3	20/14	11.9	272.9	26/14	2.1	**283.3**	**31/20**	**0.6**	289.6	34/23	0.6	296.0	36/26
48	212.3	21/14	12.8	276.3	27/14	2.1	**286.9**	**32/20**	**0.6**	293.3	35/24	0.7	299.9	37/27
46	211.4	22/15	13.4	278.5	27/15	2.4	**290.5**	**33/21**	**0.6**	296.9	35/24	0.7	303.6	38/28
44	210.3	22/16	13.4	277.2	28/16	3.3	**293.9**	**34/22**	**0.7**	300.5	36/25	0.7	307.3	39/28
42	209.3	22/17	13.3	275.9	27/17	4.3	**297.4**	**33/22**	**0.7**	304.0	36/26	0.7	310.9	38/29
40	208.2	23/18	13.3	274.5	28/18	5.3	**301.1**	**34/23**	**0.7**	307.9	36/26	0.7	314.8	39/30
38	207.2	23/19	13.2	273.3	29/19	6.3	**304.9**	**34/24**	**0.7**	311.8	37/27	0.7	318.9	40/31
36	206.2	24/20	13.2	272.0	30/20	7.4	**308.9**	**35/24**	**0.7**	315.8	38/28	0.7	322.9	41/31
34	205.3	24/21	13.1	270.8	29/22	8.4	**312.6**	**35/25**	**0.7**	319.6	37/29	0.7	326.8	40/32
32	205.2	24/22	13.1	270.7	30/22	9.1	**316.1**	**35/26**	**0.7**	323.2	38/29	0.7	330.5	40/33
30	204.3	25/23	13.1	269.6	30/24	10.1	**320.0**	**36/27**	**0.7**	327.1	39/30	0.7	334.3	41/33
28	207.2	25/23	13.2	273.3	31/24	9.5	**320.9**	**36/27**	**0.7**	328.0	39/30	0.7	335.2	41/34
26	210.1	26/23	13.4	277.0	31/23	8.9	**321.7**	**37/27**	**0.7**	328.9	39/31	0.7	336.1	42/34
24	213.2	26/23	13.5	280.8	31/23	8.4	**322.6**	**37/27**	**0.7**	329.8	39/31	0.7	337.0	42/34
22	216.2	26/23	13.7	284.7	31/23	7.7	**323.4**	**37/28**	**0.7**	330.6	40/31	0.7	337.9	42/34
20	219.4	26/23	13.8	288.6	32/23	7.1	**324.3**	**37/28**	**0.7**	331.5	40/31	0.7	338.8	43/35
18	222.5	27/23	14.0	292.6	32/23	6.5	**325.2**	**38/28**	**0.7**	332.4	40/32	0.7	339.7	43/35
16	226.1	27/23	14.1	296.8	32/23	5.9	**326.1**	**38/28**	**0.7**	333.3	41/32	0.7	340.6	43/35
14	229.7	27/23	14.2	300.8	33/23	5.2	**327.0**	**38/29**	**0.7**	334.2	41/32	0.7	341.5	43/36
12	233.4	27/23	14.1	304.1	33/23	4.8	**327.9**	**38/29**	**0.7**	335.1	41/32	0.7	342.5	44/36
10	237.2	28/23	14.1	307.5	33/23	4.3	**328.9**	**39/29**	**0.7**	336.0	41/33	0.7	343.4	44/36
8	241.1	28/23	14.0	311.0	33/23	3.8	**329.9**	**39/29**	**0.7**	337.0	42/33	0.7	344.3	44/36
6	245.0	28/23	13.9	314.4	34/23	3.3	**330.8**	**39/30**	**0.7**	338.0	42/33	0.7	345.3	44/37
4	249.0	28/23	13.8	317.9	34/23	2.8	**331.7**	**40/30**	**0.7**	338.9	42/33	0.7	346.3	45/37
2	253.1	29/23	13.4	320.2	34/23	2.5	**332.7**	**40/30**	**0.7**	339.9	43/34	0.7	347.3	45/37
0	257.2	29/23	12.8	321.2	35/23	2.5	**333.6**	**40/30**	**0.7**	340.9	43/34	0.7	348.3	45/37

P/C above 1013 + 0.1
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 13.

NORTHERLY ROUTINGS - Ensure positive terrain clearance before accepting any Northerly routing clearances.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY D7 (F/L) RWY 26L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.035% UP
TOR	3505m (11499ft)	**ED**	3505m (11499ft)	**TOD**	3505m (11499ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	276.7	35/25	1.7	285.4	40/30	1.7	**293.7**	**45/36**	**0.5**	298.6	47/39	0.0	299.0	50/42
66	286.8	37/26	1.8	295.9	42/32	1.7	**304.6**	**47/37**	**0.5**	309.7	49/40	0.5	315.0	51/43
62	298.3	39/28	1.9	307.7	44/34	1.8	**316.8**	**50/40**	**0.5**	322.2	52/43	0.6	327.8	54/46
58	308.3	40/31	2.1	318.6	45/36	2.0	**328.4**	**50/42**	**0.6**	333.9	52/45	0.6	339.5	54/48
54	316.8	41/33	2.1	327.5	46/38	2.1	**338.0**	**50/44**	**0.6**	343.6	53/47	0.6	349.5	55/50
52	321.1	41/32	2.1	331.8	46/37	2.1	**342.4**	**51/43**	**0.6**	348.1	53/46	0.6	354.0	56/49
50	324.7	41/33	2.2	335.6	46/38	2.3	**347.0**	**51/44**	**0.6**	352.8	53/47	0.6	358.9	55/50
48	329.0	42/33	2.2	339.9	47/39	2.3	**351.4**	**52/45**	**0.6**	357.3	54/48	0.6	363.6	56/51
46	333.1	43/34	2.2	344.0	47/40	2.4	**355.8**	**52/46**	**0.6**	361.9	55/49	0.6	368.3	57/52
44	337.0	43/35	2.2	348.0	48/41	2.4	**360.1**	**53/46**	**0.6**	366.4	55/50	0.7	373.0	58/53
42	340.9	42/36	2.3	352.3	47/41	2.5	**364.7**	**52/47**	**0.7**	371.2	54/50	0.7	377.9	56/54
40	345.0	43/36	2.3	356.6	48/42	2.6	**369.4**	**53/48**	**0.7**	376.0	55/51	0.7	382.8	57/54
38	349.3	44/37	2.4	361.1	49/43	2.6	**374.2**	**54/49**	**0.7**	381.0	56/52	0.7	388.4	58/55
36	353.7	45/38	2.4	365.8	50/44	2.7	**379.2**	**55/50**	**0.7**	386.0	57/53	1.0	396.3	58/55
34	358.0	44/39	2.5	370.4	49/45	2.7	**383.8**	**54/51**	**0.9**	393.2	56/53	0.8	400.9	57/56
32	362.0	45/40	2.5	374.6	50/45	2.9	**389.0**	**54/51**	**1.0**	398.6	56/54	0.7	405.3	58/57
30	366.4	45/40	2.6	379.4	50/46	3.4	**396.5**	**55/51**	**0.7**	403.3	57/54	0.7	410.1	59/58
28	367.4	46/41	2.6	380.4	51/46	3.4	**397.5**	**55/52**	**0.7**	404.3	57/55	0.7	411.1	59/58
26	368.4	46/41	2.6	381.4	51/47	3.4	**398.5**	**55/52**	**0.7**	405.3	57/55	0.7	412.1	60/58
24	369.4	46/41	2.6	382.4	51/47	3.4	**399.5**	**55/52**	**0.7**	406.3	58/55	0.7	413.1	60/58
22	370.4	46/41	2.6	383.4	51/47	3.4	**400.5**	**56/52**	**0.7**	407.3	58/55	0.7	414.1	60/59
20	371.4	47/42	2.6	384.5	52/47	3.4	**401.5**	**56/53**	**0.7**	408.3	58/56	0.7	415.1	60/59
18	372.4	47/42	2.6	385.5	52/48	3.4	**402.5**	**56/53**	**0.7**	409.3	59/56	0.7	416.1	61/59
16	373.4	47/42	2.6	386.6	52/48	3.4	**403.5**	**57/53**	**0.7**	410.4	59/56	0.7	417.2	61/60
14	374.5	48/42	2.7	388.1	52/48	3.3	**404.6**	**57/53**	**0.7**	411.4	59/57	0.7	418.2	61/60
12	375.5	48/43	2.9	389.9	53/48	3.1	**405.6**	**57/54**	**0.7**	412.4	59/57	0.7	419.3	62/60
10	376.6	48/43	3.0	391.7	53/48	3.0	**406.7**	**57/54**	**0.7**	413.4	60/57	0.7	420.4	62/60
8	377.7	48/43	3.2	393.5	53/49	2.9	**407.8**	**58/54**	**0.7**	414.5	60/57	0.7	421.5	62/61
6	378.8	49/43	3.3	395.4	53/49	2.7	**408.9**	**58/55**	**0.7**	415.6	60/58	0.7	422.5	63/61
4	379.9	49/44	3.4	396.7	53/49	2.7	**410.0**	**58/55**	**0.7**	416.7	61/58	0.7	423.6	63/61
2	381.0	49/44	3.4	397.8	54/49	2.7	**411.1**	**59/55**	**0.7**	417.8	61/58	0.7	424.7	63/62
0	382.1	50/44	3.4	398.9	54/49	2.7	**412.2**	**59/55**	**0.7**	418.9	61/59	0.7	425.9	63/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 26L

ALL ENGINES CLIMB AT V2 PLUS 10KT T0 3014FT QNH (3000FT HAA). SET CLB1 THRUST AT 1514FT QNH (1500FT HAA).

NORTHERLY ROUTINGS ENSURE POSITIVE TERRAIN CLEARANCE BEFORE ACCEPTING ANY NORTHELY ROUTING CLEARANCES

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY M9 (F/L) RWY 26R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.04% UP
TOR	3029m (9937ft)	**ED**	3029m (9937ft)	**TOD**	3051m (10009ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.0	27/16	1.7	267.7	32/21	1.7	**276.2**	**38/27**	**0.5**	281.4	40/30	0.5	286.7	42/33
66	267.8	29/17	1.8	277.0	35/23	1.8	**285.9**	**40/29**	**0.6**	291.4	42/32	0.6	296.9	44/35
62	278.1	32/19	1.9	287.8	37/25	1.9	**297.1**	**43/31**	**0.6**	302.8	45/34	0.6	308.6	47/37
58	287.6	33/22	2.1	298.0	38/27	2.0	**307.8**	**43/33**	**0.6**	313.6	45/36	0.6	319.7	48/40
54	295.3	33/23	2.1	305.9	39/29	2.2	**316.9**	**44/35**	**0.6**	322.9	46/38	0.6	329.2	48/42
52	299.2	34/22	2.2	310.0	39/28	2.2	**321.1**	**45/34**	**0.6**	327.2	47/37	0.6	333.3	49/41
50	302.5	34/23	2.2	313.4	39/29	2.3	**325.1**	**44/35**	**0.6**	331.5	46/38	0.6	337.6	49/42
48	306.3	35/24	2.2	317.4	40/30	2.4	**329.4**	**45/36**	**0.6**	335.6	47/39	0.6	341.9	49/42
46	310.2	35/25	2.2	321.4	41/31	2.4	**333.4**	**46/37**	**0.6**	339.7	48/40	0.6	346.0	50/43
44	313.9	36/25	2.3	325.3	41/31	2.4	**337.3**	**46/38**	**0.6**	343.6	49/41	0.7	350.1	51/44
42	317.2	35/26	2.3	328.9	41/32	2.5	**341.2**	**46/38**	**0.7**	347.7	48/41	0.7	354.2	50/45
40	321.2	36/27	2.3	332.9	41/33	2.5	**345.3**	**46/39**	**0.7**	351.9	49/42	0.7	358.6	51/46
38	325.3	37/28	2.4	337.1	42/34	2.5	**349.5**	**47/40**	**0.7**	356.2	49/43	0.7	363.1	52/46
36	329.5	38/29	2.4	341.3	43/34	2.5	**353.9**	**48/41**	**0.7**	360.8	50/44	0.7	367.8	53/47
34	333.3	37/29	2.4	345.2	42/35	2.6	**358.0**	**47/42**	**0.7**	365.0	50/45	0.7	372.2	52/48
32	336.9	38/30	2.4	348.9	43/36	2.6	**362.0**	**48/42**	**0.7**	369.2	50/45	0.7	376.5	53/49
30	340.9	38/31	2.4	353.1	44/37	2.7	**366.4**	**49/43**	**0.7**	373.7	51/46	0.8	381.2	53/50
28	341.8	39/31	2.4	354.0	44/37	2.7	**367.4**	**49/43**	**0.7**	374.8	51/46	0.7	382.2	54/50
26	342.7	39/31	2.4	354.9	44/37	2.7	**368.4**	**49/44**	**0.7**	375.8	52/47	0.8	383.3	54/50
24	343.6	39/31	2.5	355.9	44/37	2.7	**369.4**	**50/44**	**0.8**	376.9	52/47	0.7	384.3	54/50
22	344.5	39/32	2.5	356.8	45/38	2.7	**370.4**	**50/44**	**0.8**	377.9	52/47	0.8	385.4	54/51
20	345.4	40/32	2.5	357.8	45/38	2.7	**371.5**	**50/44**	**0.8**	379.0	52/48	0.7	386.4	55/51
18	346.3	40/32	2.5	358.8	45/38	2.7	**372.5**	**50/45**	**0.8**	380.1	53/48	0.8	388.0	55/51
16	347.2	40/32	2.5	359.8	46/38	2.8	**373.6**	**51/45**	**0.8**	381.1	53/48	0.9	389.8	55/51
14	348.2	41/33	2.5	360.7	46/39	2.8	**374.6**	**51/45**	**0.8**	382.2	53/48	1.0	391.7	55/51
12	349.2	41/33	2.5	361.8	46/39	2.8	**375.7**	**51/45**	**0.8**	383.3	54/49	1.0	393.6	55/51
10	350.1	41/33	2.5	362.8	46/39	2.8	**376.8**	**52/46**	**0.8**	384.4	54/49	1.1	395.5	55/52
8	351.1	41/33	2.5	363.8	47/39	2.8	**377.9**	**52/46**	**0.8**	385.6	54/49	1.1	396.8	56/52
6	352.1	42/34	2.6	364.9	47/40	2.8	**379.1**	**52/46**	**0.8**	386.7	54/49	1.1	397.9	56/52
4	353.1	42/34	2.6	366.0	47/40	2.8	**380.2**	**52/46**	**0.8**	388.5	55/50	1.1	399.0	56/52
2	354.1	42/34	2.6	367.1	48/40	2.9	**381.4**	**53/47**	**0.9**	390.5	55/50	1.0	400.2	56/53
0	355.1	43/34	2.6	368.2	48/41	2.9	**382.5**	**53/47**	**1.0**	392.5	55/50	0.9	401.3	57/53

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 26R

ALL ENGINES CLIMB AT V2 PLUS 10KT T0 3014FT QNH (3000FT HAA). SET CLB1 THRUST AT 1514FT QNH (1500FT HAA).

NORTHERLY ROUTINGS ENSURE POSITIVE TERRAIN CLEARANCE BEFORE ACCEPTING ANY NORTHELY ROUTING CLEARANCES

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **VANCOUVER**

A/D Elev **13ft** **INTL (CYVR)**

TWY E (F/L) RWY 31

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.014% UP
TOR	2225m (7299ft)	**ED**	2225m (7299ft)	**TOD**	2225m (7299ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	209.2	13/11	4.3	230.8	18/11	1.8	**239.8**	**24/12**	**0.5**	245.1	26/15	0.6	250.6	29/18
66	209.2	15/11	5.9	238.8	20/11	1.9	**248.1**	**26/13**	**0.6**	253.6	28/16	0.6	259.1	31/19
62	209.2	17/11	7.8	248.1	22/11	1.9	**257.5**	**28/15**	**0.6**	263.2	31/18	0.6	268.9	34/22
58	209.2	18/11	9.5	256.7	24/11	1.9	**266.4**	**30/17**	**0.6**	272.3	32/21	0.6	278.3	35/24
54	209.0	19/12	11.0	264.1	25/12	2.0	**274.1**	**31/19**	**0.6**	280.3	33/22	0.6	286.4	36/26
52	208.0	20/13	11.9	267.5	26/13	2.0	**277.7**	**31/18**	**0.6**	283.9	34/22	0.6	290.2	37/25
50	207.0	20/14	12.8	271.0	25/14	2.1	**281.4**	**31/19**	**0.6**	287.7	34/22	0.6	294.1	36/26
48	206.0	20/14	13.3	272.4	26/14	2.5	**285.0**	**32/20**	**0.6**	291.4	34/23	0.7	297.9	37/26
46	205.1	21/15	13.2	271.3	27/15	3.5	**288.6**	**32/20**	**0.6**	295.0	35/24	0.7	301.6	38/27
44	204.1	22/16	13.2	270.0	28/16	4.4	**292.0**	**33/21**	**0.7**	298.6	36/24	0.7	305.3	38/28
42	203.1	22/17	13.1	268.7	27/17	5.4	**295.5**	**32/22**	**0.7**	302.2	35/25	0.7	309.0	38/29
40	202.0	22/18	13.1	267.3	28/18	6.4	**299.2**	**33/22**	**0.7**	306.0	36/26	0.7	312.9	38/29
38	201.0	23/19	13.0	266.1	28/19	7.4	**303.0**	**34/23**	**0.7**	309.9	37/27	0.7	316.9	39/30
36	200.1	24/20	13.0	264.9	29/20	8.4	**306.9**	**35/24**	**0.7**	313.9	37/27	0.7	321.0	40/31
34		23/		263.7	29/21	9.4	**310.6**	**34/25**	**0.7**	317.6	37/28	0.7	324.7	39/32
32		24/		263.6	29/22	10.1	**314.1**	**35/25**	**0.7**	321.2	37/29	0.7	328.4	40/32
30		25/		262.6	30/23	11.1	**317.9**	**36/26**	**0.7**	325.1	38/29	0.7	332.3	41/33
28	201.0	25/23	13.0	266.1	30/23	10.5	**318.8**	**36/26**	**0.7**	326.0	38/30	0.7	333.2	41/33
26	203.9	25/23	13.2	269.7	31/23	10.0	**319.7**	**36/26**	**0.7**	326.8	39/30	0.7	334.0	41/33
24	206.8	25/23	13.3	273.4	31/23	9.4	**320.6**	**36/27**	**0.7**	327.7	39/30	0.7	334.9	42/34
22	209.8	26/23	13.5	277.2	31/23	8.8	**321.4**	**37/27**	**0.7**	328.6	39/30	0.7	335.8	42/34
20	212.9	26/23	13.6	281.1	31/23	8.2	**322.3**	**37/27**	**0.7**	329.5	40/31	0.7	336.7	42/34
18	216.0	26/23	13.8	285.0	32/23	7.6	**323.2**	**37/27**	**0.7**	330.4	40/31	0.7	337.6	42/34
16	219.4	26/23	13.9	289.1	32/23	7.0	**324.1**	**37/28**	**0.7**	331.3	40/31	0.7	338.5	43/35
14	223.0	27/23	14.1	293.3	32/23	6.3	**325.0**	**38/28**	**0.7**	332.2	40/32	0.7	339.5	43/35
12	226.7	27/23	14.2	297.6	32/23	5.7	**325.9**	**38/28**	**0.7**	333.1	41/32	0.7	340.4	43/35
10	230.4	27/23	14.2	301.5	33/23	5.1	**326.8**	**38/28**	**0.7**	334.0	41/32	0.7	341.3	43/36
8	234.2	27/23	14.1	304.9	33/23	4.6	**327.8**	**39/29**	**0.7**	335.0	41/32	0.7	342.3	44/36
6	238.1	28/23	14.0	308.3	33/23	4.1	**328.7**	**39/29**	**0.7**	335.9	41/33	0.7	343.2	44/36
4	242.0	28/23	14.0	311.8	33/23	3.6	**329.7**	**39/29**	**0.7**	336.9	42/33	0.7	344.2	44/36
2	246.0	28/23	13.9	315.3	34/23	3.1	**330.6**	**39/30**	**0.7**	337.8	42/33	0.7	345.2	45/37
0	250.1	28/23	13.8	318.9	34/23	2.5	**331.6**	**40/30**	**0.7**	338.8	42/33	0.7	346.2	45/37

P/C above 1013 + 0.1
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 31 - ALL ENGINES CLIMB AT V2 PLUS 10KT T0 3014FT QNH (3000FT HAA). SET CLB1 THRUST AT 1514FT QNH (1500FT HAA).

WINNIPEG

J.A.RICHARDSON INTL **(CYWG)**

WINNIPEG/J.A.RICHARDSON INTL and runways 13, 18, 31, 36 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **CALGARY**

A/D Elev **3606ft** Max wt Permitted (For pre flt planning) **285,760kg** **(CYYC)**

RUNWAY	11	17R	29	35L
Landing Distance Available	2438m / 8000ft	3863m / 12675ft	2438m / 8000ft	3863m / 12675ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	46°	46°	46°	46°
25F Zero HW wt or TW (Manual)	249.0 (225.0)	15kt (11kt)	249.0 (225.0)	15kt (11kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	1kt	NOT AUTH	1kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	265.0 (241.0)	15kt (11kt)	265.0 (241.0)	15kt (11kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	203.0	1kt	203.0	1kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg		750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located SOUH WEST clockwise through WEST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **CALGARY**

A/D Elev **3606ft** Max wt Permitted (For pre flt planning) **285,760kg** **(CYYC)**

RUNWAY	17L	35R		
Landing Distance Available	4267m / 13999ft	4267m / 13999ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	46°	46°		
25F Zero HW wt or TW (Manual)	14kt (10kt)	14kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (10kt)	14kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located SOUH WEST clockwise through WEST of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY J) RWY 11

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.063% DN
TOR	2438m (7998ft)	**ED**	2438m (7998ft)	**TOD**	2574m (8444ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W /	Inc /kt	5kt Tail	V1 D/W /	Inc /kt	ZERO WIND	V1 D/W /	Inc /kt	10kt Head	V1 D/W /	Inc /kt	20kt Head	V1 D/W /
70														
66	220.7	13/8	1.6	228.8	18/8	1.6	**236.9**	**23/11**	**0.5**	241.5	25/14	0.5	246.4	28/17
62	228.0	13/8	1.8	236.8	19/8	1.7	**245.2**	**24/12**	**0.5**	250.2	26/15	0.5	255.2	28/18
58	235.5	15/8	1.8	244.7	20/8	1.7	**253.3**	**26/14**	**0.5**	258.3	28/17	0.5	263.5	31/20
54	239.1	17/8	2.5	251.8	22/10	1.7	**260.5**	**27/16**	**0.5**	265.5	30/19	0.6	271.0	33/22
52	239.1	17/8	3.1	254.5	22/9	1.8	**263.6**	**27/15**	**0.5**	268.8	30/18	0.6	274.3	32/21
50	239.1	17/8	3.7	257.8	23/10	1.9	**267.1**	**28/16**	**0.5**	272.3	30/19	0.6	278.0	33/22
48	239.1	18/8	4.4	261.0	23/10	1.9	**270.4**	**29/17**	**0.5**	275.8	31/20	0.6	281.5	34/23
46	238.8	18/8	4.9	263.5	23/11	1.9	**273.0**	**29/17**	**0.6**	278.5	31/20	0.6	284.3	33/24
44	238.1	19/9	5.7	266.6	24/12	1.9	**276.3**	**29/18**	**0.6**	281.9	32/21	0.6	287.8	34/24
42	237.3	19/10	6.5	270.0	25/13	2.0	**279.8**	**30/19**	**0.6**	285.4	33/22	0.6	291.4	35/25
40	236.6	20/11	7.3	273.3	26/13	2.0	**283.3**	**31/20**	**0.6**	289.1	33/23	0.6	295.1	36/26
38	235.9	21/12	8.2	276.7	27/14	2.0	**286.9**	**32/20**	**0.6**	292.7	34/23	0.6	298.9	37/27
36	235.3	21/13	8.8	279.5	26/15	2.1	**289.8**	**31/21**	**0.6**	295.7	34/24	0.6	302.0	36/27
34	234.6	21/14	9.6	282.8	27/15	2.1	**293.3**	**32/22**	**0.6**	299.3	34/25	0.6	305.6	37/28
32	234.8	22/14	10.2	285.9	27/16	2.1	**296.5**	**33/22**	**0.6**	302.6	35/25	0.6	309.0	38/29
30	234.3	23/15	11.0	289.5	28/17	2.1	**300.2**	**33/23**	**0.6**	306.3	36/26	0.7	312.8	38/30
28	234.8	22/16	11.3	291.1	27/17	2.2	**302.1**	**32/24**	**0.6**	308.4	35/27	0.7	315.1	37/30
26	235.5	23/17	11.6	293.6	28/18	2.2	**304.7**	**33/24**	**0.6**	311.1	35/27	0.7	317.8	38/31
24	236.2	23/17	12.0	296.1	28/18	2.3	**307.4**	**34/25**	**0.6**	313.8	36/28	0.7	320.7	38/31
22	237.6	24/18	12.1	298.2	29/19	2.3	**309.6**	**34/25**	**0.6**	316.0	37/28	0.7	322.8	39/32
20	239.5	24/18	12.2	300.3	29/19	2.3	**311.7**	**35/26**	**0.7**	318.2	37/29	0.7	325.1	39/32
18	242.0	24/18	11.9	301.5	30/19	2.3	**313.0**	**35/26**	**0.7**	319.5	37/29	0.7	326.4	40/33
16	245.1	25/18	11.4	302.3	30/20	2.3	**313.8**	**35/26**	**0.7**	320.4	38/29	0.7	327.3	40/33
14	248.4	25/18	10.9	303.1	30/20	2.3	**314.7**	**35/26**	**0.7**	321.3	38/30	0.7	328.2	40/33
12	251.7	25/18	10.4	303.9	30/20	2.3	**315.6**	**36/27**	**0.7**	322.2	38/30	0.7	329.2	41/33
10	255.2	25/18	9.9	304.8	31/20	2.3	**316.5**	**36/27**	**0.7**	323.1	38/30	0.7	330.1	41/34
8	259.0	26/18	9.3	305.7	31/21	2.3	**317.4**	**36/27**	**0.7**	324.0	39/30	0.7	331.0	41/34
6	262.8	26/18	8.7	306.5	31/21	2.4	**318.3**	**36/27**	**0.7**	324.9	39/31	0.7	331.9	41/34
4	266.6	26/18	8.2	307.4	31/21	2.4	**319.2**	**37/28**	**0.7**	325.9	39/31	0.7	332.8	42/34
2	270.6	26/18	7.6	308.4	32/21	2.4	**320.2**	**37/28**	**0.7**	326.8	40/31	0.7	333.8	42/35
0	274.7	27/18	6.9	309.3	32/22	2.4	**321.1**	**37/28**	**0.7**	327.8	40/31	0.7	334.7	42/35

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 11.

Beware terrain rising to 12000ft approx 30nm west of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY D) RWY 17L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.257% DN
TOR	4267m (13999ft)	**ED**	4267m (13999ft)	**TOD**	4567m (14983ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W /	Inc /kt	5kt Tail	V1 D/W /	Inc /kt	ZERO WIND	V1 D/W /	Inc /kt	10kt Head	V1 D/W /	Inc /kt	20kt Head	V1 D/W /
70														
66	276.0	38/29	0.0	276.0	45/36	0.0	**276.0**	**45/42**	**0.0**	276.0	45/45	0.0	276.0	45/45
62	288.7	38/31	0.4	290.5	44/37	0.0	**290.5**	**49/43**	**0.0**	290.5	49/46	0.0	290.5	49/49
58	298.8	40/33	1.1	304.2	45/38	0.0	**304.2**	**52/45**	**0.0**	304.2	53/48	0.0	304.2	53/51
54	307.9	42/35	1.8	316.8	47/40	0.0	**317.0**	**53/46**	**0.0**	317.0	56/49	0.0	317.0	56/53
52	310.9	41/34	1.8	320.1	45/39	0.6	**322.9**	**51/45**	**0.0**	322.9	54/48	0.0	322.9	57/52
50	315.2	42/35	1.9	324.5	46/40	0.9	**328.9**	**52/46**	**0.0**	328.9	55/49	0.0	328.9	58/53
48	319.5	42/36	1.9	328.9	47/41	1.2	**334.8**	**52/46**	**0.0**	334.8	56/50	0.0	334.8	59/53
46	323.2	42/36	1.9	332.9	47/42	1.6	**340.8**	**52/47**	**0.0**	340.8	55/50	0.0	340.8	58/54
44	327.3	43/37	1.9	337.0	48/42	2.0	**346.8**	**52/48**	**0.0**	346.8	56/51	0.0	346.8	59/54
42	331.5	44/38	1.9	341.2	49/43	2.1	**351.5**	**53/48**	**0.1**	352.8	56/52	0.0	352.8	59/55
40	335.6	45/39	2.0	345.5	50/44	2.1	**355.9**	**54/49**	**0.3**	358.8	57/52	0.0	358.8	60/56
38	339.9	46/40	2.0	349.9	50/45	2.1	**360.6**	**55/50**	**0.4**	365.0	57/53	0.0	365.0	61/57
36	344.1	45/40	2.1	354.4	50/46	2.2	**365.5**	**54/51**	**0.6**	371.3	57/54	0.0	371.3	60/57
34	348.2	46/41	2.1	358.8	51/47	2.3	**370.1**	**55/52**	**0.6**	376.1	57/54	0.1	377.1	60/58
32	352.1	47/42	2.1	362.8	51/47	2.3	**374.5**	**56/53**	**0.6**	380.6	58/55	0.2	382.5	61/59
30	356.4	47/43	2.2	367.4	52/48	2.4	**379.3**	**57/53**	**0.6**	385.4	59/56	0.2	387.8	62/59
28	359.5	46/43	2.3	370.8	51/49	2.4	**382.7**	**55/54**	**0.7**	389.9	57/56	0.2	392.3	60/60
26	362.6	46/44	2.3	374.1	51/49	2.4	**386.2**	**56/55**	**0.9**	395.3	57/57	0.1	396.5	60/60
24	365.8	47/44	2.3	377.5	52/50	2.7	**391.2**	**56/55**	**0.8**	399.0	58/57	0.2	400.5	61/61
22	368.5	48/45	2.3	380.2	52/50	3.1	**395.5**	**56/55**	**0.6**	401.6	58/58	0.2	404.0	61/61
20	371.1	48/45	2.4	382.9	53/51	3.1	**398.4**	**57/55**	**0.6**	404.3	59/58	0.3	407.3	62/61
18	372.6	48/46	2.4	384.5	53/51	3.1	**399.8**	**57/56**	**0.6**	405.8	59/58	0.2	408.2	62/62
16	373.6	49/46	2.4	385.5	53/51	3.1	**400.8**	**57/56**	**0.6**	406.8	60/59	0.2	408.3	63/62
14	374.6	49/46	2.4	386.5	54/52	3.1	**401.8**	**58/56**	**0.6**	407.8	60/59	0.1	408.3	63/63
12	375.6	49/47	2.5	387.9	54/52	3.0	**402.8**	**58/57**	**0.6**	408.3	60/59	0.0	408.3	64/63
10	376.7	49/47	2.6	389.6	54/52	2.8	**403.7**	**58/57**	**0.5**	408.3	61/60	0.0	408.3	64/64
8	377.7	50/47	2.7	391.2	54/52	2.7	**404.7**	**59/57**	**0.4**	408.3	61/60	0.0	408.3	65/64
6	378.8	50/47	2.8	392.9	55/52	2.6	**405.8**	**59/57**	**0.3**	408.3	62/61	0.0	408.3	65/65
4	379.8	50/48	2.9	394.5	55/53	2.5	**406.8**	**59/58**	**0.2**	408.4	62/61	0.0	408.4	66/65
2	380.9	51/48	3.0	396.1	55/53	2.3	**407.8**	**60/58**	**0.1**	408.4	63/62	0.0	408.4	66/65
0	381.9	51/48	3.0	397.1	55/53	2.3	**408.4**	**60/58**	**0.0**	408.4	63/62	0.0	408.4	66/66

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 17L.

Beware terrain rising to 12000ft approx 30nm west of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY C) RWY 17R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.11% DN
TOR	3863m (12673ft)	**ED**	3863m (12673ft)	**TOD**	4133m (13559ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66	267.4	33/23	1.4	274.6	38/29	0.3	**276.0**	**45/35**	**0.0**	276.0	45/38	0.0	276.0	45/42
62	276.6	34/25	1.7	284.9	38/30	1.1	**290.5**	**44/36**	**0.0**	290.5	47/39	0.0	290.5	49/43
58	286.4	36/27	1.7	295.1	41/32	1.6	**303.3**	**45/38**	**0.1**	304.2	48/41	0.0	304.2	51/44
54	295.1	38/29	1.8	304.1	42/34	1.7	**312.7**	**47/40**	**0.4**	317.0	50/42	0.0	317.0	53/46
52	298.1	37/28	1.8	307.2	41/33	1.9	**316.5**	**46/39**	**0.5**	321.5	48/42	0.1	322.9	51/45
50	302.2	37/29	1.9	311.5	42/34	1.9	**321.0**	**47/40**	**0.5**	326.1	49/42	0.3	328.9	51/46
48	306.2	38/30	1.9	315.6	43/35	1.9	**325.3**	**48/40**	**0.5**	330.5	50/43	0.4	334.8	52/46
46	309.6	38/31	1.9	319.3	43/36	2.0	**329.4**	**47/41**	**0.5**	334.6	50/44	0.5	339.8	52/47
44	313.4	39/31	2.0	323.4	43/37	2.0	**333.4**	**48/42**	**0.5**	338.8	50/45	0.5	344.0	53/48
42	317.5	40/32	2.0	327.6	44/38	2.0	**337.7**	**49/43**	**0.5**	343.0	51/46	0.5	348.3	53/49
40	321.6	41/33	2.0	331.7	45/38	2.0	**341.9**	**50/44**	**0.6**	347.4	52/47	0.5	352.8	54/50
38	325.8	41/34	2.0	335.9	46/39	2.1	**346.3**	**51/45**	**0.6**	351.9	53/47	0.6	357.5	55/50
36	329.8	41/35	2.1	340.1	46/40	2.1	**350.8**	**50/45**	**0.6**	356.4	52/48	0.6	362.2	55/51
34	333.6	42/35	2.1	344.0	46/41	2.2	**355.0**	**51/46**	**0.6**	360.9	53/49	0.6	366.8	55/52
32	337.3	42/36	2.1	347.8	47/41	2.2	**359.0**	**52/47**	**0.6**	365.0	54/50	0.6	371.1	56/53
30	341.3	43/37	2.1	352.0	48/42	2.3	**363.4**	**53/48**	**0.6**	369.7	55/51	0.6	375.9	57/54
28	344.1	42/37	2.2	354.9	46/43	2.3	**366.6**	**51/48**	**0.6**	373.0	53/51	0.6	379.4	56/54
26	347.0	42/38	2.2	358.0	47/43	2.4	**369.9**	**52/49**	**0.6**	376.3	54/52	0.7	382.8	56/55
24	350.0	43/38	2.2	361.1	48/44	2.4	**373.2**	**52/50**	**0.7**	379.8	55/52	0.6	386.2	57/55
22	352.3	43/39	2.3	363.7	48/45	2.4	**375.9**	**53/50**	**0.7**	382.5	55/53	0.8	390.1	57/56
20	354.7	44/39	2.3	366.2	49/45	2.5	**378.6**	**53/51**	**0.7**	385.2	56/53	0.9	394.4	57/56
18	356.1	44/40	2.3	367.7	49/45	2.5	**380.2**	**54/51**	**0.7**	386.8	56/54	1.0	396.5	57/56
16	357.1	44/40	2.3	368.7	49/46	2.5	**381.2**	**54/51**	**0.7**	388.4	56/54	0.9	397.4	58/56
14	358.0	45/40	2.3	369.7	50/46	2.5	**382.2**	**54/51**	**0.8**	390.0	56/54	0.8	398.3	58/57
12	359.0	45/40	2.3	370.7	50/46	2.5	**383.3**	**55/52**	**0.8**	391.5	57/54	0.8	399.3	58/57
10	359.9	45/41	2.4	371.8	50/46	2.5	**384.3**	**55/52**	**0.9**	393.1	57/54	0.7	400.3	59/57
8	360.9	46/41	2.4	372.8	50/47	2.5	**385.4**	**55/52**	**0.9**	394.6	57/55	0.7	401.2	59/58
6	361.9	46/41	2.4	373.9	51/47	2.5	**386.5**	**55/53**	**1.0**	396.1	57/55	0.6	402.2	59/58
4	362.9	46/42	2.4	374.9	51/47	2.6	**387.8**	**56/53**	**0.9**	397.1	57/55	0.6	403.1	60/58
2	363.9	46/42	2.4	376.0	51/48	2.7	**389.4**	**56/53**	**0.9**	398.0	58/55	0.6	404.1	60/58
0	364.9	47/42	2.4	377.0	51/48	2.8	**391.0**	**56/53**	**0.8**	399.0	58/56	0.6	405.1	60/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 17R.

Beware terrain rising to 12000ft approx 30nm west of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY F/U) RWY 29

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.063% UP
TOR	2438m (7998ft)	**ED**	2438m (7998ft)	**TOD**	2738m (8982ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W /	Inc /kt	5kt Tail	V1 D/W /	Inc /kt	ZERO WIND	V1 D/W /	Inc /kt	10kt Head	V1 D/W /	Inc /kt	20kt Head	V1 D/W /
70														
66	219.2	12/8	1.7	227.5	17/8	1.7	**236.0**	**22/11**	**0.5**	240.7	24/13	0.5	245.4	27/16
62	226.6	13/8	1.7	235.3	18/8	1.8	**244.1**	**23/12**	**0.5**	249.2	25/15	0.5	254.4	28/18
58	232.7	14/8	2.1	243.1	20/8	1.8	**252.3**	**25/14**	**0.5**	257.3	27/16	0.5	262.7	30/20
54	232.7	16/8	3.5	250.3	21/9	1.8	**259.4**	**27/15**	**0.5**	264.5	29/18	0.6	270.2	32/21
52	232.7	16/8	4.1	253.4	21/8	1.8	**262.6**	**26/14**	**0.5**	267.8	29/17	0.6	273.5	31/21
50	232.7	17/8	4.8	256.7	22/9	1.9	**266.0**	**27/15**	**0.5**	271.4	30/18	0.6	277.2	32/21
48	232.7	17/8	5.5	260.0	23/10	1.9	**269.4**	**28/16**	**0.5**	274.8	30/19	0.6	280.8	33/22
46	232.4	17/8	6.1	263.1	23/11	1.9	**272.6**	**28/17**	**0.5**	278.0	30/20	0.6	283.8	33/23
44	231.7	18/9	6.9	266.1	23/11	2.0	**275.9**	**29/17**	**0.6**	281.4	31/20	0.6	287.3	33/24
42	231.0	19/10	7.7	269.4	24/12	2.0	**279.3**	**29/18**	**0.6**	284.9	32/21	0.6	290.9	34/24
40	230.3	19/11	8.5	272.8	25/13	2.0	**282.8**	**30/19**	**0.6**	288.6	33/22	0.6	294.6	35/25
38	229.6	20/12	9.3	276.2	26/13	2.0	**286.4**	**31/20**	**0.6**	292.2	33/23	0.6	298.4	36/26
36	229.0	20/13	10.0	279.0	25/14	2.1	**289.3**	**30/20**	**0.6**	295.2	33/23	0.6	301.4	35/27
34	228.4	21/14	10.8	282.3	26/15	2.1	**292.8**	**31/21**	**0.6**	298.7	34/24	0.6	305.0	36/27
32	228.5	21/14	11.4	285.4	27/15	2.1	**296.0**	**32/22**	**0.6**	302.1	34/25	0.6	308.5	37/28
30	228.0	22/15	12.2	288.9	27/16	2.2	**299.7**	**33/22**	**0.6**	305.8	35/25	0.7	312.3	38/29
28	228.6	21/16	12.4	290.6	27/17	2.2	**301.6**	**32/23**	**0.6**	307.9	34/26	0.7	314.5	37/29
26	229.2	22/17	12.8	293.0	27/17	2.2	**304.2**	**32/23**	**0.6**	310.6	35/27	0.7	317.3	37/30
24	229.8	22/17	13.2	295.6	28/18	2.3	**306.9**	**33/24**	**0.6**	313.3	35/27	0.7	320.1	38/31
22	231.2	23/18	13.3	297.6	28/18	2.3	**309.0**	**33/24**	**0.6**	315.4	36/28	0.7	322.3	38/31
20	233.1	23/18	13.3	299.7	29/18	2.3	**311.1**	**34/25**	**0.7**	317.6	36/28	0.7	324.5	39/32
18	235.5	24/18	13.1	300.9	29/19	2.3	**312.4**	**34/25**	**0.7**	318.9	37/28	0.7	325.8	39/32
16	238.5	24/18	12.6	301.7	29/19	2.3	**313.2**	**34/25**	**0.7**	319.8	37/29	0.7	326.7	39/32
14	241.7	24/18	12.2	302.6	29/19	2.3	**314.1**	**35/26**	**0.7**	320.7	37/29	0.7	327.6	40/32
12	245.0	24/18	11.7	303.4	30/19	2.3	**315.0**	**35/26**	**0.7**	321.6	37/29	0.7	328.6	40/33
10	248.4	24/18	11.2	304.2	30/20	2.3	**315.9**	**35/26**	**0.7**	322.5	38/29	0.7	329.5	40/33
8	252.0	25/18	10.6	305.1	30/20	2.3	**316.8**	**35/26**	**0.7**	323.4	38/30	0.7	330.4	40/33
6	255.7	25/18	10.1	306.0	30/20	2.3	**317.7**	**36/27**	**0.7**	324.3	38/30	0.7	331.3	41/33
4	259.5	25/18	9.5	306.9	31/20	2.4	**318.7**	**36/27**	**0.7**	325.3	38/30	0.7	332.2	41/34
2	263.4	26/18	8.9	307.8	31/21	2.4	**319.6**	**36/27**	**0.7**	326.2	39/30	0.7	333.2	41/34
0	267.4	26/18	8.3	308.7	31/21	2.4	**320.5**	**37/27**	**0.7**	327.2	39/31	0.7	334.1	41/34

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 29.

Beware terrain rising to 12000ft approx 30nm west of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY C) RWY 35L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.095% UP
TOR	3863m (12673ft)	**ED**	3863m (12673ft)	**TOD**	4163m (13658ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66	268.8	33/23	1.4	276.0	38/28	0.0	**276.0**	**44/35**	**0.0**	276.0	45/38	0.0	276.0	45/41
62	278.3	33/25	1.8	287.5	37/30	0.6	**290.5**	**43/36**	**0.0**	290.5	46/39	0.0	290.5	49/42
58	287.7	35/27	1.9	297.2	40/32	1.4	**304.2**	**45/37**	**0.0**	304.2	48/41	0.0	304.2	51/44
54	296.2	37/28	1.9	305.9	42/34	2.0	**315.7**	**46/39**	**0.1**	317.0	49/42	0.0	317.0	52/46
52	299.4	36/28	1.9	308.9	40/33	2.0	**318.8**	**45/38**	**0.4**	322.9	47/41	0.0	322.9	50/45
50	303.4	37/28	1.9	313.0	41/34	2.0	**323.2**	**46/39**	**0.6**	328.7	48/42	0.0	328.9	51/45
48	307.3	38/29	2.0	317.1	42/35	2.1	**327.4**	**47/40**	**0.5**	332.8	49/43	0.2	334.8	52/46
46	310.7	37/30	2.0	320.7	42/35	2.1	**331.3**	**47/41**	**0.6**	336.9	49/43	0.4	340.8	51/47
44	314.4	38/31	2.0	324.6	43/36	2.1	**335.2**	**48/42**	**0.6**	340.9	50/44	0.6	346.5	52/47
42	318.4	39/32	2.1	328.8	44/37	2.1	**339.3**	**48/42**	**0.6**	345.0	51/45	0.6	350.8	53/48
40	322.5	40/32	2.1	332.8	45/38	2.1	**343.4**	**49/43**	**0.6**	349.2	51/46	0.6	355.1	53/49
38	326.6	41/33	2.1	336.9	45/39	2.2	**347.7**	**50/44**	**0.6**	353.6	52/47	0.6	359.6	54/50
36	330.5	40/34	2.1	341.0	45/40	2.2	**352.0**	**50/45**	**0.6**	358.1	52/48	0.6	364.3	54/51
34	334.3	41/35	2.1	344.9	46/40	2.3	**356.2**	**50/46**	**0.6**	362.4	53/49	0.6	368.8	55/51
32	337.9	42/35	2.2	348.7	46/41	2.3	**360.1**	**51/47**	**0.6**	366.4	53/49	0.7	372.9	56/52
30	342.0	43/36	2.2	352.8	47/42	2.3	**364.5**	**52/47**	**0.7**	371.0	54/50	0.7	377.7	56/53
28	344.7	41/37	2.2	355.7	46/42	2.4	**367.7**	**51/48**	**0.7**	374.3	53/51	0.7	381.0	55/54
26	347.5	42/37	2.3	358.8	46/43	2.4	**370.9**	**51/49**	**0.7**	377.6	53/51	0.7	384.4	55/54
24	350.5	42/38	2.3	361.9	47/44	2.5	**374.3**	**52/49**	**0.7**	381.0	54/52	0.7	388.4	56/55
22	352.8	43/38	2.3	364.4	47/44	2.5	**376.9**	**52/50**	**0.7**	383.7	54/52	0.9	393.0	56/55
20	355.2	43/39	2.4	367.0	48/45	2.5	**379.7**	**53/50**	**0.7**	386.4	55/53	1.1	396.9	56/55
18	356.7	44/39	2.4	368.5	48/45	2.5	**381.2**	**53/50**	**0.8**	388.8	55/53	1.0	398.5	57/55
16	357.6	44/39	2.4	369.6	49/45	2.5	**382.3**	**53/51**	**0.8**	390.6	55/53	0.9	399.5	57/56
14	358.6	44/40	2.4	370.6	49/45	2.6	**383.4**	**54/51**	**0.9**	392.5	55/53	0.8	400.6	57/56
12	359.6	44/40	2.4	371.7	49/46	2.6	**384.5**	**54/51**	**1.0**	394.4	56/53	0.7	401.6	57/56
10	360.6	45/40	2.4	372.7	49/46	2.6	**385.6**	**54/51**	**1.1**	396.2	56/54	0.7	402.7	58/56
8	361.7	45/41	2.4	373.8	50/46	2.6	**386.7**	**55/52**	**1.1**	397.3	56/54	0.7	403.8	58/57
6	362.7	45/41	2.4	374.9	50/46	2.7	**388.5**	**55/52**	**1.0**	398.3	56/54	0.7	404.9	58/57
4	363.8	46/41	2.4	376.0	50/47	2.9	**390.4**	**55/52**	**0.9**	399.4	56/54	0.7	406.0	58/57
2	364.8	46/41	2.5	377.2	51/47	3.0	**392.3**	**55/52**	**0.8**	400.5	57/55	0.7	407.1	59/58
0	365.9	46/42	2.5	378.3	51/47	3.2	**394.3**	**55/52**	**0.7**	401.6	57/55	0.7	408.3	59/58

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 35L.

Beware terrain rising to 12000ft approx 30nm west of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CALGARY**

A/D Elev **3606ft** **INTL (CYYC)**

F/L (TWY B) RWY 35R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.257% UP
TOR	4267m (13999ft)	**ED**	4267m (13999ft)	**TOD**	4567m (14983ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66	275.4	37/28	0.1	276.0	44/35	0.0	**276.0**	**45/41**	**0.0**	276.0	45/44	0.0	276.0	45/45
62	285.2	38/30	1.1	290.5	43/35	0.0	**290.5**	**49/42**	**0.0**	290.5	49/45	0.0	290.5	49/48
58	295.3	40/32	1.7	303.8	44/37	0.1	**304.2**	**51/44**	**0.0**	304.2	53/47	0.0	304.2	53/50
54	304.4	42/34	1.7	313.1	46/39	0.8	**317.0**	**52/45**	**0.0**	317.0	55/48	0.0	317.0	56/52
52	307.5	40/33	1.8	316.3	45/38	1.3	**322.9**	**50/44**	**0.0**	322.9	53/47	0.0	322.9	56/51
50	311.8	41/34	1.8	320.8	46/39	1.6	**328.9**	**51/45**	**0.0**	328.9	54/48	0.0	328.9	57/52
48	315.9	42/35	1.8	325.1	46/40	1.9	**334.6**	**51/45**	**0.0**	334.8	54/49	0.0	334.8	57/52
46	319.7	42/36	1.9	329.2	46/41	1.9	**338.9**	**51/46**	**0.2**	340.8	54/49	0.0	340.8	57/53
44	323.7	43/36	1.9	333.2	47/42	2.0	**343.1**	**52/47**	**0.4**	346.8	54/50	0.0	346.8	57/53
42	327.9	43/37	1.9	337.4	48/43	2.0	**347.4**	**53/48**	**0.5**	352.7	55/50	0.0	352.8	58/54
40	332.1	44/38	1.9	341.6	49/43	2.1	**351.9**	**54/49**	**0.5**	357.3	56/51	0.2	358.8	59/55
38	336.3	45/39	1.9	346.0	50/44	2.1	**356.5**	**55/50**	**0.6**	362.0	57/52	0.3	365.0	59/55
36	340.5	45/40	2.0	350.5	49/45	2.1	**361.2**	**54/50**	**0.6**	366.9	56/53	0.4	371.3	58/56
34	344.5	45/40	2.0	354.7	50/46	2.2	**365.7**	**55/51**	**0.6**	371.6	57/54	0.6	377.1	59/57
32	348.3	46/41	2.1	358.7	51/47	2.3	**370.0**	**56/52**	**0.6**	376.0	58/55	0.6	382.2	60/58
30	352.4	47/42	2.1	363.1	52/47	2.3	**374.8**	**56/53**	**0.6**	380.9	59/56	0.6	387.2	61/58
28	355.5	45/43	2.2	366.4	50/48	2.4	**378.2**	**55/53**	**0.6**	384.4	57/56	0.8	392.3	59/59
26	358.5	46/43	2.2	369.6	51/49	2.4	**381.6**	**55/54**	**0.7**	388.3	58/57	0.8	396.5	59/59
24	361.7	47/44	2.3	373.0	51/49	2.4	**385.0**	**56/55**	**0.9**	393.7	58/57	0.7	400.5	60/59
22	364.2	47/44	2.3	375.7	52/50	2.5	**388.3**	**57/55**	**0.9**	397.2	58/57	0.6	403.2	60/60
20	366.8	48/45	2.3	378.4	52/50	2.8	**392.6**	**57/55**	**0.7**	399.9	59/58	0.6	405.9	61/60
18	368.3	48/45	2.3	380.0	53/51	3.0	**395.0**	**57/55**	**0.6**	401.4	59/58	0.6	407.5	61/61
16	369.3	48/45	2.3	380.9	53/51	3.1	**396.4**	**57/56**	**0.6**	402.3	59/58	0.6	408.3	61/61
14	370.3	48/46	2.3	382.0	53/51	3.1	**397.3**	**57/56**	**0.6**	403.2	59/59	0.5	408.3	62/62
12	371.3	49/46	2.3	383.0	53/51	3.1	**398.3**	**58/56**	**0.6**	404.2	60/59	0.4	408.3	62/62
10	372.3	49/46	2.3	384.0	54/52	3.0	**399.2**	**58/56**	**0.6**	405.2	60/59	0.3	408.3	63/62
8	373.3	49/46	2.3	385.0	54/52	3.0	**400.2**	**58/57**	**0.6**	406.1	60/59	0.2	408.3	63/63
6	374.4	50/47	2.3	386.1	54/52	3.0	**401.1**	**59/57**	**0.6**	407.1	61/60	0.1	408.3	64/63
4	375.4	50/47	2.4	387.3	55/52	3.0	**402.1**	**59/57**	**0.6**	408.1	61/60	0.0	408.4	64/64
2	376.5	50/47	2.5	388.9	55/53	2.8	**403.1**	**59/58**	**0.5**	408.4	61/60	0.0	408.4	65/64
0	377.5	50/48	2.6	390.5	55/53	2.7	**404.1**	**59/58**	**0.4**	408.4	62/61	0.0	408.4	65/65

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 35R.

Beware terrain rising to 12000ft approx 30nm west of airfield.

GOOSE BAY (CYYR)

GOOSE BAY and runways 08, 16, 26, 34 authorised for enroute diversion.

Use QRH data to calculate landing performance.

ST JOHNS INTL (CYYT)

ST JOHNS INTL and runways 11, 16, 29, 34 authorised for enroute diversion.

Use QRH data to calculate landing performance.

AIRWAYS **B747-400** LANDING DATA **TORONTO**

A/D Elev **569ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INTERNATIONAL (CYYZ)**

RUNWAY	05	06L	06R	15L
Landing Distance Available	3242m / 10640ft	2956m / 9697ft	2743m / 9000ft	3318m / 10886ft
Slope	.07DN	.18UP	NIL	.12DN
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°/53°	53°	53°
25F Zero HW wt or TW (Manual)	11kt (5kt)	6kt (1kt)	2kt (276.0)	13kt (7kt)
25F Zero HW wt or TW (Autoland)	11kt (5kt)	6kt (1kt)		
25F Slippery Zero HW wt or TW (Manual)	267.0	241.0	225.0	272.0
25F Slippery Zero HW wt or TW (Autoland)	267.0	241.0		
30F Zero HW wt or TW (Manual)	11kt (5kt)	6kt (1kt)	2kt (280.8)	13kt (7kt)
30F Zero HW wt or TW (Autoland)	11kt (5kt)	6kt (1kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	266.0	248.0	280.8
30F Slippery Zero HW wt or TW (Autoland)	280.8	266.0		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Simultaneous Approaches**: Are used for ILS Rwy 05 and Rwy 06L.

BRITISH AIRWAYS **B747-400** LANDING DATA **TORONTO INTERNATIONAL (CYYZ)**

A/D Elev **569ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	15R	23	24L	24R
Landing Distance Available	2591m / 8501ft	3136m/10290ft	2712m / 8898ft	2862m / 9392ft
Slope	.08DN	.07UP	NIL	.18DN
Notes		Note 1		Note 1
WAT LIMIT °C : Man / Auto	53°	53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	282.0 (262.0)	10kt (4kt)	1kt (273.0)	6kt (0kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	209.0	255.0	223.0	235.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (280.0)	10kt (4kt)	1kt (280.8)	12kt (6kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	232.0	280.0	245.0	261.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Simultaneous Approaches**: Are used for ILS Rwys 23 &24R.

AIRWAYS **B747-400** LANDING DATA **TORONTO INTERNATIONAL (CYYZ)**

A/D Elev **569ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY (STATUS)	**33L**	**33R**		
Landing Distance Available	2587m / 8490t	3368m / 11050ft		
Slope	.08UP	.12UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	282.0 (262.0)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	209.0	276.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (280.0)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	232.0	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY H) RWY 05

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.037% DN
TOR	3284m (10774ft)	**ED**	3284m (10774ft)	**TOD**	3485m (11433ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	264.8	31/20	1.6	272.8	37/25	1.5	**280.3**	**42/31**	**0.4**	284.5	45/34	0.4	288.8	47/37
66	274.7	32/21	1.7	283.2	37/27	1.6	**291.3**	**43/32**	**0.5**	296.1	45/35	0.5	300.8	47/38
62	285.7	35/23	1.8	294.7	40/29	1.7	**303.3**	**45/35**	**0.5**	308.3	47/38	0.5	313.6	50/41
58	295.3	35/25	2.0	305.1	40/31	1.9	**314.6**	**45/37**	**0.5**	319.9	48/40	0.6	325.4	50/43
54	303.6	36/27	2.0	313.8	41/33	2.1	**324.4**	**46/39**	**0.5**	329.8	48/42	0.6	335.3	51/45
52	307.8	37/26	2.0	318.0	42/32	2.2	**328.9**	**47/38**	**0.5**	334.2	49/41	0.6	339.9	51/44
50	312.0	38/27	2.1	322.5	43/33	2.2	**333.4**	**48/39**	**0.6**	338.9	50/42	0.6	344.5	52/45
48	315.5	37/28	2.1	326.1	42/34	2.2	**337.2**	**47/40**	**0.6**	343.1	49/43	0.6	349.0	52/46
46	319.6	38/29	2.2	330.4	43/35	2.2	**341.4**	**48/40**	**0.6**	347.4	50/43	0.6	353.4	52/47
44	323.5	39/29	2.2	334.3	44/35	2.2	**345.5**	**49/41**	**0.6**	351.6	51/44	0.6	357.8	53/48
42	327.6	39/30	2.2	338.5	44/36	2.3	**349.8**	**50/42**	**0.6**	356.0	52/45	0.6	362.4	54/48
40	331.4	38/31	2.2	342.5	43/37	2.3	**354.2**	**48/43**	**0.6**	360.6	51/46	0.7	367.1	53/49
38	335.6	39/32	2.2	346.8	44/38	2.4	**358.7**	**49/44**	**0.7**	365.3	52/47	0.7	372.1	54/50
36	339.9	40/32	2.3	351.3	45/38	2.4	**363.4**	**50/44**	**0.7**	370.2	52/48	0.7	377.1	55/51
34	343.9	41/33	2.3	355.4	46/39	2.5	**367.9**	**51/45**	**0.7**	374.9	53/48	0.7	381.8	55/52
32	347.7	40/34	2.4	359.5	45/40	2.5	**372.2**	**50/46**	**0.7**	379.3	52/49	0.7	386.2	55/52
30	351.9	41/35	2.4	364.0	46/41	2.6	**377.0**	**51/47**	**0.7**	384.0	53/50	0.9	393.4	55/53
28	354.7	41/35	2.5	367.0	46/41	2.6	**380.1**	**51/47**	**0.7**	387.4	54/50	1.0	397.5	55/53
26	355.5	41/35	2.5	367.9	47/41	2.6	**381.1**	**52/47**	**0.8**	388.9	54/50	1.0	398.4	55/53
24	356.4	42/36	2.5	368.9	47/42	2.6	**382.1**	**52/48**	**0.8**	390.5	54/51	0.9	399.4	56/54
22	357.3	42/36	2.5	369.8	47/42	2.6	**383.0**	**52/48**	**0.9**	392.0	54/51	0.8	400.3	56/54
20	358.2	42/36	2.5	370.8	47/42	2.6	**384.0**	**52/48**	**1.0**	393.6	54/51	0.8	401.3	56/54
18	359.2	43/36	2.5	371.7	48/42	2.7	**385.0**	**53/49**	**1.0**	395.2	55/51	0.7	402.2	57/54
16	360.1	43/37	2.5	372.7	48/43	2.7	**386.0**	**53/49**	**1.1**	396.5	55/51	0.7	403.2	57/55
14	361.0	43/37	2.5	373.7	48/43	2.7	**387.1**	**53/49**	**1.0**	397.4	55/52	0.7	404.2	57/55
12	362.0	43/37	2.5	374.7	48/43	2.8	**388.7**	**54/49**	**1.0**	398.4	55/52	0.7	405.2	57/55
10	363.0	44/37	2.5	375.7	49/43	2.9	**390.3**	**54/49**	**0.9**	399.4	56/52	0.7	406.2	58/56
8	363.9	44/38	2.6	376.8	49/44	3.0	**392.0**	**54/50**	**0.8**	400.4	56/52	0.7	407.2	58/56
6	364.9	44/38	2.6	377.8	49/44	3.2	**393.6**	**54/50**	**0.8**	401.4	56/53	0.7	408.2	58/56
4	365.9	45/38	2.6	378.9	50/44	3.3	**395.3**	**54/50**	**0.7**	402.4	56/53	0.7	409.3	59/56
2	367.0	45/39	2.6	380.0	50/45	3.3	**396.6**	**55/50**	**0.7**	403.4	57/53	0.7	410.3	59/57
0	368.0	45/39	2.6	381.0	50/45	3.3	**397.6**	**55/50**	**0.7**	404.5	57/54	0.7	411.3	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 05.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY D) RWY 06L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.155% UP
TOR	2956m (9698ft)	**ED**	2956m (9698ft)	**TOD**	3195m (10482ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	255.3	25/13	1.7	263.7	30/19	1.6	**271.5**	**36/25**	**0.5**	276.2	39/28	0.5	281.0	41/31
66	263.8	26/14	1.8	272.7	32/20	1.8	**281.7**	**37/26**	**0.5**	286.6	39/29	0.5	291.7	42/32
62	274.1	29/17	1.9	283.5	34/22	1.9	**293.1**	**39/28**	**0.5**	298.3	42/31	0.5	303.6	44/34
58	283.4	30/19	1.9	293.1	35/25	2.1	**303.6**	**40/31**	**0.6**	309.2	42/34	0.5	314.6	44/37
54	291.2	30/21	2.0	301.2	36/26	2.2	**312.1**	**41/33**	**0.6**	317.8	43/36	0.6	323.5	45/39
52	295.1	31/20	2.0	305.2	36/25	2.2	**316.2**	**41/32**	**0.6**	322.1	44/35	0.6	327.9	46/38
50	299.2	32/21	2.1	309.5	37/26	2.2	**320.7**	**42/32**	**0.6**	326.6	45/35	0.6	332.4	47/39
48	302.4	31/21	2.1	312.8	37/27	2.3	**324.2**	**42/33**	**0.6**	330.4	44/36	0.6	336.2	46/40
46	306.2	32/22	2.1	316.8	37/28	2.3	**328.4**	**43/34**	**0.6**	334.4	45/37	0.6	340.4	47/40
44	310.1	33/23	2.1	320.8	38/29	2.3	**332.4**	**43/35**	**0.6**	338.5	46/38	0.6	344.4	48/41
42	314.0	34/23	2.2	324.8	39/29	2.3	**336.4**	**44/36**	**0.6**	342.6	46/39	0.6	348.7	49/42
40	317.4	33/24	2.2	328.6	38/30	2.4	**340.5**	**43/36**	**0.6**	346.7	45/39	0.6	353.0	48/43
38	321.5	34/25	2.2	332.7	39/31	2.4	**344.7**	**44/37**	**0.6**	351.1	46/40	0.6	357.5	49/44
36	325.6	35/26	2.3	336.9	40/32	2.4	**349.0**	**45/38**	**0.7**	355.6	47/41	0.7	362.1	49/44
34	329.6	35/26	2.3	340.9	40/32	2.5	**353.2**	**45/39**	**0.7**	359.9	48/42	0.7	366.5	50/45
32	333.2	34/27	2.3	344.7	40/33	2.5	**357.1**	**45/39**	**0.7**	364.0	47/42	0.7	370.8	49/46
30	337.3	35/28	2.3	348.8	40/34	2.5	**361.5**	**45/40**	**0.7**	368.6	48/43	0.7	375.5	50/47
28	339.9	36/28	2.3	351.5	41/34	2.6	**364.5**	**46/41**	**0.7**	371.6	48/44	0.7	378.7	51/47
26	340.8	36/28	2.3	352.4	41/34	2.6	**365.4**	**46/41**	**0.7**	372.6	49/44	0.7	379.7	51/47
24	341.6	36/29	2.3	353.3	41/35	2.6	**366.3**	**47/41**	**0.7**	373.5	49/44	0.7	380.6	51/48
22	342.5	36/29	2.3	354.2	42/35	2.6	**367.3**	**47/41**	**0.7**	374.5	49/45	0.7	381.6	51/48
20	343.3	37/29	2.4	355.1	42/35	2.6	**368.3**	**47/42**	**0.7**	375.5	49/45	0.7	382.6	52/48
18	344.2	37/29	2.4	356.0	42/35	2.7	**369.3**	**47/42**	**0.7**	376.5	50/45	0.7	383.6	52/48
16	345.1	37/30	2.4	356.9	42/36	2.7	**370.3**	**48/42**	**0.7**	377.5	50/45	0.7	384.6	52/49
14	346.0	37/30	2.4	357.9	43/36	2.7	**371.3**	**48/42**	**0.7**	378.6	50/46	0.7	385.7	53/49
12	346.9	38/30	2.4	358.8	43/36	2.7	**372.3**	**48/43**	**0.7**	379.6	51/46	0.7	386.7	53/49
10	347.8	38/30	2.4	359.8	43/37	2.7	**373.3**	**48/43**	**0.7**	380.7	51/46	0.8	388.3	53/50
8	348.8	38/31	2.4	360.8	44/37	2.7	**374.3**	**49/43**	**0.7**	381.7	51/46	0.8	390.0	53/50
6	349.7	39/31	2.4	361.8	44/37	2.7	**375.4**	**49/44**	**0.7**	382.8	51/47	0.9	391.7	53/50
4	350.6	39/31	2.4	362.8	44/37	2.7	**376.5**	**49/44**	**0.7**	383.8	52/47	1.0	393.4	54/50
2	351.6	39/31	2.4	363.8	44/38	2.7	**377.5**	**50/44**	**0.7**	384.9	52/47	1.0	395.2	54/50
0	352.6	39/32	2.4	364.8	45/38	2.8	**378.6**	**50/44**	**0.7**	386.0	52/48	1.1	396.5	54/50

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 06L.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY D) RWY 06R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.244% UP
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	3043m (9983ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	247.3	21/11	1.8	256.1	26/15	1.8	**265.2**	**32/20**	**0.5**	270.5	34/23	0.5	275.8	37/26
66	255.7	22/11	1.8	264.7	27/16	1.9	**274.2**	**33/22**	**0.6**	279.9	35/25	0.6	285.5	38/28
62	265.3	25/13	1.9	274.8	30/18	2.0	**284.9**	**35/24**	**0.6**	290.8	38/27	0.6	296.6	40/30
58	274.6	26/15	2.0	284.6	31/20	2.1	**295.1**	**36/26**	**0.6**	301.2	38/29	0.6	307.3	41/33
54	282.4	27/16	2.0	292.6	32/22	2.2	**303.6**	**37/28**	**0.6**	309.5	39/31	0.6	315.6	42/34
52	286.1	27/15	2.1	296.4	33/21	2.2	**307.6**	**38/27**	**0.6**	313.6	40/30	0.6	319.9	42/34
50	290.0	28/16	2.1	300.5	33/22	2.3	**311.8**	**39/28**	**0.6**	317.9	41/31	0.6	324.2	43/34
48	293.0	28/17	2.1	303.5	33/23	2.3	**315.0**	**38/29**	**0.6**	321.3	40/32	0.6	327.7	43/35
46	296.6	28/18	2.1	307.3	34/23	2.3	**319.0**	**39/30**	**0.6**	325.3	41/33	0.6	331.7	44/36
44	300.2	29/18	2.2	311.1	34/24	2.3	**322.8**	**40/30**	**0.6**	329.2	42/34	0.6	335.6	44/37
42	303.9	30/19	2.2	314.9	35/25	2.4	**326.8**	**40/31**	**0.6**	333.2	43/34	0.7	339.7	45/38
40	306.9	29/20	2.3	318.3	34/26	2.5	**330.6**	**40/32**	**0.6**	337.0	42/35	0.7	343.6	44/38
38	310.8	30/20	2.3	322.3	35/26	2.5	**334.6**	**40/33**	**0.7**	341.2	43/36	0.7	347.8	45/39
36	314.8	31/21	2.3	326.4	36/27	2.5	**338.8**	**41/34**	**0.7**	345.3	43/37	0.7	352.1	46/40
34	318.6	32/22	2.4	330.4	37/28	2.5	**342.7**	**42/34**	**0.7**	349.3	44/37	0.7	356.2	47/41
32	322.1	31/23	2.4	333.9	36/29	2.5	**346.4**	**41/35**	**0.7**	353.2	43/38	0.7	360.2	46/41
30	326.1	31/23	2.4	337.9	37/29	2.5	**350.5**	**42/36**	**0.7**	357.4	44/39	0.7	364.6	47/42
28	328.7	32/24	2.4	340.6	37/30	2.5	**353.2**	**42/36**	**0.7**	360.2	45/39	0.7	367.6	47/43
26	329.6	32/24	2.4	341.4	37/30	2.6	**354.2**	**43/36**	**0.7**	361.2	45/40	0.7	368.6	47/43
24	330.5	32/24	2.4	342.3	38/30	2.6	**355.1**	**43/37**	**0.7**	362.2	45/40	0.7	369.6	48/43
22	331.3	33/24	2.4	343.2	38/30	2.6	**356.0**	**43/37**	**0.7**	363.1	46/40	0.8	370.6	48/44
20	332.2	33/25	2.4	344.1	38/31	2.6	**357.0**	**43/37**	**0.7**	364.1	46/40	0.8	371.6	48/44
18	333.1	33/25	2.4	345.0	38/31	2.6	**358.0**	**44/37**	**0.7**	365.2	46/41	0.8	372.7	49/44
16	334.0	33/25	2.4	345.9	39/31	2.6	**359.0**	**44/38**	**0.7**	366.2	46/41	0.8	373.7	49/44
14	334.9	34/25	2.4	346.9	39/31	2.6	**360.0**	**44/38**	**0.7**	367.2	47/41	0.8	374.8	49/45
12	335.8	34/26	2.4	347.8	39/32	2.6	**361.0**	**45/38**	**0.7**	368.3	47/42	0.8	375.9	49/45
10	336.8	34/26	2.4	348.8	40/32	2.6	**362.0**	**45/38**	**0.7**	369.4	47/42	0.8	377.0	50/45
8	337.7	35/26	2.4	349.8	40/32	2.6	**363.0**	**45/39**	**0.7**	370.4	47/42	0.8	378.1	50/45
6	338.7	35/26	2.4	350.8	40/32	2.7	**364.1**	**45/39**	**0.7**	371.5	48/42	0.8	379.3	50/46
4	339.7	35/27	2.4	351.8	40/33	2.7	**365.2**	**46/39**	**0.7**	372.6	48/43	0.8	380.4	50/46
2	340.6	35/27	2.4	352.8	41/33	2.7	**366.3**	**46/40**	**0.8**	373.8	48/43	0.8	381.6	51/46
0	341.6	36/27	2.4	353.8	41/33	2.7	**367.4**	**46/40**	**0.8**	374.9	49/43	0.8	382.7	51/46

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 06R.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY J) RWY 15L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.119% DN
TOR	3318m (10885ft)	**ED**	3318m (10885ft)	**TOD**	3668m (12034ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.6	31/20	1.8	280.8	36/25	1.7	**289.1**	**41/30**	**0.3**	292.4	44/33	0.1	293.0	47/37
66	281.1	32/21	1.9	290.8	36/26	2.0	**300.6**	**41/32**	**0.5**	305.8	44/35	0.3	309.2	46/38
62	292.1	34/23	2.0	302.1	39/29	2.0	**312.3**	**44/34**	**0.6**	318.2	46/37	0.5	323.4	48/40
58	302.2	35/25	2.0	312.3	39/31	2.2	**323.2**	**44/37**	**0.6**	329.1	46/40	0.6	334.7	48/43
54	310.4	35/27	2.1	320.9	40/33	2.2	**332.1**	**45/39**	**0.6**	338.0	47/42	0.6	343.8	49/45
52	314.5	36/26	2.1	325.1	41/32	2.2	**336.3**	**46/38**	**0.6**	342.2	48/41	0.6	348.2	50/44
50	318.8	37/27	2.2	329.6	42/33	2.2	**340.8**	**47/39**	**0.6**	346.7	49/41	0.6	352.8	51/45
48	322.2	36/28	2.2	333.1	41/34	2.3	**344.7**	**46/39**	**0.6**	350.9	49/42	0.6	357.1	51/46
46	326.3	37/29	2.2	337.1	42/34	2.3	**348.8**	**47/40**	**0.6**	355.1	49/43	0.7	361.6	52/46
44	330.2	38/30	2.2	341.1	43/35	2.4	**352.9**	**48/41**	**0.7**	359.4	50/44	0.7	366.0	52/47
42	334.2	39/30	2.2	345.1	44/36	2.4	**357.2**	**49/42**	**0.7**	363.8	51/45	0.7	370.6	53/48
40	338.0	38/31	2.2	349.2	43/37	2.5	**361.6**	**48/43**	**0.7**	368.4	50/46	0.7	375.4	52/49
38	342.1	39/32	2.3	353.5	44/38	2.5	**366.2**	**48/43**	**0.7**	373.2	51/46	0.7	380.3	53/50
36	346.3	39/33	2.3	357.9	44/38	2.6	**371.0**	**49/44**	**0.7**	378.1	52/47	0.7	385.2	54/51
34	350.3	40/33	2.4	362.2	45/39	2.7	**375.5**	**50/45**	**0.7**	382.7	52/48	0.9	391.9	54/51
32	354.2	39/34	2.4	366.4	44/40	2.7	**380.0**	**49/46**	**0.7**	387.3	52/49	1.1	398.0	53/51
30	358.5	40/35	2.5	370.9	45/41	2.8	**384.7**	**50/47**	**1.1**	395.5	52/49	0.7	402.6	54/52
28	361.3	41/35	2.5	373.9	46/41	2.9	**388.4**	**51/47**	**1.0**	398.7	52/49	0.7	405.7	54/53
26	362.3	41/35	2.5	375.0	46/41	3.0	**390.2**	**51/47**	**1.0**	399.8	52/50	0.7	406.7	55/53
24	363.3	41/36	2.5	376.0	46/42	3.2	**392.0**	**51/47**	**0.9**	400.8	53/50	0.7	407.8	55/53
22	364.2	41/36	2.6	377.1	46/42	3.3	**393.8**	**51/47**	**0.8**	401.8	53/50	0.7	408.9	55/53
20	365.2	42/36	2.6	378.1	47/42	3.5	**395.7**	**51/47**	**0.7**	402.8	53/50	0.7	409.9	55/54
18	366.3	42/36	2.6	379.2	47/42	3.5	**396.9**	**51/48**	**0.7**	403.9	53/51	0.7	411.0	56/54
16	367.3	42/37	2.6	380.3	47/43	3.5	**397.9**	**52/48**	**0.7**	405.0	54/51	0.7	412.1	56/54
14	368.4	42/37	2.6	381.4	47/43	3.5	**399.0**	**52/48**	**0.7**	406.0	54/51	0.7	413.1	56/55
12	369.4	43/37	2.6	382.5	48/43	3.5	**400.1**	**52/48**	**0.7**	407.1	54/51	0.7	414.3	56/55
10	370.5	43/37	2.6	383.6	48/43	3.5	**401.2**	**52/49**	**0.7**	408.3	55/52	0.7	415.4	57/55
8	371.6	43/38	2.6	384.7	48/44	3.5	**402.2**	**53/49**	**0.7**	409.4	55/52	0.7	416.5	57/55
6	372.7	44/38	2.6	385.8	49/44	3.5	**403.4**	**53/49**	**0.7**	410.5	55/52	0.7	417.7	57/56
4	373.8	44/38	2.7	387.1	49/44	3.5	**404.5**	**53/49**	**0.7**	411.7	55/53	0.7	418.9	58/56
2	374.9	44/38	2.8	389.0	49/44	3.3	**405.6**	**53/50**	**0.7**	412.8	56/53	0.7	420.1	58/56
0	376.1	44/39	3.0	391.0	49/44	3.2	**406.8**	**54/50**	**0.7**	414.0	56/53	0.7	421.2	58/56

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 15L.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY J) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.088% DN
TOR	2770m (9087ft)	**ED**	2770m (9087ft)	**TOD**	3070m (10072ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	249.6	22/11	1.7	258.1	28/15	1.5	**265.8**	**33/21**	**0.5**	270.5	36/24	0.5	275.1	39/28
66	258.1	23/11	1.8	266.9	29/17	1.7	**275.6**	**34/23**	**0.5**	280.6	37/26	0.5	285.6	39/29
62	268.0	26/14	1.9	277.4	31/19	1.9	**286.7**	**37/25**	**0.5**	292.0	39/28	0.5	297.3	42/31
58	277.1	27/16	1.9	286.8	32/21	2.1	**297.1**	**37/27**	**0.6**	302.6	40/30	0.6	308.3	42/34
54	284.8	28/17	2.0	294.7	33/23	2.1	**305.4**	**38/29**	**0.6**	311.1	40/32	0.6	316.9	43/35
52	288.6	28/16	2.0	298.7	34/22	2.2	**309.5**	**39/28**	**0.6**	315.3	41/31	0.6	321.2	44/35
50	292.6	29/17	2.1	302.9	34/23	2.2	**313.8**	**40/29**	**0.6**	319.7	42/32	0.6	325.7	44/35
48	295.7	29/18	2.1	306.1	34/24	2.2	**317.2**	**39/30**	**0.6**	323.2	41/33	0.6	329.4	44/36
46	299.5	29/19	2.1	310.1	35/24	2.2	**321.3**	**40/31**	**0.6**	327.4	42/34	0.6	333.5	45/37
44	303.1	30/19	2.2	313.9	35/25	2.3	**325.3**	**41/31**	**0.6**	331.4	43/35	0.6	337.5	45/38
42	307.0	31/20	2.2	317.9	36/26	2.3	**329.4**	**42/32**	**0.6**	335.5	44/35	0.6	341.7	46/39
40	310.2	30/21	2.2	321.4	35/27	2.4	**333.2**	**41/33**	**0.6**	339.5	43/36	0.6	345.8	45/39
38	314.2	31/21	2.3	325.5	36/27	2.4	**337.4**	**41/34**	**0.6**	343.7	44/37	0.7	350.2	46/40
36	318.3	32/22	2.3	329.8	37/28	2.4	**341.7**	**42/34**	**0.6**	348.0	44/38	0.7	354.6	47/41
34	322.2	32/23	2.3	333.7	38/29	2.4	**345.7**	**43/35**	**0.7**	352.2	45/38	0.7	358.9	48/42
32	325.8	31/23	2.3	337.4	37/29	2.4	**349.6**	**42/36**	**0.7**	356.1	44/39	0.7	363.0	47/42
30	329.9	32/24	2.3	341.4	38/30	2.5	**353.8**	**43/37**	**0.7**	360.5	45/40	0.7	367.5	48/43
28	332.4	33/25	2.3	344.1	38/31	2.5	**356.6**	**43/37**	**0.7**	363.4	46/40	0.7	370.6	48/44
26	333.3	33/25	2.3	344.9	38/31	2.5	**357.5**	**44/37**	**0.7**	364.4	46/41	0.7	371.5	48/44
24	334.1	33/25	2.3	345.8	39/31	2.5	**358.4**	**44/38**	**0.7**	365.3	46/41	0.7	372.5	49/44
22	334.9	33/25	2.4	346.7	39/31	2.5	**359.3**	**44/38**	**0.7**	366.2	47/41	0.7	373.5	49/44
20	335.8	34/26	2.3	347.5	39/32	2.5	**360.2**	**44/38**	**0.7**	367.2	47/41	0.7	374.4	49/45
18	336.6	34/26	2.4	348.4	39/32	2.6	**361.2**	**45/38**	**0.7**	368.2	47/42	0.7	375.4	49/45
16	337.5	34/26	2.4	349.4	40/32	2.5	**362.1**	**45/39**	**0.7**	369.2	47/42	0.7	376.5	50/45
14	338.4	35/26	2.4	350.3	40/32	2.6	**363.1**	**45/39**	**0.7**	370.2	48/42	0.7	377.5	50/46
12	339.3	35/27	2.4	351.2	40/33	2.6	**364.0**	**46/39**	**0.7**	371.2	48/42	0.7	378.5	50/46
10	340.2	35/27	2.4	352.1	40/33	2.6	**365.0**	**46/39**	**0.7**	372.2	48/43	0.7	379.6	51/46
8	341.1	35/27	2.4	353.0	41/33	2.6	**366.0**	**46/40**	**0.7**	373.2	49/43	0.7	380.6	51/46
6	342.0	36/27	2.4	354.0	41/33	2.6	**367.0**	**46/40**	**0.7**	374.2	49/43	0.7	381.6	51/47
4	342.9	36/28	2.4	354.9	41/34	2.6	**368.1**	**47/40**	**0.7**	375.3	49/44	0.7	382.7	52/47
2	343.9	36/28	2.4	355.9	42/34	2.6	**369.1**	**47/41**	**0.7**	376.4	49/44	0.7	383.8	52/47
0	344.8	36/28	2.4	356.9	42/34	2.6	**370.1**	**47/41**	**0.7**	377.4	50/44	0.8	384.9	52/48

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 15R.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY Q) RWY 23

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.065% UP
TOR	3284m (10774ft)	**ED**	3284m (10774ft)	**TOD**	3689m (12103ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	267.8	31/19	1.5	275.4	36/25	1.5	**282.7**	**42/30**	**0.4**	286.8	44/33	0.4	291.1	47/37
66	277.4	31/21	1.8	286.2	36/26	1.6	**294.2**	**42/32**	**0.5**	298.7	44/35	0.5	303.2	46/38
62	288.8	34/23	1.8	298.0	39/28	1.7	**306.7**	**44/34**	**0.5**	311.3	47/37	0.5	316.1	49/40
58	298.9	34/25	1.9	308.3	39/31	1.9	**318.0**	**44/36**	**0.5**	323.2	47/39	0.5	328.4	49/43
54	307.5	35/27	1.9	317.2	40/32	2.0	**327.4**	**45/38**	**0.5**	332.8	47/41	0.5	338.1	50/45
52	311.7	36/26	2.0	321.6	41/31	2.1	**331.9**	**46/37**	**0.5**	337.3	48/40	0.5	342.7	50/44
50	316.0	37/27	2.0	326.2	42/32	2.1	**336.5**	**47/38**	**0.6**	342.0	49/41	0.5	347.4	51/45
48	319.4	36/27	2.1	330.1	41/33	2.1	**340.7**	**46/39**	**0.6**	346.2	49/42	0.6	351.9	51/45
46	323.4	37/28	2.2	334.3	42/34	2.1	**345.0**	**47/40**	**0.6**	350.7	49/43	0.6	356.5	52/46
44	327.3	38/29	2.2	338.3	43/35	2.2	**349.2**	**48/41**	**0.6**	355.1	50/44	0.6	361.0	52/47
42	331.3	38/30	2.2	342.4	43/35	2.3	**353.7**	**48/41**	**0.6**	359.7	51/44	0.6	365.8	53/48
40	335.0	38/30	2.3	346.4	42/36	2.4	**358.2**	**47/42**	**0.6**	364.4	50/45	0.6	370.7	52/49
38	339.2	38/31	2.3	350.6	43/37	2.5	**363.0**	**48/43**	**0.6**	369.4	50/46	0.7	375.9	53/49
36	343.3	39/32	2.3	355.0	44/38	2.6	**367.8**	**49/44**	**0.7**	374.5	51/47	0.7	381.1	53/50
34	347.3	40/33	2.4	359.2	45/38	2.6	**372.3**	**50/44**	**0.7**	379.3	52/47	0.7	385.9	54/51
32	351.1	39/33	2.4	363.2	44/39	2.7	**376.7**	**49/45**	**0.7**	383.9	51/48	0.8	392.3	53/51
30	355.3	40/34	2.5	367.7	45/40	2.7	**381.4**	**50/46**	**0.8**	389.8	52/49	0.9	398.4	54/52
28	358.1	40/35	2.5	370.7	45/40	2.8	**384.5**	**50/46**	**1.0**	394.6	52/49	0.7	401.5	54/52
26	359.0	40/35	2.5	371.7	46/41	2.8	**385.5**	**51/47**	**1.1**	396.0	52/49	0.6	402.4	54/53
24	360.0	41/35	2.6	372.8	46/41	2.8	**386.6**	**51/47**	**1.0**	396.9	53/49	0.6	403.3	55/53
22	361.0	41/35	2.6	373.8	46/41	2.9	**388.2**	**51/47**	**1.0**	397.8	53/50	0.6	404.2	55/53
20	362.0	41/36	2.6	374.8	46/41	3.0	**390.0**	**51/47**	**0.9**	398.6	53/50	0.7	405.1	55/53
18	363.0	42/36	2.6	375.9	47/42	3.1	**391.4**	**51/47**	**0.8**	399.6	53/50	0.6	406.0	56/54
16	364.0	42/36	2.6	377.0	47/42	3.2	**392.8**	**52/48**	**0.8**	400.5	54/50	0.6	406.9	56/54
14	365.0	42/36	2.6	378.1	47/42	3.2	**394.2**	**52/48**	**0.7**	401.4	54/51	0.7	407.9	56/54
12	366.0	42/37	2.6	379.2	47/42	3.3	**395.7**	**52/48**	**0.7**	402.3	54/51	0.7	408.8	57/55
10	367.1	43/37	2.6	380.3	48/43	3.3	**396.7**	**52/48**	**0.7**	403.2	55/51	0.7	409.7	57/55
8	368.2	43/37	2.6	381.4	48/43	3.2	**397.6**	**52/49**	**0.7**	404.2	55/52	0.7	410.7	57/55
6	369.3	43/37	2.6	382.5	48/43	3.2	**398.6**	**53/49**	**0.7**	405.1	55/52	0.7	411.6	58/55
4	370.4	43/38	2.7	383.7	48/43	3.2	**399.5**	**53/49**	**0.7**	406.1	56/52	0.7	412.6	58/56
2	371.5	44/38	2.7	384.8	49/44	3.1	**400.5**	**53/49**	**0.7**	407.0	56/53	0.7	413.5	58/56
0	372.6	44/38	2.6	385.8	49/44	3.1	**401.5**	**54/50**	**0.7**	408.0	56/53	0.7	414.5	58/56

P/C above 1013 + 0.2
P/C below 1013 - 0.6

Min Acceleration Height 1200ft

PERFORMANCE RESTRICTIONS - Rwy 23.

START POINT - Full length should only be used when planned take-off weight requires its use otherwise use intersection TWY H **FOR CARD AIRCRAFT SEE ADDITIONAL RWY DATA**. If full length is required permission must be requested from ATC upon initial contact.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY D7) RWY 24L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.247% DN
TOR	2712m (8897ft)	**ED**	2712m (8897ft)	**TOD**	3043m (9983ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	248.8	21/11	1.8	257.6	26/14	1.8	**266.6**	**32/20**	**0.5**	271.8	34/23	0.5	277.2	37/26
66	257.2	22/11	1.8	266.3	27/15	1.9	**275.7**	**33/21**	**0.6**	281.3	35/24	0.6	286.9	37/27
62	266.8	24/12	1.9	276.4	30/18	2.0	**286.4**	**35/24**	**0.6**	292.3	37/27	0.6	298.2	40/30
58	276.2	26/14	2.0	286.3	31/20	2.1	**296.7**	**36/26**	**0.6**	302.7	38/29	0.6	308.8	40/32
54	284.0	26/16	2.0	294.2	31/22	2.2	**305.1**	**37/28**	**0.6**	311.1	39/31	0.6	317.2	41/34
52	287.7	27/15	2.1	298.1	32/21	2.2	**309.2**	**37/27**	**0.6**	315.2	40/30	0.6	321.4	42/33
50	291.6	28/16	2.1	302.1	33/21	2.3	**313.4**	**38/28**	**0.6**	319.5	41/31	0.6	325.7	43/34
48	294.6	27/17	2.1	305.2	33/22	2.3	**316.7**	**38/28**	**0.6**	322.9	40/32	0.6	329.3	43/35
46	298.3	28/17	2.2	309.1	33/23	2.3	**320.7**	**39/29**	**0.6**	326.9	41/32	0.6	333.3	43/36
44	301.9	29/18	2.2	312.8	34/24	2.3	**324.5**	**39/30**	**0.6**	330.9	42/33	0.6	337.2	44/36
42	305.6	30/19	2.2	316.7	35/24	2.4	**328.6**	**40/31**	**0.6**	334.8	43/34	0.7	341.3	45/37
40	308.7	29/19	2.3	320.1	34/25	2.4	**332.2**	**39/32**	**0.7**	338.7	42/35	0.7	345.2	44/38
38	312.6	30/20	2.3	324.1	35/26	2.4	**336.3**	**40/32**	**0.7**	342.8	42/35	0.7	349.5	45/39
36	316.6	31/21	2.3	328.3	36/27	2.4	**340.5**	**41/33**	**0.7**	347.0	43/36	0.7	353.8	46/39
34	320.5	31/21	2.3	332.2	36/27	2.4	**344.4**	**42/34**	**0.7**	351.1	44/37	0.7	358.0	46/40
32	324.0	30/22	2.4	335.8	36/28	2.5	**348.2**	**41/34**	**0.7**	354.9	43/38	0.7	362.0	46/41
30	328.0	31/23	2.4	339.8	36/29	2.5	**352.3**	**42/35**	**0.7**	359.2	44/38	0.7	366.5	46/42
28	330.6	32/23	2.4	342.4	37/29	2.5	**355.1**	**42/36**	**0.7**	362.1	44/39	0.7	369.4	47/42
26	331.4	32/23	2.4	343.3	37/29	2.5	**356.0**	**42/36**	**0.7**	363.0	45/39	0.8	370.5	47/43
24	332.3	32/24	2.4	344.2	37/30	2.5	**356.9**	**43/36**	**0.7**	364.0	45/39	0.8	371.5	47/43
22	333.2	32/24	2.4	345.1	38/30	2.6	**357.9**	**43/36**	**0.7**	365.0	45/40	0.8	372.5	48/43
20	334.1	33/24	2.4	346.0	38/30	2.6	**358.9**	**43/37**	**0.7**	366.0	46/40	0.8	373.5	48/43
18	335.0	33/24	2.4	346.9	38/30	2.6	**359.9**	**43/37**	**0.7**	367.1	46/40	0.8	374.6	48/44
16	335.9	33/25	2.4	347.9	38/31	2.6	**360.9**	**44/37**	**0.7**	368.1	46/40	0.8	375.7	48/44
14	336.8	33/25	2.4	348.8	39/31	2.6	**361.9**	**44/37**	**0.7**	369.2	46/41	0.8	376.7	49/44
12	337.7	34/25	2.4	349.8	39/31	2.6	**362.9**	**44/38**	**0.7**	370.2	47/41	0.8	377.8	49/44
10	338.7	34/25	2.4	350.7	39/31	2.6	**363.9**	**45/38**	**0.7**	371.3	47/41	0.8	379.0	49/45
8	339.7	34/26	2.4	351.7	39/32	2.7	**365.0**	**45/38**	**0.7**	372.4	47/42	0.8	380.1	50/45
6	340.6	34/26	2.4	352.7	40/32	2.7	**366.1**	**45/39**	**0.7**	373.5	47/42	0.8	381.2	50/45
4	341.5	35/26	2.4	353.7	40/32	2.7	**367.1**	**45/39**	**0.8**	374.6	48/42	0.8	382.3	50/45
2	342.5	35/26	2.4	354.7	40/32	2.7	**368.2**	**46/39**	**0.8**	375.7	48/42	0.8	383.5	50/46
0	343.5	35/27	2.5	355.8	41/33	2.7	**369.4**	**46/39**	**0.8**	376.9	48/43	0.8	384.6	51/46

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 24L.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY D) RWY 24R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.156% DN
TOR	2922m (9586ft)	**ED**	2922m (9586ft)	**TOD**	3255m (10679ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	256.9	24/13	1.8	265.7	30/18	1.8	**274.9**	**35/24**	**0.5**	280.2	38/27	0.6	285.8	40/30
66	265.6	26/14	1.8	274.8	31/20	2.0	**284.6**	**36/25**	**0.6**	290.2	38/28	0.6	295.9	40/31
62	275.7	28/16	2.0	285.5	33/22	2.0	**295.7**	**38/28**	**0.6**	301.5	41/31	0.6	307.5	43/34
58	285.5	29/18	2.0	295.6	34/24	2.1	**306.3**	**39/30**	**0.6**	312.3	41/33	0.6	318.2	43/36
54	293.4	30/20	2.0	303.6	35/26	2.2	**314.8**	**40/32**	**0.6**	320.9	42/35	0.6	326.9	44/38
52	297.2	31/19	2.1	307.6	36/25	2.3	**319.0**	**41/31**	**0.6**	325.1	43/34	0.6	331.2	45/37
50	301.3	31/20	2.1	311.8	37/26	2.3	**323.3**	**42/32**	**0.6**	329.6	44/35	0.6	335.5	46/38
48	304.4	31/21	2.1	315.1	36/26	2.3	**326.8**	**41/33**	**0.6**	333.1	43/36	0.6	339.3	46/39
46	308.2	32/21	2.2	319.1	37/27	2.4	**330.9**	**42/33**	**0.6**	337.2	44/36	0.6	343.4	46/40
44	312.0	32/22	2.2	322.9	38/28	2.4	**334.8**	**43/34**	**0.6**	341.1	45/37	0.6	347.4	47/40
42	315.8	33/23	2.2	326.9	38/29	2.4	**338.8**	**43/35**	**0.6**	345.2	46/38	0.6	351.6	48/41
40	319.2	32/24	2.3	330.6	38/29	2.4	**342.7**	**42/36**	**0.7**	349.3	45/39	0.7	355.8	47/42
38	323.2	33/24	2.3	334.7	38/30	2.4	**346.9**	**43/36**	**0.7**	353.6	46/39	0.7	360.3	48/43
36	327.4	34/25	2.3	338.8	39/31	2.5	**351.2**	**44/37**	**0.7**	358.0	46/40	0.7	364.9	49/44
34	331.3	35/26	2.3	342.7	40/32	2.5	**355.3**	**45/38**	**0.7**	362.2	47/41	0.7	369.3	49/44
32	334.9	34/26	2.3	346.5	39/32	2.6	**359.3**	**44/39**	**0.7**	366.4	46/42	0.7	373.6	49/45
30	338.9	35/27	2.3	350.6	40/33	2.6	**363.7**	**45/39**	**0.7**	371.0	47/43	0.7	378.3	49/46
28	341.5	35/28	2.4	353.3	40/34	2.7	**366.6**	**45/40**	**0.7**	374.0	48/43	0.7	381.4	50/46
26	342.4	35/28	2.4	354.2	41/34	2.7	**367.6**	**46/40**	**0.7**	375.0	48/43	0.7	382.4	50/47
24	343.3	36/28	2.4	355.2	41/34	2.7	**368.6**	**46/40**	**0.7**	376.0	48/44	0.7	383.4	50/47
22	344.2	36/28	2.4	356.1	41/34	2.7	**369.6**	**46/41**	**0.8**	377.1	48/44	0.7	384.5	51/47
20	345.1	36/28	2.4	357.1	41/35	2.7	**370.7**	**46/41**	**0.8**	378.2	49/44	0.7	385.6	51/47
18	346.0	36/29	2.4	358.1	42/35	2.7	**371.7**	**47/41**	**0.8**	379.2	49/44	0.8	386.7	51/48
16	346.9	37/29	2.4	359.1	42/35	2.7	**372.7**	**47/41**	**0.8**	380.3	49/45	0.8	388.4	51/48
14	347.9	37/29	2.4	360.1	42/35	2.7	**373.8**	**47/42**	**0.8**	381.4	49/45	0.9	390.2	52/48
12	348.8	37/29	2.5	361.1	42/36	2.8	**374.9**	**47/42**	**0.8**	382.5	50/45	1.0	392.1	52/48
10	349.8	37/30	2.5	362.1	43/36	2.8	**376.0**	**48/42**	**0.8**	383.6	50/45	1.1	394.1	52/48
8	350.8	38/30	2.5	363.1	43/36	2.8	**377.1**	**48/42**	**0.8**	384.7	50/46	1.1	396.0	52/48
6	351.8	38/30	2.5	364.2	43/36	2.8	**378.2**	**48/43**	**0.8**	385.9	51/46	1.1	397.1	52/49
4	352.8	38/30	2.5	365.3	43/37	2.8	**379.4**	**49/43**	**0.8**	387.1	51/46	1.1	398.2	52/49
2	353.8	38/31	2.5	366.4	44/37	2.8	**380.6**	**49/43**	**0.9**	389.1	51/46	1.0	399.4	53/49
0	354.8	39/31	2.5	367.5	44/37	2.8	**381.7**	**49/44**	**0.9**	391.1	51/46	0.9	400.5	53/49

P/C above 1013 + 0.1
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 24R.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY F3) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.066% UP
TOR	2767m (9078ft)	**ED**	2767m (9078ft)	**TOD**	3070m (10072ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	243.2	20/11	1.6	251.2	25/13	1.4	**258.4**	**31/19**	**0.4**	262.7	34/22	0.4	267.0	37/25
66	252.3	21/11	1.6	260.5	26/14	1.6	**268.6**	**32/20**	**0.5**	273.2	35/24	0.5	277.8	37/27
62	262.2	23/11	1.8	271.0	29/17	1.8	**279.9**	**35/23**	**0.5**	284.7	37/26	0.5	289.6	40/29
58	271.3	24/13	1.8	280.5	30/19	2.0	**290.4**	**35/25**	**0.5**	295.7	37/28	0.5	300.8	40/31
54	278.9	25/14	1.9	288.4	30/20	2.1	**298.9**	**36/26**	**0.5**	304.3	38/30	0.6	309.9	41/33
52	282.6	26/14	1.9	292.3	31/19	2.1	**303.0**	**37/26**	**0.6**	308.6	39/29	0.6	314.2	42/32
50	286.4	27/14	2.0	296.4	32/20	2.2	**307.3**	**37/26**	**0.6**	313.0	40/30	0.6	318.8	42/33
48	289.3	26/15	2.1	299.7	31/21	2.2	**310.7**	**37/27**	**0.6**	316.6	39/30	0.6	322.5	42/34
46	292.9	27/16	2.1	303.4	32/22	2.3	**314.7**	**38/28**	**0.6**	320.7	40/31	0.6	326.8	43/34
44	296.4	28/16	2.1	307.0	33/22	2.3	**318.6**	**38/29**	**0.6**	324.7	41/32	0.6	330.9	43/35
42	300.1	29/17	2.2	310.9	34/23	2.4	**322.7**	**39/29**	**0.6**	328.9	42/33	0.6	335.1	44/36
40	303.0	28/18	2.2	314.1	33/24	2.5	**326.4**	**38/30**	**0.6**	332.7	41/33	0.6	339.1	43/37
38	306.8	29/19	2.3	318.1	34/25	2.5	**330.6**	**39/31**	**0.6**	336.9	41/34	0.7	343.4	44/37
36	310.8	29/19	2.3	322.2	35/25	2.5	**334.7**	**40/32**	**0.7**	341.3	42/35	0.7	347.8	45/38
34	307.7	30/21	3.7	326.0	35/26	2.5	**338.6**	**41/32**	**0.7**	345.2	43/36	0.7	351.9	45/39
32	307.7	29/22	4.4	329.7	35/27	2.5	**342.3**	**40/33**	**0.7**	349.0	42/36	0.7	355.9	45/40
30	306.8	30/23	5.4	333.6	35/27	2.5	**346.3**	**41/34**	**0.7**	353.2	43/37	0.7	360.4	45/40
28	308.4	31/23	5.6	336.2	36/28	2.6	**349.0**	**41/34**	**0.7**	355.9	43/38	0.7	363.2	46/41
26	310.8	31/23	5.3	337.1	36/28	2.6	**349.9**	**41/35**	**0.7**	356.8	44/38	0.7	364.2	46/41
24	314.0	31/23	4.8	338.0	36/28	2.6	**350.8**	**42/35**	**0.7**	357.8	44/38	0.7	365.1	47/41
22	317.2	31/23	4.3	338.9	37/29	2.6	**351.7**	**42/35**	**0.7**	358.8	44/38	0.7	366.0	47/42
20	328.0	32/23	2.4	339.8	37/29	2.6	**352.7**	**42/35**	**0.7**	359.7	44/39	0.7	366.9	47/42
18	329.0	32/23	2.3	340.7	37/29	2.6	**353.6**	**42/36**	**0.7**	360.7	45/39	0.7	367.9	47/42
16	329.9	32/23	2.3	341.6	37/29	2.6	**354.6**	**43/36**	**0.7**	361.6	45/39	0.7	368.8	48/43
14	330.8	32/23	2.3	342.5	38/30	2.6	**355.6**	**43/36**	**0.7**	362.6	45/39	0.7	369.8	48/43
12	331.7	33/24	2.3	343.4	38/30	2.6	**356.5**	**43/36**	**0.7**	363.5	46/40	0.7	370.8	48/43
10	332.6	33/24	2.4	344.4	38/30	2.6	**357.5**	**43/37**	**0.7**	364.4	46/40	0.7	371.8	49/43
8	333.5	33/24	2.4	345.3	38/30	2.6	**358.4**	**44/37**	**0.7**	365.4	46/40	0.7	372.7	49/44
6	334.5	33/24	2.4	346.3	39/31	2.6	**359.4**	**44/37**	**0.7**	366.4	47/41	0.7	373.8	49/44
4	335.4	34/25	2.4	347.3	39/31	2.6	**360.4**	**44/37**	**0.7**	367.4	47/41	0.7	374.7	49/44
2	336.4	34/25	2.4	348.3	39/31	2.6	**361.3**	**45/38**	**0.7**	368.4	47/41	0.7	375.7	50/45
0	337.4	34/25	2.4	349.3	39/31	2.6	**362.3**	**45/38**	**0.7**	369.4	47/41	0.7	376.7	50/45

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 33L.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **TORONTO**

A/D Elev **569ft** **INTL (CYYZ)**

F/L (TWY D) RWY 33R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.109% UP
TOR	3368m (11049ft)	**ED**	3368m (11049ft)	**TOD**	3668m (12034ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	270.8	32/20	1.5	278.4	37/26	1.4	**285.4**	**43/32**	**0.4**	289.3	45/35	0.4	293.0	48/38
66	280.8	32/22	1.7	289.3	37/27	1.6	**297.3**	**43/33**	**0.4**	301.5	45/36	0.4	305.9	47/39
62	292.4	35/24	1.8	301.4	40/30	1.7	**310.1**	**45/35**	**0.4**	314.5	47/38	0.5	319.1	50/42
58	302.4	35/26	1.9	311.8	40/32	1.9	**321.4**	**45/38**	**0.5**	326.5	47/41	0.5	331.5	50/44
54	310.7	36/28	2.1	321.1	41/34	2.0	**331.1**	**46/40**	**0.5**	336.2	48/43	0.5	341.4	51/46
52	314.7	37/27	2.1	325.3	42/33	2.1	**335.6**	**47/39**	**0.5**	340.9	49/42	0.5	346.1	51/45
50	319.1	38/28	2.1	329.8	43/34	2.1	**340.3**	**48/39**	**0.5**	345.6	50/42	0.5	350.9	52/46
48	322.5	37/29	2.2	333.4	42/34	2.2	**344.6**	**47/40**	**0.6**	350.1	49/43	0.6	355.6	52/47
46	326.5	38/30	2.2	337.4	43/35	2.3	**349.0**	**48/41**	**0.6**	354.7	50/44	0.6	360.3	52/47
44	330.5	39/30	2.2	341.4	44/36	2.4	**353.2**	**48/42**	**0.6**	359.2	51/45	0.6	365.1	53/48
42	334.4	39/31	2.2	345.4	44/37	2.4	**357.6**	**49/43**	**0.6**	364.0	52/46	0.6	370.0	54/49
40	338.2	38/32	2.3	349.5	43/38	2.5	**362.0**	**48/43**	**0.7**	368.8	50/46	0.6	375.1	53/50
38	342.4	39/33	2.3	353.8	44/38	2.6	**366.6**	**49/44**	**0.7**	373.6	51/47	0.7	380.4	53/50
36	346.6	40/33	2.3	358.3	45/39	2.6	**371.3**	**50/45**	**0.7**	378.4	52/48	0.7	385.6	54/51
34	350.6	41/34	2.4	362.5	46/40	2.7	**375.8**	**51/46**	**0.7**	383.0	53/49	0.9	392.1	55/52
32	354.5	40/35	2.4	366.7	45/41	2.7	**380.3**	**50/46**	**0.8**	387.9	52/49	1.0	398.0	54/52
30	358.8	41/35	2.5	371.3	46/41	2.7	**385.0**	**51/47**	**1.1**	396.1	52/50	0.7	402.8	54/53
28	361.6	41/36	2.5	374.3	46/42	2.9	**389.0**	**51/48**	**1.0**	399.1	53/50	0.7	406.0	55/53
26	362.6	41/36	2.5	375.3	47/42	3.1	**390.8**	**51/48**	**0.9**	400.1	53/50	0.7	406.9	55/54
24	363.6	42/36	2.5	376.3	47/42	3.3	**392.6**	**51/48**	**0.9**	401.1	53/51	0.7	407.8	56/54
22	364.5	42/37	2.6	377.4	47/43	3.4	**394.4**	**51/48**	**0.8**	402.1	53/51	0.7	408.7	56/54
20	365.6	42/37	2.6	378.5	47/43	3.5	**396.2**	**52/48**	**0.7**	403.2	54/51	0.6	409.6	56/55
18	366.6	43/37	2.6	379.6	48/43	3.5	**397.2**	**52/48**	**0.7**	404.1	54/51	0.6	410.5	56/55
16	367.6	43/37	2.6	380.6	48/43	3.5	**398.3**	**52/49**	**0.7**	405.0	54/52	0.6	411.4	57/55
14	368.7	43/38	2.6	381.7	48/44	3.5	**399.3**	**52/49**	**0.7**	405.9	55/52	0.6	412.3	57/55
12	369.7	43/38	2.6	382.8	48/44	3.5	**400.4**	**53/49**	**0.6**	406.8	55/52	0.6	413.2	57/56
10	370.8	44/38	2.6	383.9	49/44	3.5	**401.3**	**53/49**	**0.6**	407.7	55/53	0.6	414.1	58/56
8	371.9	44/39	2.6	385.0	49/44	3.5	**402.3**	**53/50**	**0.6**	408.7	56/53	0.6	415.0	58/56
6	373.0	44/39	2.6	386.2	49/45	3.4	**403.2**	**54/50**	**0.6**	409.6	56/53	0.6	415.9	58/57
4	374.1	44/39	2.7	387.6	49/45	3.3	**404.1**	**54/50**	**0.6**	410.5	56/54	0.6	416.8	59/57
2	375.2	45/39	2.9	389.6	50/45	3.1	**405.0**	**54/51**	**0.6**	411.4	57/54	0.6	417.8	59/57
0	376.4	45/40	3.0	391.6	50/45	2.9	**406.0**	**54/51**	**0.6**	412.4	57/54	0.6	418.7	59/58

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 33R.

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.
Do not make any unauthorised turns prior to MALTN.

BRITISH AIRWAYS

B747-400

LANDING DATA

ALGIERS (DAAG)

A/D Elev **82ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	05	09	23	27
Landing Distance Available	3500m / 11480ft	3500m / 11480ft	3500m / 11480ft	3500m / 11480ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/°	54°/°	54°/°	54°/°
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)	15kt (10kt)	15kt (10kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt	0kt	0kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)	15kt (15kt)	15kt (15kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt	0kt	0kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

TAMENGHASSET

AGUENAR-HADJ BEY **(DAAT)**

TAMENGHASSET/AGUENAR-HADJ BEY and runways 02, 08, 20, 26 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **COTONOU (CADJEHOUN) (DBBB)**

A/D Elev **19ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**06**	**24**		
Landing Distance Available	2400m / 7874ft	2400m / 7874ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	268.0 (241.0)	268.0 (241.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	283.0 (262.0)	283.0 (262.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	219.0	219.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ACCRA (DGAA)**

A/D Elev **205ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	03	21		
Landing Distance Available	2999m / 9839ft	2999m / 9839ft		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	246.0	246.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	272.0	272.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **ACCRA**

A/D Elev **205ft** **KOTOKA INTL (DGAA)**

F/L (END TWY) RWY 03

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.213% UP
TOR	2999m (9839ft)	**ED**	3313m (10869ft)	**TOD**	3463m (11361ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.7	31/20	1.7	269.3	36/25	1.7	**277.8**	**41/31**	**0.5**	283.0	43/34	0.5	288.4	45/37
66	269.5	33/21	1.8	278.7	38/27	1.8	**287.6**	**43/33**	**0.5**	293.0	46/35	0.6	298.6	48/39
62	279.9	35/24	1.9	289.5	41/29	1.9	**298.9**	**46/35**	**0.6**	304.4	48/38	0.6	310.3	50/41
58	289.8	36/26	2.0	299.9	41/31	1.9	**309.6**	**47/37**	**0.6**	315.4	49/40	0.6	321.4	51/44
54	298.1	37/28	2.1	308.7	42/33	2.0	**318.7**	**47/39**	**0.6**	324.7	50/42	0.6	330.9	52/46
52	302.1	38/27	2.1	312.7	43/32	2.0	**322.9**	**48/39**	**0.6**	329.0	51/42	0.6	335.0	53/45
50	305.3	37/28	2.2	316.3	42/33	2.2	**327.2**	**48/39**	**0.6**	333.3	50/42	0.6	339.5	52/46
48	309.3	38/28	2.2	320.4	43/34	2.2	**331.4**	**48/40**	**0.6**	337.5	51/43	0.6	343.6	53/47
46	313.1	39/29	2.3	324.4	44/35	2.2	**335.4**	**49/41**	**0.6**	341.6	52/44	0.6	347.8	54/47
44	316.9	40/30	2.3	328.3	45/36	2.2	**339.4**	**50/42**	**0.6**	345.5	52/45	0.6	351.9	54/48
42	320.4	39/31	2.3	332.0	44/36	2.3	**343.4**	**49/43**	**0.6**	349.7	51/46	0.6	356.1	53/49
40	324.3	40/31	2.3	336.0	45/37	2.3	**347.6**	**50/43**	**0.6**	353.9	52/47	0.7	360.6	54/50
38	328.5	41/32	2.3	340.2	46/38	2.3	**351.9**	**51/44**	**0.6**	358.3	53/47	0.7	365.1	55/51
36	332.6	41/33	2.3	344.3	46/39	2.4	**356.2**	**52/45**	**0.7**	362.9	54/48	0.7	369.9	56/52
34	336.4	41/34	2.4	348.3	46/40	2.4	**360.5**	**51/46**	**0.7**	367.3	53/49	0.7	374.4	55/53
32	340.1	41/34	2.4	352.1	46/40	2.5	**364.5**	**52/47**	**0.7**	371.4	54/50	0.7	378.7	56/53
30	344.1	42/35	2.4	356.3	47/41	2.5	**369.0**	**52/47**	**0.7**	376.0	55/51	0.7	383.3	57/54
28	345.6	42/35	2.5	357.9	48/41	2.6	**370.7**	**53/48**	**0.7**	377.8	55/51	0.7	385.1	57/54
26	346.5	43/36	2.5	358.9	48/42	2.6	**371.7**	**53/48**	**0.7**	378.9	55/51	0.7	386.2	57/55
24	347.4	43/36	2.5	359.8	48/42	2.6	**372.7**	**53/48**	**0.7**	380.0	56/52	0.8	387.5	58/55
22	348.4	43/36	2.5	360.8	48/42	2.6	**373.8**	**54/49**	**0.7**	381.0	56/52	0.8	389.3	58/55
20	349.3	43/36	2.5	361.8	49/42	2.6	**374.8**	**54/49**	**0.7**	382.0	56/52	0.9	391.2	58/55
18	350.2	44/37	2.5	362.8	49/43	2.6	**375.9**	**54/49**	**0.7**	383.1	56/52	1.0	393.0	58/55
16	351.2	44/37	2.5	363.8	49/43	2.6	**377.0**	**54/49**	**0.7**	384.2	57/53	1.1	394.9	58/55
14	352.1	44/37	2.5	364.8	49/43	2.7	**378.1**	**55/50**	**0.7**	385.3	57/53	1.1	396.5	58/56
12	353.1	45/37	2.6	365.9	50/44	2.7	**379.2**	**55/50**	**0.7**	386.4	57/53	1.1	397.5	59/56
10	354.1	45/38	2.6	366.9	50/44	2.7	**380.3**	**55/50**	**0.8**	388.0	57/53	1.1	398.6	59/56
8	355.1	45/38	2.6	368.0	50/44	2.7	**381.4**	**55/50**	**0.9**	389.9	58/53	1.0	399.7	59/56
6	356.1	45/38	2.6	369.1	51/44	2.7	**382.5**	**56/51**	**0.9**	391.9	58/54	0.9	400.8	59/57
4	357.1	46/38	2.6	370.2	51/45	2.7	**383.7**	**56/51**	**1.0**	393.9	58/54	0.8	402.0	60/57
2	358.2	46/39	2.6	371.3	51/45	2.7	**384.8**	**56/51**	**1.1**	395.9	58/54	0.7	403.1	60/57
0	359.2	46/39	2.6	372.4	52/45	2.7	**386.0**	**57/52**	**1.1**	397.1	58/54	0.7	404.2	60/58

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 03

Emergency Turn Procedure - Rwy 03

KEMOK SID Engine Failure BEFORE AA300 - Climb on Rwy hdg to 700ft. Turn LEFT to APOPO (If above 700ft Turn LEFT immediately).Ctc ATC for return. Engine Failure AFTER AA300 - No restrictions provided SID followed to MSA. EREKA and MIMTI SIDs No restrictions provided SID followed to MSA.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **ACCRA**

A/D Elev **205ft** **KOTOKA INTL (DGAA)**

F/L (BACKTRACK) RWY 21

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.188% DN
TOR	3406m (11174ft)	**ED**	3510m (11515ft)	**TOD**	3406m (11174ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	273.2	34/24	1.8	282.2	39/30	1.7	**290.9**	**44/35**	**0.5**	296.0	46/38	0.1	297.0	49/42
66	282.7	36/26	1.9	292.1	41/31	1.8	**301.1**	**46/37**	**0.5**	306.5	48/39	0.6	312.2	51/42
62	293.7	39/28	2.0	303.5	44/34	1.9	**312.9**	**49/39**	**0.6**	318.5	51/42	0.6	324.4	53/45
58	304.2	39/30	2.0	314.4	44/36	1.9	**324.1**	**49/42**	**0.6**	330.0	52/45	0.6	335.9	53/48
54	312.4	40/32	2.2	323.3	45/38	2.0	**333.5**	**50/44**	**0.6**	339.4	52/47	0.6	345.4	54/50
52	316.5	41/31	2.2	327.6	46/37	2.0	**337.8**	**51/43**	**0.6**	343.6	53/46	0.6	349.8	55/49
50	320.1	41/32	2.3	331.4	45/38	2.2	**342.2**	**50/44**	**0.6**	348.1	53/47	0.6	354.4	55/50
48	324.2	42/33	2.3	335.5	46/39	2.2	**346.4**	**51/44**	**0.6**	352.5	54/47	0.6	358.9	56/51
46	328.3	42/34	2.3	339.6	47/39	2.2	**350.7**	**52/45**	**0.6**	356.8	54/48	0.7	363.4	57/51
44	332.2	43/35	2.3	343.5	48/40	2.3	**354.8**	**53/46**	**0.6**	361.0	55/49	0.7	367.8	57/52
42	335.9	42/35	2.3	347.6	47/41	2.3	**359.1**	**52/47**	**0.7**	365.6	54/50	0.7	372.5	56/53
40	340.0	43/36	2.4	351.8	48/42	2.4	**363.6**	**53/48**	**0.7**	370.2	55/51	0.7	377.3	57/54
38	344.1	44/37	2.4	356.1	49/43	2.4	**368.3**	**54/49**	**0.7**	375.0	56/52	0.7	382.2	58/55
36	348.4	45/38	2.4	360.6	50/43	2.5	**373.0**	**55/49**	**0.7**	379.9	57/53	0.7	387.3	59/56
34	352.5	44/38	2.5	364.9	49/44	2.5	**377.6**	**54/50**	**0.7**	384.5	56/53	1.1	395.2	57/56
32	356.3	45/39	2.5	369.0	49/45	2.6	**381.9**	**55/51**	**0.8**	390.2	57/54	1.0	399.8	58/56
30	360.6	45/40	2.6	373.6	50/46	2.6	**386.7**	**55/52**	**1.1**	397.3	57/54	0.7	404.4	59/57
28	362.3	46/40	2.6	375.4	51/46	2.8	**389.5**	**56/52**	**1.0**	399.1	57/54	0.7	406.1	59/58
26	363.2	46/40	2.6	376.4	51/46	3.0	**391.3**	**56/52**	**0.9**	400.1	57/55	0.7	407.2	60/58
24	364.2	46/41	2.6	377.4	51/47	3.2	**393.2**	**56/52**	**0.8**	401.1	58/55	0.7	408.2	60/58
22	365.2	47/41	2.7	378.5	51/47	3.3	**395.0**	**56/52**	**0.7**	402.2	58/55	0.7	409.3	60/58
20	366.2	47/41	2.7	379.6	52/47	3.4	**396.5**	**56/52**	**0.7**	403.2	58/55	0.7	410.4	60/59
18	367.2	47/42	2.7	380.7	52/47	3.4	**397.5**	**56/53**	**0.7**	404.3	58/56	0.7	411.5	61/59
16	368.3	47/42	2.7	381.7	52/48	3.4	**398.6**	**57/53**	**0.7**	405.3	59/56	0.7	412.5	61/59
14	369.4	48/42	2.7	382.8	52/48	3.4	**399.7**	**57/53**	**0.7**	406.4	59/56	0.7	413.6	61/60
12	370.4	48/42	2.7	383.9	53/48	3.4	**400.7**	**57/53**	**0.7**	407.5	59/57	0.7	414.7	61/60
10	371.5	48/43	2.7	385.0	53/48	3.4	**401.8**	**57/54**	**0.7**	408.7	60/57	0.7	415.9	62/60
8	372.6	48/43	2.7	386.2	53/49	3.3	**402.9**	**58/54**	**0.7**	409.8	60/57	0.7	417.0	62/60
6	373.7	49/43	2.8	387.6	54/49	3.3	**404.0**	**58/54**	**0.7**	410.9	60/57	0.7	418.2	62/61
4	374.8	49/43	3.0	389.6	54/49	3.1	**405.2**	**58/55**	**0.7**	412.1	61/58	0.7	419.4	63/61
2	376.0	49/44	3.1	391.6	54/49	2.9	**406.3**	**59/55**	**0.7**	413.2	61/58	0.7	420.6	63/61
0	377.1	50/44	3.3	393.6	54/49	2.8	**407.5**	**59/55**	**0.7**	414.4	61/58	0.7	421.7	63/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

Full Length Take-Off. Tkof from full length requires backtrack. Intxn tkof for heavy aircraft not authorised except by permission from ATC.

BRITISH AIRWAYS **B747-400** LANDING DATA **ABIDJAN (DIAP)**

A/D Elev **21ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**03**	**21**		
Landing Distance Available	3000m / 9840ft	3000m / 9840ft		
Slope	.10DN	.10UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ABUJA (DNAA)**

A/D Elev **1123ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	04	22		
Landing Distance Available	3600m / 11811ft	3600m / 11811ft		
Slope	.29 UP	.29 DN		
Notes	Notes 2,3,4,5	Notes 1,2,4,5		
WAT LIMIT °C : Man / Auto	52°	52°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (11kt)	15kt (11kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (11kt)	15kt (11kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 22 :** If GP U/S, do not fly LEFT of the extended centre-line, in order to avoid degrading terrain clearance on approach.
2. **Caution:** VOR, reports of beam fluctuations.
3. **Rwy 04 :** When approaching visually, fly SOUTH of the extended centre-line to achieve greater terrain clearance.
4. **RVR –** Factorisation of Met Vis to RVR is NOT permitted.
5. **MACG:** 3% & 3.5% minima can be used up to 52°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **LAGOS (DNMM)**

A/D Elev **138ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY Landing Distance Available Notes		**18R** 3900m / 12795ft Notes 1,3	**36L** 3900m / 12795ft Notes 2,3	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp		54°	54°	
25F Zero HW wt or TW (Manual)		15kt (5kt)	15kt (5kt)	
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)		5kt	5kt	
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)		15kt (5kt)	15kt (5kt)	
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)		5kt	5kt	
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg		5300kg	5300kg	
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **18R During periods of heavy rain** - Runway may be subject to slow drainage which could result in standing water. Consider use of appropriate performance data for landing.
2. **36L During periods of heavy rain** - Runway may be subject to slow drainage which could result in standing water. Consider use of appropriate performance data for landing.
3. **Factorisation of Met Vis:** NOT APPROVED by State. Failure to observe this instruction can lead to heavy penalties.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAGOS**

A/D Elev **138ft** **MURTALA MUHAMMED (DNMM)**

F/L (END TWY) RWY 18L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.544% DN
TOR	2745m (9005ft)	**ED**	2745m (9005ft)	**TOD**	2745m (9005ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	248.4	22/11	1.8	257.2	27/16	1.7	**265.5**	**33/22**	**0.5**	270.6	35/25	0.5	275.7	38/28
66	256.8	24/11	1.8	265.9	29/17	1.7	**274.6**	**35/23**	**0.6**	280.1	37/26	0.5	285.4	40/29
62	266.5	26/13	1.9	276.0	32/19	1.8	**285.2**	**38/25**	**0.6**	290.9	40/28	0.6	296.5	43/31
58	275.6	28/16	2.0	285.5	33/21	2.0	**295.4**	**38/27**	**0.6**	301.3	41/31	0.6	307.1	43/34
54	282.9	28/17	2.0	293.1	34/23	2.2	**304.1**	**39/29**	**0.6**	310.2	41/32	0.6	316.2	44/36
52	286.6	29/16	2.1	297.0	34/22	2.2	**308.1**	**40/28**	**0.6**	314.2	42/31	0.6	320.4	45/35
50	289.7	29/17	2.1	300.2	34/23	2.3	**311.9**	**39/29**	**0.6**	318.2	42/32	0.7	324.7	44/36
48	293.4	30/18	2.1	304.0	35/24	2.4	**315.9**	**40/30**	**0.6**	322.3	42/33	0.7	328.9	45/36
46	297.0	30/19	2.2	307.8	36/24	2.4	**319.9**	**41/31**	**0.6**	326.3	43/34	0.7	332.9	46/37
44	300.6	31/19	2.2	311.6	36/25	2.4	**323.7**	**42/31**	**0.7**	330.3	44/35	0.7	336.8	46/38
42	303.4	30/20	2.3	314.8	36/26	2.5	**327.3**	**41/32**	**0.7**	333.9	43/35	0.7	340.7	46/39
40	307.3	31/21	2.3	318.8	37/27	2.5	**331.4**	**42/33**	**0.7**	338.0	44/36	0.7	344.8	46/40
38	311.2	32/21	2.3	322.8	37/27	2.5	**335.4**	**43/34**	**0.7**	342.2	45/37	0.7	349.0	47/40
36	315.2	33/22	2.3	326.9	38/28	2.6	**339.7**	**43/35**	**0.7**	346.3	46/38	0.7	353.3	48/41
34	319.0	32/23	2.4	330.8	37/29	2.5	**343.5**	**42/35**	**0.7**	350.4	45/39	0.7	357.4	47/42
32	322.5	33/24	2.4	334.4	38/30	2.6	**347.2**	**43/36**	**0.7**	354.1	46/39	0.7	361.4	48/43
30	326.4	33/24	2.4	338.4	39/30	2.6	**351.4**	**44/37**	**0.7**	358.4	46/40	0.7	365.8	49/43
28	327.8	34/25	2.4	339.7	39/31	2.6	**352.7**	**44/37**	**0.7**	359.8	47/40	0.8	367.3	49/44
26	328.6	34/25	2.4	340.6	39/31	2.6	**353.6**	**45/37**	**0.7**	360.8	47/41	0.8	368.3	49/44
24	329.5	34/25	2.4	341.4	40/31	2.6	**354.6**	**45/38**	**0.7**	361.7	47/41	0.8	369.3	50/44
22	330.4	35/25	2.4	342.3	40/31	2.6	**355.5**	**45/38**	**0.7**	362.7	47/41	0.8	370.3	50/45
20	331.3	35/25	2.4	343.2	40/32	2.7	**356.5**	**45/38**	**0.7**	363.7	48/41	0.8	371.3	50/45
18	332.2	35/26	2.4	344.1	40/32	2.7	**357.4**	**46/38**	**0.7**	364.7	48/42	0.8	372.4	50/45
16	333.1	35/26	2.4	345.1	41/32	2.7	**358.4**	**46/39**	**0.7**	365.7	48/42	0.8	373.4	51/45
14	334.0	36/26	2.4	346.0	41/32	2.7	**359.4**	**46/39**	**0.7**	366.8	49/42	0.8	374.5	51/46
12	334.9	36/26	2.4	347.0	41/33	2.7	**360.4**	**47/39**	**0.7**	367.8	49/42	0.8	375.6	51/46
10	335.8	36/27	2.4	347.9	41/33	2.7	**361.5**	**47/39**	**0.7**	368.9	49/43	0.8	376.7	52/46
8	336.8	36/27	2.4	348.9	42/33	2.7	**362.5**	**47/40**	**0.8**	370.0	49/43	0.8	377.8	52/46
6	337.7	37/27	2.4	349.9	42/33	2.7	**363.6**	**47/40**	**0.8**	371.1	50/43	0.8	379.0	52/47
4	338.7	37/27	2.4	350.9	42/34	2.7	**364.6**	**48/40**	**0.8**	372.2	50/44	0.8	380.1	52/47
2	339.7	37/28	2.4	351.9	43/34	2.8	**365.7**	**48/41**	**0.8**	373.3	50/44	0.8	381.3	53/47
0	340.7	38/28	2.4	352.9	43/34	2.8	**366.8**	**48/41**	**0.8**	374.5	51/44	0.8	382.4	53/47

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAGOS**

A/D Elev **138ft** **MURTALA MUHAMMED (DNMM)**

F/L (END TWY) RWY 18R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.109% DN
TOR	3900m (12795ft)	**ED**	3900m (12795ft)	**TOD**	3900m (12795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	272.8	42/32	1.4	279.7	44/38	1.1	**285.4**	**46/44**	**0.3**	288.6	47/47	0.3	291.8	48/48
66	285.4	43/33	1.3	291.9	47/39	1.4	**299.0**	**50/45**	**0.3**	302.4	51/48	0.3	305.7	52/51
62	298.6	46/35	1.4	305.4	51/41	1.3	**311.9**	**53/47**	**0.4**	316.3	54/50	0.4	319.9	56/53
58	310.8	46/37	1.4	318.0	51/43	1.4	**324.8**	**56/50**	**0.4**	328.9	57/53	0.4	333.2	59/56
54	321.6	46/39	1.5	329.0	52/45	1.4	**336.1**	**57/51**	**0.4**	340.0	60/54	0.4	344.4	62/58
52	326.5	47/38	1.5	334.1	52/44	1.4	**341.3**	**58/50**	**0.4**	345.3	60/53	0.4	349.3	63/57
50	331.5	46/39	1.5	339.2	52/45	1.5	**346.5**	**57/51**	**0.4**	350.6	60/54	0.4	354.8	62/58
48	336.4	47/40	1.6	344.2	52/46	1.5	**351.7**	**58/52**	**0.4**	356.0	60/55	0.4	360.2	63/58
46	341.2	48/40	1.6	349.2	53/46	1.5	**356.9**	**59/53**	**0.4**	361.3	61/56	0.5	365.8	64/59
44	345.8	48/41	1.7	354.1	54/47	1.6	**362.1**	**59/53**	**0.5**	366.7	62/57	0.5	371.2	64/60
42	350.5	47/42	1.7	359.2	52/48	1.7	**367.5**	**58/54**	**0.5**	372.2	60/57	0.5	377.0	63/61
40	355.3	48/43	1.8	364.3	53/49	1.7	**373.0**	**59/55**	**0.5**	377.9	61/58	0.5	382.6	64/61
38	360.4	49/43	1.9	369.9	54/49	1.8	**378.9**	**59/56**	**0.5**	383.7	62/59	0.5	388.6	64/62
36	365.7	49/44	2.0	375.6	54/50	1.8	**384.6**	**60/56**	**0.5**	389.9	62/59	0.5	395.3	65/63
34	370.8	48/45	2.1	381.1	54/51	1.9	**390.5**	**59/57**	**0.6**	396.2	61/60	0.5	400.8	64/63
32	375.6	49/45	2.1	385.9	54/51	2.1	**396.4**	**60/57**	**0.5**	401.2	62/60	0.5	406.0	64/64
30	380.8	50/46	2.3	392.1	55/52	1.9	**401.7**	**60/58**	**0.5**	406.7	63/61	0.5	411.6	65/65
28	382.1	50/46	2.3	393.7	55/52	1.9	**403.0**	**61/58**	**0.5**	408.0	63/62	0.5	412.9	66/65
26	382.8	50/47	2.3	394.4	55/53	1.8	**403.5**	**61/59**	**0.5**	408.5	63/62	0.5	413.5	66/65
24	383.5	51/47	2.3	395.1	56/53	1.8	**404.1**	**61/59**	**0.5**	409.1	64/62	0.5	414.0	66/66
22	384.1	51/47	2.3	395.8	56/53	1.8	**404.7**	**62/59**	**0.5**	409.7	64/63	0.5	414.6	67/66
20	384.8	51/48	2.3	396.4	57/53	1.8	**405.2**	**62/60**	**0.5**	410.2	65/63	0.5	415.1	67/66
18	385.5	52/48	2.3	397.0	57/54	1.8	**405.8**	**62/60**	**0.5**	410.8	65/63	0.5	415.7	67/67
16	386.2	52/48	2.3	397.6	57/54	1.8	**406.4**	**63/60**	**0.5**	411.3	65/64	0.5	416.2	68/67
14	386.9	52/49	2.2	398.1	58/54	1.8	**407.0**	**63/61**	**0.5**	411.9	66/64	0.5	416.8	68/67
12	387.8	53/49	2.2	398.7	58/55	1.8	**407.5**	**64/61**	**0.5**	412.5	66/64	0.5	417.4	69/68
10	388.6	53/49	2.1	399.3	58/55	1.8	**408.1**	**64/62**	**0.5**	413.0	66/65	0.5	417.9	69/68
8	389.5	53/49	2.1	399.9	59/55	1.8	**408.7**	**64/62**	**0.5**	413.6	67/65	0.5	418.5	69/69
6	390.4	54/50	2.0	400.5	59/56	1.8	**409.3**	**65/62**	**0.5**	414.2	67/66	0.5	419.1	70/69
4	391.3	54/50	2.0	401.1	59/56	1.8	**409.9**	**65/63**	**0.5**	414.7	68/66	0.5	419.7	70/69
2	392.1	55/50	1.9	401.7	60/57	1.8	**410.5**	**66/63**	**0.5**	415.3	68/66	0.5	420.2	71/70
0	392.8	55/51	1.9	402.3	60/57	1.8	**411.1**	**66/63**	**0.5**	415.9	69/67	0.5	420.8	71/70

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 18R

DURING PERIODS OF HEAVY RAIN RUNWAY MAY BE SUBJECT TO SLOW DRAINAGE WHICH COULD RESULT IN STANDING WATER. CONSIDER USE OF APPROPRIATE PERFORMANCE DATA CORRECTIONS FOR TAKEOFF.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAGOS**

A/D Elev **138ft** **MURTALA MUHAMMED (DNMM)**

F/L (END TWY) RWY 36L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.109% UP
TOR	3900m (12795ft)	**ED**	3900m (12795ft)	**TOD**	3900m (12795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	264.4	39/33	1.2	270.2	41/39	1.2	**276.0**	**43/43**	**0.3**	279.1	44/44	0.3	282.2	45/45
66	276.9	42/34	1.3	283.2	44/40	1.2	**289.3**	**46/46**	**0.3**	292.7	48/48	0.3	296.0	49/49
62	289.9	46/36	1.3	296.6	48/42	1.3	**303.0**	**50/48**	**0.4**	306.5	51/51	0.4	310.0	52/52
58	302.1	47/38	1.4	309.0	51/44	1.3	**315.7**	**53/50**	**0.4**	319.4	54/53	0.4	323.1	56/56
54	312.8	48/40	1.4	320.0	53/46	1.4	**327.0**	**56/52**	**0.4**	330.9	57/55	0.4	334.7	58/58
52	317.7	48/39	1.5	325.1	54/45	1.4	**332.2**	**57/51**	**0.4**	336.1	58/54	0.4	339.9	60/58
50	322.7	48/40	1.5	330.3	53/46	1.4	**337.4**	**58/52**	**0.4**	341.4	60/55	0.4	345.4	61/58
48	327.6	48/40	1.5	335.2	54/47	1.5	**342.5**	**59/53**	**0.4**	346.6	61/56	0.4	350.6	62/59
46	331.7	49/41	1.7	340.2	54/47	1.5	**347.6**	**60/54**	**0.4**	351.7	62/57	0.4	356.0	64/60
44	335.6	50/42	1.9	345.0	55/48	1.5	**352.6**	**61/54**	**0.4**	356.9	63/57	0.4	361.3	65/61
42	340.4	49/43	1.9	350.0	54/49	1.6	**357.8**	**59/55**	**0.4**	362.2	62/58	0.5	366.8	64/62
40	345.2	49/43	1.9	354.7	54/50	1.7	**363.1**	**60/56**	**0.5**	367.6	63/59	0.5	372.3	65/62
38	350.3	50/44	1.8	359.2	55/50	1.9	**368.8**	**61/57**	**0.5**	373.5	63/60	0.5	378.4	66/63
36	355.6	51/45	1.7	364.3	56/51	2.1	**374.7**	**61/57**	**0.5**	379.5	64/60	0.5	384.3	66/64
34	360.5	50/45	1.8	369.5	55/52	2.0	**379.7**	**61/58**	**0.5**	385.0	63/61	0.5	390.1	65/64
32	365.3	50/46	1.9	374.6	56/52	1.9	**384.0**	**61/59**	**0.7**	390.5	64/62	0.5	395.9	66/65
30	370.4	51/47	1.9	380.0	57/53	2.0	**390.0**	**62/59**	**0.7**	396.5	64/62	0.5	401.3	67/66
28	371.7	52/47	1.9	381.2	57/54	2.3	**392.5**	**62/60**	**0.5**	397.7	65/63	0.5	402.6	67/66
26	372.3	52/47	1.9	381.7	57/54	2.3	**393.1**	**62/60**	**0.5**	398.2	65/63	0.5	403.0	67/66
24	372.8	52/48	1.9	382.3	58/54	2.3	**393.7**	**63/60**	**0.5**	398.7	65/63	0.5	403.5	68/67
22	373.4	53/48	1.9	382.8	58/55	2.3	**394.3**	**63/61**	**0.5**	399.1	66/64	0.5	404.0	68/67
20	373.9	53/48	1.9	383.4	58/55	2.3	**394.8**	**64/61**	**0.5**	399.6	66/64	0.5	404.5	69/67
18	374.5	53/49	1.9	383.9	59/55	2.3	**395.4**	**64/61**	**0.5**	400.1	66/64	0.5	405.0	69/68
16	375.1	54/49	1.9	384.8	59/56	2.2	**396.0**	**64/62**	**0.5**	400.6	67/65	0.5	405.5	69/68
14	375.7	54/49	2.1	386.0	59/56	2.1	**396.4**	**65/62**	**0.5**	401.1	67/65	0.5	406.0	70/69
12	376.2	54/50	2.2	387.2	60/56	1.9	**396.9**	**65/62**	**0.5**	401.6	68/66	0.5	406.5	70/69
10	376.8	55/50	2.2	387.9	60/56	1.9	**397.4**	**66/63**	**0.5**	402.1	68/66	0.5	406.9	71/69
8	377.4	55/50	2.2	388.5	60/57	1.9	**397.9**	**66/63**	**0.5**	402.6	68/66	0.5	407.4	71/70
6	377.9	56/51	2.3	389.2	61/57	1.8	**398.4**	**66/63**	**0.5**	403.1	69/67	0.5	407.9	71/70
4	378.9	56/51	2.2	389.8	61/58	1.8	**398.9**	**67/64**	**0.5**	403.6	69/67	0.5	408.4	72/71
2	380.1	56/51	2.1	390.4	62/58	1.8	**399.4**	**67/64**	**0.5**	404.2	70/67	0.5	408.9	72/71
0	381.2	56/52	2.0	391.0	62/58	1.8	**399.9**	**68/65**	**0.5**	404.7	70/68	0.5	409.4	73/71

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 36L

DURING PERIODS OF HEAVY RAIN RUNWAY MAY BE SUBJECT TO SLOW DRAINAGE WHICH COULD RESULT IN STANDING WATER. CONSIDER USE OF APPROPRIATE PERFORMANCE DATA CORRECTIONS FOR TAKEOFF.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAGOS**

A/D Elev **138ft** **MURTALA MUHAMMED (DNMM)**

F/L (END TWY) RWY 36R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.544% UP
TOR	2745m (9005ft)	**ED**	2745m (9005ft)	**TOD**	2745m (9005ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	242.3	21/11	1.8	251.2	26/15	1.7	**259.8**	**32/21**	**0.5**	264.8	34/24	0.5	270.2	37/27
66	250.8	23/11	1.8	259.7	28/16	1.8	**268.6**	**34/23**	**0.5**	273.9	37/26	0.6	279.6	39/29
62	260.2	25/13	1.9	269.5	31/19	1.9	**278.9**	**37/25**	**0.6**	284.5	39/28	0.6	290.5	42/31
58	269.2	27/15	1.9	278.9	32/21	2.0	**288.8**	**38/27**	**0.6**	294.6	40/30	0.6	300.9	43/33
54	276.4	28/17	2.1	286.9	33/23	2.1	**297.3**	**38/29**	**0.6**	303.3	41/32	0.6	309.7	43/35
52	280.1	29/16	2.1	290.7	34/22	2.1	**301.2**	**39/28**	**0.6**	307.3	42/31	0.7	313.8	44/34
50	283.0	28/17	2.2	293.8	33/23	2.2	**304.9**	**39/29**	**0.6**	311.1	41/32	0.7	317.8	44/35
48	286.6	29/18	2.2	297.6	34/23	2.3	**308.9**	**40/30**	**0.6**	315.1	42/33	0.7	321.9	44/36
46	290.2	30/18	2.2	301.3	35/24	2.3	**312.7**	**40/30**	**0.6**	319.1	43/34	0.7	325.9	45/37
44	293.6	30/19	2.3	304.9	36/25	2.3	**316.5**	**41/31**	**0.6**	322.9	44/34	0.7	329.9	46/38
42	296.3	30/20	2.3	307.9	35/26	2.4	**319.9**	**40/32**	**0.7**	326.5	43/35	0.7	333.5	45/39
40	300.0	31/20	2.4	311.8	36/26	2.4	**323.9**	**41/33**	**0.7**	330.6	44/36	0.7	337.6	46/39
38	303.8	31/21	2.4	315.7	37/27	2.5	**328.0**	**42/34**	**0.7**	334.6	44/37	0.7	341.7	47/40
36	307.7	32/22	2.4	319.8	37/28	2.5	**332.1**	**43/34**	**0.7**	338.8	45/38	0.7	345.9	48/41
34	311.4	32/22	2.4	323.6	37/29	2.5	**336.0**	**42/35**	**0.7**	342.7	44/38	0.7	349.8	47/42
32	314.9	32/23	2.5	327.2	37/29	2.5	**339.7**	**43/36**	**0.7**	346.4	45/39	0.7	353.6	48/42
30	318.8	33/24	2.5	331.2	38/30	2.5	**343.6**	**44/36**	**0.7**	350.5	46/40	0.7	357.8	48/43
28	320.1	33/24	2.5	332.4	38/30	2.5	**344.9**	**44/37**	**0.7**	351.8	46/40	0.8	359.3	49/44
26	320.9	34/24	2.5	333.3	39/30	2.5	**345.8**	**44/37**	**0.7**	352.7	47/40	0.8	360.2	49/44
24	321.8	34/25	2.5	334.2	39/31	2.5	**346.7**	**44/37**	**0.7**	353.7	47/41	0.8	361.2	49/44
22	322.6	34/25	2.5	335.0	39/31	2.5	**347.6**	**45/38**	**0.7**	354.6	47/41	0.8	362.2	50/44
20	323.5	34/25	2.5	335.9	39/31	2.5	**348.6**	**45/38**	**0.7**	355.5	47/41	0.8	363.1	50/45
18	324.4	35/25	2.5	336.9	40/31	2.5	**349.5**	**45/38**	**0.7**	356.5	48/41	0.8	364.2	50/45
16	325.3	35/25	2.5	337.8	40/32	2.5	**350.5**	**46/38**	**0.7**	357.5	48/42	0.8	365.2	50/45
14	326.2	35/26	2.5	338.7	40/32	2.5	**351.4**	**46/39**	**0.7**	358.5	48/42	0.8	366.2	51/45
12	327.1	35/26	2.5	339.7	41/32	2.5	**352.4**	**46/39**	**0.7**	359.5	49/42	0.8	367.3	51/46
10	328.1	36/26	2.5	340.6	41/32	2.6	**353.4**	**46/39**	**0.7**	360.5	49/43	0.8	368.3	51/46
8	329.0	36/27	2.5	341.5	41/33	2.6	**354.4**	**47/39**	**0.7**	361.6	49/43	0.8	369.4	52/46
6	330.0	36/27	2.5	342.5	41/33	2.6	**355.4**	**47/40**	**0.7**	362.6	49/43	0.8	370.5	52/47
4	330.9	37/27	2.5	343.5	42/33	2.6	**356.4**	**47/40**	**0.7**	363.7	50/43	0.8	371.6	52/47
2	331.9	37/27	2.5	344.4	42/34	2.6	**357.5**	**48/40**	**0.7**	364.8	50/44	0.8	372.7	52/47
0	332.8	37/28	2.5	345.4	42/34	2.6	**358.5**	**48/41**	**0.7**	365.9	50/44	0.8	373.9	53/47

P/C above 1013 + 0.1
P/C below 1013 - 0.4

NIAMEY

DIORI HAMANI **(DRRN)**

NIAMEY/DIORI HAMANI and runways 09R, 27L authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **LOME (DXXX)**

A/D Elev **71ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**04**	**22**		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BRUSSELS NATIONAL (EBBR)**

A/D Elev **184ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	01	07L	07R	19
Landing Distance Available	2941m / 9650ft	3380m / 11089ft	3086m / 10125ft	2765m / 9072ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	7kt (1kt)	15kt (8kt)	9kt (3kt)	3kt (276.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	240.0	278.0	257.0	230.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (1kt)	15kt (8kt)	9kt (3kt)	3kt (280.8)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	266.0	280.8	280.8	253.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BRUSSELS NATIONAL (EBBR)**

A/D Elev **184ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY (STATUS)	**25L**	**25R**		
Landing Distance Available	3211m / 10535ft	3338m / 10951ft		
Notes	Notes 1,2			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°		
25F Zero HW wt or TW (Manual)	11kt (5kt)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)	11kt (5kt)	14kt (8kt)		
25F Slippery Zero HW wt or TW (Manual)	265.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)	265.0	275.0		
30F Zero HW wt or TW (Manual)	11kt (5kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)	11kt (5kt)	14kt (8kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)	280.8	280.8		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **PAPI 25L:** Wheel height less than 30ft over threshold. PAPI may be used down to 300ft above threshold but disregard thereafter.
2. **ILS Rwy 25L** - Pilots should be awre of the possibility of false localiser capture

BERLIN

SCHOENEFELD **(EDDB)**

BERLIN/SCHOENEFELD and runways 07L, 07R, 25L, 25R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **FRANKFURT (EDDF)**

A/D Elev **364ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	07L	07C	07R	25L
Landing Distance Available	Not Auth	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft
	for			
Notes	B747 Ops			
WAT LIMIT °C : Man / Auto		53°/53°	53°/53°	53°/53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)		15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)		15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)		5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)		5kt	5kt	5kt
30F Zero HW wt or TW (Manual)		15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)		15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)		5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)		5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **FRANKFURT (EDDF)**

A/D Elev **364ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**25C**	**25R**		
Landing Distance Available	4000m / 13123ft	Not Auth		
		For		
Notes		B747 Ops		
WAT LIMIT °C : Man / Auto	53°/53°			
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt			
25F Zero HW wt or TW (Autoland)	15kt			
25F Slippery Zero HW wt or TW (Manual)	5kt			
25F Slippery Zero HW wt or TW (Autoland)	5kt			
30F Zero HW wt or TW (Manual)	15kt			
30F Zero HW wt or TW (Autoland)	15kt			
30F Slippery Zero HW wt or TW (Manual)	5kt			
30F Slippery Zero HW wt or TW (Autoland)	5kt			
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MUNICH**

A/D Elev **1487ft** Max wt Permitted (For pre flt planning) **285,760kg** **MUNICH 2 (EDDM)**

RUNWAY	08L	08R	26L	26R
Landing Distance Available	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft
Notes	Note 1	Note 1	Notes 1,2	Note 1
WAT LIMIT °C : Man / Auto	51°/51°	51°/51°	51°/51°	51°/51°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located SOUTH EAST clockwise through SOUTH of airfield.
2. **ILS Rwy 26L** – Pilots should be aware of the possibility of false localiser capture.

BRITISH AIRWAYS **B747-400** LANDING DATA **HELSINKI**

A/D Elev **179ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **VANTAA (EFHK)**

RUNWAY	04L	04R	15	22L
Landing Distance Available	3060m / 10036ft	3200m / 10500ft	2782m / 9127ft	3500m / 11483ft
Slope	.46 UP	.05DN	.17DN	.05UP
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°	54°	54°/54°
25F Zero HW wt or TW (Manual)	9kt (3kt)	11kt (5kt)	3kt (277.0)	15kt (9kt)
25F Zero HW wt or TW (Autoland)	9kt (3kt)			15kt (9kt)
25F Slippery Zero HW wt or TW (Manual)	254.0	265.0	237.0	0kt
25F Slippery Zero HW wt or TW (Autoland)	254.0			0kt
30F Zero HW wt or TW (Manual)	9kt (3kt)	11kt (5kt)	3kt (280.8)	15kt (9kt)
30F Zero HW wt or TW (Autoland)	9kt (3kt)			15kt (9kt)
30F Slippery Zero HW wt or TW (Manual)	278.0	280.8	263.0	0kt
30F Slippery Zero HW wt or TW (Autoland)	278.0			0kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS 04R:** Not recommended for coupled approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **HELSINKI**

A/D Elev **179ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **VANTAA (EFHK)**

RUNWAY	**22R**	**33**		
Landing Distance Available	3000m / 9840ft	2900m / 9514ft		
Slope	.46 DN	.17UP		
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	6kt (0kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	246.0	237.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	6kt (0kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	272.0	263.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 33:** Degraded braking action when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **BELFAST**

A/D Elev **268ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **ALDERGROVE (EGAA)**

RUNWAY	**07**	**25**		
Landing Distance Available	2780m / 9121ft	2780m / 9121ft		
Slope	.67UP	.67DN		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°		
25F Zero HW wt or TW (Manual)	3kt (277.0)	3kt (277.0)		
25F Zero HW wt or TW (Autoland)		3kt (277.0)		
25F Slippery Zero HW wt or TW (Manual)	229.0	229.0		
25F Slippery Zero HW wt or TW (Autoland)		229.0		
30F Zero HW wt or TW (Manual)	3kt (280.8)	3kt (280.8)		
30F Zero HW wt or TW (Autoland)		3kt (280.8)		
30F Slippery Zero HW wt or TW (Manual)	253.0	253.0		
30F Slippery Zero HW wt or TW (Autoland)		253.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BIRMINGHAM INTERNATIONAL (EGBB)**

A/D Elev 339ft Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**15**	**33**		
Landing Distance Available	2580m / 8465ft	2449m / 8031ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°/53°		
25F Zero HW wt or TW (Manual)	283.0 (262.0)	272.0 (247.0)		
25F Zero HW wt or TW (Autoland)	283.0 (262.0)	272.0 (247.0)		
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)	NOT AUTH	NOT AUTH		
30F Zero HW wt or TW (Manual)	5kt (281.0)	0kt (268.9)		
30F Zero HW wt or TW (Autoland)	5kt (281.0)	0kt (268.9)		
30F Slippery Zero HW wt or TW (Manual)	235.0	223.4		
30F Slippery Zero HW wt or TW (Autoland)	235.0	223.4		
Red'n per extra kt TW kg				
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **PAPI Rwy 15/33:** Caution -- wheel height at threshold greater than recommended when using PAPI guidance.

BRITISH AIRWAYS **B747-400** LANDING DATA **MANCHESTER (EGCC)**

A/D Elev **257ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	05L	05R	23L	23R
Landing Distance Available	2587m / 8487ft	2864m / 9396ft	2864m / 9396ft	2714m / 8901ft
Slope	.49UP	.41UP	.41DN	.49DN
Notes	Notes 1,2	Note 2	Note 2	Notes 2,3
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	281.0 (264.0)	5kt (283.0)	5kt (283.0)	2kt (253.0)
25F Zero HW wt or TW (Autoland)	281.0 (264.0)	5kt (283.0)	5kt (283.0)	2kt (253.0)
25F Slippery Zero HW wt or TW (Manual)	213.0	236.0	236.0	224.0
25F Slippery Zero HW wt or TW (Autoland)	213.0	236.0	236.0	224.0
30F Zero HW wt or TW (Manual)	5kt (284.0)	12kt (6kt)	12kt (6kt)	8kt (3kt)
30F Zero HW wt or TW (Autoland)	5kt (284.0)	12kt (6kt)	12kt (6kt)	8kt (3kt)
30F Slippery Zero HW wt or TW (Manual)	234.0	259.0	259.0	246.0
30F Slippery Zero HW wt or TW (Autoland)	234.0	259.0	259.0	246.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Approach Terrain Rwy 05L:** When crossing the Bollin Valley on the approach to Rwy 05L, the radio altimeter will fluctuate at approx 380ft QNH and read approx 280ft Radio.
2. **Reverse Thrust :** The normal Reverse Thrust selection at this station will be Reverse Idle, unless required for reasons listed in the Flying Manual.
3. **PAPI 23R:** Wheel height less than 30ft over threshold. PAPI may be used down to 300ft above threshold but disregard thereafter.

BRITISH AIRWAYS **B747-400** LANDING DATA **CARDIFF**

A/D Elev **220ft** Max wt Permitted (For pre flt planning) **252,000kg** Briefing Cat A **(EGFF)**

RUNWAY	12	30		
Landing Distance Available	2098m / 6883ft	2202m / 7224ft		
Slope	.10UP	.10DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	234.0 (212.0)	245.0 (223.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	249.0 (226.0)	261.0 (237.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy Surface:** Degraded braking action at intersection of Rwys 12/30 and 03/21 when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **LONDON GATWICK (EGKK)**

A/D Elev **203ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	08L	08R	26L	26R
Landing Distance Available	2243m / 7360ft	2766m / 9075ft	2831m / 9288ft	2148m / 7047ft
Slope	.05DN	.07DN	.05UP	.05UP
Notes	Notes 1,3	Notes 2,3	Notes 3,4	Notes 1,3
WAT LIMIT °C : Man / Auto	54°	54°/54°	54°/54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	249.0 (226.0)	3kt (277.0)	4kt (283.0)	237.5 (215.0)
25F Zero HW wt or TW (Autoland)		3kt (277.0)	4kt (283.0)	
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	230.0	229.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)		230.0	229.0	
30F Zero HW wt or TW (Manual)	266.0 (243.0)	3kt (280.8)	4kt (283.0)	253.0 (231.0)
30F Zero HW wt or TW (Autoland)		3kt (280.8)	4kt (283.0)	
30F Slippery Zero HW wt or TW (Manual)	203.0	253.0	256.0	NOT AUTH
30F Slippery Zero HW wt or TW (Autoland)		253.0	256.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 08L / 26R:** Is promulgated as an emergency runway and will only be used when the main runway is closed.
2. **PAPI 08R :** Wheel ht less than 30ft over threshold. PAPI may be used down to 300ft ARTE but disregard thereafter.
3. **Reverse Thrust :** The normal Reverse Thrust selection at this station will be Reverse Idle, unless required for reasons listed in the Flying Manual.
4. **PAPI Rwy 26L :** Wheel ht less than 30ft over threshold. PAPI may be used down to 300ft ARTE but disregard thereafter.

BRITISH AIRWAYS **B747-400** LANDING DATA **LONDON HEATHROW (EGLL)**

A/D Elev **83ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	09L	09R	27L	27R
Landing Distance Available	3592m / 11784ft	3350m/10990ft	3658m/12000ft	3882m/12736ft
Slope	.02DN	.02 UP	.02 DN	.02 UP
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (8kt)	15kt (13kt)	15kt
25F Zero HW wt or TW (Autoland)	15kt (12kt)	15kt (8kt)	15kt (13kt)	15kt
25F Slippery Zero HW wt or TW (Manual)	1kt	276.0	1kt	4kt
25F Slippery Zero HW wt or TW (Autoland)	1kt	276.0	1kt	4kt
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (8kt)	15kt (13kt)	15kt
30F Zero HW wt or TW (Autoland)	15kt (12kt)	15kt (8kt)	15kt (13kt)	15kt
30F Slippery Zero HW wt or TW (Manual)	1kt	280.8	1kt	4kt
30F Slippery Zero HW wt or TW (Autoland)	1kt	280.8	1kt	4kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A13 (F/L) RWY 09L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3901m (12798ft)	**ED**	3901m (12798ft)	**TOD**	3901m (12798ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	289.0	42/33	1.0	294.0	47/39	1.0	**298.9**	**51/45**	**0.2**	301.3	51/48	0.3	303.8	52/51
66	303.4	43/33	1.0	308.4	49/39	1.0	**313.5**	**54/46**	**0.3**	316.1	55/49	0.3	318.7	56/52
62	317.6	45/36	1.1	323.0	51/42	1.1	**328.4**	**57/48**	**0.3**	331.2	59/51	0.3	334.0	60/54
58	328.5	45/38	1.6	336.5	50/44	1.1	**342.2**	**56/50**	**0.3**	345.1	59/53	0.3	348.0	62/57
54	337.1	46/40	2.1	347.8	51/45	1.4	**354.6**	**56/52**	**0.3**	357.7	59/55	0.3	360.8	62/58
52	341.3	47/39	2.2	352.1	52/44	1.7	**360.7**	**57/50**	**0.3**	363.9	60/54	0.3	367.1	63/57
50	345.1	46/40	2.3	356.4	51/45	2.1	**366.8**	**56/51**	**0.3**	370.1	59/54	0.3	373.3	62/58
48	349.2	47/40	2.3	360.6	52/46	2.4	**372.6**	**57/52**	**0.3**	376.0	60/55	0.3	379.3	62/58
46	353.4	48/41	2.3	365.1	53/47	2.6	**377.9**	**58/52**	**0.4**	381.8	60/56	0.3	385.0	63/59
44	357.7	49/42	2.4	369.7	54/48	2.6	**382.7**	**58/53**	**0.5**	387.4	61/56	0.4	391.0	64/60
42	362.0	48/43	2.5	374.3	52/49	2.7	**387.7**	**57/54**	**0.6**	393.6	59/57	0.3	397.0	62/60
40	366.6	49/44	2.5	379.2	53/49	3.4	**396.0**	**57/54**	**0.3**	399.3	60/57	0.3	402.7	63/61
38	371.0	49/44	2.5	383.7	54/50	3.4	**400.5**	**58/55**	**0.5**	405.4	60/58	0.4	408.9	63/61
36	375.7	50/45	2.8	389.6	55/51	3.1	**405.2**	**59/56**	**0.6**	411.6	61/59	0.4	415.4	64/62
34	380.4	49/46	3.3	396.9	53/51	2.6	**409.7**	**58/57**	**0.7**	416.3	60/59	0.5	421.4	63/63
32	384.5	50/47	3.3	400.9	54/52	2.6	**413.8**	**59/57**	**0.7**	420.6	61/60	0.6	427.0	63/63
30	390.4	50/47	3.0	405.3	55/52	2.6	**418.3**	**60/58**	**0.7**	425.1	62/61	0.7	432.0	64/64
28	392.7	51/47	2.8	406.6	55/53	2.6	**419.7**	**60/58**	**0.7**	426.5	62/61	0.7	433.4	64/64
26	394.5	51/47	2.6	407.6	55/53	2.6	**420.7**	**60/59**	**0.7**	427.6	62/61	0.7	434.5	64/64
24	396.2	51/47	2.5	408.7	56/53	2.6	**421.8**	**60/59**	**0.7**	428.7	63/62	0.6	435.1	65/65
22	397.2	51/48	2.5	409.8	56/53	2.6	**422.8**	**61/59**	**0.7**	429.8	63/62	0.6	435.5	65/65
20	398.2	51/48	2.5	410.8	56/54	2.6	**423.9**	**61/59**	**0.7**	430.9	63/62	0.5	435.9	66/66
18	399.3	52/48	2.5	411.9	56/54	2.6	**425.0**	**61/60**	**0.7**	432.0	63/63	0.4	436.3	66/66
16	400.4	52/48	2.5	413.0	57/54	2.6	**426.2**	**61/60**	**0.6**	432.5	64/63	0.4	436.6	66/66
14	401.4	52/49	2.5	414.1	57/54	2.6	**427.3**	**62/60**	**0.6**	432.9	64/63	0.4	436.9	67/67
12	402.5	52/49	2.5	415.2	57/55	2.7	**428.5**	**62/60**	**0.5**	433.2	65/64	0.4	437.2	67/67
10	403.6	53/49	2.5	416.3	57/55	2.6	**429.5**	**62/61**	**0.4**	433.6	65/64	0.4	437.5	68/68
8	404.7	53/49	2.6	417.5	58/55	2.5	**429.9**	**63/61**	**0.4**	433.9	66/65	0.4	437.8	68/68
6	405.8	53/50	2.6	418.7	58/56	2.3	**430.3**	**63/62**	**0.4**	434.3	66/65	0.4	438.1	69/69
4	407.0	53/50	2.6	419.9	58/56	2.2	**430.7**	**64/62**	**0.4**	434.6	66/65	0.4	438.5	69/69
2	408.1	54/50	2.6	421.0	59/56	2.0	**431.0**	**64/62**	**0.4**	435.0	67/66	0.4	438.8	70/69
0	409.3	54/51	2.6	422.2	59/56	1.8	**431.4**	**65/63**	**0.4**	435.3	67/66	0.4	439.1	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 09L

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TEMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE THE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

NOISE DUE TO NOISE SENSITIVITY THIS RWY ONLY TO BE USED WHEN INSTRUCTED BY ATC OR DUE TO PERF CONSIDERATIONS. IN THE LATTER CASE ALL OTHER RWY OPTIONS MUST BE EXAMINED FIRST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A13 (F/L) RWY 09L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3901m (12798ft)	**ED**	3901m (12798ft)	**TOD**	3901m (12798ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	282.1	41/32	1.0	286.9	46/38	0.9	**291.5**	**48/44**	**0.3**	294.0	49/47	0.2	296.4	50/50
66	296.5	42/32	1.0	301.5	48/38	1.0	**306.4**	**52/44**	**0.3**	308.9	53/48	0.3	311.5	54/51
62	310.9	44/35	1.0	316.1	50/41	1.0	**321.3**	**56/47**	**0.3**	324.0	57/50	0.3	326.7	58/53
58	323.9	44/37	1.2	329.8	50/43	1.1	**335.3**	**55/49**	**0.3**	338.1	58/52	0.3	340.8	61/56
54	332.8	45/39	1.8	341.8	50/44	1.2	**347.7**	**56/51**	**0.3**	350.7	58/54	0.3	353.7	61/57
52	337.1	46/38	2.0	347.3	50/43	1.3	**353.6**	**56/49**	**0.3**	356.7	59/53	0.3	359.7	62/56
50	341.1	45/39	2.2	352.0	50/44	1.5	**359.5**	**56/50**	**0.3**	362.7	58/54	0.3	365.9	61/57
48	345.3	46/39	2.2	356.5	51/45	1.8	**365.5**	**56/51**	**0.3**	368.8	59/54	0.3	372.1	62/58
46	349.5	47/40	2.3	360.9	52/46	2.1	**371.5**	**57/52**	**0.4**	375.0	59/55	0.3	378.4	62/58
44	353.5	48/41	2.3	365.2	52/47	2.5	**377.5**	**57/52**	**0.4**	381.1	60/55	0.3	384.4	63/59
42	357.8	47/42	2.4	369.9	51/47	2.6	**382.9**	**56/53**	**0.4**	387.0	59/56	0.3	390.4	61/60
40	362.2	47/43	2.5	374.6	52/48	2.7	**388.3**	**57/54**	**0.5**	392.9	59/57	0.3	396.2	62/60
38	366.8	48/43	2.5	379.4	53/49	3.3	**395.7**	**57/54**	**0.3**	399.1	60/57	0.4	402.7	62/61
36	371.6	49/44	2.5	384.3	54/50	3.4	**401.2**	**58/55**	**0.5**	405.7	60/58	0.4	409.4	63/61
34	376.3	48/45	2.9	390.7	53/50	3.0	**405.7**	**57/56**	**0.6**	411.9	59/59	0.4	415.7	62/62
32	380.6	49/46	3.3	397.2	53/51	2.6	**410.1**	**58/56**	**0.7**	416.8	60/59	0.5	421.5	62/62
30	385.3	50/46	3.3	401.8	54/51	2.6	**414.7**	**59/57**	**0.7**	421.6	61/60	0.6	427.6	63/63
28	386.6	50/47	3.3	403.1	54/52	2.6	**416.1**	**59/57**	**0.7**	422.9	61/60	0.6	428.5	63/64
26	388.2	50/47	3.2	404.1	54/52	2.6	**417.2**	**59/58**	**0.7**	424.0	61/61	0.5	428.9	64/64
24	390.0	50/47	3.0	405.1	55/52	2.6	**418.2**	**59/58**	**0.7**	425.1	62/61	0.4	429.2	64/64
22	391.9	50/47	2.9	406.2	55/52	2.6	**419.3**	**60/58**	**0.6**	425.6	62/61	0.4	429.5	65/65
20	393.7	51/47	2.7	407.3	55/53	2.6	**420.4**	**60/58**	**0.6**	426.0	62/62	0.4	429.8	65/65
18	395.6	51/47	2.6	408.4	55/53	2.6	**421.5**	**60/59**	**0.5**	426.3	63/62	0.4	430.1	66/66
16	396.8	51/48	2.5	409.5	56/53	2.6	**422.6**	**61/59**	**0.4**	426.6	63/62	0.4	430.4	66/66
14	397.9	51/48	2.5	410.6	56/54	2.5	**423.1**	**61/59**	**0.4**	426.9	64/63	0.4	430.7	66/66
12	399.0	51/48	2.5	411.7	56/54	2.4	**423.5**	**61/60**	**0.4**	427.3	64/63	0.4	431.0	67/67
10	400.1	52/48	2.5	412.8	57/54	2.2	**423.8**	**62/60**	**0.4**	427.6	65/64	0.4	431.3	67/67
8	401.2	52/49	2.5	413.9	57/54	2.1	**424.2**	**62/61**	**0.4**	427.9	65/64	0.4	431.6	68/68
6	402.3	52/49	2.5	415.0	57/55	1.9	**424.5**	**63/61**	**0.4**	428.2	66/64	0.4	431.9	68/68
4	403.4	53/49	2.6	416.2	57/55	1.7	**424.8**	**63/61**	**0.4**	428.6	66/65	0.4	432.2	69/68
2	404.5	53/49	2.6	417.4	58/55	1.6	**425.2**	**64/62**	**0.4**	428.9	66/65	0.4	432.5	69/69
0	405.7	53/50	2.4	417.9	58/56	1.5	**425.5**	**64/62**	**0.4**	429.2	67/66	0.4	432.8	70/69

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 09L

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TEMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE THE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

NOISE DUE TO NOISE SENSITIVITY THIS RWY ONLY TO BE USED WHEN INSTRUCTED BY ATC OR DUE TO PERF CONSIDERATIONS. IN THE LATTER CASE ALL OTHER RWY OPTIONS MUST BE EXAMINED FIRST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N11/S11 (F/L) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	288.6	38/28	1.7	297.3	43/34	1.5	**304.7**	**48/40**	**0.2**	306.4	51/43	0.0	306.4	53/47
66	298.6	40/30	1.9	308.2	45/35	1.7	**316.9**	**50/41**	**0.4**	321.3	52/44	0.2	322.9	55/47
62	310.0	42/32	2.0	320.0	47/38	2.0	**329.8**	**52/43**	**0.5**	334.7	55/46	0.5	339.3	57/49
58	319.8	43/35	2.1	330.5	47/40	2.1	**341.1**	**52/46**	**0.6**	346.6	54/49	0.5	351.8	57/52
54	328.4	44/36	2.2	339.2	48/42	2.2	**350.4**	**53/48**	**0.6**	356.4	55/51	0.6	362.5	57/54
52	332.5	44/35	2.2	343.3	49/41	2.3	**354.7**	**54/47**	**0.6**	360.9	56/50	0.6	367.3	58/53
50	336.0	44/36	2.2	347.2	49/42	2.4	**359.1**	**54/48**	**0.6**	365.5	56/51	0.7	372.2	58/54
48	340.0	45/37	2.3	351.3	49/43	2.4	**363.4**	**54/48**	**0.7**	370.0	57/51	0.7	376.8	59/54
46	344.0	45/38	2.3	355.5	50/44	2.5	**368.0**	**55/49**	**0.7**	374.7	57/52	0.7	381.6	59/55
44	348.2	46/39	2.3	359.9	51/45	2.5	**372.6**	**56/50**	**0.7**	379.5	58/53	0.7	386.3	60/56
42	352.2	45/39	2.4	364.2	50/45	2.6	**377.4**	**55/51**	**0.7**	384.2	57/54	1.0	394.0	58/56
40	356.6	46/40	2.5	368.9	51/46	2.7	**382.2**	**56/52**	**0.8**	390.6	58/54	0.9	399.6	59/57
38	360.8	47/41	2.5	373.4	52/47	2.7	**386.8**	**56/52**	**1.1**	397.4	58/55	0.7	404.1	60/58
36	365.3	48/42	2.6	378.2	52/48	3.3	**394.9**	**57/53**	**0.7**	402.1	59/55	0.7	408.8	61/58
34	369.7	47/43	2.6	382.7	52/48	3.4	**399.7**	**56/53**	**0.7**	406.4	58/56	0.7	413.2	60/59
32	373.8	47/43	2.6	386.8	52/49	3.4	**403.7**	**56/54**	**0.7**	410.6	59/57	0.7	417.4	61/60
30	378.2	48/44	3.3	394.5	52/49	2.7	**408.2**	**57/55**	**0.7**	415.0	59/58	0.7	422.0	61/61
28	379.6	49/44	3.4	396.5	53/49	2.6	**409.5**	**58/55**	**0.7**	416.3	60/58	0.7	423.3	62/61
26	380.6	49/44	3.4	397.5	53/50	2.6	**410.6**	**58/55**	**0.7**	417.4	60/58	0.7	424.4	62/61
24	381.7	49/45	3.4	398.5	53/50	2.6	**411.6**	**58/56**	**0.7**	418.5	60/59	0.7	425.4	62/62
22	382.7	49/45	3.4	399.5	53/50	2.6	**412.6**	**58/56**	**0.7**	419.6	60/59	0.7	426.5	63/62
20	383.7	50/45	3.4	400.5	54/50	2.6	**413.7**	**59/56**	**0.7**	420.7	61/59	0.7	427.6	63/62
18	384.8	50/45	3.4	401.6	54/51	2.6	**414.8**	**59/56**	**0.7**	421.8	61/59	0.7	428.8	63/62
16	385.9	50/46	3.3	402.6	54/51	2.7	**415.9**	**59/57**	**0.7**	422.9	61/60	0.7	429.9	63/63
14	387.1	50/46	3.3	403.7	54/51	2.7	**417.0**	**59/57**	**0.7**	424.0	62/60	0.7	431.0	64/63
12	389.0	50/46	3.2	404.8	55/51	2.7	**418.2**	**60/57**	**0.7**	425.1	62/60	0.7	432.2	64/63
10	390.9	51/46	3.0	405.9	55/52	2.7	**419.3**	**60/57**	**0.7**	426.3	62/60	0.7	433.3	64/64
8	392.8	51/46	2.8	407.0	55/52	2.7	**420.5**	**60/58**	**0.7**	427.4	62/61	0.7	434.5	65/64
6	394.8	51/46	2.7	408.2	56/52	2.7	**421.6**	**61/58**	**0.7**	428.6	63/61	0.7	435.7	65/64
4	396.5	51/47	2.6	409.3	56/53	2.7	**422.8**	**61/58**	**0.7**	429.9	63/61	0.7	436.9	65/64
2	397.6	51/47	2.6	410.5	56/53	2.7	**423.9**	**61/59**	**0.7**	431.0	63/62	0.7	438.1	65/65
0	398.7	52/47	2.6	411.6	56/53	2.7	**425.1**	**61/59**	**0.7**	432.2	64/62	0.7	439.3	66/65

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 09R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N11/S11 (F/L) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	283.8	36/27	1.6	291.6	41/33	1.3	**298.3**	**47/38**	**0.0**	298.3	50/42	0.0	298.3	50/46
66	294.0	38/29	1.9	303.3	43/34	1.6	**311.1**	**48/40**	**0.4**	314.7	51/43	0.0	314.7	54/46
62	305.5	41/31	2.0	315.3	46/37	1.8	**324.5**	**51/42**	**0.5**	329.0	53/45	0.2	331.2	56/48
58	315.4	41/33	2.1	326.0	46/39	2.1	**336.4**	**51/44**	**0.5**	341.5	53/47	0.5	346.1	55/50
54	324.1	42/35	2.1	334.8	47/41	2.2	**345.9**	**52/46**	**0.6**	351.7	54/49	0.6	357.2	56/52
52	328.4	43/34	2.1	339.1	48/40	2.2	**350.3**	**53/45**	**0.6**	356.2	55/48	0.6	362.2	57/51
50	332.1	43/35	2.2	343.1	47/41	2.3	**354.7**	**52/46**	**0.6**	361.0	54/49	0.6	367.3	56/52
48	336.2	44/36	2.2	347.3	48/42	2.4	**359.2**	**53/47**	**0.6**	365.6	55/50	0.7	372.3	57/53
46	340.4	44/37	2.2	351.5	49/43	2.4	**363.7**	**54/48**	**0.7**	370.3	56/51	0.7	377.1	58/54
44	344.3	45/38	2.3	355.7	50/43	2.5	**368.1**	**55/49**	**0.7**	374.9	57/52	0.7	381.8	59/55
42	348.2	44/38	2.4	360.0	49/44	2.6	**372.9**	**54/50**	**0.7**	379.7	56/53	0.7	386.6	58/56
40	352.5	45/39	2.4	364.5	50/45	2.6	**377.6**	**55/51**	**0.7**	384.5	57/54	1.0	394.7	58/56
38	356.8	46/40	2.5	369.2	50/46	2.7	**382.5**	**55/51**	**0.9**	391.2	57/54	0.9	400.0	59/57
36	361.3	47/41	2.5	374.0	51/47	2.8	**387.8**	**56/52**	**1.0**	398.1	58/54	0.7	404.8	60/57
34	365.8	46/42	2.6	378.7	51/47	3.4	**395.7**	**55/52**	**0.7**	402.5	57/55	0.7	409.4	59/58
32	369.9	47/42	2.6	382.9	51/48	3.4	**400.1**	**56/53**	**0.7**	406.8	58/56	0.7	413.6	60/59
30	374.5	47/43	2.7	388.2	52/49	3.3	**404.6**	**56/54**	**0.7**	411.5	59/57	0.7	418.4	61/60
28	375.8	48/43	2.9	390.5	52/49	3.1	**406.0**	**57/54**	**0.7**	412.8	59/57	0.7	419.8	61/60
26	376.9	48/44	3.1	392.3	52/49	2.9	**407.0**	**57/54**	**0.7**	413.9	59/57	0.7	420.9	61/60
24	377.9	48/44	3.3	394.2	52/49	2.8	**408.1**	**57/55**	**0.7**	414.9	59/58	0.7	421.9	61/61
22	379.0	48/44	3.4	396.0	53/49	2.6	**409.1**	**57/55**	**0.7**	416.0	60/58	0.7	423.0	62/61
20	380.1	49/44	3.4	397.0	53/50	2.6	**410.2**	**58/55**	**0.7**	417.1	60/58	0.7	424.1	62/61
18	381.1	49/45	3.4	398.1	53/50	2.6	**411.3**	**58/55**	**0.7**	418.2	60/58	0.7	425.2	62/62
16	382.2	49/45	3.4	399.2	53/50	2.6	**412.4**	**58/56**	**0.7**	419.3	60/59	0.7	426.3	62/62
14	383.3	49/45	3.4	400.2	54/50	2.6	**413.4**	**59/56**	**0.7**	420.4	61/59	0.7	427.4	63/62
12	384.4	50/45	3.4	401.3	54/51	2.7	**414.6**	**59/56**	**0.7**	421.6	61/59	0.7	428.6	63/62
10	385.5	50/46	3.4	402.4	54/51	2.7	**415.7**	**59/57**	**0.7**	422.7	61/60	0.7	429.8	63/63
8	386.7	50/46	3.4	403.5	54/51	2.7	**416.8**	**59/57**	**0.7**	423.8	62/60	0.7	430.9	64/63
6	388.5	50/46	3.2	404.6	55/51	2.7	**418.0**	**60/57**	**0.7**	425.0	62/60	0.7	432.1	64/63
4	390.4	51/46	3.1	405.7	55/52	2.7	**419.2**	**60/57**	**0.7**	426.2	62/60	0.7	433.3	64/64
2	392.4	51/46	2.9	406.9	55/52	2.7	**420.4**	**60/58**	**0.7**	427.4	62/61	0.7	434.4	65/64
0	394.5	51/46	2.7	408.1	55/52	2.7	**421.6**	**61/58**	**0.7**	428.6	63/61	0.7	435.5	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 09R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N8 (300M) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.009% UP
TOR	3351m (10994ft)	**ED**	3351m (10994ft)	**TOD**	3351m (10994ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	272.2	32/22	1.8	281.2	37/27	1.7	**289.8**	**42/33**	**0.5**	294.4	44/36	0.4	298.3	47/39
66	281.7	34/23	1.9	291.1	39/29	1.8	**300.2**	**44/34**	**0.5**	305.5	47/37	0.5	310.9	49/40
62	292.6	37/26	2.0	302.5	42/31	1.9	**311.8**	**47/37**	**0.6**	317.4	49/40	0.6	323.5	52/43
58	302.2	38/28	2.1	312.8	42/34	2.0	**323.0**	**47/39**	**0.6**	328.9	50/42	0.6	334.9	52/45
54	310.4	38/30	2.2	321.3	43/36	2.2	**332.5**	**48/41**	**0.6**	338.3	50/44	0.6	344.4	53/47
52	314.4	39/29	2.2	325.5	44/35	2.2	**336.7**	**49/40**	**0.6**	342.5	51/43	0.6	348.8	53/47
50	317.9	39/30	2.3	329.3	44/36	2.3	**340.8**	**49/41**	**0.6**	347.0	51/44	0.6	353.4	53/47
48	322.1	40/31	2.3	333.4	44/36	2.3	**345.0**	**49/42**	**0.6**	351.3	52/45	0.7	357.8	54/48
46	326.1	40/31	2.3	337.4	45/37	2.4	**349.2**	**50/43**	**0.6**	355.6	52/46	0.7	362.3	55/49
44	330.1	41/32	2.3	341.4	46/38	2.4	**353.3**	**51/44**	**0.7**	359.9	53/47	0.7	366.7	55/50
42	333.6	40/33	2.3	345.3	45/39	2.5	**357.6**	**50/45**	**0.7**	364.4	52/48	0.7	371.4	54/51
40	337.7	41/34	2.4	349.5	46/39	2.5	**362.0**	**51/45**	**0.7**	369.0	53/48	0.7	376.1	55/52
38	341.8	42/34	2.4	353.8	47/40	2.6	**366.6**	**52/46**	**0.7**	373.7	54/49	0.7	381.0	56/53
36	346.0	43/35	2.4	358.2	48/41	2.6	**371.4**	**53/47**	**0.7**	378.6	55/50	0.7	385.9	57/53
34	350.1	42/36	2.5	362.5	47/42	2.7	**375.8**	**52/48**	**0.7**	383.2	54/51	1.0	393.1	56/54
32	353.9	43/37	2.5	366.6	48/43	2.7	**380.2**	**53/49**	**0.8**	388.0	55/52	1.1	398.6	56/54
30	358.1	43/37	2.6	371.1	48/43	2.7	**384.8**	**53/49**	**1.1**	396.1	55/52	0.7	403.1	57/55
28	359.4	44/38	2.6	372.4	49/44	2.8	**386.2**	**54/50**	**1.1**	397.4	55/52	0.7	404.5	57/55
26	360.3	44/38	2.6	373.4	49/44	2.8	**387.5**	**54/50**	**1.1**	398.4	55/52	0.7	405.5	58/55
24	361.3	44/38	2.6	374.4	49/44	3.0	**389.3**	**54/50**	**1.0**	399.4	56/52	0.7	406.6	58/56
22	362.2	44/38	2.7	375.5	49/44	3.1	**391.1**	**54/50**	**0.9**	400.4	56/53	0.7	407.6	58/56
20	363.2	45/39	2.7	376.5	50/45	3.3	**393.0**	**54/50**	**0.9**	401.5	56/53	0.7	408.7	58/56
18	364.2	45/39	2.7	377.6	50/45	3.5	**394.9**	**54/50**	**0.8**	402.5	56/53	0.7	409.8	59/57
16	365.3	45/39	2.7	378.7	50/45	3.5	**396.4**	**55/50**	**0.7**	403.6	57/53	0.7	410.9	59/57
14	366.3	46/39	2.7	379.8	51/45	3.5	**397.5**	**55/51**	**0.7**	404.7	57/54	0.7	412.0	59/57
12	367.4	46/40	2.7	380.9	51/46	3.5	**398.6**	**55/51**	**0.7**	405.8	57/54	0.7	413.1	59/57
10	368.4	46/40	2.7	382.0	51/46	3.5	**399.7**	**55/51**	**0.7**	406.9	58/54	0.7	414.2	60/58
8	369.5	46/40	2.7	383.1	51/46	3.5	**400.8**	**56/51**	**0.7**	408.0	58/55	0.7	415.3	60/58
6	370.6	47/40	2.7	384.3	52/46	3.5	**401.9**	**56/52**	**0.7**	409.2	58/55	0.7	416.5	60/58
4	371.7	47/41	2.7	385.4	52/47	3.5	**403.0**	**56/52**	**0.7**	410.3	58/55	0.7	417.7	61/59
2	372.8	47/41	2.8	386.6	52/47	3.5	**404.1**	**56/52**	**0.7**	411.5	59/55	0.7	418.9	61/59
0	374.0	47/41	2.9	388.4	52/47	3.4	**405.3**	**57/53**	**0.7**	412.6	59/56	0.8	420.1	61/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 09R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N7/S7 (700M) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.011% UP
TOR	2852m (9356ft)	**ED**	2852m (9356ft)	**TOD**	2852m (9356ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.6	25/13	1.8	261.4	30/19	1.7	**269.7**	**36/25**	**0.5**	274.9	38/28	0.5	280.2	40/31
66	261.2	27/14	1.8	270.3	32/20	1.8	**279.1**	**38/26**	**0.5**	284.5	40/29	0.6	290.1	42/32
62	271.0	29/17	1.9	280.7	35/22	1.8	**289.9**	**40/29**	**0.6**	295.6	43/31	0.6	301.4	45/35
58	280.5	30/19	2.0	290.6	36/25	1.9	**300.3**	**41/31**	**0.6**	306.2	43/34	0.6	312.1	46/37
54	288.0	31/21	2.1	298.5	36/26	2.1	**309.1**	**42/33**	**0.6**	315.2	44/36	0.6	321.3	46/39
52	291.7	32/20	2.1	302.4	37/25	2.1	**313.1**	**43/32**	**0.6**	319.4	45/35	0.6	325.5	47/38
50	294.8	31/21	2.2	305.6	37/26	2.3	**317.3**	**42/32**	**0.6**	323.7	44/36	0.6	330.0	47/39
48	298.6	32/21	2.2	309.6	38/27	2.4	**321.5**	**43/33**	**0.6**	327.9	45/36	0.6	334.1	47/40
46	302.4	33/22	2.2	313.5	38/28	2.4	**325.5**	**44/34**	**0.6**	331.9	46/37	0.6	338.1	48/41
44	306.0	34/23	2.3	317.3	39/28	2.4	**329.4**	**44/35**	**0.6**	335.8	47/38	0.6	342.1	49/41
42	309.0	33/23	2.3	320.7	38/29	2.5	**333.0**	**44/36**	**0.7**	339.6	46/39	0.7	346.2	48/42
40	312.9	34/24	2.4	324.7	39/30	2.5	**337.1**	**44/36**	**0.7**	343.7	47/40	0.7	350.4	49/43
38	316.9	35/25	2.4	328.8	40/31	2.5	**341.3**	**45/37**	**0.7**	347.9	47/40	0.7	354.7	50/44
36	321.0	36/26	2.4	332.9	41/32	2.5	**345.4**	**46/38**	**0.7**	352.2	48/41	0.7	359.1	51/45
34	324.8	35/26	2.4	336.8	40/32	2.5	**349.4**	**45/39**	**0.7**	356.3	47/42	0.7	363.4	50/45
32	328.4	35/27	2.4	340.5	41/33	2.5	**353.2**	**46/39**	**0.7**	360.2	48/43	0.7	367.5	51/46
30	332.3	36/28	2.4	344.4	42/34	2.6	**357.4**	**47/40**	**0.7**	364.6	49/43	0.7	372.0	51/47
28	333.4	36/28	2.4	345.6	42/34	2.6	**358.6**	**47/41**	**0.7**	365.9	49/44	0.8	373.4	52/47
26	334.3	37/28	2.4	346.5	42/34	2.6	**359.6**	**47/41**	**0.7**	366.9	50/44	0.8	374.4	52/47
24	335.2	37/28	2.4	347.4	42/34	2.6	**360.6**	**48/41**	**0.7**	367.9	50/44	0.8	375.4	52/48
22	336.1	37/29	2.4	348.3	43/35	2.6	**361.5**	**48/41**	**0.7**	368.9	50/45	0.8	376.5	52/48
20	337.0	38/29	2.4	349.2	43/35	2.7	**362.5**	**48/42**	**0.7**	369.9	50/45	0.8	377.5	53/48
18	337.9	38/29	2.5	350.2	43/35	2.7	**363.5**	**48/42**	**0.8**	371.0	51/45	0.8	378.6	53/48
16	338.8	38/29	2.5	351.1	43/35	2.7	**364.5**	**49/42**	**0.8**	372.0	51/45	0.8	379.7	53/49
14	339.8	38/30	2.5	352.1	44/36	2.7	**365.6**	**49/42**	**0.8**	373.1	51/46	0.8	380.8	54/49
12	340.7	39/30	2.5	353.0	44/36	2.7	**366.6**	**49/43**	**0.8**	374.1	52/46	0.8	381.9	54/49
10	341.6	39/30	2.5	354.0	44/36	2.7	**367.7**	**49/43**	**0.8**	375.2	52/46	0.8	383.0	54/49
8	342.6	39/30	2.5	355.0	45/37	2.8	**368.8**	**50/43**	**0.8**	376.4	52/46	0.8	384.1	54/50
6	343.5	39/31	2.5	356.0	45/37	2.8	**369.9**	**50/43**	**0.8**	377.5	52/47	0.8	385.3	55/50
4	344.5	40/31	2.5	357.1	45/37	2.8	**371.0**	**50/44**	**0.8**	378.7	53/47	0.8	386.4	55/50
2	345.5	40/31	2.5	358.1	45/37	2.8	**372.1**	**51/44**	**0.8**	379.8	53/47	0.8	388.1	55/51
0	346.5	40/31	2.5	359.2	46/38	2.8	**373.2**	**51/44**	**0.8**	381.0	53/47	0.9	390.1	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 09R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

S1/N1 (F/L) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	283.2	37/27	1.7	291.8	42/33	1.6	**299.9**	**47/38**	**0.5**	304.6	49/41	0.2	306.4	52/45
66	293.6	39/29	1.8	302.6	44/34	1.7	**311.1**	**49/40**	**0.5**	316.1	51/43	0.5	321.2	54/46
62	305.2	41/31	1.9	314.5	46/36	1.8	**323.5**	**52/42**	**0.5**	328.8	54/45	0.5	334.0	56/48
58	315.4	42/33	2.0	325.5	47/39	1.9	**335.1**	**52/45**	**0.5**	340.5	54/48	0.5	345.8	56/51
54	324.1	43/35	2.1	334.4	48/41	2.1	**344.9**	**53/46**	**0.6**	350.4	55/49	0.6	356.1	57/53
52	328.4	43/34	2.1	338.7	48/40	2.1	**349.4**	**53/45**	**0.6**	355.0	56/48	0.6	360.8	58/52
50	332.1	43/35	2.1	342.6	48/41	2.3	**354.0**	**53/46**	**0.6**	359.9	55/49	0.6	365.8	57/52
48	336.0	43/36	2.2	346.8	48/41	2.3	**358.5**	**53/47**	**0.6**	364.4	56/50	0.6	370.5	58/53
46	340.1	44/36	2.2	351.1	49/42	2.4	**363.0**	**54/48**	**0.6**	369.2	57/51	0.6	375.4	59/54
44	344.2	45/37	2.3	355.5	50/43	2.4	**367.7**	**55/49**	**0.6**	374.0	57/52	0.6	380.4	60/55
42	348.1	44/38	2.4	359.9	49/44	2.5	**372.4**	**54/49**	**0.7**	378.9	56/53	0.6	385.2	58/56
40	352.4	45/39	2.4	364.5	50/45	2.6	**377.3**	**55/50**	**0.7**	383.8	57/53	0.8	392.0	59/56
38	356.5	46/39	2.5	368.9	51/45	2.6	**382.1**	**55/51**	**0.7**	389.5	58/54	0.9	398.2	59/57
36	360.9	47/40	2.5	373.6	51/46	2.7	**386.9**	**56/52**	**1.0**	396.8	58/54	0.6	403.0	60/57
34	365.2	46/41	2.6	378.1	51/47	3.2	**394.2**	**55/52**	**0.7**	401.3	57/55	0.6	407.6	59/58
32	369.2	46/42	2.6	382.2	51/47	3.4	**399.0**	**55/53**	**0.7**	405.5	58/56	0.7	412.0	60/59
30	373.6	47/42	2.6	386.7	52/48	3.4	**403.5**	**56/53**	**0.7**	410.2	58/56	0.7	416.7	61/59
28	374.9	47/43	2.8	388.8	52/48	3.2	**404.8**	**57/54**	**0.7**	411.5	59/57	0.7	418.0	61/60
26	375.9	48/43	2.9	390.6	52/48	3.0	**405.7**	**57/54**	**0.7**	412.4	59/57	0.7	418.9	61/60
24	377.0	48/43	3.1	392.4	52/49	2.9	**406.7**	**57/54**	**0.7**	413.3	59/57	0.7	419.9	62/60
22	378.0	48/43	3.2	394.2	53/49	2.7	**407.7**	**57/54**	**0.7**	414.3	60/57	0.7	420.9	62/61
20	379.1	48/44	3.3	395.8	53/49	2.6	**408.7**	**58/55**	**0.7**	415.3	60/58	0.7	421.8	62/61
18	380.2	49/44	3.3	396.9	53/49	2.6	**409.7**	**58/55**	**0.7**	416.3	60/58	0.7	422.8	62/61
16	381.3	49/44	3.3	397.8	53/49	2.6	**410.7**	**58/55**	**0.7**	417.3	60/58	0.7	423.8	63/62
14	382.3	49/44	3.3	398.8	53/50	2.6	**411.7**	**59/55**	**0.7**	418.3	61/59	0.7	424.8	63/62
12	383.4	49/45	3.3	399.8	54/50	2.6	**412.7**	**59/56**	**0.7**	419.3	61/59	0.7	425.9	63/62
10	384.5	50/45	3.3	400.8	54/50	2.6	**413.7**	**59/56**	**0.7**	420.3	61/59	0.7	426.9	64/62
8	385.7	50/45	3.2	401.8	54/50	2.6	**414.8**	**59/56**	**0.7**	421.4	62/59	0.7	427.9	64/63
6	386.8	50/45	3.2	402.8	55/51	2.6	**415.8**	**60/57**	**0.7**	422.4	62/60	0.7	429.0	64/63
4	388.6	50/46	3.1	403.9	55/51	2.6	**416.9**	**60/57**	**0.7**	423.4	62/60	0.7	430.1	65/63
2	390.4	51/46	2.9	404.9	55/51	2.6	**417.9**	**60/57**	**0.7**	424.5	63/60	0.7	431.1	65/64
0	392.1	51/46	2.8	405.9	56/52	2.6	**419.0**	**61/58**	**0.7**	425.5	63/61	0.7	432.1	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27L

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

S1/N1 (F/L) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	278.3	36/26	1.7	286.6	41/31	1.6	**294.5**	**46/37**	**0.4**	298.3	48/40	0.0	298.3	50/44
66	288.8	38/27	1.8	297.6	43/33	1.7	**305.9**	**48/38**	**0.5**	310.7	50/41	0.4	314.7	52/44
62	300.6	40/30	1.8	309.7	45/35	1.7	**318.4**	**50/41**	**0.5**	323.5	53/44	0.5	328.8	55/47
58	311.0	41/32	2.0	320.8	45/38	1.9	**330.3**	**51/43**	**0.5**	335.4	53/46	0.5	340.8	55/49
54	319.7	41/34	2.1	330.0	46/40	2.0	**340.2**	**51/45**	**0.5**	345.5	53/48	0.6	351.0	56/51
52	324.0	42/33	2.1	334.3	47/39	2.1	**344.6**	**52/44**	**0.6**	350.1	54/47	0.6	355.7	56/50
50	327.9	42/34	2.1	338.3	47/39	2.2	**349.3**	**52/45**	**0.6**	355.0	54/48	0.6	360.7	56/51
48	332.2	42/35	2.1	342.7	47/40	2.2	**353.9**	**52/46**	**0.6**	359.7	55/49	0.6	365.6	57/52
46	336.3	43/35	2.1	346.9	48/41	2.3	**358.5**	**53/47**	**0.6**	364.4	55/50	0.6	370.5	58/53
44	340.3	44/36	2.2	351.1	49/42	2.4	**363.0**	**54/48**	**0.6**	369.1	56/51	0.6	375.4	58/54
42	344.2	43/37	2.2	355.4	48/43	2.5	**367.7**	**53/48**	**0.6**	374.0	55/51	0.6	380.4	57/55
40	348.4	44/38	2.3	360.0	49/43	2.5	**372.6**	**54/49**	**0.6**	379.0	56/52	0.6	385.4	58/55
38	352.7	45/38	2.4	364.6	49/44	2.6	**377.5**	**54/50**	**0.7**	384.1	57/53	0.8	392.4	58/56
36	357.1	45/39	2.5	369.5	50/45	2.6	**382.6**	**55/51**	**0.8**	390.4	57/54	0.8	398.8	59/56
34	361.4	45/40	2.5	374.0	50/46	2.7	**387.5**	**54/52**	**1.0**	397.2	56/54	0.6	403.5	58/57
32	365.4	45/41	2.6	378.3	50/46	3.3	**394.6**	**55/52**	**0.7**	401.6	57/55	0.6	408.0	59/58
30	369.9	46/41	2.6	383.0	51/47	3.4	**399.8**	**55/52**	**0.7**	406.4	58/55	0.7	412.9	60/59
28	371.2	46/42	2.6	384.3	51/48	3.4	**401.1**	**56/53**	**0.7**	407.7	58/56	0.7	414.2	60/59
26	372.2	47/42	2.6	385.4	52/48	3.3	**402.0**	**56/53**	**0.7**	408.6	58/56	0.7	415.1	60/59
24	373.3	47/42	2.6	386.5	52/48	3.3	**403.0**	**56/53**	**0.7**	409.6	58/56	0.7	416.1	61/60
22	374.3	47/42	2.7	388.0	52/48	3.2	**404.0**	**56/53**	**0.7**	410.6	59/57	0.6	417.0	61/60
20	375.4	48/43	2.8	389.6	52/48	3.1	**404.9**	**57/54**	**0.7**	411.5	59/57	0.7	418.0	61/60
18	376.4	48/43	3.0	391.2	52/49	2.9	**405.9**	**57/54**	**0.7**	412.5	59/57	0.7	419.0	62/60
16	377.5	48/43	3.1	392.8	53/49	2.8	**406.9**	**57/54**	**0.7**	413.4	60/57	0.7	420.0	62/61
14	378.6	48/44	3.2	394.5	53/49	2.7	**407.9**	**58/55**	**0.7**	414.4	60/58	0.7	421.0	62/61
12	379.7	49/44	3.3	396.1	53/49	2.6	**409.0**	**58/55**	**0.6**	415.4	60/58	0.7	422.0	62/61
10	380.8	49/44	3.3	397.1	53/49	2.6	**410.0**	**58/55**	**0.6**	416.4	61/58	0.7	423.0	63/62
8	382.0	49/44	3.2	398.1	53/50	2.6	**411.0**	**59/55**	**0.6**	417.4	61/59	0.7	424.0	63/62
6	383.1	49/45	3.2	399.1	54/50	2.6	**412.0**	**59/56**	**0.7**	418.5	61/59	0.7	425.0	63/62
4	384.1	50/45	3.2	400.1	54/50	2.6	**413.0**	**59/56**	**0.7**	419.5	61/59	0.7	426.0	64/63
2	385.2	50/45	3.2	401.2	54/50	2.6	**414.0**	**60/56**	**0.7**	420.6	62/60	0.7	427.1	64/63
0	386.3	50/45	3.2	402.2	55/51	2.6	**415.1**	**60/57**	**0.7**	421.6	62/60	0.7	428.2	64/63

P/C above 1013 + 0.2
P/C below 1013 - 0.7

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27L

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N2W (300M) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.018% DN
TOR	3380m (11089ft)	**ED**	3380m (11089ft)	**TOD**	3380m (11089ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.7	33/23	1.7	280.1	38/28	1.6	**288.0**	**43/34**	**0.5**	292.7	45/37	0.5	297.6	48/40
66	281.9	35/24	1.8	290.7	40/30	1.7	**299.1**	**45/35**	**0.5**	303.9	48/38	0.5	309.1	50/41
62	293.3	37/26	1.8	302.5	43/32	1.7	**311.2**	**48/38**	**0.5**	316.4	50/41	0.5	321.8	53/44
58	303.3	38/28	2.0	313.5	43/34	1.9	**322.8**	**48/40**	**0.5**	328.1	50/43	0.6	333.7	53/46
54	311.8	39/30	2.1	322.3	44/36	2.1	**332.6**	**49/42**	**0.5**	338.0	51/45	0.6	343.7	53/48
52	315.9	40/29	2.2	326.7	45/35	2.1	**337.0**	**50/41**	**0.6**	342.5	52/44	0.6	348.2	54/47
50	319.4	39/30	2.2	330.6	44/36	2.2	**341.6**	**49/42**	**0.6**	347.1	51/45	0.6	353.0	54/48
48	323.5	40/31	2.3	334.8	45/37	2.2	**345.9**	**50/43**	**0.6**	351.7	52/46	0.6	357.7	54/49
46	327.6	41/32	2.3	339.0	46/38	2.3	**350.3**	**51/43**	**0.6**	356.2	53/47	0.6	362.4	55/50
44	331.5	42/33	2.3	342.9	46/38	2.3	**354.5**	**51/44**	**0.6**	360.6	54/47	0.6	367.0	56/51
42	335.1	41/33	2.4	346.9	45/39	2.4	**359.0**	**50/45**	**0.6**	365.3	53/48	0.7	371.9	55/51
40	339.3	41/34	2.4	351.1	46/40	2.5	**363.6**	**51/46**	**0.7**	370.1	54/49	0.7	376.8	56/52
38	343.4	42/35	2.4	355.4	47/41	2.6	**368.3**	**52/47**	**0.7**	375.0	54/50	0.7	381.9	56/53
36	347.6	43/36	2.5	359.9	48/42	2.6	**373.1**	**53/48**	**0.7**	380.2	55/51	0.7	387.1	57/54
34	351.7	42/36	2.5	364.2	47/42	2.7	**377.6**	**52/48**	**0.7**	384.9	54/51	1.0	394.5	56/54
32	355.5	43/37	2.6	368.4	48/43	2.7	**381.9**	**53/49**	**0.9**	390.8	55/52	0.9	399.5	57/55
30	359.8	44/38	2.6	372.9	49/44	2.7	**386.6**	**54/50**	**1.1**	397.5	55/52	0.7	404.2	57/55
28	361.0	44/38	2.6	374.2	49/44	2.9	**388.7**	**54/50**	**1.0**	398.7	55/52	0.7	405.5	58/56
26	362.0	44/38	2.6	375.2	49/44	3.1	**390.5**	**54/50**	**0.9**	399.7	56/53	0.7	406.4	58/56
24	363.0	45/39	2.7	376.3	50/45	3.2	**392.3**	**54/50**	**0.8**	400.6	56/53	0.7	407.4	58/56
22	363.9	45/39	2.7	377.3	50/45	3.4	**394.1**	**54/50**	**0.7**	401.5	56/53	0.7	408.3	59/57
20	364.9	45/39	2.7	378.4	50/45	3.5	**395.7**	**54/50**	**0.7**	402.5	57/54	0.7	409.3	59/57
18	366.0	45/39	2.7	379.5	50/45	3.5	**396.8**	**55/51**	**0.7**	403.4	57/54	0.7	410.3	59/57
16	367.0	46/40	2.7	380.6	51/46	3.4	**397.8**	**55/51**	**0.7**	404.4	57/54	0.7	411.3	59/57
14	368.1	46/40	2.7	381.7	51/46	3.4	**398.7**	**55/51**	**0.7**	405.4	57/54	0.7	412.2	60/58
12	369.1	46/40	2.7	382.8	51/46	3.4	**399.7**	**55/52**	**0.7**	406.4	58/55	0.7	413.2	60/58
10	370.2	46/40	2.7	383.9	51/46	3.4	**400.7**	**56/52**	**0.7**	407.4	58/55	0.7	414.2	60/58
8	371.3	47/41	2.7	385.0	52/47	3.4	**401.8**	**56/52**	**0.7**	408.4	58/55	0.7	415.2	61/59
6	372.4	47/41	2.8	386.2	52/47	3.3	**402.8**	**56/52**	**0.7**	409.4	59/56	0.7	416.2	61/59
4	373.5	47/41	2.8	387.6	52/47	3.2	**403.8**	**57/53**	**0.7**	410.5	59/56	0.7	417.3	61/59
2	374.6	48/42	3.0	389.4	52/47	3.1	**404.9**	**57/53**	**0.7**	411.5	59/56	0.7	418.3	62/60
0	375.8	48/42	3.1	391.2	53/48	2.9	**405.9**	**57/53**	**0.7**	412.5	60/56	0.7	419.4	62/60

P/C above 1013 + 0.2
P/C below 1013 - 0.7

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PERFORMANCE RESTRICTIONS - Rwy 27L

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BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

N3/S3 (400M) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.019% DN
TOR	3212m (10538ft)	**ED**	3212m (10538ft)	**TOD**	3212m (10538ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	266.0	30/20	1.7	274.3	36/25	1.6	**282.3**	**41/31**	**0.5**	287.1	43/34	0.5	291.9	45/37
66	275.8	33/21	1.8	284.6	38/27	1.7	**293.0**	**43/32**	**0.5**	298.0	45/35	0.5	303.2	48/39
62	286.9	35/23	1.8	296.1	40/29	1.8	**305.0**	**46/35**	**0.5**	310.2	48/38	0.5	315.6	50/41
58	296.6	36/25	2.0	306.7	41/31	1.9	**316.2**	**46/37**	**0.6**	321.7	48/40	0.6	327.4	50/44
54	304.6	37/27	2.1	315.2	42/33	2.2	**326.0**	**47/39**	**0.6**	331.6	49/42	0.6	337.3	51/45
52	308.6	37/26	2.2	319.4	42/32	2.2	**330.4**	**48/38**	**0.6**	336.0	50/41	0.6	341.7	52/45
50	312.0	37/27	2.2	322.9	42/33	2.3	**334.6**	**47/39**	**0.6**	340.6	49/42	0.6	346.4	51/45
48	316.0	38/28	2.2	327.1	43/34	2.4	**339.0**	**48/40**	**0.6**	344.9	50/43	0.6	350.9	52/46
46	320.0	38/29	2.2	331.1	44/35	2.4	**343.1**	**49/41**	**0.6**	349.3	51/44	0.6	355.4	53/47
44	323.8	39/30	2.2	335.0	44/35	2.4	**347.0**	**49/41**	**0.7**	353.6	52/44	0.6	359.8	54/48
42	327.4	38/30	2.3	338.8	43/36	2.5	**351.2**	**48/42**	**0.7**	357.9	51/45	0.7	364.5	53/49
40	331.5	39/31	2.3	342.9	44/37	2.5	**355.5**	**49/43**	**0.7**	362.4	51/46	0.7	369.3	54/50
38	335.5	40/32	2.3	347.1	45/38	2.6	**359.9**	**50/44**	**0.7**	367.0	52/47	0.7	374.2	54/50
36	339.7	41/33	2.3	351.4	46/39	2.6	**364.5**	**51/45**	**0.7**	371.8	53/48	0.7	379.1	55/51
34	343.7	40/33	2.4	355.5	45/39	2.7	**368.9**	**50/45**	**0.7**	376.2	52/49	0.7	383.6	54/52
32	347.4	41/34	2.4	359.4	46/40	2.7	**373.0**	**51/46**	**0.8**	380.5	53/49	0.8	388.7	55/53
30	351.5	41/35	2.5	363.8	47/41	2.8	**377.7**	**52/47**	**0.8**	385.2	54/50	1.1	396.5	55/53
28	352.7	42/35	2.5	365.0	47/41	2.8	**379.0**	**52/47**	**0.8**	386.6	54/50	1.1	397.8	56/53
26	353.6	42/35	2.5	366.0	47/41	2.8	**380.1**	**52/47**	**0.8**	388.2	54/50	1.1	398.8	56/53
24	354.5	42/35	2.5	367.0	47/42	2.8	**381.1**	**52/48**	**0.9**	390.0	55/51	1.0	399.7	56/54
22	355.4	43/36	2.5	368.0	48/42	2.8	**382.2**	**53/48**	**1.0**	391.8	55/51	0.9	400.7	56/54
20	356.4	43/36	2.5	369.1	48/42	2.8	**383.2**	**53/48**	**1.0**	393.6	55/51	0.8	401.6	57/54
18	357.4	43/36	2.5	370.1	48/42	2.8	**384.3**	**53/49**	**1.1**	395.5	55/51	0.7	402.6	57/54
16	358.4	43/37	2.6	371.2	49/43	2.8	**385.4**	**54/49**	**1.1**	396.7	55/51	0.7	403.6	57/55
14	359.4	44/37	2.6	372.2	49/43	2.9	**386.5**	**54/49**	**1.1**	397.7	55/51	0.7	404.5	58/55
12	360.4	44/37	2.6	373.3	49/43	3.0	**388.1**	**54/49**	**1.1**	398.7	56/52	0.7	405.5	58/55
10	361.4	44/37	2.6	374.4	49/43	3.1	**390.1**	**54/49**	**1.0**	399.7	56/52	0.7	406.5	58/55
8	362.4	44/38	2.6	375.5	50/44	3.3	**392.0**	**54/50**	**0.9**	400.7	56/52	0.7	407.5	58/56
6	363.5	45/38	2.6	376.6	50/44	3.5	**393.9**	**54/50**	**0.8**	401.7	57/53	0.7	408.6	59/56
4	364.6	45/38	2.6	377.8	50/44	3.6	**395.7**	**55/50**	**0.7**	402.7	57/53	0.7	409.6	59/56
2	365.7	45/38	2.6	378.9	50/44	3.6	**396.8**	**55/50**	**0.7**	403.7	57/53	0.7	410.6	59/57
0	366.8	46/39	2.7	380.1	51/45	3.6	**397.9**	**55/50**	**0.7**	404.8	57/53	0.7	411.6	60/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27L

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A1/A2/A3 (F/L) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3882m (12736ft)	**ED**	3882m (12736ft)	**TOD**	3960m (12992ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	289.9	41/31	1.4	297.0	46/37	1.3	**303.7**	**51/43**	**0.3**	306.4	53/46	0.0	306.4	53/50
66	302.1	42/33	1.5	309.4	48/38	1.4	**316.6**	**53/44**	**0.4**	320.5	55/47	0.2	322.9	57/51
62	315.0	45/35	1.5	322.7	50/41	1.5	**330.3**	**55/47**	**0.4**	334.4	58/50	0.4	338.5	60/53
58	326.0	45/37	1.8	334.9	50/43	1.6	**342.7**	**55/49**	**0.4**	347.1	57/52	0.4	351.4	60/55
54	335.6	45/39	1.8	344.7	50/45	1.8	**353.7**	**56/51**	**0.5**	358.3	58/54	0.5	362.9	61/57
52	340.0	46/38	1.9	349.5	51/44	1.9	**358.9**	**56/50**	**0.5**	363.7	59/53	0.5	368.5	61/56
50	344.2	45/39	2.0	354.3	50/45	2.0	**364.3**	**56/50**	**0.5**	369.2	58/53	0.5	374.1	60/57
48	348.4	46/39	2.1	358.9	51/45	2.1	**369.3**	**56/51**	**0.5**	374.3	59/54	0.5	379.5	61/57
46	352.9	47/40	2.1	363.6	52/46	2.2	**374.5**	**57/52**	**0.5**	379.7	60/55	0.5	384.7	62/58
44	357.4	48/41	2.2	368.4	53/47	2.3	**379.7**	**58/53**	**0.5**	384.8	60/56	0.6	390.9	63/59
42	361.9	47/42	2.3	373.2	52/48	2.3	**384.7**	**57/53**	**0.6**	391.0	59/56	0.6	397.3	61/59
40	366.6	47/43	2.3	378.2	52/48	2.5	**390.9**	**57/54**	**0.7**	397.5	59/57	0.5	402.5	62/60
38	371.1	48/43	2.4	383.0	53/49	2.9	**397.5**	**58/54**	**0.5**	402.6	60/57	0.5	407.9	62/61
36	375.8	49/44	2.5	388.5	54/50	2.8	**402.5**	**58/55**	**0.6**	408.0	61/58	0.6	413.5	63/61
34	380.5	48/45	3.1	395.9	52/50	2.3	**407.4**	**57/56**	**0.6**	413.0	60/59	0.6	418.7	62/62
32	384.6	49/45	3.1	400.1	53/51	2.4	**411.9**	**58/56**	**0.6**	417.7	60/59	0.6	423.5	63/63
30	390.6	49/46	2.8	404.8	54/51	2.4	**416.7**	**59/57**	**0.6**	422.9	61/60	0.6	428.8	63/63
28	392.9	49/46	2.6	406.0	54/52	2.4	**418.0**	**59/57**	**0.6**	424.0	61/60	0.6	430.0	64/64
26	394.7	50/46	2.4	406.9	54/52	2.4	**418.9**	**59/58**	**0.6**	424.8	62/61	0.6	430.8	64/64
24	396.2	50/46	2.3	407.8	55/52	2.4	**419.8**	**60/58**	**0.6**	425.6	62/61	0.6	431.6	64/64
22	397.1	50/46	2.3	408.7	55/52	2.4	**420.6**	**60/58**	**0.6**	426.5	62/61	0.6	432.4	65/65
20	398.0	50/47	2.3	409.6	55/53	2.4	**421.4**	**60/59**	**0.6**	427.3	63/62	0.6	433.1	65/65
18	398.9	50/47	2.3	410.5	56/53	2.4	**422.3**	**61/59**	**0.6**	428.1	63/62	0.6	433.9	65/65
16	399.8	51/47	2.3	411.4	56/53	2.3	**423.1**	**61/59**	**0.6**	428.9	63/62	0.6	434.7	66/66
14	400.7	51/48	2.3	412.4	56/54	2.3	**424.0**	**61/59**	**0.6**	429.6	64/63	0.6	435.4	66/66
12	401.7	51/48	2.3	413.3	56/54	2.3	**424.8**	**62/60**	**0.6**	430.4	64/63	0.6	436.2	67/66
10	402.6	52/48	2.3	414.2	57/54	2.3	**425.7**	**62/60**	**0.6**	431.2	65/63	0.6	436.9	67/67
8	403.6	52/48	2.3	415.1	57/54	2.3	**426.5**	**62/60**	**0.6**	432.0	65/64	0.6	437.7	67/67
6	404.5	52/49	2.3	416.0	57/55	2.3	**427.3**	**63/61**	**0.6**	432.8	65/64	0.6	438.5	68/67
4	405.5	53/49	2.3	416.9	58/55	2.2	**428.1**	**63/61**	**0.6**	433.6	66/64	0.6	439.2	68/68
2	406.5	53/49	2.3	417.8	58/55	2.2	**428.9**	**64/62**	**0.6**	434.4	66/65	0.6	440.0	68/68
0	407.5	53/50	2.2	418.7	58/56	2.2	**429.7**	**64/62**	**0.6**	435.2	66/65	0.6	440.7	69/69

P/C above 1013 + 0.2
P/C below 1013 - 0.7

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A1/A2/A3 (F/L) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3882m (12736ft)	**ED**	3882m (12736ft)	**TOD**	3960m (12992ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	284.1	39/30	1.4	290.9	44/36	1.3	**297.4**	**50/42**	**0.1**	298.3	50/45	0.0	298.3	50/49
66	296.4	41/31	1.4	303.5	46/37	1.4	**310.4**	**52/43**	**0.4**	314.3	54/46	0.0	314.7	55/49
62	309.4	43/34	1.5	316.9	49/39	1.5	**324.2**	**54/45**	**0.4**	328.3	57/48	0.3	331.2	59/52
58	320.9	44/36	1.7	329.5	49/42	1.5	**337.0**	**54/48**	**0.4**	341.2	56/51	0.4	345.3	59/54
54	330.7	44/38	1.8	339.6	49/44	1.7	**348.0**	**55/49**	**0.4**	352.4	57/52	0.5	356.9	59/56
52	335.3	45/37	1.8	344.4	50/43	1.7	**353.1**	**55/48**	**0.5**	357.7	58/51	0.5	362.3	60/55
50	339.6	44/38	1.9	349.1	49/43	1.9	**358.4**	**55/49**	**0.5**	363.2	57/52	0.5	367.9	60/56
48	344.0	45/38	2.0	353.9	50/44	1.9	**363.6**	**55/50**	**0.5**	368.6	58/53	0.5	373.6	60/56
46	348.4	46/39	2.0	358.6	51/45	2.1	**368.9**	**56/51**	**0.5**	374.0	59/54	0.5	379.2	61/57
44	352.8	47/40	2.1	363.4	52/46	2.1	**374.1**	**57/52**	**0.5**	379.4	59/55	0.5	384.5	62/58
42	357.2	46/41	2.2	368.2	51/47	2.3	**379.5**	**56/52**	**0.5**	384.7	58/55	0.6	390.7	60/58
40	361.8	46/42	2.3	373.2	51/47	2.3	**384.7**	**56/53**	**0.6**	390.9	59/56	0.6	397.1	61/59
38	366.7	47/42	2.3	378.3	52/48	2.6	**391.3**	**57/54**	**0.6**	397.5	59/56	0.5	402.7	61/60
36	371.7	48/43	2.4	383.5	53/49	2.9	**397.9**	**57/54**	**0.5**	403.1	60/57	0.5	408.5	62/60
34	376.4	47/44	2.6	389.3	52/50	2.7	**402.9**	**57/55**	**0.6**	408.4	59/58	0.6	413.9	61/61
32	380.7	48/45	3.1	396.1	52/50	2.3	**407.6**	**57/56**	**0.6**	413.3	60/59	0.6	419.0	62/62
30	385.4	49/45	3.1	400.9	53/50	2.4	**412.8**	**58/56**	**0.6**	418.6	60/59	0.6	424.4	63/62
28	386.8	49/46	3.1	402.1	53/51	2.4	**414.0**	**58/57**	**0.6**	419.8	61/60	0.6	425.6	63/63
26	388.4	49/46	2.9	403.0	54/51	2.4	**414.8**	**59/57**	**0.6**	420.5	61/60	0.6	426.3	63/63
24	390.2	49/46	2.7	403.8	54/51	2.4	**415.6**	**59/57**	**0.6**	421.3	61/60	0.6	427.0	64/63
22	391.6	49/46	2.6	404.8	54/52	2.3	**416.4**	**59/57**	**0.6**	422.0	62/61	0.6	427.7	64/64
20	393.1	50/46	2.5	405.7	54/52	2.3	**417.2**	**60/58**	**0.6**	422.8	62/61	0.6	428.4	64/64
18	394.5	50/46	2.4	406.6	55/52	2.3	**418.0**	**60/58**	**0.6**	423.5	62/61	0.6	429.2	65/64
16	396.0	50/47	2.3	407.5	55/52	2.3	**418.8**	**60/58**	**0.6**	424.3	63/62	0.6	429.9	65/65
14	396.9	50/47	2.3	408.4	55/53	2.2	**419.6**	**61/59**	**0.5**	425.0	63/62	0.6	430.6	65/65
12	397.8	51/47	2.3	409.2	56/53	2.2	**420.4**	**61/59**	**0.5**	425.8	63/62	0.6	431.3	66/66
10	398.7	51/47	2.3	410.1	56/53	2.2	**421.1**	**61/59**	**0.6**	426.6	64/63	0.5	432.0	66/66
8	399.7	51/48	2.3	411.0	56/54	2.2	**421.9**	**62/60**	**0.5**	427.3	64/63	0.6	432.8	67/66
6	400.6	51/48	2.2	411.8	57/54	2.2	**422.7**	**62/60**	**0.5**	428.1	65/63	0.5	433.5	67/67
4	401.6	52/48	2.2	412.7	57/54	2.2	**423.5**	**62/60**	**0.5**	428.9	65/64	0.5	434.2	67/67
2	402.5	52/48	2.2	413.6	57/55	2.1	**424.3**	**63/61**	**0.5**	429.7	65/64	0.5	434.9	68/67
0	403.4	52/49	2.2	414.4	58/55	2.1	**425.1**	**63/61**	**0.5**	430.4	66/64	0.5	435.7	68/68

P/C above 1013 + 0.2
P/C below 1013 - 0.7

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PERFORMANCE RESTRICTIONS - Rwy 27R

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BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A4 (400M) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3539m (11610ft)	**ED**	3539m (11610ft)	**TOD**	3617m (11866ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.1	35/25	1.4	284.2	40/31	1.3	**290.8**	**46/37**	**0.4**	294.5	48/40	0.4	298.3	50/43
66	288.8	37/26	1.5	296.4	42/32	1.4	**303.4**	**47/38**	**0.4**	307.4	50/41	0.4	311.4	52/44
62	301.0	39/29	1.7	309.3	44/34	1.5	**316.7**	**50/40**	**0.4**	320.9	52/43	0.4	325.2	55/47
58	311.4	40/31	1.9	320.7	45/37	1.7	**329.3**	**50/43**	**0.4**	333.6	52/46	0.5	338.1	55/49
54	320.5	40/33	2.0	330.3	45/39	1.9	**340.0**	**51/44**	**0.5**	344.5	53/47	0.5	349.1	55/51
52	324.9	41/32	2.0	334.7	46/38	2.0	**344.8**	**51/43**	**0.5**	349.5	54/46	0.5	354.3	56/50
50	328.8	41/33	2.0	338.9	46/38	2.1	**349.5**	**51/44**	**0.5**	354.7	53/47	0.5	359.6	55/51
48	332.9	41/34	2.1	343.4	46/39	2.1	**354.1**	**51/45**	**0.6**	359.7	54/48	0.5	364.9	56/51
46	337.0	42/34	2.2	347.8	47/40	2.2	**358.8**	**52/46**	**0.6**	364.7	55/49	0.5	370.1	57/52
44	340.9	43/35	2.2	352.1	48/41	2.3	**363.4**	**53/47**	**0.6**	369.5	55/50	0.6	375.4	58/53
42	344.8	42/36	2.3	356.3	47/42	2.4	**368.2**	**52/47**	**0.6**	374.5	54/50	0.6	380.7	56/54
40	349.0	43/37	2.4	360.8	48/42	2.5	**373.2**	**53/48**	**0.6**	379.6	55/51	0.6	385.9	57/54
38	353.2	44/37	2.4	365.3	48/43	2.6	**378.3**	**53/49**	**0.6**	384.7	56/52	0.8	392.9	58/55
36	357.6	44/38	2.5	370.0	49/44	2.7	**383.5**	**54/50**	**0.8**	391.4	56/53	0.8	399.1	58/55
34	362.0	44/39	2.5	374.7	49/45	2.9	**389.1**	**53/50**	**0.9**	397.7	55/53	0.6	403.9	57/56
32	366.0	44/40	2.6	379.0	49/45	3.4	**396.0**	**54/51**	**0.6**	402.2	56/54	0.6	408.5	58/57
30	370.6	45/40	2.6	383.6	50/46	3.4	**400.8**	**54/51**	**0.6**	407.1	57/54	0.6	413.5	59/58
28	371.9	45/41	2.6	385.0	50/46	3.4	**402.0**	**55/52**	**0.6**	408.4	57/55	0.6	414.8	59/58
26	372.9	46/41	2.6	386.0	51/47	3.4	**402.9**	**55/52**	**0.6**	409.3	57/55	0.6	415.7	59/58
24	373.9	46/41	2.7	387.3	51/47	3.3	**403.8**	**55/52**	**0.6**	410.2	57/55	0.6	416.6	60/59
22	375.0	46/41	2.8	389.1	51/47	3.1	**404.7**	**55/52**	**0.6**	411.1	58/56	0.6	417.5	60/59
20	376.0	46/42	3.0	390.9	51/47	2.9	**405.6**	**56/53**	**0.6**	412.0	58/56	0.6	418.4	60/59
18	377.1	47/42	3.1	392.8	51/47	2.7	**406.5**	**56/53**	**0.6**	412.9	58/56	0.6	419.3	61/59
16	378.2	47/42	3.3	394.7	51/47	2.5	**407.4**	**56/53**	**0.6**	413.8	59/56	0.6	420.1	61/60
14	379.3	47/42	3.4	396.1	52/48	2.5	**408.4**	**57/54**	**0.6**	414.7	59/57	0.6	420.9	61/60
12	380.4	48/43	3.3	397.0	52/48	2.5	**409.3**	**57/54**	**0.6**	415.7	59/57	0.6	421.7	62/60
10	381.5	48/43	3.3	397.9	52/48	2.5	**410.3**	**57/54**	**0.6**	416.6	60/57	0.6	422.5	62/61
8	382.6	48/43	3.3	398.9	52/48	2.5	**411.2**	**58/54**	**0.6**	417.5	60/58	0.6	423.2	62/61
6	383.7	48/43	3.2	399.8	53/49	2.5	**412.2**	**58/55**	**0.6**	418.3	60/58	0.6	424.0	63/61
4	384.9	49/44	3.2	400.8	53/49	2.5	**413.1**	**58/55**	**0.6**	419.2	61/58	0.6	424.8	63/62
2	386.1	49/44	3.1	401.7	53/49	2.5	**414.0**	**59/55**	**0.6**	420.0	61/59	0.6	425.6	63/62
0	387.5	49/44	3.0	402.7	54/50	2.4	**414.9**	**59/56**	**0.6**	420.8	61/59	0.6	426.4	64/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LONDON**

A/D Elev **83ft** **HEATHROW (EGLL)**

A5 (1000M) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3136m (10288ft)	**ED**	3136m (10288ft)	**TOD**	3214m (10544ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.8	26/15	1.7	268.4	31/20	1.5	**275.9**	**37/26**	**0.5**	280.4	39/29	0.4	284.5	42/33
66	268.6	28/16	1.9	278.1	33/22	1.8	**286.9**	**39/28**	**0.5**	291.6	41/31	0.5	296.3	44/34
62	278.9	31/18	2.0	288.9	36/24	1.9	**298.5**	**41/30**	**0.5**	303.9	44/33	0.5	308.8	46/36
58	288.1	32/21	2.0	298.3	37/26	2.2	**309.1**	**42/32**	**0.6**	315.0	44/35	0.6	320.6	46/39
54	295.8	32/22	2.1	306.3	38/28	2.3	**317.8**	**43/34**	**0.6**	323.9	45/37	0.6	330.1	47/41
52	299.7	33/21	2.1	310.4	38/27	2.3	**321.9**	**43/33**	**0.6**	328.2	46/36	0.6	334.2	48/40
50	302.9	33/22	2.2	313.7	38/28	2.4	**325.6**	**43/34**	**0.6**	331.9	45/37	0.6	338.1	47/40
48	306.8	34/23	2.2	317.8	39/29	2.4	**329.8**	**44/35**	**0.6**	336.0	46/38	0.6	342.3	48/41
46	310.7	34/24	2.2	321.8	40/30	2.4	**333.8**	**45/36**	**0.6**	340.2	47/39	0.6	346.4	49/42
44	314.4	35/24	2.3	325.7	40/30	2.4	**337.7**	**45/37**	**0.6**	344.1	48/40	0.6	350.4	50/43
42	317.7	34/25	2.3	329.3	40/31	2.5	**341.6**	**44/37**	**0.7**	348.1	47/40	0.7	354.6	49/44
40	321.7	35/26	2.3	333.3	40/32	2.5	**345.7**	**45/38**	**0.7**	352.3	48/41	0.7	359.0	50/45
38	325.7	36/27	2.3	337.4	41/33	2.5	**349.9**	**46/39**	**0.7**	356.7	48/42	0.7	363.5	51/45
36	329.9	37/27	2.3	341.6	42/33	2.5	**354.2**	**47/40**	**0.7**	361.2	49/43	0.7	368.2	51/46
34	333.7	36/28	2.4	345.6	41/34	2.6	**358.4**	**46/40**	**0.7**	365.5	48/44	0.7	372.6	51/47
32	337.4	37/29	2.4	349.3	42/35	2.6	**362.4**	**47/41**	**0.7**	369.7	49/44	0.7	376.9	51/48
30	341.4	37/29	2.4	353.4	43/36	2.7	**366.8**	**48/42**	**0.7**	374.2	50/45	0.7	381.6	52/48
28	342.5	38/30	2.4	354.6	43/36	2.7	**368.1**	**48/42**	**0.8**	375.6	50/45	0.7	382.9	53/49
26	343.4	38/30	2.4	355.6	43/36	2.7	**369.1**	**48/43**	**0.8**	376.6	51/46	0.7	384.0	53/49
24	344.3	38/30	2.4	356.5	43/36	2.7	**370.2**	**49/43**	**0.7**	377.6	51/46	0.7	385.0	53/49
22	345.2	38/30	2.5	357.5	44/37	2.7	**371.2**	**49/43**	**0.8**	378.7	51/46	0.7	386.1	53/50
20	346.1	39/31	2.5	358.4	44/37	2.8	**372.2**	**49/43**	**0.8**	379.8	51/46	0.8	387.4	54/50
18	347.0	39/31	2.5	359.4	44/37	2.8	**373.2**	**49/44**	**0.8**	380.9	52/47	0.8	389.2	54/50
16	348.0	39/31	2.5	360.4	44/37	2.8	**374.3**	**50/44**	**0.8**	381.9	52/47	0.9	391.1	54/50
14	348.9	39/31	2.5	361.4	45/38	2.8	**375.4**	**50/44**	**0.8**	383.0	52/47	1.0	393.0	54/50
12	349.9	40/32	2.5	362.4	45/38	2.8	**376.5**	**50/44**	**0.8**	384.1	52/47	1.1	395.0	54/50
10	350.9	40/32	2.5	363.5	45/38	2.8	**377.6**	**50/45**	**0.8**	385.2	53/48	1.1	396.5	54/50
8	351.8	40/32	2.5	364.5	46/38	2.8	**378.7**	**51/45**	**0.8**	386.4	53/48	1.1	397.6	54/51
6	352.8	41/33	2.6	365.6	46/39	2.9	**379.9**	**51/45**	**0.8**	388.0	53/48	1.1	398.7	55/51
4	353.8	41/33	2.6	366.7	46/39	2.9	**381.0**	**51/45**	**0.9**	389.9	53/48	1.0	399.8	55/51
2	354.9	41/33	2.6	367.8	46/39	2.9	**382.2**	**51/46**	**1.0**	391.9	53/48	0.9	401.0	55/52
0	355.9	41/33	2.6	368.9	47/39	2.9	**383.3**	**52/46**	**1.1**	394.0	54/49	0.8	402.1	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.6

******Performance restrictions**** FMS speed restrictions apply on westerly MID/DET/MAY SIDS at LHR. To ensure the FMS calculates an accurate turn, see OM C EGLL - Departure for fleet specific guidance on the required profile.**

PERFORMANCE RESTRICTIONS - Rwy 27R

ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE TERMINATING ALT 4000FT QNH. BETWEEN THE HOURS OF 0700-2250 LT USE NOISE ABATEMENT PROCEDURE REDUCING THRUST WHERE POSSIBLE. IF T/O IS ANTICIPATED BETWEEN 2251-0659 LT USE SAME NOISE ABATEMENT PROCEDURE WITH FULL T/O THRUST.

NEWCASTLE (EGNT)

NEWCASTLE and runways 07, 25 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **EAST MIDLANDS (EGNX)**

A/D Elev **306ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**09**	**27**		
Landing Distance Available	2713m / 8900ft	2763m / 9065ft		
Slope	.26DN	.26UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°		
25F Zero HW wt or TW (Manual)	1kt (273.0)	3kt (277.0)		
25F Zero HW wt or TW (Autoland)		3kt (277.0)		
25F Slippery Zero HW wt or TW (Manual)	223.0	226.0		
25F Slippery Zero HW wt or TW (Autoland)		226.0		
30F Zero HW wt or TW (Manual)	1kt (280.8)	3kt (280.8)		
30F Zero HW wt or TW (Autoland)		3kt (280.8)		
30F Slippery Zero HW wt or TW (Manual)	245.0	249.0		
30F Slippery Zero HW wt or TW (Autoland)		249.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **GLASGOW (EGPF)**

A/D Elev **26ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**05**	**23**		
Landing Distance Available	2661m / 8730ft	2356m / 7730ft		
Slope	.09DN	.09UP		
Notes	Notes 1,3	Note 1		
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	1kt (270.5)	266.0 (242.0)		
25F Zero HW wt or TW (Autoland)	1kt (270.5)	266.0 (242.0)		
25F Slippery Zero HW wt or TW (Manual)	218.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)	218.0	NOT AUTH		
30F Zero HW wt or TW (Manual)	7kt (1kt)	281.0 (258.0)		
30F Zero HW wt or TW (Autoland)	7kt (1kt)	281.0 (258.0)		
30F Slippery Zero HW wt or TW (Manual)	242.0	214.0		
30F Slippery Zero HW wt or TW (Autoland)	242.0	214.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Noise Restrictions**: Due to noise restrictions the minimum altitude for joining Visual Final Approach should be 1530ft QNH to intercept a 3° glideslope.
3. **MACG and Minima:** Rwy 05 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **EDINBURGH (EGPH)**

A/D Elev **135ft** Max wt Permitted (For pre flt planning) **280,800kg** Briefing Cat A

RUNWAY	**06**	**24**		
Landing Distance Available	2344m / 7690ft	2347m / 7700ft		
Slope	.17DN	.17UP		
Notes	Note 2	Notes 1,2		
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	266.0 (239.0)	266.0 (239.0)		
25F Zero HW wt or TW (Autoland)	266.0 (239.0)	266.0 (239.0)		
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)	NOT AUTH	NOT AUTH		
30F Zero HW wt or TW (Manual)	280.8 (255.0)	280.8 (255.0)		
30F Zero HW wt or TW (Autoland)	280.8 (255.0)	280.8 (255.0)		
30F Slippery Zero HW wt or TW (Manual)	214.0	214.0		
30F Slippery Zero HW wt or TW (Autoland)	214.0	214.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **CATEGORY 2 Operations Rwy 24**: One of the following aids must be serviceable: a) DME, b) SRA, c) NDB 'EDN'
2. **NOTE**: Circling / Visual manoeuvres NOT APPROVED following SRA approach.

BRITISH AIRWAYS **B747-400** LANDING DATA **PRESTWICK (EGPK)**

A/D Elev **65ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**12**	**30**		
Landing Distance Available	2743m/8999ft	2986m/9797ft		
Slope	0.27 UP	0.27 DN		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	2kt (276.6)	7kt (2kt)		
25F Zero HW wt or TW (Autoland)	2kt (276.6)	7kt (2kt)		
25F Slippery Zero HW wt or TW (Manual)	231.7	252.9		
25F Slippery Zero HW wt or TW (Autoland)	231.7	252.9		
30F Zero HW wt or TW (Manual)	7kt (3kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)	7kt (3kt)	14kt (8kt)		
30F Slippery Zero HW wt or TW (Manual)	252.4	274.4		
30F Slippery Zero HW wt or TW (Autoland)	252.4	274.4		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **LONDON STANSTED (EGSS)**

A/D Elev **348ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**04**	**22**		
Landing Distance Available	2750m / 9022ft	3048m / 10000ft		
Slope	.24UP	.24DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	53°/53°	53°/53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (275.0)	9kt (3kt)		
25F Zero HW wt or TW (Autoland)	2kt (275.0)	9kt (3kt)		
25F Slippery Zero HW wt or TW (Manual)	226.0	253.0		
25F Slippery Zero HW wt or TW (Autoland)	226.0	253.0		
30F Zero HW wt or TW (Manual)	2kt (280.8)	9kt (3kt)		
30F Zero HW wt or TW (Autoland)	2kt (280.8)	9kt (3kt)		
30F Slippery Zero HW wt or TW (Manual)	250.0	277.0		
30F Slippery Zero HW wt or TW (Autoland)	250.0	277.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **PAPI 05/23:** Wheel height less than 30ft over threshold. PAPI may be used down to 300ft above threshold but disregard thereafter.

BRITISH AIRWAYS **B747-400** LANDING DATA **AMSTERDAM (EHAM)**

A/D Elev **-11ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	04	06	09	18L
Landing Distance Available	2020m / 6627ft	3250m / 10663ft	3363m / 11035ft	2825m / 9268ft
Slope				
Notes				Note 1
WAT LIMIT °C : Man / Auto	54°	54°/54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	222.0 (200.0)	12kt (6kt)	15kt (8kt)	4kt (283.0)
25F Zero HW wt or TW (Autoland)		12kt (6kt)		
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	270.0	280.0	231.0
25F Slippery Zero HW wt or TW (Autoland)		270.0		
30F Zero HW wt or TW (Manual)	237.0 (216.0)	12kt (6kt)	15kt	11kt (4kt)
30F Zero HW wt or TW (Autoland)		12kt (6kt)		
30F Slippery Zero HW wt or TW (Manual)	NOT AUTH	280.8	3kt	258.0
30F Slippery Zero HW wt or TW (Autoland)		280.8		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 18L – Landing available on this runway in emergency only.

BRITISH AIRWAYS

B747-400

LANDING DATA

AMSTERDAM (EHAM)

A/D Elev **-11ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	18C	18R	22	24
Landing Distance Available	3300m / 10827ft	3530m / 11578ft	2020m / 6627ft	2600m / 8530ft
Notes				Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°	54°
25F Zero HW wt or TW (Manual)	13kt (7kt)	15kt (11kt)	222.0 (200.0)	6kt (0kt)
25F Zero HW wt or TW (Autoland)	13kt (7kt)	15kt (11kt)		
25F Slippery Zero HW wt or TW (Manual)	273.0	0kt	NOT AUTH	215.0
25F Slippery Zero HW wt or TW (Autoland)	273.0	0kt		
30F Zero HW wt or TW (Manual)	13kt (7kt)	15kt (11kt)	237.0 (216.0)	6kt (0kt)
30F Zero HW wt or TW (Autoland)	13kt (7kt)	15kt (11kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	0kt	NOT AUTH	238.0
30F Slippery Zero HW wt or TW (Autoland)	280.8	0kt		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Landing Distance RWY 24:** Wide bodied aircraft landing on 24R should vacate at Exit 1 (LDA 2600m) due to a runway width of 45m and no further turning area.

BRITISH AIRWAYS **B747-400** LANDING DATA **AMSTERDAM (EHAM)**

A/D Elev **-11ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	27	36L	36C	36R
Landing Distance Available	3453m / 11330ft	3800m/12464ft	2850m / 9350ft	2825m / 9268ft
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/-	54°	54°
25F Zero HW wt or TW (Manual)	14kt (8kt)	15kt	4kt (281.0)	4kt (283.0)
25F Zero HW wt or TW (Autoland)	14kt (8kt)		4kt (281.0)	4kt (283.0)
25F Slippery Zero HW wt or TW (Manual)	0kt	3kt	235.0	231.0
25F Slippery Zero HW wt or TW (Autoland)	0kt		235.0	231.0
30F Zero HW wt or TW (Manual)	14kt (8kt)	15kt	4kt (280.8)	4kt (283.0)
30F Zero HW wt or TW (Autoland)	14kt (8kt)		4kt (280.8)	4kt (283.0)
30F Slippery Zero HW wt or TW (Manual)	0kt	5kt	261.0	258.0
30F Slippery Zero HW wt or TW (Autoland)	0kt		261.0	258.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg			750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 36L – Landing available in emergency only.

BRITISH AIRWAYS **B747-400** LANDING DATA **DUBLIN (EIDW)**

A/D Elev **242ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**10**	**28**		
Landing Distance Available	2637m / 8652ft	2637m / 8652ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	0kt (268.5)	0kt (268.5)		
25F Zero HW wt or TW (Autoland)	0kt (268.5)	0kt (268.5)		
25F Slippery Zero HW wt or TW (Manual)	216.0	216.0		
25F Slippery Zero HW wt or TW (Autoland)	216.0	216.0		
30F Zero HW wt or TW (Manual)	0kt (280.8)	0kt (280.8)		
30F Zero HW wt or TW (Autoland)	0kt (280.8)	0kt (280.8)		
30F Slippery Zero HW wt or TW (Manual)	240.0	240.0		
30F Slippery Zero HW wt or TW (Autoland)	240.0	240.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SHANNON (EINN)**

A/D Elev **46ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	06	24		
Landing Distance Available	3199m / 10496ft	3059m / 10037ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°		
25F Zero HW wt or TW (Manual)	11kt (5kt)	8kt (3kt)		
25F Zero HW wt or TW (Autoland)		8kt (3kt)		
25F Slippery Zero HW wt or TW (Manual)	267.0	255.0		
25F Slippery Zero HW wt or TW (Autoland)		255.0		
30F Zero HW wt or TW (Manual)	11kt (5kt)	8kt (3kt)		
30F Zero HW wt or TW (Autoland)		8kt (3kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	279.0		
30F Slippery Zero HW wt or TW (Autoland)		279.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **COPENHAGEN**

A/D Elev **17ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **KASTRUP (EKCH)**

RUNWAY	04L	04R	12	22L
Landing Distance Available	3000m / 9842ft	3300m / 10827ft	2365m / 7760ft	3300m / 10827ft
Slope	.01UP	.02DN	.06DN	.02UP
Notes				Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°	54°	54°/54°
25F Zero HW wt or TW (Manual)	8kt (2kt)	13kt (7kt)	266.0 (241.0)	13kt (7kt)
25F Zero HW wt or TW (Autoland)	8kt (2kt)			13kt (7kt)
25F Slippery Zero HW wt or TW (Manual)	247.0	273.0	NOT AUTH	273.0
25F Slippery Zero HW wt or TW (Autoland)	247.0			273.0
30F Zero HW wt or TW (Manual)	8kt (2kt)	13kt (7kt)	280.8 (257.0)	13kt (7kt)
30F Zero HW wt or TW (Autoland)	8kt (2kt)			13kt (7kt)
30F Slippery Zero HW wt or TW (Manual)	273.0	280.8	214.0	280.8
30F Slippery Zero HW wt or TW (Autoland)	273.0			280.8
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 22L ILS C1R Radio DH** : The nature of the approach terrain will cause the radio altimeter to ramp up approx 40ft just prior to the ILS C1R DH

BRITISH AIRWAYS **B747-400** LANDING DATA **COPENHAGEN**

A/D Elev **17ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **KASTRUP (EKCH)**

RUNWAY	**22R**	**30**		
Landing Distance Available	3000m / 9842ft	2395m / 7858ft		
Slope	.01UP	.06UP		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	269.0 (243.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	280.8 (261.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	219.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (TWY A10) RWY 04L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.01% UP
TOR	3000m (9842ft)	**ED**	3570m (11712ft)	**TOD**	3000m (9842ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)
ASSUMES SHIPS 175FT/54M HIGH IN CHANNEL.

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	263.9	38/30	2.0	273.7	41/35	1.8	**282.8**	**44/41**	**0.6**	288.4	46/44	0.6	293.9	48/47
66	273.4	40/31	2.0	283.3	43/36	1.9	**292.9**	**46/42**	**0.6**	298.5	48/45	0.6	304.3	50/48
62	284.1	42/33	2.1	294.4	46/39	1.9	**304.1**	**49/45**	**0.6**	309.9	51/48	0.6	315.8	53/51
58	294.3	45/35	2.1	304.7	48/41	2.0	**314.6**	**51/47**	**0.6**	320.7	53/50	0.6	326.9	55/53
54	302.8	47/37	2.1	313.5	50/43	2.1	**323.8**	**54/49**	**0.6**	330.0	56/52	0.6	336.3	57/55
52	306.6	48/36	2.2	317.4	51/42	2.1	**327.9**	**54/48**	**0.6**	334.2	56/51	0.6	340.4	58/54
50	310.6	47/37	2.2	321.6	52/43	2.1	**332.2**	**55/49**	**0.6**	338.4	57/52	0.6	344.7	59/55
48	314.3	48/38	2.2	325.5	53/44	2.1	**336.1**	**56/50**	**0.6**	342.4	58/53	0.6	348.7	60/56
46	318.2	49/39	2.3	329.5	54/45	2.1	**340.1**	**57/51**	**0.6**	346.4	59/54	0.7	352.9	61/57
44	322.2	50/40	2.3	333.6	55/46	2.1	**344.2**	**58/52**	**0.6**	350.6	60/55	0.7	357.2	62/58
42	326.1	49/40	2.3	337.6	54/46	2.1	**348.3**	**59/53**	**0.7**	354.8	61/56	0.7	361.5	63/59
40	330.3	50/41	2.3	341.8	55/47	2.2	**352.6**	**60/53**	**0.7**	359.2	62/57	0.7	366.0	64/60
38	334.3	51/42	2.3	345.7	55/48	2.2	**356.7**	**61/54**	**0.7**	363.5	63/57	0.7	370.3	65/61
36	338.3	51/43	2.3	349.9	56/49	2.2	**361.1**	**61/55**	**0.7**	367.9	63/58	0.7	374.8	66/61
34	342.2	50/43	2.3	353.9	55/50	2.3	**365.3**	**60/56**	**0.7**	372.1	63/59	0.7	379.0	65/62
32	345.7	51/44	2.4	357.6	56/50	2.3	**369.1**	**61/57**	**0.7**	375.9	63/60	0.7	383.0	65/63
30	349.6	52/45	2.4	361.7	57/51	2.3	**373.2**	**62/57**	**0.7**	380.2	64/61	0.7	387.2	66/64
28	350.6	52/45	2.4	362.7	57/51	2.3	**374.3**	**62/58**	**0.7**	381.3	64/61	0.7	388.1	66/64
26	351.5	52/45	2.4	363.7	57/52	2.3	**375.2**	**63/58**	**0.7**	382.3	65/61	0.7	389.0	67/64
24	352.4	53/46	2.5	364.7	57/52	2.3	**376.2**	**63/58**	**0.7**	383.3	65/62	0.7	390.2	67/65
22	353.4	53/46	2.5	365.7	58/52	2.3	**377.2**	**63/59**	**0.7**	384.2	65/62	0.7	391.2	68/65
20	354.3	53/46	2.5	366.7	58/52	2.3	**378.2**	**63/59**	**0.7**	385.2	66/62	0.7	392.2	68/66
18	355.3	53/46	2.5	367.7	58/53	2.3	**379.3**	**64/59**	**0.7**	386.2	66/62	0.7	393.3	69/66
16	356.3	54/47	2.5	368.6	59/53	2.3	**380.3**	**64/59**	**0.7**	387.3	66/63	0.7	394.0	69/67
14	357.2	54/47	2.5	369.7	59/53	2.3	**381.4**	**64/60**	**0.7**	388.1	66/63	0.7	394.6	69/67
12	358.2	54/47	2.5	370.7	59/54	2.4	**382.5**	**65/60**	**0.7**	389.2	67/63	0.6	395.5	69/67
10	359.3	55/48	2.5	371.7	60/54	2.4	**383.5**	**65/60**	**0.7**	390.5	67/64	0.6	396.5	70/67
8	360.3	55/48	2.5	372.8	60/54	2.3	**384.5**	**65/61**	**0.7**	391.5	68/64	0.6	397.6	70/67
6	361.4	55/48	2.5	373.8	60/54	2.4	**385.6**	**66/61**	**0.7**	392.6	68/65	0.6	398.6	70/68
4	362.4	56/48	2.5	374.9	61/55	2.4	**386.7**	**66/61**	**0.7**	393.7	69/65	0.6	399.7	70/68
2	363.5	56/49	2.5	376.0	61/55	2.3	**387.7**	**66/61**	**0.7**	394.3	69/65	0.7	400.8	71/68
0	364.5	56/49	2.5	377.0	61/55	2.3	**388.6**	**66/62**	**0.6**	395.0	69/66	0.7	402.0	71/69

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 04L.

SHIPPING. The take-off data takes account of shipping with masts up to 175ft/54m high. If ATC advise of shipping with higher superstructures up to 295ft/90m **CARD AIRCRAFT MUST USE ADDITIONAL RWY DATA** or request the use of an alternate runway.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (TWY B1) RWY 04R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.037% DN
TOR	3300m (10826ft)	**ED**	3300m (10826ft)	**TOD**	3300m (10826ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)
ASSUMES SHIPS 115FT/35M HIGH IN CHANNEL.

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.1	33/22	1.9	286.7	38/27	1.8	**295.9**	**43/33**	**0.6**	301.4	45/36	0.6	307.1	47/39
66	286.9	35/23	2.0	296.8	40/29	1.9	**306.1**	**45/35**	**0.6**	311.7	47/38	0.6	317.6	49/41
62	298.0	37/26	2.0	308.1	42/31	1.9	**317.8**	**48/37**	**0.6**	323.6	50/40	0.6	329.8	52/43
58	307.6	38/28	2.1	318.3	43/33	2.1	**328.9**	**48/39**	**0.6**	334.9	50/42	0.6	341.1	52/46
54	315.7	39/30	2.2	326.8	44/35	2.3	**338.2**	**49/41**	**0.6**	344.2	51/44	0.6	350.6	53/47
52	319.7	39/29	2.3	331.0	44/34	2.3	**342.4**	**49/40**	**0.6**	348.4	52/43	0.7	354.9	54/47
50	323.1	39/29	2.3	334.5	44/35	2.4	**346.4**	**49/41**	**0.7**	352.9	51/44	0.7	359.4	53/47
48	327.0	40/30	2.3	338.4	44/36	2.4	**350.4**	**49/42**	**0.7**	357.0	52/45	0.7	363.7	54/48
46	331.1	40/31	2.3	342.5	45/37	2.4	**354.6**	**50/43**	**0.7**	361.4	53/46	0.7	368.2	55/49
44	335.1	41/32	2.3	346.6	46/37	2.5	**358.9**	**51/43**	**0.7**	365.8	53/46	0.7	372.6	56/50
42	338.7	40/32	2.4	350.5	45/38	2.6	**363.3**	**50/44**	**0.7**	370.2	52/47	0.7	377.0	54/51
40	342.9	41/33	2.4	354.9	46/39	2.6	**367.8**	**51/45**	**0.7**	374.7	53/48	0.7	381.7	55/52
38	346.8	42/34	2.4	359.0	47/40	2.6	**372.1**	**52/46**	**0.7**	379.1	54/49	0.7	386.0	56/52
36	351.1	43/35	2.5	363.5	48/41	2.6	**376.6**	**53/47**	**0.7**	383.7	55/50	0.7	390.6	57/53
34	355.1	42/35	2.5	367.7	47/41	2.6	**380.8**	**52/48**	**0.7**	387.8	54/50	0.7	394.3	57/55
32	358.8	42/36	2.5	371.5	47/42	2.6	**384.7**	**53/48**	**0.7**	391.7	55/52	0.6	397.7	57/55
30	363.0	43/37	2.5	375.7	48/43	2.6	**388.7**	**53/49**	**0.6**	395.1	56/53	0.7	402.0	58/56
28	364.0	43/37	2.5	376.7	48/43	2.6	**389.9**	**54/49**	**0.6**	396.1	56/53	0.7	403.1	58/56
26	365.0	44/37	2.5	377.7	49/43	2.7	**391.0**	**54/50**	**0.6**	397.0	57/53	0.7	404.1	59/57
24	365.9	44/37	2.6	378.7	49/44	2.7	**392.0**	**54/50**	**0.6**	398.0	57/53	0.7	405.2	59/57
22	366.9	44/38	2.6	379.7	49/44	2.7	**393.0**	**55/51**	**0.6**	399.1	57/54	0.7	406.2	59/57
20	367.9	44/38	2.6	380.8	50/44	2.6	**393.8**	**55/51**	**0.6**	400.1	57/54	0.7	407.3	60/57
18	368.9	45/38	2.6	381.8	50/44	2.5	**394.4**	**56/51**	**0.7**	401.1	58/54	0.7	408.3	60/58
16	369.9	45/38	2.6	382.8	50/45	2.5	**395.2**	**56/52**	**0.7**	402.2	58/54	0.7	409.4	60/58
14	370.9	45/39	2.6	383.9	50/45	2.4	**396.1**	**56/52**	**0.7**	403.3	58/55	0.7	410.5	60/58
12	371.9	45/39	2.6	384.9	51/45	2.5	**397.2**	**56/52**	**0.7**	404.4	58/55	0.7	411.6	61/59
10	373.0	46/39	2.6	385.9	51/45	2.5	**398.2**	**56/52**	**0.7**	405.5	59/55	0.7	412.7	61/59
8	374.0	46/40	2.6	387.0	51/46	2.5	**399.3**	**57/52**	**0.7**	406.6	59/56	0.7	413.9	61/59
6	375.1	46/40	2.6	388.0	51/46	2.5	**400.4**	**57/53**	**0.7**	407.7	59/56	0.7	415.0	62/59
4	376.2	47/40	2.6	389.0	52/46	2.5	**401.5**	**57/53**	**0.7**	408.9	60/56	0.7	416.2	62/60
2	377.2	47/40	2.6	390.2	52/47	2.5	**402.7**	**58/53**	**0.7**	410.0	60/56	0.7	417.3	62/60
0	378.3	47/41	2.6	391.3	53/47	2.5	**403.8**	**58/54**	**0.7**	411.1	60/57	0.7	418.5	63/60

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 04R.

SHIPPING. The take-off data takes account of shipping with masts up to 115ft/35m high. If ATC advise of shipping with higher superstructures up to 164ft/50m **CARD AIRCRAFT MUST USE ADDITIONAL RWY DATA** or request the use of an alternate runway.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (POSN 12-X) RWY 12

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.098% DN
TOR	2800m (9186ft)	**ED**	2800m (9186ft)	**TOD**	2800m (9186ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)
ASSUMES SHIPS 115FT/35M HIGH IN CHANNEL.

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	256.5	25/14	1.9	266.2	31/19	1.8	**275.4**	**36/25**	**0.6**	281.1	39/28	0.6	286.7	41/31
66	265.7	27/15	2.0	275.7	33/20	1.9	**285.2**	**38/26**	**0.6**	291.1	41/29	0.6	296.7	43/33
62	276.2	30/17	2.1	286.5	35/23	2.0	**296.3**	**41/29**	**0.6**	302.2	43/32	0.6	308.1	46/35
58	286.0	31/19	2.1	296.7	36/25	2.0	**306.6**	**41/31**	**0.6**	312.8	44/34	0.6	318.8	46/37
54	293.7	31/21	2.2	304.5	37/26	2.2	**315.5**	**42/33**	**0.6**	321.8	44/36	0.6	328.1	47/39
52	297.4	32/20	2.2	308.4	38/25	2.2	**319.5**	**43/32**	**0.6**	325.9	45/35	0.6	332.3	48/38
50	300.5	32/21	2.2	311.6	37/26	2.4	**323.6**	**42/33**	**0.7**	330.1	45/36	0.6	336.5	47/39
48	304.1	32/21	2.2	315.3	38/27	2.4	**327.5**	**43/33**	**0.7**	334.0	45/36	0.6	340.4	48/40
46	307.9	33/22	2.3	319.2	39/28	2.5	**331.6**	**44/34**	**0.6**	338.0	46/37	0.7	344.5	48/40
44	311.7	34/23	2.3	323.2	39/28	2.5	**335.5**	**45/35**	**0.7**	342.1	47/38	0.7	348.6	49/41
42	314.7	33/23	2.4	326.6	39/29	2.5	**339.2**	**44/36**	**0.7**	345.9	46/39	0.7	352.8	48/42
40	318.7	34/24	2.4	330.8	39/30	2.5	**343.4**	**45/36**	**0.7**	350.2	47/40	0.7	357.1	49/43
38	322.6	35/25	2.4	334.7	40/31	2.5	**347.4**	**45/37**	**0.7**	354.3	48/40	0.7	361.4	50/44
36	326.6	36/25	2.4	338.7	41/31	2.6	**351.6**	**46/38**	**0.7**	358.6	48/41	0.7	365.8	51/44
34	330.4	35/26	2.4	342.6	40/32	2.6	**355.6**	**45/39**	**0.7**	362.7	48/42	0.7	369.9	50/45
32	333.9	35/27	2.4	346.1	41/33	2.6	**359.3**	**46/39**	**0.7**	366.6	48/42	0.7	373.7	51/46
30	337.7	36/27	2.5	350.0	41/33	2.7	**363.5**	**47/40**	**0.7**	370.7	49/43	0.7	377.9	51/47
28	338.6	36/28	2.5	351.0	42/34	2.7	**364.5**	**47/40**	**0.7**	371.7	49/43	0.7	379.0	52/47
26	339.5	37/28	2.5	351.9	42/34	2.7	**365.5**	**47/40**	**0.7**	372.7	50/44	0.7	380.0	52/47
24	340.4	37/28	2.5	352.9	42/34	2.7	**366.5**	**47/41**	**0.7**	373.6	50/44	0.7	381.0	52/47
22	341.3	37/28	2.5	353.8	43/34	2.7	**367.4**	**48/41**	**0.7**	374.6	50/44	0.8	382.1	52/48
20	342.2	37/29	2.5	354.7	43/35	2.7	**368.4**	**48/41**	**0.7**	375.6	50/45	0.8	383.1	53/48
18	343.2	38/29	2.5	355.7	43/35	2.7	**369.4**	**48/42**	**0.7**	376.6	51/45	0.7	384.0	53/48
16	344.1	38/29	2.5	356.7	43/35	2.7	**370.4**	**49/42**	**0.7**	377.7	51/45	0.7	385.1	53/49
14	345.0	38/29	2.5	357.7	44/35	2.7	**371.4**	**49/42**	**0.7**	378.7	51/45	0.7	386.1	54/49
12	346.0	38/30	2.5	358.7	44/36	2.8	**372.5**	**49/42**	**0.7**	379.8	52/46	0.7	387.1	54/49
10	346.9	39/30	2.6	359.7	44/36	2.8	**373.5**	**49/43**	**0.7**	380.9	52/46	0.7	388.1	54/49
8	347.9	39/30	2.6	360.7	44/36	2.8	**374.5**	**50/43**	**0.8**	382.0	52/46	0.7	389.1	54/50
6	348.9	39/30	2.6	361.8	45/36	2.8	**375.6**	**50/43**	**0.7**	383.0	52/47	0.7	390.4	55/50
4	349.9	40/31	2.6	362.9	45/37	2.8	**376.7**	**50/43**	**0.7**	384.1	53/47	0.7	391.5	55/51
2	350.9	40/31	2.6	363.9	45/37	2.8	**377.8**	**51/44**	**0.7**	385.1	53/47	0.7	392.5	56/51
0	351.9	40/31	2.6	365.0	46/37	2.8	**378.9**	**51/44**	**0.7**	386.2	53/47	0.7	393.6	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 12.

SHIPPING. The take-off data takes account of shipping with masts up to 115ft/35m high. If ATC advise of shipping with higher superstructures up to 164ft/50m **CARD AIRCRAFT MUST USE ADDITIONAL RWY DATA FROM CARD** or request the use of an alternate runway.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (TWY V1) RWY 22L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.037% UP
TOR	3300m (10826ft)	**ED**	3300m (10826ft)	**TOD**	3300m (10826ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	276.5	33/22	1.9	286.1	38/27	1.9	**295.4**	**43/33**	**0.5**	300.8	45/36	0.6	306.5	47/39
66	286.3	35/23	2.0	296.2	40/29	1.9	**305.5**	**45/35**	**0.6**	311.2	47/37	0.6	317.1	49/41
62	297.4	37/26	2.0	307.5	42/31	1.9	**317.2**	**48/37**	**0.6**	323.0	50/40	0.6	329.2	52/43
58	307.0	38/28	2.1	317.7	43/33	2.1	**328.3**	**48/39**	**0.6**	334.3	50/42	0.6	340.5	52/46
54	315.1	39/30	2.2	326.2	43/35	2.3	**337.6**	**48/41**	**0.6**	343.7	51/44	0.6	350.0	53/47
52	319.1	39/29	2.2	330.3	44/34	2.3	**341.8**	**49/40**	**0.6**	347.8	52/43	0.7	354.3	54/46
50	322.5	39/29	2.3	333.9	44/35	2.4	**345.8**	**49/41**	**0.7**	352.3	51/44	0.7	358.8	53/47
48	326.4	39/30	2.3	337.7	44/36	2.4	**349.8**	**49/42**	**0.7**	356.4	52/45	0.7	363.1	54/48
46	330.4	40/31	2.3	341.8	45/37	2.4	**354.0**	**50/43**	**0.7**	360.7	53/46	0.7	367.5	55/49
44	334.5	41/32	2.3	345.9	46/37	2.5	**358.3**	**51/43**	**0.7**	365.2	53/46	0.7	371.9	56/50
42	338.0	40/32	2.4	349.9	45/38	2.6	**362.7**	**50/44**	**0.7**	369.5	52/47	0.7	376.4	54/51
40	342.3	41/33	2.4	354.2	46/39	2.6	**367.2**	**51/45**	**0.7**	374.0	53/48	0.7	381.0	55/52
38	346.2	42/34	2.4	358.3	47/40	2.6	**371.4**	**52/46**	**0.7**	378.4	54/49	0.7	385.4	56/52
36	350.4	43/35	2.5	362.8	47/41	2.6	**375.9**	**53/47**	**0.7**	383.0	55/50	0.7	389.8	57/53
34	354.4	42/35	2.5	367.0	47/41	2.6	**380.1**	**52/47**	**0.7**	387.1	54/51	0.7	393.9	57/55
32	358.2	42/36	2.5	370.8	47/42	2.7	**384.1**	**52/48**	**0.7**	391.1	55/52	0.6	397.1	57/55
30	362.3	43/37	2.5	374.9	48/43	2.6	**388.1**	**53/49**	**0.7**	394.6	56/53	0.7	401.3	58/56
28	363.3	43/37	2.5	376.0	48/43	2.6	**389.1**	**53/49**	**0.6**	395.4	56/53	0.7	402.4	58/56
26	364.3	44/37	2.5	377.0	49/43	2.7	**390.3**	**54/50**	**0.6**	396.4	57/53	0.7	403.4	59/56
24	365.3	44/37	2.5	378.0	49/43	2.7	**391.3**	**54/50**	**0.6**	397.4	57/53	0.7	404.5	59/57
22	366.2	44/38	2.6	379.0	49/44	2.7	**392.3**	**55/50**	**0.6**	398.4	57/54	0.7	405.5	59/57
20	367.2	44/38	2.6	380.0	50/44	2.7	**393.3**	**55/51**	**0.6**	399.4	57/54	0.7	406.6	60/57
18	368.2	45/38	2.6	381.1	50/44	2.6	**394.0**	**56/51**	**0.7**	400.5	58/54	0.7	407.7	60/58
16	369.2	45/38	2.6	382.1	50/45	2.5	**394.6**	**56/51**	**0.7**	401.5	58/54	0.7	408.7	60/58
14	370.2	45/39	2.6	383.1	50/45	2.5	**395.5**	**56/52**	**0.7**	402.6	58/55	0.7	409.8	60/58
12	371.3	45/39	2.6	384.2	51/45	2.5	**396.5**	**56/52**	**0.7**	403.7	58/55	0.7	410.9	61/58
10	372.3	46/39	2.6	385.2	51/45	2.5	**397.6**	**56/52**	**0.7**	404.8	59/55	0.7	412.0	61/59
8	373.3	46/39	2.6	386.3	51/46	2.5	**398.6**	**57/52**	**0.7**	405.9	59/56	0.7	413.2	61/59
6	374.4	46/40	2.6	387.3	51/46	2.5	**399.7**	**57/53**	**0.7**	407.1	59/56	0.7	414.3	62/59
4	375.5	47/40	2.5	388.2	52/46	2.5	**400.8**	**57/53**	**0.7**	408.2	60/56	0.7	415.5	62/60
2	376.5	47/40	2.6	389.4	52/46	2.5	**402.0**	**58/53**	**0.7**	409.3	60/56	0.7	416.7	62/60
0	377.6	47/41	2.6	390.6	52/47	2.5	**403.1**	**58/54**	**0.7**	410.4	60/57	0.7	417.8	63/60

P/C above 1013 + 0.1
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (TWY A1/E1) RWY 22R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.008% DN
TOR	3600m (11811ft)	**ED**	3600m (11811ft)	**TOD**	3600m (11811ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	288.2	36/27	1.9	297.7	41/32	1.8	**306.8**	**46/37**	**0.3**	309.8	49/41	0.0	309.8	52/45
66	298.2	38/28	2.0	308.0	43/33	1.9	**317.4**	**48/39**	**0.6**	323.1	50/42	0.3	326.5	53/45
62	309.6	41/30	2.0	319.7	46/36	2.0	**329.6**	**51/42**	**0.6**	335.3	53/44	0.6	341.1	55/47
58	319.3	41/33	2.2	330.1	46/38	2.2	**340.9**	**51/44**	**0.6**	346.7	53/47	0.6	352.7	55/50
54	327.9	42/35	2.2	338.7	47/40	2.3	**350.3**	**52/46**	**0.6**	356.3	54/49	0.6	362.6	56/52
52	332.1	43/34	2.2	343.0	48/39	2.3	**354.6**	**53/45**	**0.6**	360.8	55/48	0.6	367.2	57/51
50	335.6	42/34	2.2	346.7	47/40	2.4	**358.8**	**52/46**	**0.7**	365.3	54/49	0.7	371.8	56/52
48	339.5	43/35	2.3	350.8	48/41	2.5	**363.1**	**53/46**	**0.7**	369.6	55/49	0.7	376.1	57/52
46	343.6	44/36	2.3	355.0	49/42	2.5	**367.6**	**54/47**	**0.6**	374.0	56/50	0.7	380.7	58/53
44	347.7	45/37	2.3	359.3	50/42	2.5	**372.0**	**55/48**	**0.7**	378.6	57/51	0.7	385.2	59/54
42	351.6	44/37	2.4	363.6	48/43	2.6	**376.4**	**53/49**	**0.7**	383.1	56/52	0.7	389.6	58/55
40	356.0	44/38	2.4	368.1	49/44	2.6	**381.1**	**54/50**	**0.7**	387.7	56/53	0.6	394.0	59/57
38	360.2	45/39	2.4	372.4	50/45	2.6	**385.4**	**55/51**	**0.7**	392.1	58/54	0.6	397.7	60/57
36	364.6	46/40	2.5	376.9	51/46	2.6	**389.9**	**56/51**	**0.6**	395.7	59/55	0.7	402.3	61/58
34	368.9	45/40	2.5	381.3	50/46	2.5	**393.9**	**56/53**	**0.6**	399.8	58/56	0.7	406.7	60/59
32	372.7	46/41	2.5	385.2	51/47	2.4	**397.1**	**56/53**	**0.7**	403.9	59/57	0.7	410.8	61/60
30	376.9	47/42	2.5	389.3	52/48	2.4	**401.4**	**57/54**	**0.7**	408.3	59/57	0.7	415.3	62/61
28	378.0	47/42	2.5	390.5	52/48	2.4	**402.5**	**57/54**	**0.7**	409.4	60/58	0.7	416.4	62/61
26	379.0	47/42	2.5	391.5	53/49	2.4	**403.5**	**58/55**	**0.7**	410.4	60/58	0.7	417.4	62/61
24	380.0	47/43	2.5	392.5	53/49	2.4	**404.6**	**58/55**	**0.7**	411.4	60/58	0.7	418.5	62/61
22	381.0	48/43	2.5	393.5	53/50	2.4	**405.6**	**58/55**	**0.7**	412.5	60/58	0.7	419.5	63/62
20	382.0	48/43	2.4	394.1	54/50	2.5	**406.7**	**59/56**	**0.7**	413.6	61/59	0.7	420.6	63/62
18	383.0	48/43	2.3	394.7	54/50	2.6	**407.7**	**59/56**	**0.7**	414.7	61/59	0.7	421.7	63/62
16	384.0	49/44	2.3	395.6	54/50	2.6	**408.8**	**59/56**	**0.7**	415.8	61/59	0.7	422.8	64/63
14	385.1	49/44	2.3	396.6	54/50	2.7	**409.9**	**59/56**	**0.7**	416.9	62/60	0.7	423.9	64/63
12	386.1	49/44	2.3	397.7	55/51	2.7	**411.0**	**60/57**	**0.7**	418.0	62/60	0.7	425.1	64/63
10	387.1	49/44	2.3	398.7	55/51	2.7	**412.1**	**60/57**	**0.7**	419.1	62/60	0.7	426.3	65/63
8	388.1	49/45	2.3	399.8	55/51	2.7	**413.3**	**60/57**	**0.7**	420.3	63/60	0.7	427.4	65/64
6	389.1	50/45	2.4	400.9	55/52	2.7	**414.4**	**61/58**	**0.7**	421.4	63/61	0.7	428.6	65/64
4	390.4	50/45	2.3	402.0	56/52	2.7	**415.6**	**61/58**	**0.7**	422.6	63/61	0.7	429.7	65/64
2	391.5	51/46	2.3	403.2	56/52	2.7	**416.8**	**61/58**	**0.7**	423.8	63/61	0.7	430.9	66/65
0	392.6	51/46	2.3	404.3	56/52	2.7	**417.9**	**62/59**	**0.7**	424.9	64/62	0.7	432.0	66/65

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **COPENHAGEN**

A/D Elev **17ft** **KASTRUP (EKCH)**

F/L (TWY G1) RWY 30

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.077% UP
TOR	2365m (7759ft)	**ED**	2665m (8743ft)	**TOD**	2365m (7759ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	234.2	25/13	1.8	243.1	30/18	1.8	**252.1**	**33/24**	**0.5**	257.4	35/28	0.6	263.4	37/31
66	242.3	27/13	1.8	251.5	32/19	1.9	**260.9**	**35/25**	**0.6**	266.7	37/28	0.6	272.9	40/31
62	251.6	29/15	1.9	261.1	34/21	2.0	**271.2**	**38/28**	**0.6**	277.2	40/31	0.6	283.6	42/34
58	260.4	31/17	2.0	270.5	36/23	2.1	**280.9**	**40/30**	**0.6**	287.1	42/33	0.7	293.7	45/36
54	268.0	32/19	2.1	278.5	37/25	2.1	**289.2**	**42/32**	**0.6**	295.6	44/35	0.7	302.2	47/38
52	271.6	32/18	2.1	282.1	38/24	2.2	**293.0**	**43/31**	**0.6**	299.3	45/34	0.7	306.0	47/37
50	275.2	32/19	2.1	285.9	38/25	2.2	**296.8**	**43/31**	**0.7**	303.3	46/35	0.7	310.0	48/38
48	278.6	33/19	2.2	289.4	38/26	2.2	**300.4**	**44/32**	**0.7**	306.9	46/35	0.7	313.8	49/39
46	282.1	33/20	2.2	293.1	39/26	2.2	**304.1**	**45/33**	**0.7**	310.7	47/36	0.7	317.6	50/40
44	285.6	34/21	2.2	296.6	40/27	2.2	**307.8**	**46/34**	**0.7**	314.5	48/37	0.7	321.6	51/40
42	289.3	34/22	2.2	300.3	39/28	2.3	**311.6**	**45/34**	**0.7**	318.4	47/38	0.7	325.5	50/41
40	293.1	35/22	2.2	304.2	40/29	2.3	**315.6**	**46/35**	**0.7**	322.5	48/39	0.7	329.7	51/42
38	296.6	35/23	2.2	307.8	41/29	2.3	**319.4**	**46/36**	**0.7**	326.4	49/39	0.7	333.7	51/43
36	300.3	36/24	2.3	311.7	42/30	2.3	**323.4**	**47/37**	**0.7**	330.4	50/40	0.7	337.7	52/44
34	303.9	35/24	2.3	315.4	41/31	2.4	**327.2**	**46/37**	**0.7**	334.3	49/41	0.7	341.5	51/44
32	307.1	36/25	2.3	318.8	41/31	2.4	**330.8**	**47/38**	**0.7**	337.7	49/42	0.7	345.1	52/45
30	310.7	37/26	2.4	322.5	42/32	2.4	**334.5**	**48/39**	**0.7**	341.6	50/42	0.7	348.9	53/46
28	311.6	37/26	2.4	323.4	42/32	2.4	**335.4**	**48/39**	**0.7**	342.5	50/43	0.7	349.9	53/46
26	312.5	37/26	2.4	324.3	43/32	2.4	**336.3**	**48/39**	**0.7**	343.4	51/43	0.7	350.8	53/46
24	313.3	38/26	2.4	325.1	43/33	2.4	**337.2**	**49/40**	**0.7**	344.3	51/43	0.8	351.8	53/47
22	314.1	38/27	2.4	326.0	43/33	2.4	**338.1**	**49/40**	**0.7**	345.2	51/43	0.8	352.7	54/47
20	315.0	38/27	2.4	326.9	44/33	2.4	**339.0**	**49/40**	**0.7**	346.1	52/44	0.8	353.7	54/47
18	315.9	38/27	2.4	327.8	44/33	2.4	**339.9**	**50/40**	**0.7**	347.0	52/44	0.8	354.6	54/47
16	316.8	39/27	2.4	328.7	44/34	2.4	**340.9**	**50/41**	**0.7**	348.0	52/44	0.8	355.6	55/48
14	317.6	39/28	2.4	329.7	44/34	2.4	**341.8**	**50/41**	**0.7**	349.0	52/44	0.8	356.6	55/48
12	318.6	39/28	2.4	330.6	45/34	2.4	**342.8**	**50/41**	**0.7**	349.9	53/45	0.8	357.6	55/48
10	319.5	39/28	2.4	331.6	45/35	2.4	**343.7**	**51/42**	**0.7**	350.9	53/45	0.8	358.6	56/49
8	320.4	40/28	2.4	332.6	45/35	2.4	**344.7**	**51/42**	**0.7**	351.9	53/45	0.8	359.6	56/49
6	321.4	40/29	2.4	333.5	46/35	2.4	**345.6**	**51/42**	**0.7**	352.9	54/46	0.8	360.7	56/49
4	322.3	40/29	2.4	334.4	46/35	2.4	**346.6**	**52/42**	**0.7**	353.9	54/46	0.8	361.7	56/49
2	323.3	41/29	2.4	335.4	46/36	2.4	**347.6**	**52/43**	**0.7**	355.0	54/46	0.8	362.8	57/50
0	324.2	41/29	2.4	336.4	46/36	2.4	**348.6**	**52/43**	**0.7**	356.0	55/46	0.8	363.8	57/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400** LANDING DATA **WARSAW**

A/D Elev **362ft** Max wt Permitted (For pre flt planning) **285,760kg** **OKECIE (EPWA)**

RUNWAY	11	15	29	33
Landing Distance Available	2560m / 8399ft	3690m / 12106ft	2304m / 7559ft	3029m / 9938ft
Notes				Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ º above Max Temp	54°	54°	54°	54°/54
25F Zero HW wt or TW (Manual)	283.0 (262.0)	15kt (14kt)	258.0 (233.0)	8kt (2kt)
25F Zero HW wt or TW (Autoland)	283.0 (262.0)			8kt (2kt)
25F Slippery Zero HW wt or TW (Manual)	212.0	2kt	NOT AUTH	250.0
25F Slippery Zero HW wt or TW (Autoland)	212.0			250.0
30F Zero HW wt or TW (Manual)	5kt (281.0)	15kt (14kt)	274.0 (251.0)	8kt (2kt)
30F Zero HW wt or TW (Autoland)	5kt (281.0)			8kt (2kt)
30F Slippery Zero HW wt or TW (Manual)	235.0	2kt	207.0	276.0
30F Slippery Zero HW wt or TW (Autoland)	235.0			276.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg		750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. MACG: 3.0% minima can be used up to 53°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WARSAW**

A/D Elev **362ft** **CHOPIN (EPWA)**

F/L (TWY C1) RWY 11

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.212% DN
TOR	2304m (7559ft)	**ED**	2560m (8398ft)	**TOD**	2304m (7559ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	219.5	22/11	1.5	227.0	25/16	1.6	**234.8**	**27/22**	**0.5**	239.5	29/25	0.5	244.1	31/28
66	227.9	23/11	1.6	235.9	27/16	1.6	**244.1**	**30/22**	**0.5**	249.1	32/25	0.5	253.8	33/28
62	237.3	25/12	1.7	245.7	29/18	1.7	**254.3**	**33/24**	**0.5**	259.3	34/27	0.5	264.3	36/31
58	245.7	27/14	1.8	254.9	32/20	1.8	**263.8**	**35/26**	**0.5**	269.0	37/30	0.5	274.3	39/33
54	252.8	28/15	2.0	262.8	34/22	1.8	**272.0**	**38/28**	**0.6**	277.5	40/31	0.5	282.9	42/35
52	256.1	29/15	2.1	266.5	35/21	1.9	**275.8**	**39/27**	**0.6**	281.4	41/31	0.6	287.0	42/34
50	259.5	29/15	2.2	270.3	35/22	1.9	**279.9**	**40/28**	**0.6**	285.5	41/32	0.6	291.2	43/35
48	262.8	30/16	2.2	274.0	36/22	1.9	**283.7**	**40/29**	**0.6**	289.4	42/32	0.6	295.2	44/36
46	266.0	31/17	2.3	277.3	36/23	2.0	**287.5**	**41/30**	**0.6**	293.3	43/33	0.6	299.2	45/37
44	269.2	32/18	2.3	280.7	37/24	2.1	**291.2**	**42/30**	**0.6**	297.1	44/34	0.6	303.1	46/37
42	272.4	31/18	2.3	284.1	37/24	2.2	**295.0**	**42/31**	**0.6**	301.0	45/34	0.6	307.1	47/38
40	275.8	32/19	2.4	287.6	37/25	2.3	**299.0**	**43/32**	**0.6**	305.0	45/35	0.6	311.2	48/39
38	279.3	33/20	2.4	291.2	38/26	2.4	**303.0**	**44/33**	**0.6**	309.2	46/36	0.6	315.5	49/40
36	282.8	34/20	2.4	294.9	39/27	2.4	**307.1**	**44/33**	**0.6**	313.4	47/37	0.6	319.8	50/40
34	286.1	33/21	2.5	298.5	38/27	2.5	**311.1**	**44/34**	**0.6**	317.4	46/37	0.7	323.9	49/41
32	289.3	34/22	2.5	301.8	39/28	2.6	**314.7**	**44/35**	**0.7**	321.2	47/38	0.7	327.7	49/42
30	292.8	34/22	2.5	305.5	40/29	2.7	**318.8**	**45/35**	**0.6**	325.2	48/39	0.7	331.9	50/43
28	294.6	35/23	2.6	307.4	40/29	2.7	**320.8**	**46/36**	**0.6**	327.2	48/39	0.7	333.8	51/43
26	295.3	35/23	2.6	308.2	40/29	2.7	**321.5**	**46/36**	**0.7**	328.0	48/40	0.7	334.6	51/43
24	296.1	35/23	2.6	309.1	41/30	2.6	**322.2**	**46/36**	**0.7**	328.7	49/40	0.7	335.3	51/44
22	296.9	36/24	2.6	309.9	41/30	2.6	**322.9**	**47/37**	**0.7**	329.5	49/40	0.7	336.0	52/44
20	297.8	36/24	2.6	310.8	41/30	2.6	**323.6**	**47/37**	**0.7**	330.2	49/41	0.7	336.7	52/44
18	298.6	36/24	2.6	311.6	42/30	2.6	**324.4**	**47/37**	**0.7**	330.9	50/41	0.7	337.5	52/45
16	299.4	37/24	2.6	312.5	42/31	2.5	**325.1**	**47/38**	**0.7**	331.7	50/41	0.7	338.2	53/45
14	300.3	37/25	2.6	313.4	42/31	2.5	**325.9**	**48/38**	**0.7**	332.4	50/41	0.7	339.0	53/45
12	301.1	37/25	2.6	314.2	42/31	2.5	**326.6**	**48/38**	**0.7**	333.1	51/42	0.7	339.7	53/45
10	302.0	37/25	2.6	315.1	43/31	2.5	**327.4**	**48/38**	**0.7**	333.9	51/42	0.7	340.5	54/46
8	302.8	38/25	2.7	316.1	43/32	2.4	**328.2**	**49/39**	**0.7**	334.7	51/42	0.7	341.3	54/46
6	303.7	38/26	2.7	317.0	43/32	2.4	**328.9**	**49/39**	**0.7**	335.4	52/43	0.7	342.0	54/46
4	304.6	38/26	2.7	317.9	44/32	2.4	**329.8**	**50/39**	**0.6**	336.2	52/43	0.7	342.8	55/47
2	305.5	39/26	2.7	318.9	44/33	2.3	**330.5**	**50/40**	**0.7**	337.0	52/43	0.7	343.6	55/47
0	306.4	39/26	2.7	319.9	44/33	2.3	**331.3**	**50/40**	**0.7**	337.8	53/44	0.7	344.4	55/47

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WARSAW**

A/D Elev **362ft** **CHOPIN (EPWA)**

F/L (TWY A0) RWY 15

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.008% DN
TOR	3690m (12106ft)	**ED**	3690m (12106ft)	**TOD**	3690m (12106ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	281.5	36/26	1.8	290.6	40/32	0.9	**295.3**	**46/38**	**0.0**	295.3	49/41	0.0	295.3	50/45
66	291.5	38/28	1.9	300.8	42/33	1.8	**310.0**	**47/39**	**0.2**	311.6	50/42	0.0	311.6	53/46
62	302.8	40/30	1.9	312.5	45/36	1.9	**322.2**	**50/41**	**0.6**	327.8	52/44	0.0	327.9	55/48
58	312.7	41/33	2.1	323.1	45/38	2.1	**333.6**	**50/44**	**0.6**	339.3	52/47	0.4	343.4	55/50
54	321.3	42/35	2.1	332.0	46/40	2.2	**343.0**	**51/46**	**0.6**	348.7	53/49	0.6	354.8	55/52
52	325.5	43/34	2.1	336.2	47/40	2.2	**347.3**	**52/45**	**0.6**	353.2	54/48	0.6	359.4	56/51
50	329.3	42/35	2.2	340.2	47/40	2.3	**351.7**	**52/46**	**0.6**	357.8	54/49	0.6	364.1	56/52
48	333.4	43/36	2.2	344.4	48/41	2.3	**356.1**	**53/47**	**0.6**	362.4	55/50	0.7	368.9	57/53
46	337.5	44/36	2.2	348.6	48/42	2.4	**360.5**	**53/48**	**0.7**	367.0	56/50	0.7	373.6	58/53
44	341.4	45/37	2.2	352.6	49/43	2.5	**364.9**	**54/48**	**0.7**	371.5	56/51	0.7	378.3	58/54
42	345.3	43/38	2.3	356.9	48/44	2.5	**369.5**	**53/49**	**0.7**	376.3	55/52	0.7	383.1	57/55
40	349.6	44/39	2.4	361.4	49/45	2.6	**374.3**	**54/50**	**0.7**	381.2	56/53	0.8	388.8	58/56
38	353.8	45/39	2.4	365.9	50/45	2.6	**379.1**	**55/51**	**0.7**	386.0	57/54	1.1	396.7	58/56
36	358.3	46/40	2.5	370.7	51/46	2.7	**384.0**	**56/52**	**1.0**	393.8	57/54	0.8	401.5	59/57
34	362.6	45/41	2.5	375.3	50/47	2.9	**389.9**	**55/52**	**0.9**	399.2	56/55	0.7	405.9	58/58
32	366.7	46/42	2.6	379.6	51/48	3.4	**396.7**	**55/52**	**0.7**	403.4	57/55	0.7	410.3	59/58
30	371.3	47/42	2.6	384.3	51/48	3.4	**401.3**	**56/53**	**0.7**	408.1	58/56	0.7	414.9	60/59
28	373.6	47/43	2.6	386.7	52/49	3.4	**403.6**	**56/54**	**0.7**	410.5	58/57	0.7	417.3	60/60
26	374.6	47/43	2.7	388.3	52/49	3.3	**404.7**	**56/54**	**0.7**	411.5	59/57	0.7	418.4	61/60
24	375.6	48/43	2.9	390.1	52/49	3.1	**405.7**	**57/54**	**0.7**	412.5	59/57	0.7	419.5	61/60
22	376.7	48/44	3.0	391.9	52/49	3.0	**406.8**	**57/54**	**0.7**	413.6	59/57	0.7	420.6	61/61
20	377.7	48/44	3.2	393.8	52/49	2.8	**407.8**	**57/55**	**0.7**	414.7	59/58	0.7	421.6	61/61
18	378.8	48/44	3.4	395.7	53/49	2.6	**408.9**	**58/55**	**0.7**	415.8	60/58	0.7	422.7	62/61
16	379.9	49/44	3.4	396.9	53/50	2.6	**410.0**	**58/55**	**0.7**	416.9	60/58	0.7	423.8	62/61
14	381.0	49/45	3.4	397.9	53/50	2.6	**411.1**	**58/56**	**0.7**	418.0	60/59	0.7	424.9	62/62
12	382.1	49/45	3.4	399.0	53/50	2.6	**412.2**	**58/56**	**0.7**	419.1	61/59	0.7	426.1	63/62
10	383.2	49/45	3.4	400.1	54/50	2.6	**413.3**	**59/56**	**0.7**	420.3	61/59	0.7	427.2	63/62
8	384.3	50/45	3.4	401.2	54/51	2.6	**414.4**	**59/56**	**0.7**	421.4	61/59	0.7	428.4	63/62
6	385.5	50/46	3.4	402.3	54/51	2.7	**415.6**	**59/57**	**0.7**	422.6	61/60	0.7	429.6	63/63
4	386.6	50/46	3.4	403.4	54/51	2.7	**416.7**	**59/57**	**0.7**	423.7	62/60	0.7	430.8	64/63
2	388.4	51/46	3.2	404.5	55/52	2.7	**417.9**	**60/57**	**0.7**	424.9	62/60	0.7	432.0	64/63
0	390.4	51/46	3.1	405.7	55/52	2.7	**419.1**	**60/58**	**0.7**	426.1	62/61	0.7	433.2	64/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WARSAW**

A/D Elev **362ft** **CHOPIN (EPWA)**

F/L (TWY E3) RWY 29

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.272% UP
TOR	2800m (9186ft)	**ED**	2800m (9186ft)	**TOD**	2800m (9186ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	246.0	23/11	1.8	254.8	28/17	1.7	**263.1**	**33/23**	**0.5**	268.1	36/26	0.5	273.2	38/29
66	254.5	24/12	1.8	263.5	30/18	1.7	**272.1**	**36/24**	**0.5**	277.4	38/27	0.5	282.8	40/30
62	264.0	27/15	1.9	273.5	33/20	1.8	**282.6**	**38/27**	**0.6**	288.2	41/29	0.6	293.8	43/33
58	273.1	28/17	2.0	283.1	34/23	1.9	**292.7**	**39/29**	**0.6**	298.5	41/32	0.6	304.3	44/35
54	280.4	29/19	2.1	290.7	34/24	2.1	**301.3**	**40/31**	**0.6**	307.3	42/34	0.6	313.3	44/37
52	284.0	30/18	2.1	294.4	35/23	2.2	**305.2**	**41/30**	**0.6**	311.4	43/33	0.6	317.4	45/36
50	287.1	30/19	2.1	297.6	35/24	2.3	**309.2**	**40/30**	**0.6**	315.4	42/34	0.6	321.7	45/37
48	290.8	30/19	2.1	301.4	36/25	2.4	**313.2**	**41/31**	**0.6**	319.6	43/34	0.6	325.9	45/38
46	294.4	31/20	2.2	305.2	36/26	2.4	**317.1**	**42/32**	**0.6**	323.5	44/35	0.7	330.0	46/38
44	297.9	32/21	2.2	308.9	37/26	2.4	**321.0**	**42/33**	**0.6**	327.4	45/36	0.6	333.8	47/39
42	300.7	31/21	2.3	312.1	36/27	2.5	**324.5**	**42/34**	**0.7**	331.1	44/37	0.7	337.8	46/40
40	304.5	32/22	2.3	316.0	37/28	2.5	**328.6**	**42/34**	**0.7**	335.1	45/38	0.7	341.9	47/41
38	308.4	33/23	2.3	320.1	38/29	2.5	**332.6**	**43/35**	**0.7**	339.3	46/38	0.7	346.0	48/42
36	312.3	33/24	2.4	324.1	39/30	2.5	**336.8**	**44/36**	**0.7**	343.5	46/39	0.7	350.4	49/42
34	316.0	33/24	2.4	328.0	38/30	2.5	**340.7**	**43/37**	**0.7**	347.4	46/40	0.7	354.4	48/43
32	319.6	33/25	2.4	331.6	39/31	2.5	**344.3**	**44/37**	**0.7**	351.2	46/41	0.7	358.3	49/44
30	323.5	34/26	2.4	335.5	40/32	2.6	**348.4**	**45/38**	**0.7**	355.3	47/41	0.7	362.6	49/45
28	325.5	35/26	2.4	337.5	40/32	2.6	**350.5**	**45/39**	**0.7**	357.5	48/42	0.7	364.8	50/45
26	326.3	35/26	2.4	338.4	40/32	2.6	**351.4**	**45/39**	**0.7**	358.4	48/42	0.7	365.8	50/45
24	327.2	35/26	2.4	339.3	41/33	2.6	**352.3**	**46/39**	**0.7**	359.4	48/42	0.7	366.8	50/46
22	328.1	35/27	2.4	340.2	41/33	2.6	**353.2**	**46/39**	**0.7**	360.4	48/43	0.7	367.8	51/46
20	329.0	36/27	2.4	341.1	41/33	2.6	**354.2**	**46/40**	**0.7**	361.3	49/43	0.8	368.8	51/46
18	330.0	36/27	2.4	342.0	41/33	2.6	**355.1**	**47/40**	**0.7**	362.3	49/43	0.8	369.9	51/47
16	330.8	36/27	2.4	342.9	42/34	2.6	**356.1**	**47/40**	**0.7**	363.3	49/43	0.8	370.9	52/47
14	331.7	36/28	2.4	343.9	42/34	2.6	**357.1**	**47/40**	**0.7**	364.4	49/44	0.8	372.0	52/47
12	332.6	37/28	2.4	344.8	42/34	2.7	**358.1**	**47/41**	**0.7**	365.4	50/44	0.8	373.1	52/47
10	333.5	37/28	2.4	345.7	42/34	2.7	**359.1**	**48/41**	**0.7**	366.5	50/44	0.8	374.1	52/48
8	334.5	37/28	2.4	346.7	43/35	2.7	**360.2**	**48/41**	**0.7**	367.5	50/44	0.8	375.3	53/48
6	335.4	38/29	2.5	347.7	43/35	2.7	**361.2**	**48/41**	**0.7**	368.6	51/45	0.8	376.4	53/48
4	336.4	38/29	2.5	348.7	43/35	2.7	**362.2**	**49/42**	**0.8**	369.7	51/45	0.8	377.5	53/48
2	337.4	38/29	2.5	349.7	44/35	2.7	**363.3**	**49/42**	**0.8**	370.8	51/45	0.8	378.7	54/49
0	338.4	38/30	2.5	350.7	44/36	2.7	**364.4**	**49/42**	**0.8**	372.0	52/46	0.8	379.9	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WARSAW**

A/D Elev **362ft** **CHOPIN (EPWA)**

F/L (TWY B8) RWY 33

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.008% UP
TOR	3690m (12106ft)	**ED**	3690m (12106ft)	**TOD**	3690m (12106ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	280.0	36/27	1.5	287.3	41/32	1.4	**294.1**	**46/38**	**0.1**	295.3	49/41	0.0	295.3	50/45
66	291.3	38/28	1.6	299.3	43/34	1.5	**306.6**	**48/39**	**0.4**	310.7	50/42	0.1	311.6	53/46
62	302.7	40/30	1.9	312.1	45/36	1.6	**319.9**	**51/42**	**0.4**	324.2	53/45	0.4	327.9	55/48
58	312.5	41/33	2.1	322.9	45/38	1.9	**332.3**	**51/44**	**0.5**	336.8	53/47	0.5	341.3	55/50
54	321.1	42/35	2.1	331.8	46/40	2.2	**342.8**	**51/46**	**0.5**	347.6	54/49	0.5	352.3	56/52
52	325.3	43/34	2.1	336.0	47/40	2.2	**347.1**	**52/45**	**0.6**	352.6	54/48	0.5	357.4	57/51
50	329.1	42/35	2.2	340.1	47/40	2.3	**351.5**	**52/46**	**0.6**	357.6	54/49	0.5	362.7	56/52
48	333.2	43/35	2.2	344.2	48/41	2.3	**355.9**	**53/47**	**0.6**	362.2	55/50	0.6	368.0	57/53
46	337.3	44/36	2.2	348.4	48/42	2.4	**360.3**	**53/48**	**0.7**	366.8	56/50	0.7	373.3	58/53
44	341.2	44/37	2.3	352.5	49/43	2.4	**364.7**	**54/48**	**0.7**	371.3	56/51	0.7	378.1	58/54
42	345.2	43/38	2.3	356.7	48/44	2.5	**369.4**	**53/49**	**0.7**	376.1	55/52	0.7	382.9	57/55
40	349.4	44/39	2.4	361.2	49/45	2.6	**374.1**	**54/50**	**0.7**	381.0	56/53	0.8	388.5	58/56
38	353.7	45/39	2.4	365.8	50/45	2.6	**379.0**	**55/51**	**0.7**	385.8	57/54	1.1	396.5	58/56
36	358.1	46/40	2.5	370.5	51/46	2.7	**383.8**	**56/52**	**1.0**	393.5	57/54	0.8	401.3	59/57
34	362.4	45/41	2.5	375.1	50/47	2.9	**389.5**	**55/52**	**1.0**	399.0	56/55	0.7	405.7	58/58
32	366.5	46/42	2.6	379.4	51/48	3.4	**396.5**	**55/52**	**0.7**	403.2	57/55	0.7	410.1	59/58
30	371.1	47/42	2.6	384.1	51/48	3.4	**401.1**	**56/53**	**0.7**	407.9	58/56	0.7	414.7	60/59
28	373.4	47/43	2.6	386.5	52/49	3.4	**403.4**	**56/54**	**0.7**	410.3	58/57	0.7	417.1	60/60
26	374.4	47/43	2.7	388.0	52/49	3.3	**404.5**	**56/54**	**0.7**	411.3	59/57	0.7	418.2	61/60
24	375.4	48/43	2.9	389.8	52/49	3.1	**405.5**	**57/54**	**0.7**	412.4	59/57	0.7	419.3	61/60
22	376.5	48/44	3.0	391.6	52/49	3.0	**406.6**	**57/54**	**0.7**	413.4	59/57	0.7	420.4	61/61
20	377.5	48/44	3.2	393.4	53/49	2.8	**407.6**	**57/55**	**0.7**	414.5	59/58	0.7	421.4	61/61
18	378.6	48/44	3.3	395.3	53/49	2.7	**408.7**	**58/55**	**0.7**	415.6	60/58	0.7	422.5	62/61
16	379.7	49/44	3.4	396.7	53/50	2.6	**409.8**	**58/55**	**0.7**	416.7	60/58	0.7	423.6	62/61
14	380.8	49/45	3.4	397.7	53/50	2.6	**410.9**	**58/56**	**0.7**	417.8	60/59	0.7	424.8	62/62
12	381.9	49/45	3.4	398.8	53/50	2.6	**412.0**	**58/56**	**0.7**	418.9	61/59	0.7	425.9	63/62
10	383.0	49/45	3.4	399.9	54/50	2.6	**413.1**	**59/56**	**0.7**	420.1	61/59	0.7	427.0	63/62
8	384.1	50/45	3.4	401.0	54/51	2.6	**414.2**	**59/56**	**0.7**	421.2	61/59	0.7	427.9	63/62
6	385.3	50/46	3.4	402.1	54/51	2.7	**415.4**	**59/57**	**0.7**	422.4	61/60	0.6	428.8	64/63
4	386.4	50/46	3.4	403.2	54/51	2.7	**416.5**	**59/57**	**0.7**	423.5	62/60	0.6	429.7	64/63
2	388.0	51/46	3.3	404.3	55/52	2.7	**417.7**	**60/57**	**0.7**	424.7	62/60	0.6	430.5	64/64
0	390.0	51/46	3.1	405.5	55/52	2.7	**418.9**	**60/58**	**0.7**	425.6	62/61	0.6	431.4	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400** LANDING DATA **STOCKHOLM**

A/D Elev **135ft** Max wt Permitted (For pre flt planning) **285,760kg** **ARLANDA (ESSA)**

RUNWAY	01L	01R	08	19L
Landing Distance Available	3300m / 10827ft	2500m / 8200ft	2500m / 8200ft	2500m / 8200ft
Notes	Note 1	Note 1	Notes 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°	54°/54°
25F Zero HW wt or TW (Manual)	12kt (6kt)	277.0 (256.0)	277.0 (256.0)	277.0 (256.0)
25F Zero HW wt or TW (Autoland)	12kt (6kt)	277.0 (256.0)		277.0 (256.0)
25F Slippery Zero HW wt or TW (Manual)	272.0	204.0	204.0	204.0
25F Slippery Zero HW wt or TW (Autoland)	272.0	204.0		204.0
30F Zero HW wt or TW (Manual)	12kt (6kt)	280.8 (274.0)	280.8 (274.0)	280.8 (274.0)
30F Zero HW wt or TW (Autoland)	12kt (6kt)	280.8 (274.0)		280.8 (274.0)
30F Slippery Zero HW wt or TW (Manual)	280.8	227.0	227.0	227.0
30F Slippery Zero HW wt or TW (Autoland)	280.8	227.0		227.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Surface**: Degraded braking action when wet only on rubber deposits.

BRITISH AIRWAYS **B747-400** LANDING DATA **STOCKHOLM**

A/D Elev **135ft** Max wt Permitted (For pre flt planning) **285,760kg** **ARLANDA (ESSA)**

RUNWAY	**19R**	**26**		
Landing Distance Available	3300m / 10827ft	2500m / 8200ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/-		
25F Zero HW wt or TW (Manual)	12kt (6kt)	277.0 (256.0)		
25F Zero HW wt or TW (Autoland)	12kt (6kt)			
25F Slippery Zero HW wt or TW (Manual)	272.0	204.0		
25F Slippery Zero HW wt or TW (Autoland)	272.0			
30F Zero HW wt or TW (Manual)	12kt (6kt)	280.8 (274.0)		
30F Zero HW wt or TW (Autoland)	12kt (6kt)			
30F Slippery Zero HW wt or TW (Manual)	280.8	227.0		
30F Slippery Zero HW wt or TW (Autoland)	280.8			
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Surface**: Degraded braking action when wet only on rubber deposits.

BRITISH AIRWAYS **B747-400** LANDING DATA **BLOEMFONTEIN (FABL)**

A/D Elev **4457ft** Max wt Permitted (For pre flt planning) **270,000kg**

RUNWAY	**02**	**20**		
Landing Distance Available	2563m / 8396ft	2563m / 8396ft		
Notes				
WAT LIMIT °C : Man / Auto	45°	45°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	252.0 (245.0)	252.0 (232.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	270.0 (245.0)	270.0 (245.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	211.0	211.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CAPE TOWN (FACT)**

A/D Elev **151ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	01	19		
Landing Distance Available	3201m / 10499ft	3201m / 10499ft		
Notes	Note 1,2	Note 1,2		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
25F Zero HW wt or TW (Autoland)	11kt (5kt)	11kt (5kt)		
25F Slippery Zero HW wt or TW (Manual)	265.0	265.0		
25F Slippery Zero HW wt or TW (Autoland)	265.0	265.0		
30F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)	11kt (5kt)	11kt (5kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)	280.8	280.8		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located NORTH EAST of airfield.
2. MACG: 5.2% minima can be used up to 54°C OAT and up to 285760kg

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CAPETOWN**

A/D Elev **151ft** **INTL (FACT)**

F/L (TWY B3) RWY 01

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.029% UP
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3558m (11673ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	270.8	29/19	1.8	280.0	34/24	1.9	**289.6**	**39/29**	**0.6**	295.1	41/32	0.3	297.6	44/36
66	280.2	31/20	1.9	289.9	36/25	2.0	**299.9**	**41/31**	**0.6**	305.5	43/34	0.6	311.6	45/37
62	291.1	33/22	2.0	301.2	38/28	2.1	**311.5**	**43/34**	**0.6**	317.5	46/36	0.6	323.9	48/39
58	301.2	34/24	2.1	311.6	39/30	2.2	**322.5**	**44/36**	**0.6**	328.5	46/39	0.6	334.3	48/42
54	309.3	35/26	2.2	320.2	40/32	2.2	**331.4**	**45/38**	**0.6**	337.3	47/41	0.6	343.3	49/44
52	313.3	36/25	2.2	324.3	41/31	2.3	**335.6**	**46/37**	**0.6**	341.6	48/40	0.6	347.6	50/43
50	316.9	35/26	2.2	328.1	40/32	2.3	**339.6**	**45/38**	**0.6**	345.7	47/41	0.6	352.0	49/44
48	321.0	36/27	2.3	332.3	41/33	2.3	**343.7**	**46/39**	**0.6**	350.1	48/42	0.6	356.4	50/45
46	325.0	37/28	2.3	336.3	42/33	2.3	**347.9**	**47/39**	**0.6**	354.3	49/42	0.7	360.9	51/46
44	328.9	38/28	2.3	340.3	43/34	2.3	**352.0**	**48/40**	**0.7**	358.5	50/43	0.7	365.2	52/46
42	332.5	37/29	2.3	344.1	42/35	2.4	**356.1**	**46/41**	**0.7**	362.9	49/44	0.7	369.9	51/47
40	336.6	37/30	2.3	348.2	42/36	2.5	**360.6**	**47/42**	**0.7**	367.5	50/45	0.7	374.6	52/48
38	340.7	38/31	2.4	352.5	43/36	2.5	**365.1**	**48/43**	**0.7**	372.2	50/46	0.7	379.5	53/49
36	344.9	39/31	2.4	356.9	44/37	2.6	**369.9**	**49/43**	**0.7**	377.1	51/46	0.7	384.3	53/50
34	349.0	38/32	2.4	361.2	43/38	2.7	**374.5**	**48/44**	**0.7**	381.8	51/47	0.9	390.7	52/50
32	352.7	39/33	2.5	365.3	44/39	2.7	**378.8**	**49/45**	**0.7**	386.1	51/48	1.1	397.2	53/50
30	356.9	40/34	2.6	369.8	45/39	2.7	**383.5**	**50/46**	**1.0**	393.7	52/48	0.8	401.8	53/51
28	358.4	40/34	2.6	371.3	45/40	2.8	**385.1**	**50/46**	**1.1**	396.3	52/48	0.7	403.4	54/52
26	359.4	40/34	2.6	372.3	45/40	2.8	**386.1**	**50/46**	**1.1**	397.3	52/49	0.7	404.4	54/52
24	360.3	40/34	2.6	373.4	46/40	2.8	**387.4**	**51/46**	**1.1**	398.3	52/49	0.7	405.4	54/52
22	361.3	41/35	2.6	374.4	46/40	3.0	**389.2**	**51/47**	**1.0**	399.4	52/49	0.7	406.5	55/52
20	362.3	41/35	2.6	375.5	46/41	3.1	**391.0**	**51/47**	**0.9**	400.4	53/49	0.7	407.5	55/53
18	363.3	41/35	2.6	376.5	46/41	3.3	**392.9**	**51/47**	**0.9**	401.4	53/49	0.7	408.6	55/53
16	364.3	42/35	2.7	377.6	47/41	3.4	**394.8**	**51/47**	**0.8**	402.5	53/50	0.7	409.7	55/53
14	365.3	42/36	2.7	378.7	47/42	3.5	**396.4**	**51/47**	**0.7**	403.6	53/50	0.7	410.8	56/53
12	366.4	42/36	2.7	379.8	47/42	3.5	**397.5**	**51/47**	**0.7**	404.7	54/50	0.7	411.9	56/54
10	367.4	42/36	2.7	380.9	47/42	3.5	**398.6**	**52/47**	**0.7**	405.8	54/51	0.7	413.0	56/54
8	368.5	43/36	2.7	382.0	48/42	3.5	**399.7**	**52/48**	**0.7**	406.9	54/51	0.7	414.2	56/54
6	369.6	43/37	2.7	383.2	48/43	3.5	**400.8**	**52/48**	**0.7**	408.0	55/51	0.7	415.3	57/55
4	370.7	43/37	2.7	384.3	48/43	3.5	**401.9**	**53/48**	**0.7**	409.2	55/51	0.7	416.5	57/55
2	371.8	43/37	2.7	385.5	48/43	3.5	**403.0**	**53/49**	**0.7**	410.4	55/52	0.7	417.7	57/55
0	373.0	44/37	2.7	386.7	49/43	3.5	**404.2**	**53/49**	**0.7**	411.5	55/52	0.7	418.9	58/55

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 01

All Engines (Noise Abatement) Use FCOM 1 noise abatement procedure. Terminating alt 3000ft QNH.

EMERGENCY TURN PROCEDURE - Rwy 01 KODES and IMSOM conventional SIDs - no restrictions provided SID followed and SSA achieved TETAN and OKTED conventional SIDs Eng failure BEFORE RIV - continue on SID to RIV 22d. Turn RIGHT to CTV for return. Contact ATC for instruction.Eng failure AFTER RIV 22d - no restrictions provided SSA achieved. IMSOM KODES TETAN and OKTED RNAV RNP SIDs NOT APPROVED

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CAPETOWN**

A/D Elev **151ft** **INTL (FACT)**

F/L (TWY A2) RWY 19

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.029% DN
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3456m (11338ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	270.3	29/19	1.8	279.5	34/24	1.8	**288.6**	**39/30**	**0.5**	293.6	41/33	0.4	297.6	44/36
66	279.9	31/20	1.9	289.6	36/26	1.9	**299.2**	**41/31**	**0.5**	304.4	44/34	0.6	309.9	46/37
62	290.9	34/22	2.0	301.0	39/28	2.0	**311.2**	**44/34**	**0.5**	316.5	46/37	0.6	322.3	48/40
58	300.6	34/25	2.1	310.9	39/30	2.1	**321.5**	**44/36**	**0.6**	327.4	46/39	0.6	333.1	49/42
54	308.8	35/26	2.1	319.5	40/32	2.2	**330.5**	**45/38**	**0.6**	336.3	47/41	0.6	342.2	49/44
52	312.9	36/25	2.2	323.7	41/31	2.2	**334.7**	**46/37**	**0.6**	340.7	48/40	0.6	346.6	50/43
50	316.5	35/26	2.2	327.5	40/32	2.3	**338.8**	**45/38**	**0.6**	344.8	48/41	0.6	351.0	50/44
48	320.6	36/27	2.2	331.7	41/33	2.3	**343.0**	**46/39**	**0.6**	349.2	49/42	0.6	355.5	51/45
46	324.6	37/28	2.2	335.8	42/34	2.3	**347.2**	**47/40**	**0.6**	353.5	49/43	0.6	359.9	52/46
44	328.6	38/29	2.2	339.8	43/34	2.3	**351.3**	**48/40**	**0.6**	357.7	50/43	0.7	364.3	52/47
42	332.2	37/29	2.3	343.7	42/35	2.4	**355.5**	**47/41**	**0.7**	362.2	49/44	0.7	369.0	51/47
40	336.3	38/30	2.3	347.9	43/36	2.4	**360.0**	**48/42**	**0.7**	366.8	50/45	0.7	373.7	52/48
38	340.5	38/31	2.3	352.2	43/37	2.5	**364.6**	**48/43**	**0.7**	371.6	51/46	0.7	378.7	53/49
36	344.7	39/32	2.4	356.6	44/37	2.6	**369.4**	**49/44**	**0.7**	376.5	51/47	0.7	383.6	54/50
34	348.8	38/32	2.4	361.0	43/38	2.6	**374.0**	**48/44**	**0.7**	381.3	51/47	0.8	389.4	53/51
32	352.6	39/33	2.5	365.0	44/39	2.7	**378.4**	**49/45**	**0.7**	385.6	51/48	1.1	396.4	53/51
30	356.9	40/34	2.5	369.6	45/40	2.7	**383.1**	**50/46**	**1.0**	392.7	52/48	0.8	401.0	54/51
28	358.3	40/34	2.6	371.1	45/40	2.7	**384.6**	**50/46**	**1.1**	395.4	52/49	0.7	402.6	54/52
26	359.2	40/34	2.6	372.1	45/40	2.7	**385.7**	**51/46**	**1.1**	396.6	52/49	0.7	403.6	54/52
24	360.2	41/34	2.6	373.1	46/40	2.7	**386.7**	**51/47**	**1.1**	397.6	52/49	0.7	404.6	55/52
22	361.1	41/35	2.6	374.1	46/41	2.8	**388.3**	**51/47**	**1.0**	398.6	53/49	0.7	405.6	55/53
20	362.1	41/35	2.6	375.1	46/41	3.0	**390.0**	**51/47**	**1.0**	399.6	53/49	0.7	406.6	55/53
18	363.1	41/35	2.6	376.2	46/41	3.1	**391.8**	**51/47**	**0.9**	400.6	53/50	0.7	407.7	55/53
16	364.1	42/35	2.6	377.2	47/41	3.3	**393.6**	**51/47**	**0.8**	401.7	53/50	0.7	408.8	56/53
14	365.1	42/36	2.6	378.3	47/42	3.4	**395.4**	**52/47**	**0.7**	402.7	54/50	0.7	409.8	56/54
12	366.1	42/36	2.7	379.4	47/42	3.5	**396.7**	**52/47**	**0.7**	403.7	54/50	0.7	410.9	56/54
10	367.1	43/36	2.7	380.5	48/42	3.4	**397.7**	**52/48**	**0.7**	404.8	54/51	0.7	411.9	57/54
8	368.2	43/36	2.7	381.6	48/42	3.4	**398.8**	**52/48**	**0.7**	405.9	55/51	0.7	413.0	57/54
6	369.3	43/37	2.7	382.7	48/43	3.4	**399.9**	**53/48**	**0.7**	407.0	55/51	0.7	414.1	57/55
4	370.3	43/37	2.7	383.8	48/43	3.4	**400.9**	**53/49**	**0.7**	408.1	55/52	0.7	415.2	57/55
2	371.4	44/37	2.7	384.9	49/43	3.4	**402.0**	**53/49**	**0.7**	409.2	56/52	0.7	416.4	58/55
0	372.5	44/38	2.7	386.0	49/44	3.4	**403.1**	**53/49**	**0.7**	410.4	56/52	0.7	417.5	58/56

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 19

ALL ENGINES (noise abatement) Terminating ALT 3000ft QNH.

TETAN 1A and OKTED 1B NOT AUTHORISED at weights greater than 375000kg as climb gradient cannot be achieved and radar coverage not assured. Use TETAN 1B or OKTED 1C instead.ENGINE OUT PERFORMANCE EMERGENCY TURN PROCEDURE - Rwy 19 TETAN 1B and OKTED 1C SIDs Engine failure BEFORE CTV 20d - continue STRAIGHT AHEAD and request ATC instruction Engine failure AFTER CTV 20d - no restrictions provided SID is followed and SSA achieved.

TETAN 1A and OKTED 1B SIDs Engine failure BEFORE CTV 5d - continue STRAIGHT AHEAD and request ATC instruction.Engine failure AFTER CTV 5d but BEFORE CTV 18d - turn RIGHT to CTV. Request ATC instruction. Engine failure AFTER CTV 18d - no restrictions provided SID is followed and SSA achieved. KODES and IMSOM conventional SIDs Eng failure BEFORE 5500ft - continue on SID to intercept CTV 210R. Contact ATC for instructions Engine failure AFTER 5500ft - no restrictions provided SID is followed and SSA achieved.

IMSOM KODES TETAN and OKTED RNAV RNP SIDs NOT APPROVED

BRITISH AIRWAYS **B747-400** LANDING DATA **DURBAN**

A/D Elev **304ft** Max wt Permitted (For pre flt planning) **285,760kg** **KING SHAKA INTL (FALE)**

RUNWAY	06	24		
Landing Distance Available	3700m / 12139ft	3700m / 12139ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	53°	53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (13kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	2kt	2kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (13kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	2kt	2kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 06/24: MACG: 3.6% minima can be used up to 53°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **JOHANNESBURG (FAOR)**

A/D Elev **5558ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY (STATUS) Landing Distance Available Notes	**03L** 4421m / 14504ft Note 1	**03R** 3405m / 11171ft Notes 1,2	**21L** 3405m / 11171ft Notes 1,3	**21R** 3971m / 13028ft Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	43°/43°	43°	43°/43°	43°
25F Zero HW wt or TW (Manual)	14kt (8kt)	6kt (0kt)	6kt (0kt)	14kt (8kt)
25F Zero HW wt or TW (Autoland)	14kt (8kt)		6kt (0kt)	14kt (8kt)
25F Slippery Zero HW wt or TW (Manual)	5kt	245.0	245.0	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt		245.0	5kt
30F Zero HW wt or TW (Manual)	14kt (8kt)	6kt (0kt)	6kt (0kt)	14kt (8kt)
30F Zero HW wt or TW (Autoland)	14kt (8kt)		6kt (0kt)	14kt (8kt)
30F Slippery Zero HW wt or TW (Manual)	5kt	269.0	269.0	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt		269.0	5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG and Minima**:
MACG: 2.5% to 4.6% minima can be used up to 43°C OAT and up to 285760kg.
MACG: 5.1% minima can be used up to 41°C OAT and up to 285760kg.
MACG: 5.8% minima can be used up to 36°C OAT and up to 285760kg.
2. **ILS Cat 2 Rwy 03R:** Caution radio altimeter on Rwy 03R will ramp down approx 50ft just prior to Cat 2 DH, reducing time between 50 above call and DH.
3. **ILS Cat 2 Rwy 21L**: Caution radio altimeter on Rwy 21L will ramp down approx 50ft just prior to Cat 2 DH, reducing time betwen 50 above call and DH.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY B (F/L) RWY 03L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.4% DN
TOR	4421m (14504ft)	**ED**	4482m (14704ft)	**TOD**	4691m (15390ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	278.7	39/30	0.0	278.7	45/36	0.0	**278.7**	**46/42**	**0.0**	278.7	46/45	0.0	278.7	46/46
58	288.6	38/31	0.6	291.6	43/37	0.0	**291.6**	**49/43**	**0.0**	291.6	49/46	0.0	291.6	49/49
54	297.3	40/32	1.2	303.5	45/37	0.0	**303.5**	**51/43**	**0.0**	303.5	52/46	0.0	303.5	52/49
52	301.4	41/32	1.5	309.1	45/37	0.0	**309.1**	**52/44**	**0.0**	309.1	54/47	0.0	309.1	54/50
50	305.5	41/33	1.7	314.0	46/38	0.1	**314.6**	**52/44**	**0.0**	314.6	55/47	0.0	314.6	55/51
48	309.3	42/34	1.7	317.9	47/39	0.5	**320.2**	**53/45**	**0.0**	320.2	56/48	0.0	320.2	57/51
46	312.3	41/35	1.8	321.1	45/40	0.9	**325.8**	**51/46**	**0.0**	325.8	54/49	0.0	325.8	57/52
44	316.3	42/36	1.8	325.3	46/41	1.2	**331.4**	**52/46**	**0.0**	331.4	55/49	0.0	331.4	58/53
42	320.4	42/36	1.8	329.5	47/41	1.5	**337.0**	**52/47**	**0.0**	337.0	55/50	0.0	337.0	58/53
40	324.4	42/37	1.9	333.9	47/42	1.7	**342.6**	**52/48**	**0.0**	342.6	55/51	0.0	342.6	58/54
38	328.5	43/38	1.9	338.0	48/43	2.0	**347.9**	**52/48**	**0.1**	348.7	55/51	0.0	348.7	58/55
36	332.8	44/39	1.9	342.3	48/44	2.0	**352.3**	**53/49**	**0.3**	354.8	56/52	0.0	354.8	59/55
34	336.8	45/40	1.9	346.4	49/45	2.0	**356.6**	**54/50**	**0.4**	360.7	56/53	0.0	360.7	60/56
32	340.7	45/40	1.9	350.4	50/45	2.1	**360.8**	**55/51**	**0.6**	366.4	57/53	0.0	366.4	60/57
30	344.5	45/41	2.0	354.3	49/46	2.1	**365.0**	**54/51**	**0.6**	370.5	56/54	0.1	371.2	59/57
28	347.3	45/42	2.0	357.3	50/47	2.2	**368.1**	**55/52**	**0.6**	373.6	57/55	0.2	375.2	60/58
26	350.2	46/42	2.0	360.4	51/47	2.1	**371.1**	**55/53**	**0.6**	376.7	57/55	0.2	378.8	60/58
24	353.2	46/43	2.0	363.4	51/48	2.2	**374.2**	**56/53**	**0.6**	379.9	58/56	0.2	382.0	61/59
22	355.5	47/43	2.1	365.9	52/48	2.2	**376.7**	**56/54**	**0.6**	382.5	59/56	0.2	384.8	61/60
20	357.8	47/44	2.1	368.3	52/49	2.2	**379.2**	**57/54**	**0.6**	385.0	59/57	0.3	387.6	62/60
18	360.2	48/44	2.1	370.7	53/49	2.2	**381.8**	**57/55**	**0.6**	387.4	60/57	0.4	391.1	62/61
16	362.4	48/44	2.1	372.8	53/50	2.2	**383.9**	**58/55**	**0.6**	389.6	60/58	0.5	394.7	63/61
14	364.7	47/45	2.1	375.2	51/50	2.2	**386.3**	**56/56**	**0.6**	392.1	59/59	0.5	397.1	61/61
12	365.7	47/45	2.1	376.2	52/51	2.2	**387.3**	**57/56**	**0.6**	393.1	59/59	0.5	398.1	61/62
10	366.6	49/45	2.1	377.1	54/51	2.2	**388.0**	**59/56**	**0.6**	393.8	62/59	0.5	399.0	64/62
8	367.5	50/46	2.1	378.0	54/51	2.2	**389.0**	**59/56**	**0.5**	394.4	62/60	0.5	399.1	64/62
6	368.5	50/46	2.1	379.0	55/51	2.2	**390.1**	**60/57**	**0.5**	395.1	62/60	0.4	399.1	64/63
4	369.4	50/46	2.1	380.0	55/52	2.2	**391.1**	**60/57**	**0.5**	396.0	62/60	0.3	399.2	65/63
2	370.3	51/47	2.1	381.0	55/52	2.2	**392.0**	**61/58**	**0.5**	397.0	63/60	0.2	399.2	65/64
0	371.3	51/47	2.1	382.0	56/52	2.2	**393.0**	**61/58**	**0.5**	398.0	63/61	0.1	399.2	66/64

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 03L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY B (F/L) RWY 03L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.4% DN
TOR	4421m (14504ft)	**ED**	4482m (14704ft)	**TOD**	4691m (15390ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	280.2	38/30	0.0	280.2	44/36	0.0	**280.2**	**45/42**	**0.0**	280.2	45/45	0.0	280.2	45/45
58	290.0	38/31	0.6	293.2	43/37	0.0	**293.2**	**49/43**	**0.0**	293.2	49/46	0.0	293.2	49/49
54	298.8	39/31	1.3	305.1	44/36	0.0	**305.1**	**51/43**	**0.0**	305.1	52/46	0.0	305.1	52/49
52	302.8	40/32	1.6	310.7	45/37	0.0	**310.7**	**51/43**	**0.0**	310.7	54/46	0.0	310.7	54/50
50	306.9	41/33	1.7	315.5	46/38	0.2	**316.3**	**52/44**	**0.0**	316.3	55/47	0.0	316.3	55/50
48	310.8	42/33	1.7	319.4	46/38	0.5	**321.9**	**52/44**	**0.0**	321.9	55/48	0.0	321.9	56/51
46	313.8	40/34	1.8	322.6	45/39	1.0	**327.4**	**50/45**	**0.0**	327.4	54/48	0.0	327.4	57/52
44	317.8	41/35	1.8	326.8	46/40	1.2	**333.0**	**51/46**	**0.0**	333.0	54/49	0.0	333.0	58/52
42	321.9	42/36	1.8	331.1	47/41	1.5	**338.7**	**52/46**	**0.0**	338.7	55/50	0.0	338.7	58/53
40	326.0	42/37	1.9	335.5	47/42	1.8	**344.3**	**51/47**	**0.0**	344.3	55/50	0.0	344.3	58/54
38	330.1	43/38	1.9	339.6	47/43	2.0	**349.5**	**52/48**	**0.1**	350.4	55/51	0.0	350.4	58/54
36	334.4	44/38	1.9	343.9	48/44	2.0	**354.0**	**53/49**	**0.3**	356.5	56/52	0.0	356.5	59/55
34	338.4	44/39	1.9	348.0	49/44	2.1	**358.3**	**54/49**	**0.4**	362.5	56/52	0.0	362.5	59/56
32	342.3	45/40	2.0	352.1	50/45	2.1	**362.5**	**54/50**	**0.6**	368.1	57/53	0.0	368.1	60/56
30	346.1	44/41	2.0	356.0	49/46	2.1	**366.7**	**54/51**	**0.6**	372.2	56/53	0.1	373.1	59/57
28	349.0	45/41	2.0	359.0	50/46	2.2	**369.8**	**54/51**	**0.6**	375.4	56/54	0.2	377.2	59/57
26	351.9	46/42	2.0	362.0	50/47	2.2	**372.9**	**55/52**	**0.6**	378.6	57/55	0.2	380.8	60/58
24	354.8	46/42	2.1	365.1	51/47	2.2	**376.0**	**55/53**	**0.6**	381.8	58/55	0.2	384.2	60/59
22	357.1	47/43	2.1	367.6	51/48	2.2	**378.5**	**56/53**	**0.6**	384.4	58/56	0.3	387.1	61/59
20	359.5	47/43	2.1	370.0	52/48	2.2	**381.1**	**57/54**	**0.6**	386.9	59/56	0.3	389.9	61/59
18	361.9	47/44	2.1	372.4	52/49	2.2	**383.6**	**57/54**	**0.6**	389.4	59/57	0.4	393.3	62/60
16	364.1	48/44	2.1	374.6	53/49	2.2	**385.8**	**58/55**	**0.6**	391.6	59/57	0.5	396.6	62/60
14	366.4	46/44	2.1	377.0	51/50	2.2	**388.2**	**56/55**	**0.6**	394.0	58/58	0.5	399.0	60/61
12	367.4	46/45	2.1	378.0	51/50	2.2	**389.2**	**56/55**	**0.6**	395.0	58/58	0.5	400.0	61/61
10	368.3	49/45	2.1	378.9	54/50	2.2	**390.0**	**58/55**	**0.6**	395.7	61/59	0.5	400.9	63/61
8	369.2	49/45	2.1	379.9	54/51	2.2	**391.0**	**59/56**	**0.5**	396.3	61/59	0.5	401.2	64/62
6	370.2	49/46	2.1	380.8	54/51	2.3	**392.1**	**59/56**	**0.5**	397.0	62/59	0.4	401.2	64/62
4	371.1	50/46	2.1	381.8	55/51	2.2	**393.0**	**59/56**	**0.5**	397.9	62/60	0.3	401.2	64/63
2	372.1	50/46	2.1	382.8	55/52	2.2	**394.0**	**60/57**	**0.5**	398.9	62/60	0.2	401.2	65/63
0	373.1	50/46	2.2	383.9	55/52	2.2	**394.9**	**60/57**	**0.5**	399.8	63/60	0.1	401.2	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 03L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY B (F/L) RWY 03L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.4% DN
TOR	4421m (14504ft)	**ED**	4482m (14704ft)	**TOD**	4691m (15390ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	276.3	39/31	0.0	276.3	45/37	0.0	**276.3**	**46/43**	**0.0**	276.3	46/46	0.0	276.3	46/46
58	286.5	38/32	0.5	289.1	44/38	0.0	**289.1**	**49/44**	**0.0**	289.1	49/47	0.0	289.1	49/49
54	295.1	40/32	1.2	300.9	45/37	0.0	**300.9**	**52/44**	**0.0**	300.9	53/47	0.0	300.9	53/50
52	299.1	41/33	1.5	306.4	46/38	0.0	**306.4**	**52/44**	**0.0**	306.4	54/47	0.0	306.4	54/51
50	303.2	42/34	1.7	311.6	46/39	0.1	**311.9**	**53/45**	**0.0**	311.9	56/48	0.0	311.9	56/51
48	307.0	43/34	1.7	315.5	47/39	0.4	**317.4**	**53/45**	**0.0**	317.4	56/49	0.0	317.4	57/52
46	310.0	41/35	1.7	318.7	46/40	0.8	**322.9**	**52/46**	**0.0**	322.9	55/49	0.0	322.9	58/53
44	313.9	42/36	1.8	322.8	47/41	1.1	**328.4**	**52/47**	**0.0**	328.4	55/50	0.0	328.4	59/53
42	318.0	43/37	1.8	327.1	47/42	1.4	**334.0**	**53/48**	**0.0**	334.0	56/51	0.0	334.0	59/54
40	322.0	43/38	1.9	331.4	48/43	1.6	**339.5**	**53/48**	**0.0**	339.5	56/52	0.0	339.5	59/55
38	326.1	44/39	1.9	335.4	48/44	2.0	**345.3**	**53/49**	**0.0**	345.5	56/52	0.0	345.5	59/55
36	330.3	45/39	1.9	339.7	49/45	2.0	**349.7**	**54/50**	**0.2**	351.6	57/53	0.0	351.6	60/56
34	334.3	45/40	1.9	343.8	50/45	2.0	**353.9**	**55/50**	**0.4**	357.4	57/53	0.0	357.4	60/57
32	338.2	46/41	1.9	347.8	51/46	2.1	**358.1**	**56/51**	**0.5**	363.0	58/54	0.0	363.0	61/57
30	341.9	45/42	2.0	351.7	50/47	2.1	**362.2**	**55/52**	**0.6**	367.9	57/55	0.0	368.1	60/58
28	344.7	46/42	2.0	354.6	51/47	2.2	**365.4**	**55/53**	**0.6**	371.1	58/55	0.1	372.3	60/59
26	347.6	47/43	2.0	357.6	51/48	2.2	**368.6**	**56/53**	**0.6**	374.4	58/56	0.2	376.1	61/59
24	350.5	47/43	2.0	360.7	52/49	2.2	**371.8**	**57/54**	**0.6**	377.7	59/56	0.2	379.5	62/60
22	352.8	48/44	2.1	363.1	52/49	2.3	**374.4**	**57/54**	**0.6**	380.4	59/57	0.2	382.5	62/60
20	355.1	48/44	2.1	365.6	53/50	2.3	**377.0**	**58/55**	**0.6**	383.0	60/57	0.2	385.4	62/61
18	357.5	49/45	2.1	368.1	53/50	2.3	**379.6**	**58/55**	**0.6**	385.6	60/58	0.3	388.2	63/61
16	359.6	49/45	2.1	370.3	54/51	2.3	**382.0**	**59/56**	**0.7**	388.5	61/58	0.2	390.9	63/61
14	362.0	47/46	2.2	372.8	52/51	2.3	**384.4**	**57/56**	**0.8**	392.4	59/58	0.2	393.9	62/62
12	363.0	48/46	2.2	373.9	52/51	2.3	**385.5**	**57/56**	**0.9**	394.0	59/59	0.0	394.1	62/62
10	363.9	50/46	2.2	374.8	55/52	2.3	**386.4**	**60/57**	**0.8**	394.1	61/59	0.0	394.1	65/63
8	364.8	50/46	2.2	375.8	55/52	2.4	**387.7**	**60/57**	**0.6**	394.1	62/59	0.0	394.1	65/63
6	365.8	51/47	2.2	376.8	55/52	2.5	**389.2**	**60/57**	**0.5**	394.1	62/60	0.0	394.1	66/63
4	366.7	51/47	2.2	377.8	56/52	2.6	**390.8**	**60/57**	**0.3**	394.1	63/60	0.0	394.1	66/64
2	367.7	51/47	2.2	378.8	56/53	2.7	**392.3**	**60/58**	**0.2**	394.2	63/61	0.0	394.2	66/64
0	368.7	52/48	2.2	379.9	56/53	2.8	**393.9**	**61/58**	**0.0**	394.2	64/61	0.0	394.2	67/65

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 03L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY B (F/L) RWY 03L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.4% DN
TOR	4421m (14504ft)	**ED**	4482m (14704ft)	**TOD**	4691m (15390ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	269.6	39/30	0.0	269.6	43/36	0.0	**269.6**	**43/42**	**0.0**	269.6	43/43	0.0	269.6	43/43
58	282.4	37/31	0.0	282.5	43/37	0.0	**282.5**	**47/43**	**0.0**	282.5	47/46	0.0	282.5	47/47
54	291.1	39/31	0.6	294.3	45/37	0.0	**294.3**	**51/43**	**0.0**	294.3	51/46	0.0	294.3	51/49
52	295.1	40/32	0.9	299.8	45/37	0.0	**299.8**	**51/43**	**0.0**	299.8	52/47	0.0	299.8	52/50
50	299.3	41/33	1.2	305.4	46/38	0.0	**305.4**	**52/44**	**0.0**	305.4	53/47	0.0	305.4	53/51
48	303.3	42/33	1.5	310.9	46/39	0.0	**310.9**	**53/45**	**0.0**	310.9	55/48	0.0	310.9	55/51
46	306.2	40/34	1.7	314.8	45/39	0.3	**316.4**	**51/45**	**0.0**	316.4	54/49	0.0	316.4	56/52
44	310.1	41/35	1.7	318.8	46/40	0.6	**322.0**	**52/46**	**0.0**	322.0	55/49	0.0	322.0	58/53
42	314.1	42/36	1.8	323.0	46/41	0.9	**327.5**	**52/47**	**0.0**	327.5	55/50	0.0	327.5	59/53
40	318.1	42/37	1.8	327.3	46/42	1.2	**333.1**	**52/48**	**0.0**	333.1	55/51	0.0	333.1	58/54
38	322.3	43/38	1.9	331.6	47/43	1.5	**339.1**	**52/48**	**0.0**	339.1	56/51	0.0	339.1	59/55
36	326.6	44/38	1.9	335.9	48/44	1.9	**345.2**	**53/49**	**0.0**	345.2	56/52	0.0	345.2	59/55
34	330.8	44/39	1.9	340.1	49/44	2.0	**350.1**	**54/50**	**0.1**	351.1	57/53	0.0	351.1	60/56
32	334.7	45/40	1.9	344.1	50/45	2.0	**354.3**	**55/50**	**0.3**	356.8	57/53	0.0	356.8	60/57
30	338.5	45/41	1.9	348.1	49/46	2.1	**358.4**	**54/51**	**0.4**	362.0	56/54	0.0	362.0	59/57
28	341.4	45/41	1.9	351.1	50/47	2.1	**361.6**	**55/52**	**0.5**	366.4	57/54	0.0	366.4	60/58
26	344.3	46/42	2.0	354.2	50/47	2.1	**364.9**	**55/52**	**0.5**	370.3	57/55	0.0	370.3	60/59
24	347.3	46/43	2.0	357.2	51/48	2.2	**368.2**	**56/53**	**0.6**	373.9	58/56	0.0	373.9	61/59
22	349.7	47/43	2.0	359.8	52/48	2.2	**370.9**	**56/54**	**0.6**	376.8	58/56	0.0	377.0	62/60
20	352.1	47/44	2.0	362.3	52/49	2.3	**373.6**	**57/54**	**0.6**	379.6	59/57	0.0	379.9	62/60
18	354.5	48/44	2.1	364.9	53/49	2.3	**376.3**	**57/55**	**0.6**	382.3	59/57	0.0	382.6	63/61
16	356.6	48/44	2.1	367.1	53/50	2.3	**378.7**	**58/55**	**0.6**	384.7	60/58	0.0	385.1	63/61
14	358.9	47/45	2.1	369.6	51/50	2.3	**381.1**	**56/55**	**0.6**	387.3	58/58	0.0	387.7	61/62
12	359.9	47/45	2.1	370.6	52/51	2.3	**382.1**	**56/56**	**0.6**	387.7	59/58	0.0	387.7	62/62
10	360.7	49/45	2.2	371.5	54/51	2.3	**383.1**	**59/56**	**0.5**	387.7	61/59	0.0	387.7	64/62
8	361.6	50/46	2.2	372.4	54/51	2.3	**384.1**	**59/56**	**0.4**	387.8	62/59	0.0	387.8	65/63
6	362.6	50/46	2.2	373.4	55/51	2.3	**385.1**	**59/57**	**0.3**	387.8	62/60	0.0	387.8	65/63
4	363.5	50/46	2.2	374.4	55/52	2.3	**386.1**	**60/57**	**0.2**	387.8	63/60	0.0	387.8	66/64
2	364.5	51/47	2.2	375.4	55/52	2.4	**387.2**	**60/57**	**0.1**	387.8	63/61	0.0	387.8	66/64
0	365.5	51/47	2.2	376.4	56/52	2.3	**387.8**	**60/58**	**0.0**	387.8	64/61	0.0	387.8	67/65

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 03L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY Y (F/L) RWY 03R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% DN
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	245.5	27/16	1.5	252.9	32/22	1.5	**260.2**	**37/27**	**0.4**	264.5	40/30	0.5	269.2	42/33
58	253.4	28/18	1.6	261.5	33/23	1.6	**269.3**	**38/28**	**0.5**	273.9	40/31	0.5	278.6	42/34
54	261.2	29/18	1.7	269.7	34/23	1.6	**277.7**	**40/29**	**0.5**	282.4	42/31	0.5	287.4	44/34
52	264.8	30/18	1.7	273.5	35/24	1.6	**281.6**	**40/29**	**0.5**	286.4	43/32	0.5	291.5	45/35
50	268.7	31/19	1.7	277.4	36/24	1.6	**285.6**	**41/30**	**0.5**	290.5	43/33	0.5	295.6	46/36
48	272.2	32/20	1.8	281.0	37/25	1.7	**289.4**	**42/31**	**0.5**	294.3	44/34	0.5	299.4	46/37
46	275.2	31/21	1.9	284.6	36/26	1.7	**293.3**	**41/32**	**0.5**	298.2	43/34	0.5	303.4	45/37
44	278.9	32/21	1.9	288.4	36/27	1.7	**297.1**	**41/32**	**0.5**	302.2	44/35	0.5	307.3	46/38
42	282.6	32/22	1.9	292.3	37/28	1.8	**301.1**	**42/33**	**0.5**	306.1	44/36	0.5	311.3	46/39
40	285.8	32/23	1.9	295.5	37/28	1.9	**305.0**	**42/34**	**0.5**	310.1	44/37	0.5	315.5	46/40
38	289.4	33/24	2.0	299.2	38/29	1.9	**308.9**	**43/35**	**0.5**	314.1	45/38	0.5	319.5	47/41
36	293.3	34/24	2.0	303.1	39/30	2.0	**313.0**	**43/35**	**0.5**	318.2	46/38	0.6	323.7	48/42
34	296.9	35/25	2.0	306.8	39/31	2.0	**316.9**	**44/36**	**0.5**	322.2	46/39	0.6	327.8	49/42
32	300.5	35/26	2.0	310.5	40/31	2.0	**320.7**	**45/37**	**0.5**	326.1	47/40	0.6	331.8	49/43
30	303.2	35/26	2.0	313.4	39/32	2.2	**324.3**	**44/38**	**0.6**	329.9	47/41	0.6	335.5	49/44
28	305.8	35/27	2.1	316.1	40/33	2.2	**327.1**	**45/38**	**0.6**	332.8	47/41	0.6	338.3	49/44
26	308.4	36/27	2.1	318.8	40/33	2.2	**330.0**	**45/39**	**0.6**	335.5	48/42	0.6	341.2	50/45
24	311.1	36/28	2.1	321.5	41/34	2.3	**332.8**	**46/39**	**0.6**	338.3	48/42	0.6	344.0	50/46
22	313.2	37/28	2.1	323.7	42/34	2.3	**335.0**	**47/40**	**0.6**	340.6	49/43	0.6	346.3	51/46
20	315.3	37/29	2.1	325.9	42/34	2.3	**337.2**	**47/40**	**0.6**	342.9	49/43	0.6	348.6	51/46
18	317.4	37/29	2.1	328.1	42/35	2.3	**339.4**	**47/41**	**0.6**	345.1	50/44	0.6	350.9	52/47
16	319.3	38/30	2.2	330.1	43/35	2.3	**341.4**	**48/41**	**0.6**	347.1	50/44	0.6	353.0	52/47
14	321.1	37/30	2.2	332.2	42/36	2.3	**343.5**	**46/42**	**0.6**	349.3	49/45	0.6	355.2	51/48
12	322.0	37/30	2.2	333.1	42/36	2.3	**344.4**	**47/42**	**0.6**	350.2	49/45	0.6	356.1	51/48
10	323.1	39/31	2.2	334.0	44/36	2.3	**345.3**	**49/42**	**0.6**	351.0	51/45	0.6	356.9	53/48
8	324.0	39/31	2.2	334.8	44/37	2.3	**346.1**	**49/42**	**0.6**	351.9	51/45	0.6	357.8	54/49
6	324.8	39/31	2.2	335.7	45/37	2.3	**347.0**	**49/43**	**0.6**	352.8	52/46	0.6	358.7	54/49
4	325.7	40/31	2.2	336.5	45/37	2.3	**347.9**	**50/43**	**0.6**	353.6	52/46	0.6	359.6	54/49
2	326.6	40/32	2.2	337.4	45/37	2.3	**348.8**	**50/43**	**0.6**	354.5	52/46	0.6	360.5	55/50
0	327.4	40/32	2.2	338.3	45/38	2.3	**349.7**	**50/44**	**0.6**	355.4	53/47	0.6	361.5	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 03R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY Y (F/L) RWY 03R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% DN
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	246.7	27/16	1.5	254.1	32/21	1.5	**261.5**	**37/27**	**0.4**	265.9	40/30	0.5	270.6	42/33
58	254.6	27/17	1.6	262.8	32/23	1.6	**270.7**	**38/28**	**0.5**	275.4	40/31	0.5	280.1	42/34
54	262.5	29/17	1.7	271.1	34/23	1.6	**279.2**	**39/28**	**0.5**	283.9	42/31	0.5	288.8	44/34
52	266.2	30/18	1.8	275.0	35/23	1.6	**283.1**	**40/29**	**0.5**	287.8	42/32	0.5	292.9	44/35
50	270.1	31/19	1.8	278.9	36/24	1.6	**287.1**	**41/30**	**0.5**	291.9	43/33	0.5	297.0	45/36
48	273.7	32/20	1.8	282.5	37/25	1.7	**290.8**	**42/31**	**0.5**	295.7	44/33	0.5	300.8	46/36
46	276.7	31/20	1.9	286.0	35/26	1.7	**294.7**	**40/31**	**0.5**	299.6	42/34	0.5	304.8	44/37
44	280.3	31/21	1.9	289.8	36/26	1.8	**298.6**	**41/32**	**0.5**	303.6	43/35	0.5	308.8	45/38
42	284.0	32/22	1.9	293.7	37/27	1.8	**302.5**	**42/33**	**0.5**	307.5	44/36	0.5	312.8	46/39
40	287.2	32/23	1.9	296.9	37/28	1.9	**306.5**	**42/34**	**0.5**	311.6	44/37	0.5	316.9	46/40
38	290.8	33/23	2.0	300.6	37/29	2.0	**310.4**	**42/34**	**0.5**	315.6	45/37	0.5	321.0	47/40
36	294.7	33/24	2.0	304.5	38/29	2.0	**314.4**	**43/35**	**0.5**	319.6	45/38	0.6	325.2	47/41
34	298.3	34/25	2.0	308.3	39/30	2.0	**318.4**	**44/36**	**0.5**	323.7	46/39	0.6	329.3	48/42
32	301.9	35/25	2.0	311.9	40/31	2.1	**322.2**	**45/37**	**0.5**	327.6	47/40	0.6	333.4	49/43
30	304.7	34/26	2.0	314.9	39/32	2.2	**325.9**	**44/37**	**0.6**	331.4	46/40	0.6	337.1	48/43
28	307.3	35/27	2.1	317.6	40/32	2.2	**328.7**	**45/38**	**0.6**	334.3	47/41	0.6	339.9	49/44
26	309.9	35/27	2.1	320.3	40/33	2.2	**331.5**	**45/38**	**0.6**	337.1	47/41	0.6	342.8	50/45
24	312.5	36/28	2.1	323.0	41/33	2.3	**334.4**	**46/39**	**0.6**	339.9	48/42	0.6	345.6	50/45
22	314.6	36/28	2.1	325.2	41/34	2.3	**336.5**	**46/39**	**0.6**	342.2	48/42	0.6	347.9	51/46
20	316.7	37/28	2.1	327.4	42/34	2.3	**338.7**	**47/40**	**0.6**	344.5	49/43	0.6	350.2	51/46
18	318.8	37/29	2.2	329.6	42/35	2.3	**341.0**	**47/40**	**0.6**	346.7	49/43	0.6	352.5	52/47
16	320.8	38/29	2.2	331.6	43/35	2.3	**343.0**	**48/41**	**0.6**	348.7	50/44	0.6	354.6	52/47
14	322.6	36/30	2.2	333.7	41/35	2.3	**345.1**	**46/41**	**0.6**	350.9	48/44	0.6	356.8	50/47
12	323.5	37/30	2.2	334.6	41/36	2.3	**346.0**	**46/41**	**0.6**	351.8	48/44	0.6	357.7	51/48
10	324.6	39/30	2.2	335.5	44/36	2.3	**346.9**	**49/42**	**0.6**	352.7	51/45	0.6	358.6	53/48
8	325.5	39/30	2.2	336.4	44/36	2.3	**347.8**	**49/42**	**0.6**	353.6	51/45	0.6	359.5	53/48
6	326.3	39/31	2.2	337.2	44/36	2.3	**348.6**	**49/42**	**0.6**	354.4	51/45	0.6	360.4	54/49
4	327.2	39/31	2.2	338.1	44/37	2.3	**349.5**	**49/43**	**0.6**	355.3	52/46	0.6	361.3	54/49
2	328.1	40/31	2.2	339.0	45/37	2.3	**350.4**	**50/43**	**0.6**	356.2	52/46	0.6	362.2	54/49
0	329.0	40/32	2.2	339.9	45/37	2.3	**351.3**	**50/43**	**0.6**	357.1	52/46	0.6	363.2	55/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 03R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY Y (F/L) RWY 03R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% DN
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	245.2	28/17	1.5	252.6	33/22	1.4	**259.5**	**38/27**	**0.4**	263.5	40/30	0.4	267.9	43/33
58	253.2	28/18	1.5	260.8	33/23	1.4	**268.0**	**38/29**	**0.4**	272.3	40/32	0.5	276.9	43/35
54	260.5	30/18	1.6	268.4	35/24	1.5	**276.0**	**40/29**	**0.5**	280.5	42/32	0.5	285.3	44/35
52	263.9	31/19	1.6	272.0	36/24	1.6	**279.8**	**41/30**	**0.5**	284.3	43/33	0.5	289.3	45/36
50	267.5	32/20	1.6	275.7	37/25	1.6	**283.6**	**42/31**	**0.5**	288.4	44/34	0.5	293.3	46/36
48	270.8	32/20	1.7	279.2	37/26	1.6	**287.3**	**42/31**	**0.5**	292.0	45/34	0.5	297.1	47/37
46	273.6	31/21	1.8	282.6	36/27	1.7	**291.1**	**41/32**	**0.5**	295.9	43/35	0.5	301.0	45/38
44	277.2	32/22	1.8	286.3	37/27	1.7	**294.9**	**42/33**	**0.5**	299.8	44/36	0.5	304.9	46/39
42	280.7	33/23	1.9	290.0	38/28	1.7	**298.7**	**43/34**	**0.5**	303.7	45/37	0.5	308.9	47/40
40	283.8	33/23	1.9	293.2	38/29	1.9	**302.7**	**42/35**	**0.5**	307.7	45/37	0.5	313.0	47/41
38	287.3	34/24	1.9	296.9	38/30	1.9	**306.5**	**43/35**	**0.5**	311.7	45/38	0.5	317.0	48/41
36	291.0	34/25	2.0	300.8	39/30	2.0	**310.6**	**44/36**	**0.5**	315.7	46/39	0.6	321.2	48/42
34	294.6	35/26	2.0	304.5	40/31	2.0	**314.4**	**45/37**	**0.5**	319.7	47/40	0.6	325.2	49/43
32	298.2	36/26	2.0	308.1	41/32	2.0	**318.2**	**46/38**	**0.5**	323.6	48/41	0.6	329.2	50/44
30	300.9	35/27	2.0	311.0	40/33	2.2	**321.9**	**45/38**	**0.5**	327.3	47/41	0.6	332.9	49/44
28	303.5	36/28	2.0	313.7	40/33	2.2	**324.6**	**45/39**	**0.6**	330.2	48/42	0.6	335.7	50/45
26	306.1	36/28	2.0	316.3	41/34	2.2	**327.4**	**46/39**	**0.6**	332.9	48/42	0.6	338.6	51/46
24	308.7	37/29	2.1	319.1	42/34	2.2	**330.3**	**47/40**	**0.5**	335.7	49/43	0.6	341.4	51/46
22	310.8	37/29	2.1	321.2	42/35	2.2	**332.4**	**47/40**	**0.6**	338.0	49/43	0.6	343.6	52/47
20	312.8	38/29	2.1	323.4	43/35	2.2	**334.6**	**48/41**	**0.6**	340.2	50/44	0.6	345.9	52/47
18	314.9	38/30	2.1	325.6	43/36	2.2	**336.8**	**48/41**	**0.6**	342.4	50/44	0.6	348.2	53/48
16	316.9	38/30	2.1	327.6	43/36	2.2	**338.8**	**48/42**	**0.6**	344.4	51/45	0.6	350.2	53/48
14	318.6	37/31	2.2	329.6	42/36	2.3	**340.9**	**47/42**	**0.6**	346.6	49/45	0.6	352.4	51/48
12	319.5	37/31	2.2	330.5	42/37	2.3	**341.8**	**47/42**	**0.6**	347.5	49/46	0.6	353.3	52/49
10	320.6	39/31	2.2	331.4	45/37	2.2	**342.6**	**50/43**	**0.6**	348.3	52/46	0.6	354.2	54/49
8	321.5	40/31	2.2	332.3	45/37	2.2	**343.5**	**50/43**	**0.6**	349.2	52/46	0.6	355.1	54/49
6	322.3	40/32	2.2	333.1	45/38	2.2	**344.3**	**50/43**	**0.6**	350.1	52/46	0.6	355.9	55/50
4	323.2	40/32	2.2	334.0	45/38	2.2	**345.2**	**50/44**	**0.6**	350.9	53/47	0.6	356.8	55/50
2	324.1	41/32	2.1	334.8	46/38	2.3	**346.1**	**51/44**	**0.6**	351.8	53/47	0.6	357.7	55/50
0	324.9	41/33	2.2	335.7	46/38	2.3	**347.0**	**51/44**	**0.6**	352.7	53/47	0.6	358.7	56/51

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 03R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY Y (F/L) RWY 03R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% DN
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	241.6	27/16	1.5	248.9	32/21	1.4	**255.7**	**37/26**	**0.4**	259.7	39/29	0.4	263.8	41/32
58	249.9	27/17	1.5	257.3	32/22	1.4	**264.3**	**37/28**	**0.4**	268.4	39/31	0.4	272.8	41/34
54	257.3	29/17	1.5	265.0	34/22	1.5	**272.3**	**39/28**	**0.4**	276.7	41/31	0.5	281.4	43/34
52	260.8	30/18	1.5	268.5	35/23	1.5	**276.1**	**40/29**	**0.5**	280.6	42/32	0.5	285.3	44/35
50	264.3	31/19	1.6	272.3	36/24	1.5	**280.0**	**41/30**	**0.5**	284.5	43/32	0.5	289.4	45/35
48	267.7	31/20	1.6	275.9	36/25	1.6	**283.8**	**42/30**	**0.5**	288.5	44/33	0.5	293.4	46/36
46	270.7	31/20	1.8	279.5	35/26	1.6	**287.6**	**40/31**	**0.5**	292.3	42/34	0.5	297.3	44/37
44	274.0	31/21	1.8	283.0	36/26	1.7	**291.3**	**41/32**	**0.5**	296.1	43/35	0.5	301.2	45/38
42	277.6	32/22	1.8	286.7	37/27	1.7	**295.1**	**42/33**	**0.5**	300.0	44/36	0.5	305.1	46/39
40	280.6	32/23	1.9	289.9	37/28	1.8	**299.0**	**41/34**	**0.5**	304.0	44/36	0.5	309.2	46/40
38	284.2	33/23	1.9	293.6	37/29	1.9	**303.0**	**42/34**	**0.5**	308.1	44/37	0.5	313.3	47/40
36	288.0	33/24	1.9	297.5	38/29	1.9	**307.1**	**43/35**	**0.5**	312.2	45/38	0.5	317.5	47/41
34	291.6	34/25	1.9	301.3	39/30	2.0	**311.1**	**44/36**	**0.5**	316.2	46/39	0.6	321.7	48/42
32	295.2	35/25	2.0	305.0	40/31	2.0	**314.9**	**45/37**	**0.5**	320.2	47/40	0.6	325.7	49/43
30	298.0	34/26	2.0	308.0	39/32	2.1	**318.6**	**44/37**	**0.5**	323.9	46/40	0.6	329.5	49/44
28	300.7	35/27	2.0	310.8	40/32	2.1	**321.5**	**45/38**	**0.5**	326.8	47/41	0.6	332.4	49/44
26	303.3	35/27	2.0	313.5	40/33	2.2	**324.3**	**45/39**	**0.6**	329.8	48/42	0.6	335.3	50/45
24	306.0	36/28	2.0	316.2	41/33	2.2	**327.2**	**46/39**	**0.5**	332.6	48/42	0.6	338.2	50/45
22	308.2	36/28	2.1	318.5	41/34	2.2	**329.6**	**46/40**	**0.5**	334.9	49/43	0.6	340.6	51/46
20	310.4	37/29	2.1	320.8	42/34	2.2	**331.8**	**47/40**	**0.6**	337.3	49/43	0.6	342.9	51/46
18	312.5	37/29	2.1	323.0	42/35	2.2	**334.1**	**47/41**	**0.6**	339.6	50/44	0.6	345.2	52/47
16	314.4	38/30	2.1	324.9	43/35	2.2	**336.0**	**48/41**	**0.6**	341.5	50/44	0.6	347.2	52/47
14	316.1	37/30	2.2	326.9	41/36	2.2	**338.1**	**46/42**	**0.6**	343.6	48/45	0.6	349.4	51/48
12	317.0	37/30	2.2	327.8	42/36	2.2	**339.0**	**47/42**	**0.6**	344.5	49/45	0.6	350.2	51/48
10	318.1	39/31	2.1	328.7	44/36	2.2	**339.8**	**49/42**	**0.6**	345.3	51/45	0.6	351.1	53/48
8	318.9	39/31	2.1	329.6	44/37	2.2	**340.7**	**49/42**	**0.5**	346.1	51/45	0.6	351.9	54/49
6	319.8	39/31	2.1	330.5	44/37	2.2	**341.5**	**49/43**	**0.6**	347.0	52/46	0.6	352.8	54/49
4	320.6	40/31	2.1	331.3	45/37	2.2	**342.3**	**50/43**	**0.6**	347.8	52/46	0.6	353.6	54/49
2	321.5	40/32	2.1	332.2	45/37	2.2	**343.1**	**50/43**	**0.6**	348.7	52/46	0.6	354.5	55/49
0	322.3	40/32	2.1	333.0	45/38	2.2	**344.0**	**50/43**	**0.6**	349.5	53/47	0.6	355.4	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 03R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY H (F/L) RWY 21L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% UP
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	244.2	27/16	1.5	251.5	32/21	1.4	**258.5**	**37/27**	**0.4**	262.7	40/30	0.5	267.2	42/33
58	252.2	27/17	1.6	260.0	32/23	1.5	**267.6**	**37/28**	**0.5**	272.1	40/31	0.5	276.8	42/34
54	259.9	29/17	1.7	268.3	34/23	1.6	**276.2**	**39/28**	**0.5**	280.8	42/31	0.5	285.6	44/34
52	263.6	30/18	1.7	272.1	35/23	1.6	**280.1**	**40/29**	**0.5**	284.8	42/32	0.5	289.7	45/35
50	267.4	31/19	1.7	276.0	36/24	1.6	**284.2**	**41/30**	**0.5**	288.9	43/33	0.5	293.9	45/36
48	271.0	31/20	1.7	279.7	37/25	1.6	**287.9**	**42/31**	**0.5**	292.8	44/34	0.5	297.8	46/37
46	274.0	31/20	1.9	283.3	35/26	1.7	**291.9**	**40/31**	**0.5**	296.7	43/34	0.5	301.8	45/37
44	277.6	31/21	1.9	287.1	36/26	1.7	**295.8**	**41/32**	**0.5**	300.7	43/35	0.5	305.8	45/38
42	281.3	32/22	1.9	290.9	37/27	1.8	**299.7**	**42/33**	**0.5**	304.6	44/36	0.5	309.8	46/39
40	284.5	32/23	1.9	294.2	37/28	1.9	**303.7**	**42/34**	**0.5**	308.7	44/37	0.5	314.0	46/40
38	288.2	33/23	1.9	297.9	37/29	1.9	**307.6**	**42/34**	**0.5**	312.7	45/37	0.5	318.0	47/40
36	292.0	34/24	2.0	301.8	38/30	2.0	**311.7**	**43/35**	**0.5**	316.8	45/38	0.5	322.2	48/41
34	295.5	34/25	2.0	305.6	39/30	2.0	**315.6**	**44/36**	**0.5**	320.8	46/39	0.6	326.3	48/42
32	299.0	35/25	2.0	309.2	40/31	2.0	**319.4**	**45/37**	**0.5**	324.7	47/40	0.6	330.3	49/43
30	301.6	34/26	2.1	312.2	39/32	2.1	**322.9**	**44/37**	**0.6**	328.5	46/40	0.6	334.1	49/44
28	304.1	35/27	2.1	314.8	40/32	2.2	**325.7**	**45/38**	**0.6**	331.4	47/41	0.6	337.0	49/44
26	306.6	35/27	2.2	317.4	40/33	2.2	**328.5**	**45/39**	**0.6**	334.3	47/42	0.6	339.8	50/45
24	309.2	36/28	2.2	320.1	41/33	2.3	**331.4**	**46/39**	**0.6**	337.0	48/42	0.6	342.7	50/45
22	311.3	36/28	2.2	322.3	41/34	2.3	**333.6**	**46/40**	**0.6**	339.3	48/43	0.6	345.0	51/46
20	313.4	37/29	2.2	324.4	42/34	2.3	**335.8**	**47/40**	**0.6**	341.6	49/43	0.6	347.3	51/46
18	315.4	37/29	2.2	326.6	42/35	2.3	**338.0**	**47/40**	**0.6**	343.8	49/43	0.6	349.6	52/47
16	317.3	38/29	2.3	328.6	43/35	2.3	**340.0**	**48/41**	**0.6**	345.8	50/44	0.6	351.6	52/47
14	319.0	36/30	2.3	330.6	41/36	2.3	**342.2**	**46/41**	**0.6**	348.0	48/44	0.6	353.9	50/48
12	320.0	37/30	2.3	331.6	42/36	2.3	**343.0**	**46/42**	**0.6**	348.9	49/45	0.6	354.8	51/48
10	321.2	39/30	2.3	332.6	44/36	2.3	**343.9**	**49/42**	**0.6**	349.7	51/45	0.6	355.6	53/48
8	322.1	39/31	2.3	333.5	44/36	2.2	**344.7**	**49/42**	**0.6**	350.5	51/45	0.6	356.4	53/48
6	323.0	39/31	2.3	334.4	44/37	2.2	**345.6**	**49/42**	**0.6**	351.4	52/45	0.6	357.3	54/49
4	324.0	40/31	2.3	335.3	45/37	2.2	**346.4**	**50/43**	**0.6**	352.3	52/46	0.6	358.1	54/49
2	324.9	40/31	2.2	336.1	45/37	2.2	**347.3**	**50/43**	**0.6**	353.1	52/46	0.6	359.0	54/49
0	325.8	40/32	2.2	337.0	45/37	2.2	**348.2**	**50/43**	**0.6**	354.0	52/46	0.6	359.9	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 21L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY H (F/L) RWY 21L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% UP
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	245.4	27/16	1.5	252.7	32/21	1.4	**259.7**	**37/27**	**0.4**	264.0	39/30	0.5	268.6	41/33
58	253.4	27/17	1.6	261.3	32/22	1.5	**269.0**	**37/28**	**0.5**	273.6	40/31	0.5	278.3	42/34
54	261.2	29/17	1.7	269.7	34/23	1.6	**277.6**	**39/28**	**0.5**	282.2	41/31	0.5	287.0	44/34
52	264.9	30/18	1.7	273.6	35/23	1.6	**281.6**	**40/29**	**0.5**	286.2	42/32	0.5	291.1	44/35
50	268.8	31/19	1.7	277.5	36/24	1.6	**285.6**	**41/30**	**0.5**	290.3	43/32	0.5	295.4	45/35
48	272.5	31/19	1.7	281.2	36/25	1.6	**289.4**	**42/30**	**0.5**	294.2	44/33	0.5	299.2	46/36
46	275.5	30/20	1.8	284.7	35/25	1.7	**293.3**	**40/31**	**0.5**	298.1	42/34	0.5	303.3	44/37
44	279.1	31/21	1.9	288.5	36/26	1.7	**297.2**	**41/32**	**0.5**	302.1	43/35	0.5	307.2	45/38
42	282.8	32/21	1.9	292.3	37/27	1.8	**301.1**	**42/33**	**0.5**	306.1	44/35	0.5	311.3	46/39
40	285.9	32/22	1.9	295.6	36/28	1.9	**305.2**	**41/33**	**0.5**	310.1	44/36	0.5	315.4	46/39
38	289.6	32/23	1.9	299.3	37/28	2.0	**309.1**	**42/34**	**0.5**	314.2	44/37	0.5	319.5	46/40
36	293.4	33/24	2.0	303.3	38/29	2.0	**313.2**	**43/35**	**0.5**	318.3	45/38	0.5	323.7	47/41
34	296.9	34/24	2.0	307.0	39/30	2.0	**317.1**	**44/36**	**0.5**	322.3	46/39	0.6	327.9	48/42
32	300.4	35/25	2.1	310.7	39/31	2.0	**320.9**	**44/36**	**0.5**	326.3	47/39	0.6	331.9	49/43
30	303.0	34/26	2.1	313.7	39/31	2.1	**324.4**	**44/37**	**0.6**	330.1	46/40	0.6	335.7	48/43
28	305.5	35/26	2.2	316.3	39/32	2.2	**327.2**	**44/38**	**0.6**	333.0	47/41	0.6	338.6	49/44
26	308.1	35/27	2.2	318.9	40/32	2.2	**330.1**	**45/38**	**0.6**	335.8	47/41	0.6	341.4	49/44
24	310.6	36/27	2.2	321.6	40/33	2.3	**332.9**	**45/39**	**0.6**	338.6	48/42	0.6	344.3	50/45
22	312.7	36/28	2.2	323.8	41/33	2.3	**335.2**	**46/39**	**0.6**	340.9	48/42	0.6	346.6	50/45
20	314.8	36/28	2.2	325.9	41/34	2.3	**337.4**	**46/40**	**0.6**	343.2	49/43	0.6	348.9	51/46
18	316.9	37/29	2.2	328.1	42/34	2.3	**339.6**	**47/40**	**0.6**	345.4	49/43	0.6	351.2	51/46
16	318.8	37/29	2.3	330.1	42/35	2.3	**341.6**	**47/40**	**0.6**	347.5	49/43	0.6	353.3	52/47
14	320.5	36/29	2.3	332.1	41/35	2.3	**343.8**	**46/41**	**0.6**	349.6	48/44	0.6	355.5	50/47
12	321.5	36/30	2.3	333.1	41/35	2.3	**344.7**	**46/41**	**0.6**	350.5	48/44	0.6	356.4	50/47
10	322.7	38/30	2.3	334.2	43/36	2.3	**345.5**	**48/41**	**0.6**	351.3	51/45	0.6	357.2	53/48
8	323.6	39/30	2.3	335.0	44/36	2.3	**346.3**	**49/42**	**0.6**	352.2	51/45	0.6	358.1	53/48
6	324.5	39/30	2.3	336.0	44/36	2.2	**347.2**	**49/42**	**0.6**	353.0	51/45	0.6	358.9	53/48
4	325.5	39/31	2.3	336.8	44/36	2.2	**348.0**	**49/42**	**0.6**	353.9	51/45	0.6	359.8	54/49
2	326.4	39/31	2.3	337.7	44/37	2.2	**348.9**	**49/43**	**0.6**	354.8	52/46	0.6	360.7	54/49
0	327.3	40/31	2.2	338.5	45/37	2.3	**349.8**	**50/43**	**0.6**	355.6	52/46	0.6	361.6	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 21L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY H (F/L) RWY 21L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% UP
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	243.8	27/17	1.5	251.1	32/22	1.3	**257.8**	**38/27**	**0.4**	261.8	40/30	0.4	266.0	42/33
58	251.9	28/18	1.5	259.4	33/23	1.4	**266.4**	**38/29**	**0.4**	270.6	40/32	0.5	275.1	42/35
54	259.3	30/18	1.5	267.0	35/23	1.5	**274.5**	**40/29**	**0.4**	278.9	42/32	0.5	283.6	44/35
52	262.7	30/19	1.6	270.6	36/24	1.5	**278.3**	**41/30**	**0.5**	282.8	43/33	0.5	287.5	45/36
50	266.3	31/19	1.6	274.4	36/25	1.6	**282.2**	**42/30**	**0.5**	286.8	44/33	0.5	291.6	46/36
48	269.6	32/20	1.7	277.9	37/26	1.6	**285.8**	**42/31**	**0.5**	290.5	45/34	0.5	295.4	47/37
46	272.4	31/21	1.8	281.4	36/26	1.7	**289.7**	**41/32**	**0.5**	294.4	43/35	0.5	299.5	45/38
44	275.9	32/22	1.8	285.0	37/27	1.7	**293.5**	**42/33**	**0.5**	298.3	44/36	0.5	303.4	46/39
42	279.5	33/22	1.8	288.7	37/28	1.7	**297.4**	**42/33**	**0.5**	302.2	45/36	0.5	307.4	47/39
40	282.6	33/23	1.9	292.0	37/29	1.9	**301.4**	**42/34**	**0.5**	306.3	44/37	0.5	311.5	47/40
38	286.1	33/24	1.9	295.6	38/29	1.9	**305.2**	**43/35**	**0.5**	310.3	45/38	0.5	315.5	47/41
36	289.8	34/25	1.9	299.5	39/30	2.0	**309.3**	**44/36**	**0.5**	314.3	46/39	0.5	319.7	48/42
34	293.3	35/25	2.0	303.2	40/31	2.0	**313.2**	**45/37**	**0.5**	318.3	47/40	0.6	323.8	49/43
32	296.7	36/26	2.0	306.9	40/32	2.0	**317.0**	**45/37**	**0.5**	322.2	48/40	0.6	327.8	50/43
30	299.3	35/27	2.1	309.8	40/32	2.1	**320.5**	**45/38**	**0.6**	326.0	47/41	0.6	331.5	49/44
28	301.8	35/27	2.1	312.4	40/33	2.2	**323.2**	**45/39**	**0.6**	328.9	47/42	0.6	334.4	50/45
26	304.3	36/28	2.1	315.0	41/33	2.2	**326.0**	**46/39**	**0.6**	331.7	48/42	0.6	337.2	50/45
24	306.9	36/28	2.2	317.7	41/34	2.2	**328.8**	**46/40**	**0.6**	334.4	49/43	0.6	340.1	51/46
22	308.9	37/29	2.2	319.9	42/34	2.2	**331.1**	**47/40**	**0.6**	336.7	49/43	0.6	342.3	51/46
20	311.0	37/29	2.2	322.0	42/35	2.2	**333.2**	**47/41**	**0.6**	338.9	50/44	0.6	344.6	52/47
18	313.0	38/30	2.2	324.1	43/35	2.3	**335.4**	**48/41**	**0.6**	341.2	50/44	0.6	346.8	52/47
16	314.9	38/30	2.2	326.1	43/36	2.3	**337.4**	**48/41**	**0.6**	343.2	50/45	0.6	348.9	53/48
14	316.6	37/30	2.3	328.1	42/36	2.3	**339.5**	**47/42**	**0.6**	345.3	49/45	0.6	351.1	51/48
12	317.6	37/31	2.3	329.1	42/36	2.3	**340.4**	**47/42**	**0.6**	346.2	49/45	0.6	352.0	51/48
10	318.8	39/31	2.3	330.1	44/37	2.2	**341.2**	**49/43**	**0.6**	347.0	52/46	0.6	352.8	54/49
8	319.7	40/31	2.3	331.0	45/37	2.2	**342.1**	**50/43**	**0.6**	347.8	52/46	0.6	353.7	54/49
6	320.6	40/31	2.2	331.8	45/37	2.2	**342.9**	**50/43**	**0.6**	348.7	52/46	0.6	354.5	54/49
4	321.5	40/32	2.2	332.7	45/37	2.2	**343.8**	**50/43**	**0.6**	349.5	52/46	0.6	355.4	55/50
2	322.4	40/32	2.2	333.5	45/38	2.2	**344.6**	**50/44**	**0.6**	350.4	53/47	0.6	356.2	55/50
0	323.4	41/32	2.2	334.4	46/38	2.2	**345.5**	**51/44**	**0.6**	351.2	53/47	0.6	357.1	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 21L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY H (F/L) RWY 21L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.134% UP
TOR	3405m (11171ft)	**ED**	3462m (11358ft)	**TOD**	3465m (11368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	240.2	26/16	1.4	247.3	31/21	1.3	**253.9**	**36/26**	**0.4**	257.8	39/29	0.4	261.8	40/32
58	248.5	27/17	1.5	255.8	32/22	1.4	**262.7**	**37/27**	**0.4**	266.7	39/30	0.4	271.0	41/33
54	256.0	29/17	1.5	263.6	34/22	1.4	**270.8**	**39/28**	**0.4**	275.0	41/31	0.5	279.6	43/34
52	259.5	29/18	1.5	267.2	34/23	1.5	**274.6**	**40/29**	**0.4**	278.9	42/32	0.5	283.5	44/34
50	263.1	30/18	1.6	270.9	35/24	1.5	**278.5**	**41/29**	**0.5**	283.0	43/32	0.5	287.7	45/35
48	266.5	31/19	1.6	274.6	36/25	1.5	**282.3**	**41/30**	**0.5**	286.9	44/33	0.5	291.7	46/36
46	269.4	30/20	1.8	278.2	35/25	1.6	**286.1**	**40/31**	**0.5**	290.8	42/34	0.5	295.6	44/37
44	272.8	31/21	1.8	281.7	36/26	1.6	**289.9**	**41/32**	**0.5**	294.5	43/35	0.5	299.6	45/38
42	276.3	32/21	1.8	285.3	36/27	1.7	**293.7**	**41/32**	**0.5**	298.5	44/35	0.5	303.5	46/38
40	279.3	32/22	1.8	288.5	36/28	1.8	**297.6**	**41/33**	**0.5**	302.5	43/36	0.5	307.6	46/39
38	283.0	32/23	1.9	292.4	37/28	1.9	**301.7**	**42/34**	**0.5**	306.6	44/37	0.5	311.8	46/40
36	286.7	33/24	1.9	296.2	38/29	1.9	**305.7**	**43/35**	**0.5**	310.8	45/38	0.5	316.0	47/41
34	290.4	34/24	1.9	300.1	39/30	1.9	**309.8**	**44/36**	**0.5**	314.8	46/39	0.5	320.2	48/42
32	293.9	35/25	2.0	303.7	39/31	2.0	**313.6**	**44/36**	**0.5**	318.7	47/39	0.6	324.2	49/43
30	296.6	34/26	2.0	306.7	39/31	2.1	**317.2**	**44/37**	**0.5**	322.5	46/40	0.6	328.0	48/43
28	299.2	35/26	2.1	309.5	39/32	2.1	**320.1**	**44/38**	**0.5**	325.5	47/41	0.6	331.0	49/44
26	301.8	35/27	2.1	312.2	40/33	2.1	**322.9**	**45/38**	**0.6**	328.4	47/41	0.6	333.9	49/45
24	304.4	36/28	2.1	315.0	41/33	2.2	**325.8**	**46/39**	**0.6**	331.3	48/42	0.6	336.8	50/45
22	306.5	36/28	2.1	317.2	41/34	2.2	**328.1**	**46/39**	**0.6**	333.6	48/42	0.6	339.2	51/46
20	308.6	37/28	2.2	319.5	42/34	2.2	**330.5**	**47/40**	**0.5**	335.9	49/43	0.6	341.5	51/46
18	310.8	37/29	2.2	321.7	42/35	2.2	**332.7**	**47/40**	**0.6**	338.2	49/43	0.6	343.8	52/47
16	312.6	38/29	2.2	323.6	42/35	2.2	**334.6**	**48/41**	**0.6**	340.2	50/44	0.6	345.8	52/47
14	314.3	36/30	2.3	325.6	41/35	2.2	**336.7**	**46/41**	**0.6**	342.3	48/44	0.6	348.0	50/47
12	315.2	37/30	2.3	326.5	41/36	2.2	**337.5**	**46/42**	**0.6**	343.1	49/45	0.6	348.8	51/48
10	316.4	39/30	2.2	327.4	44/36	2.2	**338.4**	**49/42**	**0.6**	343.9	51/45	0.6	349.6	53/48
8	317.3	39/31	2.2	328.3	44/36	2.2	**339.2**	**49/42**	**0.6**	344.7	51/45	0.6	350.4	53/48
6	318.2	39/31	2.2	329.1	44/37	2.2	**340.1**	**49/42**	**0.5**	345.5	51/45	0.6	351.3	54/49
4	319.1	39/31	2.2	330.0	44/37	2.2	**340.9**	**49/43**	**0.5**	346.3	52/46	0.6	352.1	54/49
2	320.1	40/31	2.1	330.8	45/37	2.2	**341.7**	**50/43**	**0.6**	347.2	52/46	0.6	352.9	54/49
0	321.0	40/32	2.1	331.7	45/37	2.2	**342.6**	**50/43**	**0.5**	348.0	52/46	0.6	353.8	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 21L ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY A (F/L) RWY 21R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.393% UP
TOR	4421m (14504ft)	**ED**	4508m (14790ft)	**TOD**	4521m (14832ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	272.3	38/30	1.3	278.7	43/35	0.0	**278.7**	**46/41**	**0.0**	278.7	46/44	0.0	278.7	46/46
58	281.9	38/31	1.5	289.4	43/36	0.4	**291.6**	**48/42**	**0.0**	291.6	49/45	0.0	291.6	49/49
54	290.8	40/31	1.6	298.7	44/36	1.0	**303.5**	**50/42**	**0.0**	303.5	52/45	0.0	303.5	52/48
52	294.8	40/32	1.6	303.0	45/37	1.2	**309.1**	**50/42**	**0.0**	309.1	53/46	0.0	309.1	54/49
50	299.0	41/33	1.7	307.3	46/38	1.5	**314.6**	**51/43**	**0.0**	314.6	54/46	0.0	314.6	55/50
48	302.9	42/33	1.7	311.3	47/39	1.5	**318.8**	**52/44**	**0.1**	320.2	54/47	0.0	320.2	57/50
46	305.7	41/34	1.7	314.4	45/40	1.8	**323.2**	**50/45**	**0.3**	325.8	53/48	0.0	325.8	56/51
44	309.7	41/35	1.8	318.5	46/40	1.8	**327.7**	**51/45**	**0.4**	331.4	53/48	0.0	331.4	56/52
42	313.8	42/36	1.8	322.7	47/41	1.9	**332.1**	**52/46**	**0.5**	336.6	54/49	0.0	337.0	57/52
40	317.6	42/37	1.9	326.9	47/42	1.9	**336.4**	**52/47**	**0.5**	341.2	54/50	0.1	342.6	57/53
38	321.6	43/38	1.9	331.1	48/43	1.9	**340.7**	**52/48**	**0.5**	345.6	54/51	0.3	348.7	57/54
36	325.7	44/38	1.9	335.4	48/44	1.9	**345.1**	**53/49**	**0.5**	350.1	55/51	0.5	354.8	57/54
34	329.6	45/39	2.0	339.5	49/44	2.0	**349.4**	**54/50**	**0.5**	354.5	56/52	0.5	359.7	58/55
32	333.5	45/40	2.0	343.5	50/45	2.0	**353.6**	**55/50**	**0.5**	358.8	57/53	0.5	364.2	59/56
30	337.0	45/41	2.1	347.3	49/46	2.0	**357.5**	**54/51**	**0.5**	362.8	56/54	0.6	368.3	58/56
28	339.7	45/41	2.1	350.3	50/47	2.1	**360.6**	**55/52**	**0.5**	366.0	57/54	0.5	371.4	59/57
26	342.5	46/42	2.1	353.1	51/47	2.1	**363.8**	**55/52**	**0.5**	369.1	57/55	0.6	374.6	59/58
24	345.3	46/42	2.1	356.0	51/48	2.2	**366.9**	**56/53**	**0.5**	372.2	58/56	0.6	377.8	60/58
22	347.5	47/43	2.2	358.3	52/48	2.2	**369.3**	**56/53**	**0.5**	374.7	58/56	0.6	380.3	61/59
20	349.7	47/43	2.2	360.7	52/49	2.2	**371.8**	**57/54**	**0.5**	377.2	59/57	0.6	382.9	61/59
18	352.0	48/44	2.2	363.1	53/49	2.2	**374.2**	**57/54**	**0.6**	379.7	60/57	0.6	385.3	62/60
16	354.0	48/44	2.2	365.2	53/50	2.2	**376.4**	**58/55**	**0.6**	382.0	60/58	0.6	387.5	62/60
14	356.2	47/45	2.3	367.5	51/50	2.3	**378.8**	**56/55**	**0.6**	384.3	58/58	0.6	389.9	61/61
12	357.2	47/45	2.3	368.5	52/50	2.2	**379.7**	**56/56**	**0.6**	385.2	59/58	0.6	390.9	61/61
10	358.2	49/45	2.3	369.5	54/51	2.2	**380.6**	**59/56**	**0.6**	386.1	61/59	0.6	391.8	64/62
8	359.2	50/46	2.3	370.5	54/51	2.2	**381.5**	**59/56**	**0.6**	387.0	61/59	0.6	392.7	64/62
6	360.2	50/46	2.3	371.5	55/51	2.2	**382.4**	**60/57**	**0.5**	387.8	62/59	0.6	393.6	65/63
4	361.2	50/46	2.2	372.4	55/51	2.2	**383.3**	**60/57**	**0.5**	388.5	62/59	0.6	394.1	65/63
2	362.3	50/46	2.2	373.3	55/52	2.2	**384.1**	**60/57**	**0.5**	389.5	62/60	0.5	394.7	65/63
0	363.3	51/47	2.2	374.2	56/52	2.2	**385.0**	**61/58**	**0.6**	390.5	63/60	0.5	395.5	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 21R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY A (F/L) RWY 21R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.393% UP
TOR	4421m (14504ft)	**ED**	4508m (14790ft)	**TOD**	4521m (14832ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	273.8	38/29	1.3	280.2	43/35	0.0	**280.2**	**45/41**	**0.0**	280.2	45/44	0.0	280.2	45/45
58	283.4	38/31	1.5	290.8	42/36	0.5	**293.2**	**48/42**	**0.0**	293.2	49/45	0.0	293.2	49/48
54	292.2	39/31	1.6	300.2	44/36	1.0	**305.1**	**49/41**	**0.0**	305.1	52/45	0.0	305.1	52/48
52	296.3	40/32	1.6	304.5	45/37	1.2	**310.7**	**50/42**	**0.0**	310.7	53/45	0.0	310.7	54/49
50	300.4	41/32	1.7	308.8	46/38	1.5	**316.1**	**50/43**	**0.0**	316.3	53/46	0.0	316.3	55/49
48	304.3	42/33	1.7	312.8	46/38	1.5	**320.4**	**51/43**	**0.2**	321.9	54/47	0.0	321.9	56/50
46	307.2	40/34	1.7	315.8	45/39	1.8	**324.8**	**50/44**	**0.3**	327.4	52/47	0.0	327.4	55/51
44	311.2	41/35	1.8	320.0	46/40	1.8	**329.2**	**50/45**	**0.4**	333.0	53/48	0.0	333.0	56/51
42	315.2	42/36	1.8	324.2	47/41	1.9	**333.7**	**51/46**	**0.5**	338.2	54/49	0.1	338.7	57/52
40	319.1	42/36	1.9	328.4	46/42	1.9	**338.0**	**51/47**	**0.5**	342.8	53/49	0.2	344.3	56/53
38	323.1	43/37	1.9	332.7	47/43	1.9	**342.3**	**52/48**	**0.5**	347.2	54/50	0.3	350.4	57/53
36	327.2	43/38	2.0	337.0	48/43	1.9	**346.7**	**53/48**	**0.5**	351.8	55/51	0.5	356.5	57/54
34	331.2	44/39	2.0	341.1	49/44	2.0	**351.0**	**54/49**	**0.5**	356.2	56/52	0.5	361.4	58/55
32	335.0	45/40	2.0	345.1	50/45	2.0	**355.2**	**54/50**	**0.5**	360.5	57/53	0.5	365.9	59/55
30	338.5	44/40	2.1	349.0	49/46	2.0	**359.2**	**54/51**	**0.5**	364.6	56/53	0.5	370.0	58/56
28	341.3	45/41	2.1	351.9	50/46	2.1	**362.3**	**54/51**	**0.5**	367.7	56/54	0.6	373.2	58/57
26	344.1	46/42	2.1	354.8	50/47	2.1	**365.4**	**55/52**	**0.6**	370.9	57/55	0.6	376.4	59/57
24	346.9	46/42	2.1	357.6	51/47	2.2	**368.6**	**55/52**	**0.5**	374.0	58/55	0.6	379.6	60/58
22	349.1	47/42	2.2	360.0	51/48	2.2	**371.1**	**56/53**	**0.5**	376.5	58/56	0.6	382.2	60/58
20	351.3	47/43	2.2	362.4	52/48	2.2	**373.5**	**56/53**	**0.6**	379.1	59/56	0.6	384.8	61/59
18	353.6	47/43	2.2	364.7	52/49	2.3	**376.0**	**57/54**	**0.6**	381.6	59/57	0.6	387.3	61/59
16	355.7	48/44	2.2	366.9	53/49	2.3	**378.2**	**57/54**	**0.6**	383.9	60/57	0.6	389.5	61/60
14	357.8	46/44	2.3	369.2	51/50	2.3	**380.6**	**56/55**	**0.6**	386.3	58/58	0.6	391.9	60/60
12	358.9	47/45	2.3	370.2	51/50	2.3	**381.6**	**56/55**	**0.6**	387.2	58/58	0.6	392.9	60/61
10	359.9	49/45	2.3	371.2	54/50	2.3	**382.5**	**58/56**	**0.6**	388.1	61/58	0.6	393.8	63/61
8	360.9	49/45	2.3	372.2	54/50	2.2	**383.4**	**59/56**	**0.6**	388.9	61/58	0.6	394.6	63/61
6	361.9	49/45	2.3	373.3	54/51	2.2	**384.3**	**59/56**	**0.6**	389.8	61/58	0.6	395.5	64/62
4	362.9	50/46	2.3	374.2	55/51	2.2	**385.2**	**59/56**	**0.5**	390.5	61/59	0.6	396.0	64/62
2	364.0	50/46	2.2	375.1	55/51	2.2	**386.1**	**60/57**	**0.5**	391.5	62/59	0.5	396.5	64/62
0	365.0	50/46	2.2	376.0	55/52	2.2	**387.0**	**60/57**	**0.6**	392.6	62/60	0.5	397.4	65/63

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 21R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY A (F/L) RWY 21R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.393% UP
TOR	4421m (14504ft)	**ED**	4508m (14790ft)	**TOD**	4521m (14832ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	270.7	39/30	1.1	276.3	44/36	0.0	**276.3**	**46/42**	**0.0**	276.3	46/45	0.0	276.3	46/46
58	280.0	38/32	1.4	287.2	43/37	0.4	**289.1**	**49/43**	**0.0**	289.1	49/46	0.0	289.1	49/49
54	288.6	40/32	1.6	296.4	45/37	0.9	**300.9**	**50/42**	**0.0**	300.9	53/46	0.0	300.9	53/49
52	292.6	41/33	1.6	300.7	46/38	1.1	**306.4**	**51/43**	**0.0**	306.4	54/46	0.0	306.4	54/49
50	296.7	42/33	1.7	305.0	46/38	1.4	**311.9**	**51/44**	**0.0**	311.9	54/47	0.0	311.9	56/50
48	300.6	43/34	1.7	309.0	47/39	1.5	**316.3**	**52/44**	**0.1**	317.4	55/48	0.0	317.4	57/51
46	303.4	41/35	1.7	312.0	46/40	1.7	**320.7**	**50/45**	**0.2**	322.9	53/48	0.0	322.9	56/52
44	307.4	42/36	1.7	316.0	47/41	1.8	**325.1**	**51/46**	**0.3**	328.4	54/49	0.0	328.4	57/52
42	311.4	43/37	1.8	320.2	47/42	1.9	**329.6**	**52/47**	**0.4**	333.9	54/50	0.0	334.0	58/53
40	315.1	43/37	1.9	324.4	47/43	1.9	**333.8**	**52/48**	**0.5**	338.5	54/50	0.1	339.5	57/54
38	319.2	43/38	1.9	328.6	48/44	1.9	**338.1**	**53/49**	**0.5**	342.9	55/51	0.3	345.5	58/54
36	323.2	44/39	1.9	332.8	49/44	1.9	**342.5**	**54/49**	**0.5**	347.4	56/52	0.4	351.6	58/55
34	327.2	45/40	1.9	336.9	50/45	2.0	**346.7**	**55/50**	**0.5**	351.8	57/53	0.5	356.9	59/56
32	331.0	46/41	2.0	340.9	51/46	2.0	**350.9**	**55/51**	**0.5**	356.0	58/54	0.5	361.4	60/56
30	334.5	45/41	2.0	344.7	50/47	2.0	**354.8**	**55/52**	**0.5**	360.1	57/54	0.5	365.5	59/57
28	337.2	46/42	2.1	347.6	51/47	2.1	**357.9**	**55/52**	**0.5**	363.2	57/55	0.6	368.8	60/58
26	340.0	47/43	2.1	350.5	51/48	2.1	**361.0**	**56/53**	**0.5**	366.4	58/56	0.6	372.1	60/58
24	342.7	47/43	2.1	353.4	52/48	2.1	**364.1**	**56/54**	**0.6**	369.7	59/56	0.6	375.4	61/59
22	344.9	48/44	2.2	355.7	52/49	2.2	**366.6**	**57/54**	**0.6**	372.3	59/57	0.6	378.1	61/60
20	347.1	48/44	2.2	358.0	53/49	2.2	**369.2**	**57/55**	**0.6**	374.9	60/57	0.6	380.8	62/60
18	349.4	49/44	2.2	360.4	53/50	2.3	**371.7**	**58/55**	**0.6**	377.5	60/58	0.6	383.4	62/60
16	351.4	49/45	2.2	362.5	54/50	2.3	**374.0**	**58/55**	**0.6**	379.9	61/58	0.6	385.7	63/61
14	353.6	47/45	2.2	364.8	52/51	2.3	**376.5**	**57/56**	**0.6**	382.3	59/59	0.7	388.8	61/61
12	354.6	48/46	2.3	365.9	52/51	2.3	**377.5**	**57/56**	**0.6**	383.3	59/59	0.7	390.1	61/62
10	355.5	50/46	2.3	366.9	55/51	2.3	**378.4**	**59/57**	**0.6**	384.2	62/59	0.7	391.5	64/62
8	356.5	50/46	2.3	368.0	55/52	2.3	**379.4**	**60/57**	**0.6**	385.1	62/60	0.8	392.8	64/62
6	357.5	51/46	2.3	368.9	55/52	2.3	**380.3**	**60/57**	**0.6**	386.0	62/60	0.8	394.0	64/62
4	358.6	51/47	2.3	369.9	56/52	2.3	**381.2**	**60/57**	**0.6**	386.9	63/60	0.7	394.1	64/63
2	359.6	51/47	2.2	370.8	56/52	2.3	**382.1**	**61/58**	**0.6**	388.3	63/60	0.6	394.2	65/63
0	360.6	51/47	2.2	371.8	56/53	2.2	**383.0**	**61/58**	**0.7**	389.6	63/61	0.5	394.2	65/64

P/C above 1013 + 0.1
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 21R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **JOHANNESBURG**

A/D Elev **5558ft** **O R TAMBO INTL (FAOR)**

TWY A (F/L) RWY 21R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.393% UP
TOR	4421m (14504ft)	**ED**	4508m (14790ft)	**TOD**	4521m (14832ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	266.2	38/29	0.7	269.6	43/35	0.0	**269.6**	**43/41**	**0.0**	269.6	43/43	0.0	269.6	43/43
58	275.8	37/31	1.3	282.5	42/36	0.0	**282.5**	**47/42**	**0.0**	282.5	47/45	0.0	282.5	47/47
54	284.6	39/31	1.5	292.0	44/36	0.5	**294.3**	**49/42**	**0.0**	294.3	51/45	0.0	294.3	51/48
52	288.6	40/32	1.5	296.2	45/37	0.7	**299.8**	**50/42**	**0.0**	299.8	52/45	0.0	299.8	52/49
50	292.8	41/32	1.6	300.7	45/37	0.9	**305.4**	**51/43**	**0.0**	305.4	53/46	0.0	305.4	53/49
48	296.8	42/33	1.6	304.9	46/38	1.2	**310.9**	**51/44**	**0.0**	310.9	54/47	0.0	310.9	55/50
46	299.8	40/34	1.6	308.0	45/39	1.7	**316.3**	**50/44**	**0.0**	316.4	53/48	0.0	316.4	56/51
44	303.6	41/35	1.7	312.0	46/40	1.7	**320.6**	**50/45**	**0.1**	322.0	53/48	0.0	322.0	56/52
42	307.6	42/36	1.7	316.2	46/41	1.8	**325.0**	**51/46**	**0.3**	327.5	54/49	0.0	327.5	57/52
40	311.3	42/36	1.8	320.3	46/42	1.9	**329.6**	**51/47**	**0.4**	333.1	54/50	0.0	333.1	57/53
38	315.4	42/37	1.8	324.6	47/43	1.9	**334.0**	**52/48**	**0.5**	338.6	54/50	0.1	339.1	57/54
36	319.7	43/38	1.9	329.1	48/43	1.9	**338.5**	**53/49**	**0.5**	343.2	55/51	0.2	345.2	58/54
34	323.8	44/39	1.9	333.2	49/44	1.9	**342.8**	**54/49**	**0.5**	347.7	56/52	0.3	351.1	58/55
32	327.8	45/40	1.9	337.3	50/45	1.9	**347.0**	**54/50**	**0.5**	352.0	57/53	0.5	356.8	59/56
30	331.4	44/41	1.9	341.1	49/46	2.0	**350.9**	**54/51**	**0.5**	356.0	56/54	0.5	361.3	58/56
28	334.2	45/41	2.0	344.1	50/46	2.0	**354.0**	**54/52**	**0.5**	359.3	57/54	0.5	364.7	59/57
26	337.0	46/42	2.0	347.1	50/47	2.0	**357.2**	**55/52**	**0.5**	362.6	57/55	0.6	368.1	59/58
24	339.9	46/42	2.0	350.1	51/48	2.1	**360.4**	**56/53**	**0.5**	365.8	58/55	0.6	371.5	60/58
22	342.2	47/43	2.1	352.5	51/48	2.1	**363.0**	**56/53**	**0.6**	368.6	58/56	0.6	374.3	61/59
20	344.4	47/43	2.1	355.0	52/49	2.1	**365.7**	**57/54**	**0.6**	371.3	59/57	0.6	377.1	61/59
18	346.7	48/44	2.2	357.5	52/49	2.2	**368.3**	**57/54**	**0.6**	374.0	59/57	0.6	379.9	62/60
16	348.8	48/44	2.2	359.6	53/50	2.2	**370.6**	**58/55**	**0.6**	376.4	60/57	0.6	382.3	62/60
14	350.9	47/45	2.2	361.9	51/50	2.2	**373.0**	**56/55**	**0.6**	378.8	58/58	0.6	384.7	60/61
12	351.8	47/45	2.2	362.8	52/50	2.2	**374.0**	**56/56**	**0.6**	379.8	59/58	0.6	385.6	61/61
10	352.8	49/45	2.2	363.7	54/51	2.2	**374.9**	**59/56**	**0.6**	380.7	61/59	0.6	386.5	63/61
8	353.8	49/45	2.2	364.6	54/51	2.2	**375.8**	**59/56**	**0.6**	381.6	61/59	0.6	387.6	63/62
6	354.7	50/46	2.2	365.5	55/51	2.2	**376.7**	**59/56**	**0.6**	382.5	62/59	0.5	387.8	64/62
4	355.7	50/46	2.1	366.4	55/51	2.2	**377.6**	**60/57**	**0.6**	383.4	62/59	0.4	387.8	64/62
2	356.7	50/46	2.1	367.4	55/52	2.2	**378.6**	**60/57**	**0.6**	384.3	62/60	0.4	387.8	65/63
0	357.7	51/47	2.1	368.3	56/52	2.2	**379.5**	**60/57**	**0.6**	385.2	63/60	0.3	387.8	65/63

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 21R ALL ENGINES (NOISE ABATEMENT) USE FCOM NOISE ABATEMENT PROCEDURE. TERMINATING ALT 8500FT QNH OR WHEN LEVELLED OFF BY SID OR ATC.

UPINGTON INTL

(FAUP)

UPINGTON INTL and runways 17, 35 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **GABORONE**

A/D Elev **3299ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **SIR SERETSE KHAMA (FBSK)**

RUNWAY	**08**	**26**		
Landing Distance Available	4000m / 13120ft	4000m / 13120ft		
Slope	.01DN	.01UP		
Notes				
WAT LIMIT °C : Man / Auto	46°	46°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (13kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	3kt	3kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)		5kt		
30F Slippery Zero HW wt or TW (Autoland)	5kt			
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MAURITIUS (FIMP)**

A/D Elev **183ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**14**	**32**		
Landing Distance Available	3040m / 9974ft	3040m / 9974ft		
Slope	.87DN	.87UP		
Notes	Note 1			
WAT LIMIT °C : Man / Auto	54°/	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	250.0	250.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	276.0	276.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 14**: Full ILS requires DME.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MAURITIUS**

A/D Elev **183ft** **(FIMP)**

LDG THR (BKTRK) RWY 14

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.862% DN
TOR	3040m (9973ft)	**ED**	3040m (9973ft)	**TOD**	3340m (10958ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.6	27/16	1.9	280.9	32/22	1.9	**290.6**	**37/27**	**0.6**	296.1	39/30	0.6	302.0	41/33
66	280.9	29/17	1.9	290.6	34/23	2.0	**300.7**	**39/29**	**0.6**	306.4	41/32	0.6	312.5	44/35
62	291.6	31/19	2.0	301.7	37/25	2.1	**312.1**	**42/31**	**0.6**	318.1	44/34	0.6	324.4	46/37
58	301.5	32/22	2.1	312.0	37/27	2.2	**323.0**	**42/33**	**0.6**	329.1	44/36	0.6	334.9	46/39
54	309.5	33/23	2.2	320.4	38/29	2.3	**331.7**	**43/35**	**0.6**	337.7	45/38	0.6	343.7	47/41
52	313.4	34/22	2.2	324.4	39/28	2.3	**335.7**	**44/34**	**0.6**	341.8	46/37	0.6	348.0	48/40
50	316.8	33/23	2.2	328.0	38/29	2.3	**339.5**	**43/35**	**0.6**	345.7	45/38	0.7	352.2	48/41
48	320.6	34/24	2.3	331.9	39/30	2.3	**343.4**	**44/36**	**0.6**	349.8	46/39	0.7	356.3	48/42
46	324.6	35/25	2.3	335.9	40/30	2.3	**347.5**	**45/36**	**0.7**	354.0	47/39	0.7	360.7	49/43
44	328.6	35/25	2.3	340.0	40/31	2.3	**351.7**	**46/37**	**0.7**	358.4	48/40	0.7	365.1	50/44
42	332.1	34/26	2.3	343.7	39/32	2.4	**355.9**	**44/38**	**0.7**	362.7	47/41	0.7	369.7	49/44
40	336.2	35/27	2.3	347.9	40/33	2.5	**360.3**	**45/39**	**0.7**	367.3	48/42	0.7	374.4	50/45
38	340.2	36/27	2.4	352.0	41/33	2.5	**364.6**	**46/40**	**0.7**	371.7	48/43	0.7	379.1	50/46
36	344.2	37/28	2.4	356.3	42/34	2.6	**369.2**	**47/40**	**0.7**	376.5	49/43	0.7	383.8	51/47
34	348.2	36/29	2.5	360.5	41/35	2.6	**373.7**	**46/41**	**0.7**	381.1	48/44	0.8	389.5	50/47
32	351.9	36/29	2.5	364.4	42/35	2.7	**377.9**	**47/42**	**0.7**	385.2	49/45	1.1	396.4	50/47
30	355.9	37/30	2.6	368.7	42/36	2.7	**382.4**	**47/42**	**0.9**	391.7	49/45	0.9	400.7	51/48
28	357.4	37/30	2.6	370.3	43/36	2.7	**384.0**	**48/43**	**1.1**	394.7	49/45	0.8	402.4	51/48
26	358.4	38/31	2.6	371.3	43/37	2.7	**385.0**	**48/43**	**1.1**	396.3	50/45	0.7	403.4	52/49
24	359.3	38/31	2.6	372.3	43/37	2.8	**386.1**	**48/43**	**1.1**	397.3	50/46	0.7	404.4	52/49
22	360.3	38/31	2.6	373.4	43/37	2.8	**387.3**	**48/43**	**1.1**	398.3	50/46	0.7	405.5	52/49
20	361.3	39/31	2.6	374.4	44/37	3.0	**389.2**	**49/44**	**1.0**	399.3	50/46	0.7	406.5	53/49
18	362.3	39/32	2.6	375.5	44/38	3.1	**391.0**	**49/44**	**0.9**	400.4	51/46	0.7	407.6	53/50
16	363.3	39/32	2.7	376.6	44/38	3.3	**392.9**	**49/44**	**0.9**	401.4	51/47	0.7	408.7	53/50
14	364.3	39/32	2.7	377.7	44/38	3.4	**394.8**	**49/44**	**0.8**	402.5	51/47	0.7	409.8	53/50
12	365.4	40/32	2.7	378.8	45/38	3.5	**396.4**	**49/44**	**0.7**	403.6	51/47	0.7	410.9	54/50
10	366.4	40/33	2.7	380.0	45/39	3.5	**397.5**	**49/44**	**0.7**	404.7	52/47	0.7	412.0	54/51
8	367.5	40/33	2.7	381.1	45/39	3.5	**398.6**	**50/44**	**0.7**	405.8	52/48	0.7	413.1	54/51
6	368.6	40/33	2.7	382.2	46/39	3.5	**399.7**	**50/45**	**0.7**	406.9	52/48	0.7	414.3	54/51
4	369.7	41/33	2.7	383.3	46/39	3.5	**400.8**	**50/45**	**0.7**	408.1	52/48	0.7	415.4	55/51
2	370.9	41/34	2.7	384.4	46/40	3.5	**401.9**	**50/45**	**0.7**	409.3	53/48	0.7	416.6	55/52
0	372.0	41/34	2.7	385.6	46/40	3.5	**403.0**	**51/46**	**0.7**	410.4	53/49	0.7	417.8	55/52

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS

RWY 14 FULL LENGTH POSITION FULL LENGTH T/O POSITION STARTS FROM RWY 14 LDG THR (TOR 3040M). 330M STARTER EXTN IS AVAILABLE NW OF LDG THR (TOR 3370M) - SEE **ADDITIONAL RWY DATA**.
PERFORMANCE RESTRICTIONS - Rwy 14

IF CROSSING ISLAND AFTER TAKEOFF ENSURE MSA ACHIEVED.

GBY / RASMA / NIBIS / TIBAG / OKMAR / UTIVA / UDMED SIDS ENGINE FAILURE BEFORE 3000FT QNH - TURN TO TRACK 110DEG MAG AND CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 3000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

EVANA / SOBAT / IBSIS / ETGOR SIDS NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MAURITIUS**

A/D Elev **183ft** **(FIMP)**

TWY E (F/L) RWY 32

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.862% UP
TOR	3040m (9973ft)	**ED**	3040m (9973ft)	**TOD**	3190m (10465ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
MIN ACCEL HT 1600FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	226.6	24/21	1.4	233.4	27/27	1.4	**240.5**	**29/29**	**0.4**	244.5	31/31	0.4	248.5	32/32
66	236.2	27/21	1.5	243.5	29/27	1.5	**251.0**	**32/32**	**0.4**	255.2	34/34	0.4	259.4	35/35
62	246.7	29/23	1.5	254.2	32/29	1.5	**261.9**	**35/35**	**0.5**	266.4	37/37	0.4	270.7	39/39
58	256.2	32/25	1.6	264.0	35/31	1.6	**272.1**	**38/38**	**0.5**	276.8	40/40	0.5	281.5	42/42
54	263.5	34/26	1.8	272.6	38/33	1.7	**281.2**	**41/40**	**0.5**	286.1	42/42	0.5	291.1	44/44
52	266.6	35/26	2.0	276.8	39/32	1.8	**285.6**	**42/39**	**0.5**	290.5	44/42	0.5	295.6	45/45
50	270.0	36/27	2.2	281.1	40/33	1.8	**290.0**	**43/40**	**0.5**	295.0	45/43	0.5	300.2	46/46
48	273.1	36/27	2.4	285.1	41/33	1.8	**294.1**	**44/40**	**0.5**	299.3	46/44	0.5	304.5	47/47
46	276.4	37/28	2.6	289.2	42/34	1.8	**298.4**	**45/41**	**0.5**	303.6	47/44	0.5	308.9	48/48
44	279.8	38/29	2.7	293.3	43/35	1.9	**302.6**	**46/42**	**0.5**	307.8	48/45	0.5	313.2	49/49
42	283.2	39/30	2.9	297.5	44/35	1.9	**306.8**	**47/42**	**0.5**	312.1	49/46	0.6	317.6	51/49
40	286.8	40/30	3.0	301.7	45/36	1.9	**311.1**	**48/43**	**0.5**	316.5	50/47	0.6	322.1	52/50
38	290.3	40/31	3.0	305.4	46/37	2.0	**315.5**	**49/44**	**0.6**	321.0	51/47	0.6	326.7	53/51
36	293.9	41/32	3.1	309.2	46/38	2.2	**320.0**	**50/45**	**0.6**	325.6	52/48	0.6	331.3	54/52
34	297.3	42/32	3.1	312.8	47/38	2.3	**324.2**	**51/45**	**0.6**	329.9	53/49	0.6	335.6	55/52
32	300.6	43/33	3.1	316.2	48/39	2.4	**328.1**	**52/46**	**0.6**	333.8	54/49	0.6	339.6	56/53
30	304.1	43/34	3.2	320.0	49/40	2.5	**332.4**	**53/47**	**0.6**	338.2	55/50	0.6	344.1	57/54
28	305.4	44/34	3.2	321.3	49/40	2.5	**333.7**	**53/47**	**0.6**	339.5	55/51	0.6	345.4	57/54
26	306.2	44/34	3.2	322.2	49/40	2.4	**334.2**	**53/47**	**0.6**	340.1	55/51	0.6	346.0	57/55
24	307.1	44/35	3.2	323.1	50/41	2.3	**334.8**	**53/48**	**0.6**	340.6	55/51	0.6	346.5	57/55
22	307.9	45/35	3.2	323.9	50/41	2.3	**335.4**	**54/48**	**0.6**	341.2	56/52	0.6	347.1	57/55
20	308.8	45/35	3.2	324.8	50/41	2.2	**335.9**	**54/48**	**0.6**	341.7	56/52	0.6	347.7	58/56
18	309.6	45/35	3.2	325.7	51/42	2.2	**336.5**	**54/49**	**0.6**	342.3	56/52	0.6	348.2	58/56
16	310.5	45/36	3.2	326.7	51/42	2.1	**337.0**	**54/49**	**0.6**	342.9	56/53	0.6	348.8	58/56
14	311.4	46/36	3.2	327.5	51/42	2.0	**337.6**	**54/49**	**0.6**	343.4	56/53	0.6	349.4	58/57
12	312.3	46/36	3.2	328.1	51/42	2.0	**338.2**	**55/50**	**0.6**	344.0	56/53	0.6	349.9	58/57
10	313.1	46/37	3.1	328.7	51/43	2.0	**338.8**	**55/50**	**0.6**	344.6	57/54	0.6	350.5	59/57
8	314.0	47/37	3.0	329.2	52/43	2.0	**339.4**	**55/50**	**0.6**	345.2	57/54	0.6	351.1	59/58
6	315.0	47/37	3.0	329.8	52/43	2.0	**340.0**	**55/51**	**0.6**	345.7	57/54	0.6	351.7	59/58
4	315.9	47/37	2.9	330.4	52/44	2.0	**340.5**	**55/51**	**0.6**	346.3	57/55	0.6	352.3	59/58
2	316.8	48/38	2.8	331.0	52/44	2.0	**341.1**	**56/52**	**0.6**	347.0	57/55	0.6	352.9	59/59
0	317.8	48/38	2.8	331.6	52/44	2.0	**341.7**	**56/52**	**0.6**	347.5	58/55	0.6	353.5	59/59

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 32

ALL ENGINES AND ENGINE OUT - CLIMB AT V2 PLUS 10KT TO 1783FT QNH (1600FT HAA) BEFORE CLEANING UP.

ALL ENGINES - FOLLOW SIDS AS PUBLISHED.

GERUS / RASMA / NIBIS / TIBAG / OKMAR / UTIVA / UDMED / TAPER / DUDIP / GUTKO / ARIGO / OVTIS / IXABI / SOBAT / IBSIS / ETGOR SIDS ENGINE FAILURE BEFORE 583FT QNH (400FT HAA) - CLIMB AHEAD TO 583FT QNH (400FT HAA) THEN IMMEDIATE CLIMBING LEFT TURN TO ESROL. ENGINE FAILURE AFTER 583FT QNH (400FT HAA) BUT BEFORE 4000FT QNH - IMMEDIATE CLIMBING LEFT TURN TO ESROL. ENGINE FAILURE AFTER 4000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

ESROL / KINIX / ATLOP SIDS ENGINE FAILURE BEFORE 600FT QNH - CLIMB AHEAD TO 600FT QNH THEN IMMEDIATE CLIMBING LEFT TURN TO ESROL. ENGINE FAILURE AFTER 600FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED ACCURATELY TO ESROL AND SSA ACHIEVED.

DOUALA
(FKKD)

DOUALA and runways 12, 30 authorised for enroute diversion.

Use QRH data to calculate landing performance.

LUSAKA

KENNETH KAUNDA INTL **(FLKK)**

LUSAKA/KENNETH KAUNDA INTL and runways 10, 28 authorised for enroute diversion.

Use QRH data to calculate landing performance.

SIMON MWANSA KAPWEPWE INTL (FLSK)

SIMON MWANSA KAPWEPWE INTL and runways 10L, 28R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **ST.DENIS**

A/D Elev **66ft** Max wt Permitted (For pre flt planning) **285,760kg** **REUNION (FMEE)**

RUNWAY	12	14	30	32
Landing Distance Available	3080m / 10105ft	2550m / 8366ft	3080m / 10105ft	2195m / 7201ft
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	276.0 (255.0)	8kt (3kt)	236.0 (213.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	255.0	203.0	255.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	280.8 (272.0)	15kt (10kt)	250.0 (230.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	279.0	226.0	279.0	197.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg			750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **LUANDA (FNLU)**

A/D Elev **238ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	05	23		
Landing Distance Available	3700m / 12139ft	3550m / 11646ft		
Notes	Note 1	Notes 1,2,3		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (11kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	2kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (11kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	2kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING :** There is no RADAR at this airfield. Maintain a visual lookout.
2. **Runway 23 :** Runway 23 may have degraded braking action when wet on heavy rubber deposits.
3. **Simultaneous approaches Rwy 23 :** Simultaneous approaches may be authorised with Rwy 25. Also departures from Rwy 05 may be authorised when a/c are on approach to Rwy 23.

BRITISH AIRWAYS **B747-400** LANDING DATA **LIBREVILLE (FOOL)**

A/D Elev **38ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	16	34		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Slope	.03DN	.03UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Taxiways :** Use only Taxiways 1 or 2.

BRITISH AIRWAYS **B747-400** LANDING DATA **SEYCHELLES (FSIA)**

A/D Elev **12ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**13**	**31**		
Landing Distance Available	2682m / 8799ft	2682m / 8799ft		
Slope	NIL	NIL		
Notes	Notes 1,2	Notes 1,2		
WAT LIMIT °C : Man / Auto	39° /	54° /		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (272.0)	2kt (272.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	222.0	222.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (2kt)	7kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	245.0	245.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **GPWS:** There is a possibility of a warning when flying at safety height over terrain to the WEST of the airfield.
2. **MACG and Minima:** WAT Limit ensures that all missed approach climb gradients can be met and therefore the lowest minima can be used. If Rwy 13 WAT limit restrictive, the 7.5% MACG minima may be used up to a WAT limit of 51°C or the 5.0% and 2.5% MACG minima may be used up to a WAT limit of 54°C.

N DJAMENA

HASSAN DJAMOUS **(FTTJ)**

N DJAMENA/HASSAN DJAMOUS and runways 05, 23 authorised for enroute diversion.

Use QRH data to calculate landing performance.

HARARE INTL

(FVHA)

HARARE INTL and runways 05, 23 authorised for enroute diversion.

Use QRH data to calculate landing performance.

LILONGWE

KAMUZU INTL **(FWKI)**

LILONGWE/KAMUZU INTL and runways 14, 32 authorised for enroute diversion.

Use QRH data to calculate landing performance.

AIRWAYS **B747-400** LANDING DATA **WINDHOEK**

A/D Elev **5641ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(FYWH)**

RUNWAY	**08**	**26**		
Landing Distance Available	4569m / 14990ft	4569m / 14990ft		
Slope	.94 DN	.94 UP		
Notes				
WAT LIMIT °C : Man / Auto	42°	42°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BANJUL INTL

(GBYD)

BANJUL INTL and runways 14, 32 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **TENERIFE SUR (GCTS)**

A/D Elev **209ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**07**	**25**		
Landing Distance Available	3200m / 10499ft	3200m / 10499ft		
Notes	Notes 1,2	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	265.0	265.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** The surface wind direction often varies from that at 2000ft. Wind shear and turbulence may be encountered on final approach between 3000ft and 1000ft. This is particularly marked with **NORTHERLY** 2000ft winds between 260° and 100° associated with a **SOUTHERLY** surface wind.
2. MACG Rwy 08: 3% Minima can be used up to 53°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **FREETOWN**

A/D Elev **88ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **Lungi (GFLL)**

RUNWAY	12	30		
Landing Distance Available	3200m / 10499ft	3200m / 10499ft		
Slope	.04UP	.04DN		
Notes	Notes 1,2	Notes 1,2		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
25F Zero HW wt or TW (Autoland)	11kt (5kt)	11kt (5kt)		
25F Slippery Zero HW wt or TW (Manual)	265.0	265.0		
25F Slippery Zero HW wt or TW (Autoland)	265.0	265.0		
30F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)	11kt (5kt)	11kt (5kt)		
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)	280.8	280.8		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Bearing Strength Limit:** Runway Bearing Strength Limit is 390,000kg.
2. **Terrain:** Terrain up to 3000ft AMSL approximately 8nm-15nm south of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **MONROVIA**

A/D Elev **31ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **ROBERTS INTL (GLRB)**

RUNWAY	**04**	**22**		
Landing Distance Available	3353m / 11001ft	2985m / 9793ft		
Slope	.04DN	.04UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (8kt)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	277.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (8kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Bearing Strength Limit**: Runway Bearing Strength Limit is 340,000kg.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DAKAR DIASS-THIES**

A/D Elev **290ft** **BLAISE DIAGNE INTL (GOBD)**

F/L TWY C7

RWY 01

DAY CLG		**DAY VIS**		**PVD**	
NIGHT CLG		**NIGHT VIS**		**SLOPE**	0.192% DN
TOR	3500m (11482ft)	**ED**	3620m (11876ft)	**TOD**	3700m (12139ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	282.5	34/25	1.9	292.1	39/31	0.8	**296.0**	**45/37**	**0.0**	296.0	48/40	0.0	296.0	50/44
66	292.5	37/27	2.0	302.4	41/32	2.0	**312.4**	**46/37**	**0.0**	312.4	49/41	0.0	312.4	52/45
62	303.9	39/29	2.1	314.2	44/35	2.1	**324.6**	**49/40**	**0.4**	328.7	51/43	0.0	328.7	55/47
58	314.2	40/32	2.1	324.5	44/37	2.2	**335.3**	**49/43**	**0.6**	340.9	51/45	0.3	344.3	54/49
54	322.8	41/34	2.1	333.4	45/39	2.2	**344.4**	**50/45**	**0.6**	350.1	52/48	0.6	356.2	54/50
52	327.0	41/33	2.1	337.6	46/38	2.2	**348.7**	**51/44**	**0.6**	354.6	53/47	0.6	360.8	55/50
50	330.9	41/33	2.2	341.7	46/39	2.3	**353.2**	**50/45**	**0.6**	359.3	53/47	0.6	365.7	55/50
48	335.0	42/34	2.2	345.9	46/40	2.3	**357.6**	**51/45**	**0.6**	363.9	54/48	0.7	370.5	56/51
46	339.1	42/35	2.2	350.1	47/41	2.4	**362.1**	**52/46**	**0.7**	368.6	54/49	0.7	375.3	56/52
44	343.0	43/36	2.2	354.2	48/41	2.5	**366.5**	**53/47**	**0.7**	373.1	55/50	0.7	380.0	57/53
42	347.0	42/37	2.3	358.5	47/42	2.5	**371.2**	**52/48**	**0.7**	377.9	54/51	0.7	384.8	56/54
40	351.2	43/37	2.4	363.0	48/43	2.6	**375.9**	**53/49**	**0.7**	382.8	55/52	0.9	391.6	56/54
38	355.5	44/38	2.4	367.6	49/44	2.6	**380.8**	**53/50**	**0.7**	388.2	56/52	1.0	398.3	57/55
36	360.0	45/39	2.5	372.4	49/45	2.7	**385.7**	**54/50**	**1.1**	396.4	56/53	0.7	403.0	58/56
34	364.4	44/40	2.5	377.1	49/45	3.2	**393.0**	**53/51**	**0.8**	401.0	55/53	0.7	407.7	57/56
32	368.5	45/40	2.6	381.4	49/46	3.4	**398.5**	**54/51**	**0.7**	405.2	56/54	0.7	412.0	58/57
30	373.1	45/41	2.6	386.1	50/47	3.4	**403.1**	**54/52**	**0.7**	409.9	57/55	0.7	416.7	59/58
28	375.2	46/42	2.8	389.1	50/47	3.2	**405.2**	**55/52**	**0.7**	412.0	57/55	0.7	418.9	59/58
26	376.2	46/42	2.9	390.9	51/47	3.1	**406.2**	**55/53**	**0.7**	413.0	57/56	0.7	420.0	59/59
24	377.2	46/42	3.1	392.7	51/47	2.9	**407.2**	**55/53**	**0.7**	414.1	58/56	0.7	421.0	60/59
22	378.3	47/42	3.3	394.6	51/48	2.7	**408.3**	**56/53**	**0.7**	415.1	58/56	0.7	422.1	60/59
20	379.4	47/42	3.4	396.2	51/48	2.6	**409.4**	**56/53**	**0.7**	416.2	58/56	0.7	423.2	60/59
18	380.5	47/43	3.4	397.3	51/48	2.6	**410.5**	**56/54**	**0.7**	417.3	58/57	0.7	424.3	60/60
16	381.5	47/43	3.4	398.4	51/48	2.6	**411.5**	**56/54**	**0.7**	418.4	59/57	0.7	425.4	61/60
14	382.6	48/43	3.4	399.4	52/48	2.6	**412.6**	**57/54**	**0.7**	419.6	59/57	0.7	426.5	61/60
12	383.7	48/44	3.4	400.5	52/49	2.6	**413.7**	**57/54**	**0.7**	420.7	59/57	0.7	427.7	61/61
10	384.8	48/44	3.4	401.6	52/49	2.7	**414.9**	**57/55**	**0.7**	421.8	59/58	0.7	428.8	62/61
8	386.0	48/44	3.3	402.7	52/49	2.7	**416.0**	**58/55**	**0.7**	422.9	60/58	0.7	430.0	62/61
6	387.3	49/44	3.3	403.8	53/49	2.7	**417.2**	**58/55**	**0.7**	424.1	60/58	0.7	431.2	62/61
4	389.2	49/44	3.1	404.9	53/50	2.7	**418.3**	**58/56**	**0.7**	425.3	60/59	0.7	432.3	62/62
2	391.2	49/45	3.0	406.1	53/50	2.7	**419.5**	**58/56**	**0.7**	426.5	61/59	0.7	433.5	63/62
0	393.2	49/45	2.8	407.2	54/50	2.7	**420.7**	**59/56**	**0.7**	427.7	61/59	0.7	434.7	63/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DAKAR DIASS-THIES**

A/D Elev **290ft** **BLAISE DIAGNE INTL (GOBD)**

F/L TWY C1

RWY 19

DAY CLG		**DAY VIS**		**PVD**	
NIGHT CLG		**NIGHT VIS**		**SLOPE**	0.192% UP
TOR	3500m (11482ft)	**ED**	3620m (11876ft)	**TOD**	3700m (12139ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	279.8	34/25	1.9	289.3	39/30	1.3	**296.0**	**44/36**	**0.0**	296.0	47/40	0.0	296.0	50/43
66	289.7	36/27	2.0	299.6	41/32	2.0	**309.5**	**46/37**	**0.3**	312.4	48/40	0.0	312.4	52/44
62	301.0	39/29	2.0	311.2	44/34	2.1	**321.6**	**49/40**	**0.6**	327.2	51/43	0.2	328.7	54/46
58	311.1	39/31	2.1	321.5	44/37	2.2	**332.4**	**49/42**	**0.6**	338.0	51/45	0.6	343.7	53/48
54	319.6	40/33	2.2	330.4	45/39	2.2	**341.4**	**50/44**	**0.6**	347.1	52/47	0.6	353.1	54/50
52	323.8	41/32	2.1	334.5	46/38	2.2	**345.6**	**51/43**	**0.6**	351.5	53/46	0.6	357.7	55/49
50	327.6	41/33	2.2	338.5	45/39	2.3	**350.0**	**50/44**	**0.6**	356.1	52/47	0.6	362.5	54/50
48	331.7	41/34	2.2	342.7	46/40	2.3	**354.4**	**51/45**	**0.6**	360.6	53/48	0.7	367.2	55/51
46	335.7	42/35	2.2	346.8	47/40	2.4	**358.7**	**52/46**	**0.6**	365.1	54/49	0.7	371.9	56/52
44	339.7	43/36	2.2	350.9	48/41	2.4	**363.0**	**53/47**	**0.7**	369.6	55/50	0.7	376.5	57/53
42	343.5	42/36	2.3	355.0	47/42	2.5	**367.6**	**52/48**	**0.7**	374.4	54/51	0.7	381.3	56/54
40	347.7	43/37	2.3	359.4	48/43	2.6	**372.3**	**52/49**	**0.7**	379.2	55/51	0.7	386.2	57/55
38	352.0	44/38	2.4	364.0	48/44	2.6	**377.1**	**53/49**	**0.7**	384.1	55/52	1.0	394.1	57/55
36	356.4	44/39	2.5	368.7	49/44	2.7	**382.1**	**54/50**	**0.8**	390.5	56/53	0.9	399.7	58/55
34	360.7	44/39	2.5	373.2	49/45	2.7	**386.7**	**53/51**	**1.1**	397.4	55/53	0.7	404.2	57/56
32	364.7	44/40	2.6	377.5	49/46	3.3	**394.0**	**54/51**	**0.8**	401.6	56/54	0.7	408.5	58/57
30	369.2	45/41	2.6	382.2	50/47	3.5	**399.5**	**54/52**	**0.7**	406.2	56/55	0.7	413.2	59/58
28	371.2	46/41	2.6	384.3	50/47	3.4	**401.5**	**55/52**	**0.7**	408.4	57/55	0.7	415.3	59/58
26	372.3	46/42	2.6	385.4	51/47	3.4	**402.5**	**55/52**	**0.7**	409.4	57/55	0.7	416.4	59/59
24	373.3	46/42	2.6	386.4	51/48	3.4	**403.6**	**55/53**	**0.7**	410.5	57/56	0.7	417.4	59/59
22	374.3	46/42	2.7	387.9	51/48	3.3	**404.6**	**55/53**	**0.7**	411.5	58/56	0.7	418.5	60/59
20	375.4	47/42	2.9	389.8	51/48	3.2	**405.7**	**56/53**	**0.7**	412.6	58/56	0.7	419.6	60/59
18	376.4	47/43	3.0	391.6	51/48	3.0	**406.7**	**56/53**	**0.7**	413.6	58/56	0.7	420.7	60/60
16	377.5	47/43	3.2	393.5	52/48	2.9	**407.8**	**56/54**	**0.7**	414.7	58/57	0.7	421.8	61/60
14	378.6	47/43	3.4	395.4	52/48	2.7	**408.9**	**57/54**	**0.7**	415.8	59/57	0.7	422.9	61/60
12	379.7	48/43	3.4	396.8	52/48	2.7	**410.1**	**57/54**	**0.7**	417.0	59/57	0.7	424.0	61/60
10	380.8	48/44	3.4	397.8	52/49	2.7	**411.2**	**57/55**	**0.7**	418.1	59/58	0.7	425.2	61/61
8	382.0	48/44	3.4	398.9	52/49	2.7	**412.3**	**57/55**	**0.7**	419.3	60/58	0.7	426.3	62/61
6	383.1	48/44	3.4	400.1	53/49	2.7	**413.4**	**58/55**	**0.7**	420.4	60/58	0.7	427.5	62/61
4	384.2	49/44	3.4	401.2	53/49	2.7	**414.6**	**58/55**	**0.7**	421.6	60/58	0.7	428.7	62/62
2	385.4	49/45	3.4	402.3	53/50	2.7	**415.7**	**58/56**	**0.7**	422.8	60/59	0.7	430.0	63/62
0	386.6	49/45	3.4	403.4	53/50	2.7	**416.9**	**59/56**	**0.7**	423.9	61/59	0.7	431.1	63/62

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400** LANDING DATA **DAKAR**

A/D Elev **85ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **L.S. SENGHOR (GOOY)**

RUNWAY	**18**	**36**		
Landing Distance Available	3330m / 10925ft	3490m / 11450ft		
Slope	.10 UP	.10 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	14kt (7kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	278.0	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (14kt)	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	2kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **180° turns on Runway:** All 180° turns on Runway at Runway ends only.

SAL

AMILCAR CABRAL INTL **(GVAC)**

SAL/AMILCAR CABRAL INTL and runways 01, 19 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **ALEXANDRIA**

A/D Elev **177ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **BORG EL ARAB (HEBA)**

RUNWAY	**14**	**32**		
Landing Distance Available	3400m / 11152ft	3400m / 11152ft		
Slope	.4 DN	.4 UP		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	281.0	281.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CAIRO (HECA)**

A/D Elev **467ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	05L	05C	05R	23L
Landing Distance Available	3301m / 10827ft	3999m / 13116ft	4000m / 13120ft	4000m / 13120ft
Slope	.09UP	.05DN	.15UP	.15DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°	53°/53°
25F Zero HW wt or TW (Manual)	11kt (5kt)	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)		15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	271.0	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)		5kt	5kt	5kt
30F Zero HW wt or TW (Manual)	11kt (5kt)	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)		15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	280.8	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)		5kt	5kt	5kt
Red'n per extra kt TW kg	5300kg			
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CAIRO (HECA)**

A/D Elev **467ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**23C**	**23R**		
Landing Distance Available	3999m / 13116ft	3301m / 10827ft		
Slope	.05UP	.09DN		
Notes				
WAT LIMIT °C : Man / Auto	53°/53°	53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	11kt (5kt)		
25F Zero HW wt or TW (Autoland)	15kt			
25F Slippery Zero HW wt or TW (Manual)	5kt	271.0		
25F Slippery Zero HW wt or TW (Autoland)	5kt			
30F Zero HW wt or TW (Manual)	15kt	11kt (5kt)		
30F Zero HW wt or TW (Autoland)	15kt			
30F Slippery Zero HW wt or TW (Manual)	5kt	280.8		
30F Slippery Zero HW wt or TW (Autoland)	5kt			
Red'n per extra kt TW kg		5300kg		
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

HURGHADA INTL (HEGN)

HURGHADA INTL and runways 16L, 34R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **LUXOR (HELX)**

A/D Elev **294ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	02	20		
Landing Distance Available	3000m/9843ft	3000m/9843ft		
Slope	0.22 DN	0.22 UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	245.0	245.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	271.0	271.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LUXOR**

A/D Elev **294ft** **INTL (HELX)**

F/L (TWY B) RWY 02

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.234% DN
TOR	3000m (9842ft)	**ED**	3000m (9842ft)	**TOD**	3000m (9842ft)

FLAP 20 **RB211-524G/PACKS ON/DRY RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 Dry	Inc /kt	5kt Tail	V1 Dry	Inc /kt	ZERO WIND	V1 Dry	Inc /kt	10kt Head	V1 Dry	Inc /kt	20kt Head	V1 Dry
70	261.7	28	1.8	270.5	33	1.7	**279.2**	**39**	**0.5**	284.5	41	0.6	290.0	43
66	270.4	30	1.9	279.8	35	1.8	**288.9**	**41**	**0.5**	294.3	43	0.6	300.1	45
62	280.6	32	2.0	290.4	38	1.9	**299.9**	**43**	**0.6**	305.6	46	0.6	311.5	48
58	289.8	33	2.1	300.3	38	2.0	**310.4**	**44**	**0.6**	316.3	46	0.6	322.4	48
54	297.4	34	2.1	308.1	39	2.2	**319.3**	**44**	**0.6**	325.4	47	0.6	331.7	49
52	301.2	35	2.2	312.0	40	2.3	**323.4**	**45**	**0.6**	329.7	47	0.6	335.7	50
50	304.3	34	2.2	315.3	39	2.4	**327.3**	**44**	**0.6**	333.6	47	0.6	339.9	49
48	308.0	35	2.2	319.1	40	2.4	**331.2**	**45**	**0.6**	337.5	48	0.6	343.7	50
46	311.8	36	2.3	323.1	41	2.4	**335.1**	**46**	**0.7**	341.6	48	0.6	347.9	51
44	315.6	37	2.3	327.1	42	2.4	**339.2**	**47**	**0.6**	345.6	49	0.7	352.1	51
42	318.9	36	2.4	330.7	41	2.5	**343.1**	**46**	**0.7**	349.7	48	0.7	356.3	50
40	323.0	37	2.4	334.8	42	2.5	**347.3**	**47**	**0.7**	354.0	49	0.7	360.8	51
38	326.9	37	2.4	338.7	43	2.5	**351.4**	**48**	**0.7**	358.2	50	0.7	365.1	52
36	331.0	38	2.4	342.8	43	2.6	**355.6**	**48**	**0.7**	362.7	51	0.7	369.7	53
34	334.7	37	2.4	346.7	42	2.6	**359.7**	**48**	**0.7**	366.8	50	0.7	374.0	52
32	338.2	38	2.4	350.3	43	2.7	**363.6**	**48**	**0.7**	370.9	51	0.7	378.2	53
30	342.1	39	2.4	354.3	44	2.7	**367.9**	**49**	**0.7**	375.3	51	0.7	382.6	54
28	343.8	39	2.5	356.2	44	2.7	**369.9**	**49**	**0.7**	377.3	52	0.7	384.7	54
26	344.7	39	2.5	357.1	45	2.8	**370.9**	**50**	**0.8**	378.4	52	0.7	385.7	54
24	345.6	40	2.5	358.1	45	2.8	**371.9**	**50**	**0.8**	379.5	52	0.7	386.8	54
22	346.5	40	2.5	359.1	45	2.8	**372.9**	**50**	**0.8**	380.5	53	0.8	388.4	55
20	347.5	40	2.5	360.1	45	2.8	**374.0**	**51**	**0.8**	381.6	53	0.9	390.3	55
18	348.4	40	2.5	361.1	46	2.8	**375.0**	**51**	**0.8**	382.6	53	1.0	392.1	55
16	349.4	41	2.5	362.1	46	2.8	**376.1**	**51**	**0.8**	383.7	53	1.0	394.0	55
14	350.4	41	2.5	363.1	46	2.8	**377.2**	**51**	**0.8**	384.8	54	1.1	396.0	55
12	351.3	41	2.6	364.1	47	2.8	**378.3**	**52**	**0.8**	385.9	54	1.1	397.0	55
10	352.3	41	2.6	365.2	47	2.9	**379.5**	**52**	**0.8**	387.0	54	1.1	398.1	56
8	353.3	42	2.6	366.2	47	2.9	**380.6**	**52**	**0.8**	389.0	54	1.0	399.2	56
6	354.3	42	2.6	367.3	47	2.9	**381.7**	**52**	**0.9**	390.9	54	0.9	400.3	56
4	355.3	42	2.6	368.4	48	2.9	**382.8**	**53**	**1.0**	392.9	55	0.9	401.4	56
2	356.4	43	2.6	369.6	48	2.9	**383.9**	**53**	**1.1**	394.9	55	0.8	402.5	57
0	357.5	43	2.6	370.7	48	2.9	**385.1**	**53**	**1.1**	396.5	55	0.7	403.7	57

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 02

ASRAB DEPDI EGLIB GETAD LUGAD MIDKO MOBIP SIDs Engine Failure before LXR 10D - Turn via shortest routing to LXR for hold and return. Engine Failure After LXR 10D - No restrictions provided SID is followed and MSA is acheived.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LUXOR**

A/D Elev **294ft** **INTL (HELX)**

F/L (TWY K) RWY 20

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.234% UP
TOR	3000m (9842ft)	**ED**	3000m (9842ft)	**TOD**	3000m (9842ft)

FLAP 20 **RB211-524G/PACKS ON/DRY RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 Dry	Inc /kt	5kt Tail	V1 Dry	Inc /kt	ZERO WIND	V1 Dry	Inc /kt	10kt Head	V1 Dry	Inc /kt	20kt Head	V1 Dry
70	259.0	27	1.8	267.8	33	1.7	**276.4**	**38**	**0.5**	281.7	41	0.5	286.8	43
66	267.6	30	1.8	276.8	35	1.8	**285.9**	**40**	**0.6**	291.4	43	0.6	297.1	45
62	277.5	32	2.0	287.4	37	1.9	**296.8**	**43**	**0.6**	302.6	45	0.6	308.4	48
58	286.8	33	2.1	297.3	38	2.0	**307.2**	**43**	**0.6**	313.1	46	0.6	319.2	48
54	294.3	34	2.1	305.0	39	2.2	**316.0**	**44**	**0.6**	322.2	46	0.6	328.5	49
52	298.1	34	2.2	308.9	40	2.2	**320.1**	**45**	**0.6**	326.3	47	0.6	332.6	49
50	301.2	34	2.2	312.2	39	2.4	**324.0**	**44**	**0.6**	330.4	47	0.6	336.7	49
48	304.7	35	2.2	315.9	40	2.4	**327.9**	**45**	**0.6**	334.2	47	0.6	340.6	50
46	308.5	35	2.3	319.9	41	2.4	**331.9**	**46**	**0.6**	338.3	48	0.6	344.6	50
44	312.3	36	2.3	323.8	42	2.4	**335.9**	**47**	**0.6**	342.3	49	0.7	348.8	51
42	315.5	36	2.4	327.3	41	2.5	**339.7**	**46**	**0.7**	346.2	48	0.7	352.9	50
40	319.6	36	2.4	331.5	42	2.5	**343.8**	**47**	**0.7**	350.5	49	0.7	357.3	51
38	323.4	37	2.4	335.3	42	2.5	**347.8**	**47**	**0.7**	354.6	50	0.7	361.5	52
36	327.5	38	2.4	339.4	43	2.5	**352.1**	**48**	**0.7**	359.0	51	0.7	366.0	53
34	331.2	37	2.4	343.2	42	2.6	**356.0**	**47**	**0.7**	363.1	50	0.7	370.3	52
32	334.7	38	2.4	346.8	43	2.6	**359.9**	**48**	**0.7**	367.0	50	0.7	374.4	53
30	338.5	38	2.5	350.8	44	2.7	**364.1**	**49**	**0.7**	371.4	51	0.8	378.9	53
28	340.3	39	2.5	352.6	44	2.7	**366.0**	**49**	**0.7**	373.4	52	0.8	381.0	54
26	341.2	39	2.5	353.6	44	2.7	**367.0**	**50**	**0.7**	374.4	52	0.8	382.0	54
24	342.1	39	2.5	354.5	45	2.7	**368.0**	**50**	**0.8**	375.5	52	0.8	383.0	54
22	343.0	40	2.5	355.4	45	2.7	**369.0**	**50**	**0.8**	376.5	52	0.8	384.0	55
20	343.9	40	2.5	356.4	45	2.7	**370.1**	**50**	**0.8**	377.6	53	0.8	385.1	55
18	344.8	40	2.5	357.4	45	2.7	**371.1**	**51**	**0.8**	378.7	53	0.8	386.2	55
16	345.7	40	2.5	358.4	46	2.8	**372.2**	**51**	**0.8**	379.8	53	0.8	387.5	55
14	346.7	41	2.5	359.4	46	2.8	**373.3**	**51**	**0.8**	380.9	53	0.9	389.4	56
12	347.7	41	2.5	360.4	46	2.8	**374.3**	**51**	**0.8**	382.0	54	0.9	391.3	56
10	348.6	41	2.6	361.5	47	2.8	**375.4**	**52**	**0.8**	383.1	54	1.0	393.2	56
8	349.6	42	2.6	362.5	47	2.8	**376.6**	**52**	**0.8**	384.2	54	1.1	395.2	56
6	350.6	42	2.6	363.6	47	2.8	**377.7**	**52**	**0.8**	385.3	55	1.1	396.7	56
4	351.6	42	2.6	364.6	47	2.9	**378.9**	**53**	**0.8**	386.4	55	1.1	397.8	56
2	352.7	42	2.6	365.7	48	2.9	**380.1**	**53**	**0.8**	388.1	55	1.1	398.9	57
0	353.7	43	2.6	366.8	48	2.9	**381.2**	**53**	**0.9**	390.1	55	1.0	400.0	57

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 20

GETAD SID Engine Failure before initial turn - Turn RIGHT and direct to LX334 for hold and return. Engine Failure after initial turn and below 3000ft - Turn immediately LEFT and direct to LXR for hold and return Engine Failure above 3000ft - No restrictions providing SID is followed and MSA achieved.

EGLIB/MOBIP/MIDKO/ASRAB/LUGAD/DEPDI SIDs Engine Failure before initial turn - Turn RIGHT and direct to LX334 for hold and return. Engine Failure after initial turn - No restrictions providing SID is followed and MSA achieved.

ALL ENGINES. No restrictions but beware high ground at LXR 19D.

BRITISH AIRWAYS **B747-400** LANDING DATA **NAIROBI**

A/D Elev **5330ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(HKJK)**

RUNWAY	**06**	**24**		
Landing Distance Available	4117m / 13507ft	4117m / 13507ft		
Slope	.36DN	.36UP		
Notes	Notes 1,2	Note 1		
WAT LIMIT °C : Man / Auto	44°	44°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING** : Terrain located NORTH WEST clockwise through NORTH of the airfield.
2. **ILS Rwy 06 :** Be aware of possible False LLZ capture abeam 'GV' VOR.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (TWY K) RWY 06

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.341% DN
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4457m (14622ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	275.6	36/27	0.6	278.7	41/32	0.0	**278.7**	**47/39**	**0.0**	278.7	47/42	0.0	278.7	47/45
58	284.2	36/28	1.5	291.6	40/33	0.0	**291.6**	**46/40**	**0.0**	291.6	49/43	0.0	291.6	50/46
54	292.4	37/28	1.8	301.4	42/33	0.4	**303.5**	**48/39**	**0.0**	303.5	51/42	0.0	303.5	53/46
52	296.1	38/29	1.8	305.2	43/34	0.8	**309.1**	**48/40**	**0.0**	309.1	51/43	0.0	309.1	54/47
50	300.1	39/30	1.8	309.2	43/35	1.1	**314.6**	**49/41**	**0.0**	314.6	52/44	0.0	314.6	55/47
48	302.5	38/31	1.9	311.8	42/36	1.7	**320.2**	**47/41**	**0.0**	320.2	50/44	0.0	320.2	53/48
46	306.3	38/32	1.9	315.6	43/37	2.0	**325.7**	**47/42**	**0.0**	325.7	51/45	0.0	325.7	54/48
44	310.1	39/32	1.9	319.6	44/37	2.1	**330.2**	**48/43**	**0.1**	331.3	51/46	0.0	331.3	54/49
42	313.9	40/33	1.9	323.6	45/38	2.1	**334.1**	**49/43**	**0.3**	336.9	52/46	0.0	336.9	55/50
40	317.6	40/34	2.0	327.7	45/39	2.1	**338.3**	**49/44**	**0.4**	342.5	51/47	0.0	342.5	55/51
38	321.5	41/35	2.0	331.6	45/40	2.1	**342.3**	**50/45**	**0.5**	347.7	52/48	0.1	348.6	55/51
36	325.6	42/36	2.0	335.6	46/41	2.2	**346.4**	**51/46**	**0.6**	352.0	53/49	0.3	354.7	56/52
34	329.6	43/36	2.0	339.6	47/42	2.2	**350.5**	**52/47**	**0.6**	356.1	54/49	0.5	360.6	56/52
32	333.3	43/37	2.0	343.4	48/42	2.2	**354.4**	**53/48**	**0.6**	360.2	55/50	0.6	366.1	57/53
30	336.8	43/38	2.1	347.1	47/43	2.2	**358.3**	**52/48**	**0.6**	364.2	54/51	0.6	370.5	56/54
28	339.6	43/38	2.1	349.9	48/44	2.3	**361.3**	**52/49**	**0.6**	367.3	55/52	0.6	373.7	57/54
26	342.3	44/39	2.1	352.8	48/44	2.3	**364.3**	**53/49**	**0.6**	370.5	55/52	0.7	377.0	57/55
24	345.0	44/39	2.1	355.7	49/45	2.3	**367.4**	**54/50**	**0.6**	373.7	56/53	0.7	380.3	58/56
22	347.3	45/40	2.1	358.0	49/45	2.4	**369.9**	**54/51**	**0.6**	376.3	56/53	0.7	382.8	58/56
20	349.5	45/40	2.2	360.4	50/46	2.4	**372.4**	**55/51**	**0.7**	378.9	57/54	0.7	385.4	59/56
18	351.8	46/41	2.2	362.7	50/46	2.5	**375.0**	**55/52**	**0.7**	381.5	57/54	0.7	388.8	59/57
16	353.8	44/41	2.2	365.0	49/47	2.5	**377.4**	**53/52**	**0.6**	383.8	56/55	0.9	392.8	57/57
14	355.8	45/42	2.3	367.1	49/47	2.5	**379.6**	**54/52**	**0.6**	386.0	56/55	1.0	396.3	57/57
12	356.7	45/42	2.3	368.1	49/47	2.5	**380.7**	**54/53**	**0.7**	387.2	56/55	0.9	396.5	58/57
10	357.7	45/42	2.3	369.1	50/48	2.5	**381.7**	**54/53**	**0.7**	389.0	56/55	0.8	396.5	58/58
8	358.7	45/42	2.3	370.2	50/48	2.5	**382.8**	**55/53**	**0.8**	390.9	56/56	0.6	396.5	59/58
6	359.8	46/43	2.3	371.3	50/48	2.5	**383.9**	**55/53**	**0.9**	392.8	57/56	0.4	396.6	59/59
4	360.7	48/43	2.3	372.3	53/48	2.5	**384.9**	**57/54**	**1.0**	394.6	59/56	0.2	396.6	62/59
2	361.8	48/43	2.3	373.4	53/49	2.5	**386.1**	**58/54**	**1.0**	396.3	59/56	0.0	396.6	62/60
0	362.8	49/44	2.3	374.5	53/49	2.6	**387.4**	**58/54**	**0.9**	396.6	59/56	0.0	396.6	63/60

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 06

KAMAS 1Z SID ENG FAILURE BEFORE NV013 - CONTINUE AHEAD TO NV013 AND THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV013 BUT BEFORE NV025 - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV025 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45 TURN RIGHT TO STONY FOR HOLD.

NAK2Z SID ENG FAILURE BEFORE NAK82 - TURN ON SHORTEST ROUTE TO STONY FOR HOLD. ENG FAILURE AFTER NAK82 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

KAMAS 1W SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

NAKAT 1Z SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NAK 1Y SID ALL ENGS - AFTER INITIAL LEFT TURN AT 10000FT INTERCEPT NV323R AT NV 40D OR LESS TO AVOID HIGH TERRAIN TO THE NORTH. ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1Y / GABSO 1Z/1Y SIDS - SIDS RESTRICTED TO 360000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1X SID SID RESTRICTED TO 355000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ANTUK 1D to NATAK SID - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (TWY K) RWY 06

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.341% DN
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4457m (14622ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	271.9	34/25	0.0	272.0	41/32	0.0	**272.0**	**44/38**	**0.0**	272.0	44/41	0.0	272.0	44/44
58	280.5	34/27	0.9	285.0	39/32	0.0	**285.0**	**46/39**	**0.0**	285.0	48/42	0.0	285.0	48/45
54	288.7	36/27	1.6	296.9	41/32	0.0	**296.9**	**47/38**	**0.0**	296.9	50/42	0.0	296.9	51/45
52	292.4	37/28	1.8	301.4	41/33	0.2	**302.5**	**48/39**	**0.0**	302.5	51/42	0.0	302.5	53/46
50	296.4	38/29	1.8	305.4	42/34	0.5	**308.0**	**48/40**	**0.0**	308.0	51/43	0.0	308.0	54/46
48	299.2	37/30	1.8	308.3	41/35	1.1	**313.6**	**46/40**	**0.0**	313.6	49/44	0.0	313.6	52/47
46	302.9	37/31	1.8	312.1	42/36	1.4	**319.2**	**47/41**	**0.0**	319.2	50/44	0.0	319.2	53/48
44	306.6	38/31	1.9	315.9	43/36	1.8	**324.8**	**47/42**	**0.0**	324.8	51/45	0.0	324.8	54/48
42	310.5	39/32	1.9	320.0	44/37	2.1	**330.4**	**48/42**	**0.0**	330.4	51/46	0.0	330.4	54/49
40	314.0	39/33	2.0	323.9	43/38	2.1	**334.5**	**48/43**	**0.2**	336.0	51/46	0.0	336.0	54/50
38	318.1	40/34	2.0	328.1	44/39	2.1	**338.7**	**49/44**	**0.3**	342.1	51/47	0.0	342.1	54/50
36	322.2	41/35	2.0	332.3	45/40	2.1	**342.9**	**50/45**	**0.5**	348.2	52/48	0.0	348.2	55/51
34	326.2	42/35	2.0	336.2	46/41	2.2	**347.0**	**51/46**	**0.6**	352.6	53/48	0.2	354.2	56/52
32	330.2	42/36	2.0	340.2	47/41	2.2	**351.0**	**52/47**	**0.6**	356.7	54/49	0.3	359.9	56/52
30	333.7	42/37	2.0	343.9	46/42	2.2	**354.9**	**51/47**	**0.6**	360.7	53/50	0.4	365.1	55/53
28	336.5	42/38	2.0	346.7	47/43	2.2	**357.9**	**52/48**	**0.6**	363.9	54/51	0.6	369.5	56/54
26	339.4	43/38	2.1	349.7	48/43	2.3	**361.0**	**52/49**	**0.6**	367.1	54/51	0.6	373.3	56/54
24	342.2	44/39	2.1	352.6	48/44	2.3	**364.2**	**53/49**	**0.6**	370.4	55/52	0.6	376.8	57/55
22	344.5	44/39	2.1	355.0	49/44	2.4	**366.8**	**53/50**	**0.6**	373.0	55/52	0.7	379.6	57/55
20	346.8	45/40	2.1	357.5	49/45	2.4	**369.4**	**54/50**	**0.6**	375.7	56/53	0.7	382.3	58/56
18	349.1	45/40	2.2	359.9	50/45	2.4	**372.0**	**54/51**	**0.6**	378.4	56/53	0.7	385.0	58/56
16	351.2	43/41	2.2	362.2	48/46	2.4	**374.4**	**53/51**	**0.6**	380.8	55/54	0.7	387.7	57/57
14	353.0	44/41	2.2	364.2	48/46	2.5	**376.5**	**53/52**	**0.7**	383.0	55/54	0.7	390.2	57/57
12	354.0	44/41	2.2	365.2	49/47	2.5	**377.6**	**53/52**	**0.6**	384.0	55/55	0.6	390.2	58/57
10	354.9	44/41	2.3	366.2	49/47	2.5	**378.7**	**54/52**	**0.6**	385.1	56/55	0.5	390.2	58/58
8	355.9	45/42	2.3	367.2	49/47	2.5	**379.8**	**54/52**	**0.6**	386.2	56/55	0.4	390.2	59/58
6	356.9	45/42	2.3	368.3	50/47	2.5	**380.9**	**54/53**	**0.7**	387.6	56/55	0.3	390.2	59/59
4	357.9	47/42	2.3	369.3	52/48	2.5	**381.9**	**57/53**	**0.8**	389.4	59/55	0.1	390.3	62/59
2	358.9	48/43	2.3	370.4	52/48	2.5	**383.0**	**57/53**	**0.7**	390.3	59/56	0.0	390.3	62/60
0	360.0	48/43	2.3	371.5	53/48	2.5	**384.1**	**57/54**	**0.6**	390.3	59/56	0.0	390.3	63/60

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 06

KAMAS 1Z SID ENG FAILURE BEFORE NV013 - CONTINUE AHEAD TO NV013 AND THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV013 BUT BEFORE NV025 - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV025 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45 TURN RIGHT TO STONY FOR HOLD.

NAK2Z SID ENG FAILURE BEFORE NAK82 - TURN ON SHORTEST ROUTE TO STONY FOR HOLD. ENG FAILURE AFTER NAK82 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

KAMAS 1W SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

NAKAT 1Z SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NAK 1Y SID ALL ENGS - AFTER INITIAL LEFT TURN AT 10000FT INTERCEPT NV323R AT NV 40D OR LESS TO AVOID HIGH TERRAIN TO THE NORTH. ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1Y / GABSO 1Z/1Y SIDS - SIDS RESTRICTED TO 360000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1X SID SID RESTRICTED TO 355000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ANTUK 1D to NATAK SID - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (TWY K) RWY 06

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.341% DN
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4457m (14622ft)

FLAP 20 **RB211-524G/PACKS ON/DRY RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 Dry	Inc /kt	5kt Tail	V1 Dry	Inc /kt	ZERO WIND	V1 Dry	Inc /kt	10kt Head	V1 Dry	Inc /kt	20kt Head	V1 Dry
70														
66														
62	276.6	36	0.4	278.7	41	0.0	**278.7**	**47**	**0.0**	278.7	47	0.0	278.7	47
58	284.2	36	1.5	291.6	40	0.0	**291.6**	**46**	**0.0**	291.6	49	0.0	291.6	50
54	292.4	37	1.8	301.4	42	0.4	**303.5**	**48**	**0.0**	303.5	51	0.0	303.5	53
52	296.1	38	1.8	305.2	43	0.8	**309.1**	**48**	**0.0**	309.1	51	0.0	309.1	54
50	300.1	39	1.8	309.2	43	1.1	**314.6**	**49**	**0.0**	314.6	52	0.0	314.6	55
48	302.5	38	1.9	311.8	42	1.7	**320.2**	**47**	**0.0**	320.2	50	0.0	320.2	53
46	306.3	38	1.9	315.6	43	2.0	**325.7**	**47**	**0.0**	325.7	51	0.0	325.7	54
44	310.1	39	1.9	319.6	44	2.1	**330.2**	**48**	**0.1**	331.3	51	0.0	331.3	54
42	313.9	40	1.9	323.6	45	2.1	**334.1**	**49**	**0.3**	336.9	52	0.0	336.9	55
40	317.6	40	2.0	327.7	45	2.1	**338.3**	**49**	**0.4**	342.5	51	0.0	342.5	55
38	321.5	41	2.0	331.6	45	2.1	**342.3**	**50**	**0.5**	347.7	52	0.1	348.6	55
36	325.6	42	2.0	335.6	46	2.2	**346.4**	**51**	**0.6**	352.0	53	0.3	354.7	56
34	329.6	43	2.0	339.6	47	2.2	**350.5**	**52**	**0.6**	356.1	54	0.5	360.6	56
32	333.3	43	2.0	343.4	48	2.2	**354.4**	**53**	**0.6**	360.2	55	0.6	366.1	57
30	336.8	43	2.1	347.1	47	2.2	**358.3**	**52**	**0.6**	364.2	54	0.6	370.5	56
28	339.6	43	2.1	349.9	48	2.3	**361.3**	**52**	**0.6**	367.3	55	0.6	373.7	57
26	342.3	44	2.1	352.8	48	2.3	**364.3**	**53**	**0.6**	370.5	55	0.7	377.0	57
24	345.0	44	2.1	355.7	49	2.3	**367.4**	**54**	**0.6**	373.7	56	0.7	380.3	58
22	347.3	45	2.1	358.0	49	2.4	**369.9**	**54**	**0.6**	376.3	56	0.7	382.8	58
20	349.5	45	2.2	360.4	50	2.4	**372.4**	**55**	**0.7**	378.9	57	0.7	385.4	59
18	351.8	46	2.2	362.7	50	2.5	**375.0**	**55**	**0.7**	381.5	57	0.7	388.8	59
16	353.8	44	2.2	365.0	49	2.5	**377.4**	**53**	**0.6**	383.8	56	0.9	392.8	57
14	355.8	45	2.3	367.1	49	2.5	**379.6**	**54**	**0.6**	386.0	56	1.0	396.3	57
12	356.7	45	2.3	368.1	49	2.5	**380.7**	**54**	**0.7**	387.2	56	0.9	396.5	58
10	357.7	45	2.3	369.1	50	2.5	**381.7**	**54**	**0.7**	389.0	56	0.8	396.5	58
8	358.7	45	2.3	370.2	50	2.5	**382.8**	**55**	**0.8**	390.9	56	0.6	396.5	59
6	359.8	46	2.3	371.3	50	2.5	**383.9**	**55**	**0.9**	392.8	57	0.4	396.6	59
4	360.7	48	2.3	372.3	53	2.5	**384.9**	**57**	**1.0**	394.6	59	0.2	396.6	62
2	361.8	48	2.3	373.4	53	2.5	**386.1**	**58**	**1.0**	396.3	59	0.0	396.6	62
0	362.8	49	2.3	374.5	53	2.6	**387.4**	**58**	**0.9**	396.6	59	0.0	396.6	63

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 06

KAMAS 1Z SID ENG FAILURE BEFORE NV013 - CONTINUE AHEAD TO NV013 AND THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV013 BUT BEFORE NV025 - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER NV025 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45 TURN RIGHT TO STONY FOR HOLD.

NAK2Z SID ENG FAILURE BEFORE NAK82 - TURN ON SHORTEST ROUTE TO STONY FOR HOLD. ENG FAILURE AFTER NAK82 - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

KAMAS 1W SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

NAKAT 1Z SID ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NAK 1Y SID ALL ENGS - AFTER INITIAL LEFT TURN AT 10000FT INTERCEPT NV323R AT NV 40D OR LESS TO AVOID HIGH TERRAIN TO THE NORTH. ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD. ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1Y / GABSO 1Z/1Y SIDS - SIDS RESTRICTED TO 360000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1X SID SID RESTRICTED TO 355000KG. NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ANTUK 1D to NATAK SID - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (BACKTRACK) RWY 24

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.385% UP
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4178m (13707ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	267.3	35/26	1.6	275.4	40/31	0.7	**278.7**	**46/37**	**0.0**	278.7	47/40	0.0	278.7	47/43
58	274.7	35/27	1.8	283.6	40/32	1.6	**291.6**	**44/38**	**0.0**	291.6	47/41	0.0	291.6	50/44
54	282.6	37/28	1.8	291.8	42/33	1.8	**300.8**	**46/38**	**0.3**	303.5	49/41	0.0	303.5	52/44
52	286.2	38/28	1.9	295.5	42/33	1.8	**304.5**	**47/39**	**0.5**	309.1	49/41	0.0	309.1	52/45
50	290.0	39/29	1.9	299.4	43/34	1.8	**308.6**	**48/39**	**0.5**	313.8	50/42	0.1	314.6	53/45
48	292.3	38/30	1.9	301.7	42/35	2.0	**311.6**	**46/40**	**0.5**	317.0	49/43	0.3	320.2	51/46
46	296.0	38/31	1.9	305.5	43/36	2.0	**315.5**	**47/41**	**0.6**	321.0	49/44	0.5	325.7	52/47
44	299.7	39/32	1.9	309.3	44/37	2.0	**319.5**	**48/42**	**0.6**	325.0	50/45	0.6	330.7	52/47
42	303.4	40/32	1.9	313.1	45/38	2.1	**323.5**	**49/43**	**0.6**	329.1	51/46	0.6	334.7	53/48
40	306.8	40/33	2.0	316.7	44/38	2.2	**327.5**	**49/44**	**0.6**	333.2	51/46	0.6	338.8	53/49
38	310.5	41/34	2.0	320.6	45/39	2.2	**331.5**	**50/45**	**0.6**	337.1	52/47	0.6	342.8	54/50
36	314.4	42/35	2.0	324.6	46/40	2.2	**335.5**	**51/45**	**0.6**	341.2	53/48	0.6	346.9	55/51
34	318.2	43/36	2.1	328.6	47/41	2.2	**339.4**	**52/46**	**0.6**	345.2	54/49	0.6	351.0	56/52
32	321.9	43/36	2.1	332.4	48/42	2.2	**343.2**	**53/47**	**0.6**	349.1	55/50	0.6	355.0	57/53
30	325.1	43/37	2.1	335.8	47/42	2.2	**346.8**	**52/48**	**0.6**	352.7	54/51	0.6	358.7	56/53
28	327.9	43/38	2.1	338.5	48/43	2.2	**349.6**	**53/48**	**0.6**	355.6	55/51	0.6	361.7	57/54
26	330.7	44/38	2.1	341.3	48/44	2.2	**352.5**	**53/49**	**0.6**	358.5	55/52	0.6	364.7	57/55
24	333.3	44/39	2.1	344.0	49/44	2.3	**355.3**	**54/50**	**0.6**	361.5	56/52	0.6	367.8	58/55
22	335.5	45/39	2.1	346.2	49/45	2.3	**357.7**	**54/50**	**0.6**	363.9	56/53	0.7	370.4	58/56
20	337.7	45/40	2.2	348.5	50/45	2.3	**360.1**	**55/51**	**0.6**	366.4	57/53	0.7	372.9	59/56
18	339.9	46/40	2.2	350.7	50/46	2.3	**362.4**	**55/51**	**0.6**	368.8	57/54	0.7	375.4	59/57
16	341.7	44/41	2.2	352.7	49/46	2.4	**364.6**	**54/52**	**0.7**	371.1	56/54	0.7	377.7	58/57
14	343.6	45/41	2.2	354.7	49/46	2.4	**366.7**	**54/52**	**0.7**	373.2	56/55	0.7	379.9	58/58
12	344.5	45/41	2.2	355.6	49/47	2.4	**367.7**	**54/52**	**0.7**	374.3	56/55	0.7	381.0	59/58
10	345.4	45/41	2.2	356.6	50/47	2.4	**368.7**	**55/53**	**0.7**	375.3	57/55	0.7	382.1	59/58
8	346.4	45/42	2.2	357.6	50/47	2.4	**369.8**	**55/53**	**0.7**	376.5	57/56	0.7	383.1	59/58
6	347.3	46/42	2.3	358.6	50/48	2.5	**370.9**	**55/53**	**0.7**	377.6	57/56	0.7	384.2	59/59
4	348.4	48/42	2.3	359.7	53/48	2.4	**371.9**	**58/53**	**0.7**	378.7	60/56	0.7	385.4	62/59
2	349.4	48/43	2.3	360.7	53/48	2.5	**373.0**	**58/54**	**0.7**	379.8	60/56	0.7	386.5	62/59
0	350.4	49/43	2.3	361.7	53/48	2.5	**374.2**	**58/54**	**0.7**	381.0	60/57	0.7	388.2	62/60

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 24

KAMAS 1V SID ENG FAILURE BEFORE NV - CONTINUE ON SID AND HOLD AT NV. ENG FAILURE AFTER NV BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

GABSO 1U/EVATO 1U/NAKAT 1U SIDS NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (BACKTRACK) RWY 24

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.385% UP
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4178m (13707ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	263.8	34/24	1.6	271.6	39/30	0.1	**272.0**	**44/36**	**0.0**	272.0	44/39	0.0	272.0	44/42
58	271.2	34/26	1.7	279.9	38/31	1.0	**285.0**	**44/37**	**0.0**	285.0	47/40	0.0	285.0	48/43
54	279.1	36/26	1.8	288.1	40/31	1.8	**296.9**	**45/37**	**0.0**	296.9	48/40	0.0	296.9	51/43
52	282.7	37/27	1.8	291.8	41/32	1.8	**300.8**	**46/37**	**0.2**	302.5	49/40	0.0	302.5	52/44
50	286.6	38/28	1.8	295.8	42/33	1.8	**304.8**	**47/38**	**0.3**	308.0	49/41	0.0	308.0	52/45
48	289.1	37/29	1.9	298.4	41/34	1.9	**308.1**	**45/39**	**0.5**	313.4	47/42	0.0	313.6	50/45
46	292.7	37/30	1.9	302.1	42/35	2.0	**312.0**	**46/40**	**0.5**	317.4	48/43	0.2	319.2	51/46
44	296.3	38/31	1.9	305.8	43/36	2.0	**315.8**	**47/41**	**0.6**	321.3	49/44	0.4	324.8	52/47
42	300.1	39/31	1.9	309.7	43/37	2.0	**319.9**	**48/42**	**0.5**	325.3	50/44	0.5	330.4	52/47
40	303.3	39/32	2.0	313.1	43/37	2.1	**323.7**	**48/43**	**0.6**	329.5	50/45	0.6	335.0	52/48
38	307.2	40/33	2.0	317.1	44/38	2.2	**327.9**	**49/44**	**0.6**	333.5	51/46	0.6	339.2	53/49
36	311.2	41/34	2.0	321.3	45/39	2.2	**332.1**	**50/44**	**0.6**	337.7	52/47	0.6	343.4	54/50
34	315.0	42/35	2.1	325.3	46/40	2.1	**336.0**	**51/45**	**0.6**	341.8	53/48	0.6	347.5	55/51
32	318.8	42/35	2.1	329.2	47/41	2.2	**340.0**	**52/46**	**0.6**	345.7	54/49	0.6	351.5	56/52
30	322.1	42/36	2.1	332.7	46/42	2.2	**343.6**	**51/47**	**0.6**	349.4	53/50	0.6	355.3	55/52
28	324.9	42/37	2.1	335.5	47/42	2.2	**346.4**	**52/48**	**0.6**	352.3	54/50	0.6	358.3	56/53
26	327.8	43/37	2.1	338.4	47/43	2.2	**349.4**	**52/48**	**0.6**	355.3	54/51	0.6	361.5	56/54
24	330.7	44/38	2.1	341.2	48/43	2.2	**352.3**	**53/49**	**0.6**	358.4	55/52	0.6	364.6	57/54
22	332.8	44/38	2.1	343.5	49/44	2.2	**354.7**	**53/49**	**0.6**	360.9	56/52	0.6	367.2	58/55
20	335.1	45/39	2.1	345.8	49/44	2.3	**357.1**	**54/50**	**0.6**	363.4	56/53	0.6	369.8	58/55
18	337.3	45/39	2.2	348.1	50/45	2.3	**359.6**	**54/50**	**0.6**	365.9	57/53	0.7	372.4	59/56
16	339.3	44/40	2.2	350.1	48/45	2.3	**361.8**	**53/51**	**0.6**	368.2	55/54	0.7	374.7	57/56
14	341.1	44/40	2.2	352.0	48/46	2.4	**363.8**	**53/51**	**0.7**	370.3	55/54	0.7	376.8	57/57
12	341.9	44/40	2.2	352.9	49/46	2.4	**364.8**	**54/51**	**0.7**	371.3	56/54	0.7	377.9	58/57
10	342.8	44/41	2.2	353.8	49/46	2.4	**365.8**	**54/52**	**0.7**	372.3	56/55	0.7	379.0	58/57
8	343.8	45/41	2.2	354.8	49/46	2.4	**366.8**	**54/52**	**0.7**	373.4	56/55	0.7	380.1	58/58
6	344.7	45/41	2.2	355.8	50/47	2.4	**367.9**	**54/52**	**0.7**	374.5	57/55	0.7	381.2	59/58
4	345.7	47/42	2.2	356.8	52/47	2.4	**369.0**	**57/53**	**0.7**	375.6	59/55	0.7	382.3	61/58
2	346.7	48/42	2.2	357.8	52/47	2.5	**370.1**	**57/53**	**0.7**	376.7	59/56	0.7	383.4	61/59
0	347.7	48/42	2.2	358.9	53/48	2.4	**371.1**	**57/53**	**0.7**	377.8	59/56	0.7	384.6	62/59

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 24

KAMAS 1V SID ENG FAILURE BEFORE NV - CONTINUE ON SID AND HOLD AT NV. ENG FAILURE AFTER NV BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

GABSO 1U/EVATO 1U/NAKAT 1U SIDS NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NAIROBI**

A/D Elev **5330ft** **JOMO KENYATTA INTL (HKJK)**

F/L (BACKTRACK) RWY 24

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.385% UP
TOR	4117m (13507ft)	**ED**	4178m (13707ft)	**TOD**	4178m (13707ft)

FLAP 20 **RB211-524G/PACKS ON/DRY RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 Dry	Inc /kt	5kt Tail	V1 Dry	Inc /kt	ZERO WIND	V1 Dry	Inc /kt	10kt Head	V1 Dry	Inc /kt	20kt Head	V1 Dry
70														
66														
62	267.3	35	1.6	275.4	40	0.7	**278.7**	**46**	**0.0**	278.7	47	0.0	278.7	47
58	274.7	35	1.8	283.6	40	1.6	**291.6**	**44**	**0.0**	291.6	47	0.0	291.6	50
54	282.6	37	1.8	291.8	42	1.8	**300.8**	**46**	**0.3**	303.5	49	0.0	303.5	52
52	286.2	38	1.9	295.5	42	1.8	**304.5**	**47**	**0.5**	309.1	49	0.0	309.1	52
50	290.0	39	1.9	299.4	43	1.8	**308.6**	**48**	**0.5**	313.8	50	0.1	314.6	53
48	292.3	38	1.9	301.7	42	2.0	**311.6**	**46**	**0.5**	317.0	49	0.3	320.2	51
46	296.0	38	1.9	305.5	43	2.0	**315.5**	**47**	**0.6**	321.0	49	0.5	325.7	52
44	299.7	39	1.9	309.3	44	2.0	**319.5**	**48**	**0.6**	325.0	50	0.6	330.7	52
42	303.4	40	1.9	313.1	45	2.1	**323.5**	**49**	**0.6**	329.1	51	0.6	334.7	53
40	306.8	40	2.0	316.7	44	2.2	**327.5**	**49**	**0.6**	333.2	51	0.6	338.8	53
38	310.5	41	2.0	320.6	45	2.2	**331.5**	**50**	**0.6**	337.1	52	0.6	342.8	54
36	314.4	42	2.0	324.6	46	2.2	**335.5**	**51**	**0.6**	341.2	53	0.6	346.9	55
34	318.2	43	2.1	328.6	47	2.2	**339.4**	**52**	**0.6**	345.2	54	0.6	351.0	56
32	321.9	43	2.1	332.4	48	2.2	**343.2**	**53**	**0.6**	349.1	55	0.6	355.0	57
30	325.1	43	2.1	335.8	47	2.2	**346.8**	**52**	**0.6**	352.7	54	0.6	358.7	56
28	327.9	43	2.1	338.5	48	2.2	**349.6**	**53**	**0.6**	355.6	55	0.6	361.7	57
26	330.7	44	2.1	341.3	48	2.2	**352.5**	**53**	**0.6**	358.5	55	0.6	364.7	57
24	333.3	44	2.1	344.0	49	2.3	**355.3**	**54**	**0.6**	361.5	56	0.6	367.8	58
22	335.5	45	2.1	346.2	49	2.3	**357.7**	**54**	**0.6**	363.9	56	0.7	370.4	58
20	337.7	45	2.2	348.5	50	2.3	**360.1**	**55**	**0.6**	366.4	57	0.7	372.9	59
18	339.9	46	2.2	350.7	50	2.3	**362.4**	**55**	**0.6**	368.8	57	0.7	375.4	59
16	341.7	44	2.2	352.7	49	2.4	**364.6**	**54**	**0.7**	371.1	56	0.7	377.7	58
14	343.6	45	2.2	354.7	49	2.4	**366.7**	**54**	**0.7**	373.2	56	0.7	379.9	58
12	344.5	45	2.2	355.6	49	2.4	**367.7**	**54**	**0.7**	374.3	56	0.7	381.0	59
10	345.4	45	2.2	356.6	50	2.4	**368.7**	**55**	**0.7**	375.3	57	0.7	382.1	59
8	346.4	45	2.2	357.6	50	2.4	**369.8**	**55**	**0.7**	376.5	57	0.7	383.1	59
6	347.3	46	2.3	358.6	50	2.5	**370.9**	**55**	**0.7**	377.6	57	0.7	384.2	59
4	348.4	48	2.3	359.7	53	2.4	**371.9**	**58**	**0.7**	378.7	60	0.7	385.4	62
2	349.4	48	2.3	360.7	53	2.5	**373.0**	**58**	**0.7**	379.8	60	0.7	386.5	62
0	350.4	49	2.3	361.7	53	2.5	**374.2**	**58**	**0.7**	381.0	60	0.7	388.2	62

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 24

KAMAS 1V SID ENG FAILURE BEFORE NV - CONTINUE ON SID AND HOLD AT NV. ENG FAILURE AFTER NV BUT BEFORE START OF TURN ONTO 324M - TURN RIGHT TO STONY FOR HOLD.ENG FAILURE AFTER START OF TURN ONTO 324M - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45D TURN RIGHT TO STONY FOR HOLD.

GABSO 1U/EVATO 1U/NAKAT 1U SIDS NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ALL OTHER SIDS PROHIBITED.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400** LANDING DATA **MOMBASA (HKMO)**

A/D Elev **196ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**03**	**21**		
Landing Distance Available	3349m / 10988ft	3349m / 10988ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DAR ES SALAAM (HTDA)**

A/D Elev **182ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**05**	**23**		
Landing Distance Available	3000m / 9842ft	3000m / 9842ft		
Slope	.11DN	.11UP		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	246.0	246.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	272.0	272.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **KILIMANJARO (HTKJ)**

A/D Elev **2932ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**09**	**27**		
Landing Distance Available	3600m / 11813ft	3600m / 11813ft		
Slope	.23DN	.23UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	48°	48°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	14kt (7kt)	14kt (7kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	277.0	277.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (7kt)	14kt (7kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located to the **NORTH EAST** of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **ENTEBBE (HUEN)**

A/D Elev **3782ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**17**	**35**		
Landing Distance Available	3658m / 12001ft	3658m / 12001ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	47°	47°		
25F Zero HW wt or TW (Manual)	14kt (10kt)	14kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (10kt)	14kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **FORT WORTH (KAFW)**

A/D Elev **722ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	16L	16R	34L	34R
Landing Distance Available	3231m / 10,600ft	3170m / 10,400ft	3170m / 10,400ft	2473m / 8114ft
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	8kt (3kt)	8kt (3kt)	270.0 (244.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	253.0	253.0	253.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (3kt)	8kt (3kt)	8kt (3kt)	280.8 (259.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	277.0	277.0	277.0	218.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ATLANTA**

A/D Elev **1026ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **W.B. HARTSFIELD (KATL)**

RUNWAY	08L	08R	09L	09R
Landing Distance Available	2682m / 8800ft	3048m / 10000ft	3575m / 11730ft	2720m / 8924ft
Slope	.28DN	.29DN	.34DN	.46DN
Notes	Notes 1	Notes 1	Notes 2	Notes 2
WAT LIMIT °C : Man / Auto	52°/52°	52°	52°	52°/52°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	0kt (266.9)	6kt (1kt)	14kt (10kt)	1kt (270.0)
25F Zero HW wt or TW (Autoland)	0kt (266.9)			1kt (270.0)
25F Slippery Zero HW wt or TW (Manual)	220.3	250.6	0kt	224.1
25F Slippery Zero HW wt or TW (Autoland)	220.3			224.1
30F Zero HW wt or TW (Manual)	5kt (0kt)	13kt (7kt)	15kt (14kt)	6kt (0kt)
30F Zero HW wt or TW (Autoland)	5kt (0kt)			6kt (0kt)
30F Slippery Zero HW wt or TW (Manual)	240.8	273.5	4kt	244.1
30F Slippery Zero HW wt or TW (Autoland)	240.8			244.1
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Sidestep Rwy 08L/08R:** After an ILS approach to Rwy 08L/08R, a Side-step manoeuvre is required to land on the adjacent rwy.
2. **Sidestep Rwy 09L / 09R:** After an ILS approach to Rwy 09L / 09R, a Side-step manoeuvre is required to land on the adjacent rwy.

BRITISH AIRWAYS **B747-400** LANDING DATA **ATLANTA**

A/D Elev **1026ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **W.B. HARTSFIELD (KATL)**

RUNWAY	10	26L	26R	27L
Landing Distance Available	2743m / 9000ft	3048m / 10000ft	2682m / 8800ft	2702m / 8865ft
Slope	.02 DN	.29UP	.28UP	.46UP
Notes		Notes 1	Notes 2	Notes 3
WAT LIMIT °C : Man / Auto	52°/52°	52°	52°	52°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (270.0)	6kt (1kt)	0kt (266.9)	0kt (268.5)
25F Zero HW wt or TW (Autoland)	2kt (270.0)			
25F Slippery Zero HW wt or TW (Manual)	222.0	250.6	220.3	222.3
25F Slippery Zero HW wt or TW (Autoland)	222.0			
30F Zero HW wt or TW (Manual)	2kt (280.8)	13kt (7kt)	5kt (0kt)	5kt (0kt)
30F Zero HW wt or TW (Autoland)	2kt (280.8)			
30F Slippery Zero HW wt or TW (Manual)	245.0	273.5	240.8	242.6
30F Slippery Zero HW wt or TW (Autoland)	245.0			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Sidestep Rwy 26L:** After an ILS approach to Rwy 26R, a Side-step manoeuvre is required to land on 26L
2. **Sidestep Rwy 26R:** After an ILS approach to Rwy 26L, a Side-step manoeuvre is required to land on 26R.
3. **ILS Side-step Rwy 27L**: Based on an ILS Rwy 27R approach with a side-step manoeuvre to land on Rwy 27L.

BRITISH AIRWAYS **B747-400** LANDING DATA **ATLANTA**

A/D Elev **1026ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **W.B. HARTSFIELD (KATL)**

RUNWAY	**27R**	**28**		
Landing Distance Available	3563m / 11690ft	2743m / 9000ft		
Slope	.34UP	.02 UP		
Notes	Notes 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	52°	52°/52°		
25F Zero HW wt or TW (Manual)	14kt (10kt)	1kt (271.8)		
25F Zero HW wt or TW (Autoland)		1kt (271.8)		
25F Slippery Zero HW wt or TW (Manual)	0kt	225.9		
25F Slippery Zero HW wt or TW (Autoland)		225.9		
30F Zero HW wt or TW (Manual)	15kt (14kt)	6kt (285.7)		
30F Zero HW wt or TW (Autoland)		6kt (285.7)		
30F Slippery Zero HW wt or TW (Manual)	4kt	246.3		
30F Slippery Zero HW wt or TW (Autoland)		246.3		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Side-step Rwy 27R**: Based on an ILS Rwy 27L approach with a side-step manoeuvre to land on Rwy 27R.

BRITISH AIRWAYS **B747-400** LANDING DATA **ATLANTA**

A/D Elev **1026ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **W.B. HARTSFIELD (KATL)**

RUNWAY	**27R**	**28**		
Landing Distance Available	3563m / 11690ft	2743m / 9000ft		
Slope	.34UP	.02 UP		
Notes	Notes 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	52°	52°/52°		
25F Zero HW wt or TW (Manual)	14kt (10kt)	1kt (271.8)		
25F Zero HW wt or TW (Autoland)		1kt (271.8)		
25F Slippery Zero HW wt or TW (Manual)	0kt	225.9		
25F Slippery Zero HW wt or TW (Autoland)		225.9		
30F Zero HW wt or TW (Manual)	15kt (14kt)	6kt (285.7)		
30F Zero HW wt or TW (Autoland)		6kt (285.7)		
30F Slippery Zero HW wt or TW (Manual)	4kt	246.3		
30F Slippery Zero HW wt or TW (Autoland)		246.3		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Side-step Rwy 27R**: Based on an ILS Rwy 27L approach with a side-step manoeuvre to land on Rwy 27R.

BRITISH AIRWAYS **B747-400** LANDING DATA **AUSTIN**

A/D Elev **542ft** Max wt Permitted (For pre flt planning) **285,760kg** **AUSTIN BERGSTROM (KAUS)**

RUNWAY (STATUS)	**17L**	**35R**	**17R**	**35L**
Landing Distance Available	2743m / 8999ft	2743m / 8999ft	3733m / 12247ft	3733m / 12247ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53°/53°	53°/53°
25F Zero HW wt or TW (Manual)	2kt (276.0)	2kt (276.0)	15kt (13kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)			15kt(13kt)	15kt(13kt)
25F Slippery Zero HW wt or TW (Manual)	225.0	225.0	2kt	2kt
25F Slippery Zero HW wt or TW (Autoland)			2kt	2kt
30F Zero HW wt or TW (Manual)	2kt (280.8)	2kt (280.8)	15kt	15kt
30F Zero HW wt or TW (Autoland)			15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	248.0	248.0	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)			5kt	5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **AUSTIN**

A/D Elev **542ft** **BERGSTROM INTL (KAUS)**

F/L (TWY B) RWY 17L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.2% DN
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	2743m (8999ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	248.4	23/11	1.8	257.3	29/16	1.8	**266.4**	**34/22**	**0.6**	272.0	37/25	0.5	277.4	40/28
66	256.9	25/12	2.0	266.7	30/18	1.9	**276.0**	**36/24**	**0.6**	281.7	38/27	0.6	287.3	40/30
62	267.1	27/14	2.0	277.2	32/20	1.9	**286.9**	**38/26**	**0.6**	292.8	41/29	0.6	298.5	43/32
58	276.7	28/16	2.1	287.1	33/22	2.0	**297.1**	**39/28**	**0.6**	303.1	41/31	0.6	308.9	43/34
54	284.1	29/18	2.1	294.8	34/24	2.2	**305.6**	**39/30**	**0.6**	311.8	42/33	0.6	317.8	44/36
52	287.9	29/17	2.1	298.6	35/23	2.2	**309.5**	**40/29**	**0.6**	315.8	43/32	0.6	321.9	45/35
50	291.8	30/18	2.2	302.6	36/23	2.2	**313.6**	**41/30**	**0.6**	319.9	43/33	0.6	326.2	46/36
48	294.5	30/18	2.2	305.3	35/24	2.4	**317.2**	**40/30**	**0.7**	323.7	43/33	0.6	330.1	45/37
46	298.1	30/19	2.2	309.1	36/25	2.4	**321.2**	**41/31**	**0.7**	327.7	43/34	0.7	334.2	46/38
44	301.9	31/20	2.2	312.9	37/26	2.5	**325.2**	**42/32**	**0.7**	331.8	44/35	0.6	338.1	47/38
42	305.5	32/20	2.2	316.7	37/26	2.5	**329.2**	**43/33**	**0.7**	335.8	45/36	0.6	342.2	47/39
40	308.5	31/21	2.3	320.1	37/27	2.6	**333.0**	**42/33**	**0.7**	339.6	44/37	0.7	346.4	46/40
38	312.3	32/22	2.3	324.0	37/28	2.6	**336.8**	**43/34**	**0.7**	343.6	45/37	0.7	350.5	47/41
36	316.2	33/22	2.4	328.0	38/28	2.6	**340.9**	**43/35**	**0.7**	347.7	46/38	0.7	354.7	48/41
34	319.9	34/23	2.4	331.9	39/29	2.6	**344.8**	**44/36**	**0.7**	351.7	46/39	0.7	358.7	49/42
32	323.4	33/24	2.4	335.4	38/30	2.6	**348.4**	**43/36**	**0.7**	355.4	46/39	0.7	362.6	48/43
30	327.1	33/24	2.4	339.2	39/30	2.6	**352.4**	**44/37**	**0.7**	359.5	46/40	0.7	366.8	49/44
28	329.6	34/25	2.4	341.7	39/31	2.7	**355.0**	**45/37**	**0.7**	362.2	47/41	0.7	369.5	49/44
26	330.5	34/25	2.4	342.6	40/31	2.7	**355.9**	**45/38**	**0.7**	363.1	47/41	0.7	370.4	50/44
24	331.4	34/25	2.4	343.5	40/31	2.7	**356.8**	**45/38**	**0.7**	364.1	47/41	0.7	371.4	50/45
22	332.3	35/26	2.4	344.4	40/32	2.7	**357.8**	**45/38**	**0.7**	365.1	48/41	0.7	372.4	50/45
20	333.2	35/26	2.4	345.3	40/32	2.7	**358.7**	**46/38**	**0.7**	366.1	48/42	0.7	373.4	50/45
18	334.1	35/26	2.4	346.2	41/32	2.7	**359.7**	**46/39**	**0.7**	367.1	48/42	0.7	374.4	51/45
16	335.0	35/26	2.4	347.2	41/32	2.7	**360.7**	**46/39**	**0.7**	368.1	48/42	0.7	375.4	51/46
14	335.9	36/27	2.4	348.1	41/33	2.7	**361.8**	**46/39**	**0.7**	369.1	49/43	0.7	376.4	51/46
12	336.8	36/27	2.5	349.1	41/33	2.7	**362.8**	**47/40**	**0.7**	370.1	49/43	0.7	377.5	51/46
10	337.8	36/27	2.5	350.1	42/33	2.7	**363.8**	**47/40**	**0.7**	371.1	49/43	0.8	378.6	52/47
8	338.7	37/27	2.5	351.1	42/33	2.8	**364.9**	**47/40**	**0.7**	372.2	50/43	0.7	379.6	52/47
6	339.7	37/28	2.5	352.1	42/34	2.8	**365.9**	**48/40**	**0.7**	373.2	50/44	0.8	380.7	52/47
4	340.7	37/28	2.5	353.1	43/34	2.8	**367.0**	**48/41**	**0.7**	374.3	50/44	0.8	381.9	53/47
2	341.7	37/28	2.5	354.1	43/34	2.8	**368.0**	**48/41**	**0.7**	375.3	51/44	0.8	382.9	53/48
0	342.7	38/28	2.5	355.2	43/35	2.8	**369.1**	**48/41**	**0.7**	376.4	51/45	0.8	384.0	53/48

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **AUSTIN**

A/D Elev **542ft** **BERGSTROM INTL (KAUS)**

F/L (TWY C) RWY 17R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.441% DN
TOR	3733m (12247ft)	**ED**	3733m (12247ft)	**TOD**	3733m (12247ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	290.8	38/27	1.6	299.0	43/33	1.0	**303.9**	**49/39**	**0.0**	303.9	51/42	0.0	303.9	51/46
66	300.2	38/29	2.0	310.1	43/34	1.7	**318.5**	**48/40**	**0.2**	320.3	51/43	0.0	320.3	54/47
62	311.7	41/31	2.1	322.0	46/37	1.9	**331.6**	**51/42**	**0.5**	336.4	53/45	0.0	336.8	56/49
58	321.4	41/33	2.1	332.0	46/39	2.2	**342.8**	**51/45**	**0.5**	348.2	53/47	0.4	352.3	55/51
54	330.1	42/35	2.1	340.7	47/41	2.2	**351.9**	**51/46**	**0.6**	357.8	54/49	0.6	363.9	56/52
52	334.2	43/34	2.1	344.8	48/40	2.3	**356.2**	**52/45**	**0.6**	362.3	55/48	0.6	368.6	57/51
50	338.5	44/35	2.1	349.2	48/41	2.3	**360.8**	**53/46**	**0.6**	367.0	55/49	0.6	373.3	58/52
48	342.0	43/36	2.2	353.0	48/42	2.4	**365.0**	**53/47**	**0.6**	371.3	55/50	0.6	377.6	57/53
46	346.0	44/37	2.3	357.3	49/42	2.4	**369.4**	**54/48**	**0.6**	375.7	56/51	0.7	382.2	58/54
44	350.2	45/37	2.3	361.6	49/43	2.5	**373.9**	**54/49**	**0.6**	380.3	57/52	0.6	386.7	59/55
42	354.4	45/38	2.3	366.1	50/44	2.5	**378.4**	**55/50**	**0.6**	384.8	57/53	0.6	391.2	60/56
40	358.7	44/39	2.4	370.5	49/45	2.5	**383.1**	**54/51**	**0.6**	389.4	56/53	0.6	395.0	59/57
38	363.0	45/40	2.4	374.8	50/46	2.5	**387.4**	**55/51**	**0.6**	393.7	58/55	0.6	399.3	59/58
36	367.4	46/41	2.4	379.4	51/47	2.5	**392.0**	**56/53**	**0.5**	397.4	58/56	0.7	404.0	60/59
34	371.5	47/41	2.4	383.6	52/47	2.3	**395.3**	**57/54**	**0.6**	401.7	59/56	0.7	408.4	61/59
32	375.5	46/42	2.4	387.7	51/48	2.3	**399.3**	**56/54**	**0.7**	405.9	58/57	0.7	412.5	61/60
30	379.9	47/43	2.4	392.0	52/49	2.3	**403.7**	**57/55**	**0.7**	410.3	59/58	0.7	417.1	61/61
28	382.7	47/43	2.3	394.2	53/50	2.5	**406.6**	**58/56**	**0.7**	413.2	60/59	0.7	419.9	62/62
26	383.6	47/44	2.3	394.9	53/50	2.5	**407.6**	**58/56**	**0.7**	414.3	60/59	0.7	421.0	62/62
24	384.6	48/44	2.2	395.8	53/50	2.6	**408.6**	**58/56**	**0.7**	415.4	60/59	0.7	422.1	63/62
22	385.6	48/44	2.2	396.8	53/51	2.6	**409.7**	**58/56**	**0.7**	416.4	61/59	0.7	423.1	63/63
20	386.6	48/44	2.2	397.8	54/51	2.6	**410.7**	**59/57**	**0.7**	417.5	61/60	0.7	424.2	63/63
18	387.6	48/44	2.2	398.8	54/51	2.6	**411.8**	**59/57**	**0.7**	418.5	61/60	0.7	425.4	63/63
16	388.4	49/45	2.3	399.9	54/51	2.6	**412.9**	**59/57**	**0.7**	419.6	62/60	0.7	426.5	64/63
14	389.6	49/45	2.3	400.9	54/52	2.6	**414.0**	**60/57**	**0.7**	420.7	62/61	0.7	427.6	64/64
12	390.7	49/46	2.3	402.0	55/52	2.6	**415.1**	**60/58**	**0.7**	421.9	62/61	0.7	428.7	64/64
10	391.8	50/46	2.3	403.1	55/52	2.6	**416.3**	**60/58**	**0.7**	423.0	62/61	0.7	429.8	65/64
8	392.8	50/47	2.3	404.2	55/53	2.6	**417.4**	**60/58**	**0.7**	424.2	63/61	0.7	431.0	65/65
6	393.8	51/47	2.3	405.3	56/53	2.6	**418.5**	**61/59**	**0.7**	425.3	63/62	0.7	432.1	65/65
4	394.4	51/47	2.4	406.5	56/53	2.6	**419.7**	**61/59**	**0.7**	426.5	63/62	0.7	433.3	66/65
2	395.2	51/47	2.5	407.6	56/53	2.6	**420.8**	**61/59**	**0.7**	427.7	64/62	0.7	434.5	66/66
0	396.2	51/48	2.5	408.7	57/54	2.7	**422.0**	**62/60**	**0.7**	428.8	64/63	0.7	435.8	66/66

P/C above 1013 + 0.1
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **AUSTIN**

A/D Elev **542ft** **BERGSTROM INTL (KAUS)**

F/L (TWY C) RWY 35L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.441% UP
TOR	3733m (12247ft)	**ED**	3733m (12247ft)	**TOD**	3733m (12247ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	284.9	37/26	1.9	294.4	42/32	1.8	**303.5**	**47/37**	**0.2**	305.5	50/41	0.0	305.5	51/44
66	294.7	37/28	2.0	304.6	42/33	1.9	**314.0**	**47/39**	**0.5**	319.4	49/41	0.3	322.0	52/45
62	306.0	40/30	2.0	316.2	45/36	1.9	**325.9**	**50/41**	**0.6**	331.7	52/44	0.6	337.5	54/47
58	315.5	40/33	2.1	326.1	45/38	2.2	**337.3**	**50/44**	**0.6**	343.1	52/46	0.6	348.9	54/49
54	323.9	41/34	2.2	334.9	46/40	2.3	**346.3**	**51/46**	**0.6**	352.2	53/48	0.6	358.3	55/51
52	328.0	42/33	2.2	339.0	47/39	2.3	**350.5**	**52/45**	**0.6**	356.6	54/47	0.6	362.8	56/50
50	332.4	43/34	2.2	343.4	48/40	2.3	**355.0**	**52/45**	**0.6**	361.1	55/48	0.7	367.6	57/51
48	335.7	42/35	2.2	346.8	47/41	2.4	**358.8**	**52/46**	**0.7**	365.3	54/49	0.7	371.8	56/52
46	339.7	43/36	2.3	351.0	48/42	2.5	**363.3**	**53/47**	**0.6**	369.7	55/50	0.7	376.3	57/53
44	343.8	44/37	2.3	355.2	49/42	2.5	**367.7**	**53/48**	**0.7**	374.2	56/51	0.7	380.9	58/54
42	347.9	45/37	2.3	359.5	49/43	2.5	**372.1**	**54/49**	**0.7**	378.7	56/52	0.7	385.5	59/55
40	352.0	44/38	2.4	364.0	48/44	2.6	**376.8**	**53/50**	**0.7**	383.5	55/53	0.7	390.0	57/55
38	356.1	44/39	2.4	368.3	49/45	2.6	**381.2**	**54/50**	**0.7**	387.9	56/53	0.7	394.5	58/57
36	360.4	45/40	2.5	372.7	50/46	2.6	**385.8**	**55/51**	**0.7**	392.5	57/54	0.6	398.0	59/58
34	364.6	46/40	2.5	377.0	51/46	2.6	**389.9**	**55/52**	**0.6**	396.1	58/55	0.6	402.2	60/59
32	368.6	45/41	2.5	381.0	50/47	2.6	**393.9**	**55/53**	**0.6**	399.5	57/56	0.7	406.3	60/59
30	372.8	46/42	2.5	385.4	51/48	2.4	**397.3**	**56/54**	**0.7**	403.9	58/57	0.7	410.8	60/60
28	375.5	46/42	2.5	388.1	51/48	2.4	**400.0**	**57/55**	**0.7**	406.8	59/58	0.7	413.7	61/61
26	376.5	46/43	2.5	389.1	51/48	2.4	**401.0**	**57/55**	**0.7**	407.8	59/58	0.7	414.7	61/61
24	377.5	47/43	2.5	389.9	51/48	2.4	**402.0**	**57/55**	**0.7**	408.9	59/58	0.7	415.8	62/61
22	378.5	47/43	2.5	390.9	52/49	2.4	**403.0**	**57/55**	**0.7**	409.9	60/58	0.7	416.9	62/62
20	379.5	47/43	2.5	392.2	52/49	2.4	**404.1**	**58/56**	**0.7**	410.9	60/59	0.7	417.9	62/62
18	380.6	48/44	2.5	393.2	52/50	2.4	**405.1**	**58/56**	**0.7**	412.0	60/59	0.7	419.0	62/62
16	381.6	48/44	2.5	394.2	53/50	2.4	**406.2**	**58/56**	**0.7**	413.1	61/59	0.7	420.1	63/63
14	382.7	48/44	2.5	395.2	53/51	2.4	**407.3**	**59/57**	**0.7**	414.2	61/60	0.7	421.2	63/63
12	383.8	48/44	2.4	395.9	54/51	2.5	**408.4**	**59/57**	**0.7**	415.3	61/60	0.7	422.3	63/63
10	384.8	49/45	2.3	396.4	54/51	2.6	**409.5**	**59/57**	**0.7**	416.5	61/60	0.7	423.5	64/63
8	385.9	49/45	2.3	397.4	54/52	2.6	**410.6**	**60/57**	**0.7**	417.6	62/61	0.7	424.6	64/64
6	386.9	49/45	2.3	398.4	55/52	2.7	**411.7**	**60/58**	**0.7**	418.8	62/61	0.7	425.8	64/64
4	388.0	49/45	2.3	399.5	55/52	2.7	**412.9**	**60/58**	**0.7**	419.9	62/61	0.7	427.0	65/64
2	389.1	50/45	2.3	400.6	55/52	2.7	**414.0**	**60/58**	**0.7**	421.1	63/61	0.7	428.2	65/65
0	390.1	50/46	2.3	401.8	56/53	2.7	**415.2**	**61/59**	**0.7**	422.2	63/62	0.7	429.4	65/65

P/C above 1013 + 0.1
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **AUSTIN**

A/D Elev **542ft** **BERGSTROM INTL (KAUS)**

F/L (TWY B) RWY 35R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.2% UP
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	2743m (8999ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	247.3	23/11	1.8	256.2	28/16	1.8	**265.4**	**34/22**	**0.6**	271.0	36/25	0.6	276.7	39/28
66	255.7	24/12	2.0	265.5	29/17	1.9	**275.2**	**35/23**	**0.6**	280.7	37/26	0.6	286.5	40/29
62	265.9	26/14	2.1	276.2	32/19	1.9	**285.8**	**38/25**	**0.6**	291.7	40/29	0.6	297.6	43/32
58	275.7	27/16	2.0	285.9	33/21	2.0	**296.0**	**38/28**	**0.6**	302.0	41/31	0.6	308.0	43/34
54	283.1	28/17	2.2	293.9	34/23	2.1	**304.5**	**39/29**	**0.6**	310.6	41/32	0.6	316.8	44/36
52	286.7	29/16	2.2	297.6	34/22	2.1	**308.3**	**40/28**	**0.6**	314.6	42/31	0.6	320.9	44/35
50	290.6	30/17	2.2	301.5	35/23	2.2	**312.4**	**41/29**	**0.6**	318.7	43/32	0.7	325.2	45/36
48	293.3	29/18	2.2	304.3	34/24	2.4	**316.1**	**40/30**	**0.6**	322.5	42/33	0.7	329.1	44/36
46	296.9	30/18	2.2	308.0	35/24	2.4	**320.0**	**41/31**	**0.7**	326.5	43/34	0.7	333.2	45/37
44	300.6	31/19	2.3	311.9	36/25	2.4	**324.0**	**41/31**	**0.7**	330.5	44/35	0.7	337.2	46/38
42	304.3	31/20	2.3	315.7	37/26	2.4	**327.9**	**42/32**	**0.7**	334.6	45/35	0.7	341.2	47/39
40	307.2	31/21	2.3	318.9	36/27	2.5	**331.6**	**41/33**	**0.7**	338.4	44/36	0.7	345.3	46/39
38	310.9	32/21	2.4	322.8	37/27	2.6	**335.6**	**42/34**	**0.7**	342.3	44/37	0.7	349.3	47/40
36	314.8	32/22	2.4	326.8	38/28	2.6	**339.6**	**43/34**	**0.7**	346.5	45/38	0.7	353.6	48/41
34	318.5	33/23	2.4	330.7	38/29	2.6	**343.5**	**44/35**	**0.7**	350.4	46/38	0.7	357.6	48/42
32	321.9	32/23	2.5	334.3	37/29	2.6	**347.1**	**43/36**	**0.7**	354.1	45/39	0.7	361.4	47/42
30	325.7	33/24	2.5	338.1	38/30	2.6	**351.1**	**43/36**	**0.7**	358.1	46/40	0.8	365.6	48/43
28	328.2	33/24	2.5	340.6	39/30	2.6	**353.7**	**44/37**	**0.7**	360.8	46/40	0.8	368.3	49/44
26	329.1	34/25	2.5	341.5	39/31	2.6	**354.6**	**44/37**	**0.7**	361.7	47/40	0.8	369.3	49/44
24	330.0	34/25	2.5	342.4	39/31	2.6	**355.5**	**45/37**	**0.7**	362.7	47/41	0.8	370.2	49/44
22	330.9	34/25	2.5	343.3	39/31	2.6	**356.5**	**45/38**	**0.7**	363.7	47/41	0.8	371.2	50/44
20	331.8	34/25	2.5	344.2	40/31	2.6	**357.4**	**45/38**	**0.7**	364.7	47/41	0.8	372.2	50/45
18	332.7	35/25	2.5	345.1	40/32	2.7	**358.4**	**45/38**	**0.7**	365.7	48/41	0.8	373.2	50/45
16	333.7	35/26	2.5	346.1	40/32	2.7	**359.4**	**46/38**	**0.7**	366.7	48/42	0.8	374.2	50/45
14	334.6	35/26	2.5	347.0	41/32	2.7	**360.4**	**46/39**	**0.7**	367.7	48/42	0.8	375.3	51/45
12	335.5	35/26	2.5	347.9	41/32	2.7	**361.4**	**46/39**	**0.7**	368.8	49/42	0.8	376.3	51/46
10	336.4	36/26	2.5	348.9	41/33	2.7	**362.4**	**46/39**	**0.7**	369.8	49/43	0.8	377.3	51/46
8	337.4	36/27	2.5	349.9	41/33	2.7	**363.5**	**47/40**	**0.7**	370.8	49/43	0.8	378.4	52/46
6	338.3	36/27	2.5	350.9	42/33	2.7	**364.5**	**47/40**	**0.7**	371.9	49/43	0.8	379.5	52/47
4	339.3	37/27	2.5	351.9	42/33	2.7	**365.6**	**47/40**	**0.7**	373.0	50/43	0.8	380.6	52/47
2	340.3	37/28	2.5	352.9	42/34	2.8	**366.7**	**48/40**	**0.7**	374.0	50/44	0.8	381.7	52/47
0	341.3	37/28	2.5	354.0	42/34	2.8	**367.8**	**48/41**	**0.7**	375.1	50/44	0.8	382.9	53/47

P/C above 1013 + 0.2
P/C below 1013 - 0.4

AIRWAYS **B747-400** LANDING DATA **WINDSOR LOCKS**

A/D Elev **174ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **BRADLEY INTL (KBDL)**

RUNWAY	**06**	**24**		
Landing Distance Available	2898m / 9509ft	2898m / 9509ft		
Slope	.11DN	.11UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	5kt (0kt)	5kt (0kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	237.0	237.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	5kt (0kt)	5kt (0kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	263.0	263.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

SEATTLE

BOEING FLD **(KBFI)**

SEATTLE/BOEING FLD and runways 13R, 31L authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **BANGOR (KBGR)**

A/D Elev **192ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**15**	**33**		
Landing Distance Available	3486m / 11437ft	3486m / 11437ft		
Slope	.25DN	.25UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BIRMINGHAM**

A/D Elev **650ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **SHUTTLESWORTH (KBHM)**

RUNWAY	**06**	**24**		
Landing Distance Available	3657m / 12000ft	3292m / 10800ft		
Slope	.31UP	.31DN		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	15kt (12kt)	13kt (6kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	2kt	270.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt (12kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BOSTON (KBOS)**

A/D Elev **20ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**04L**	**04R**	**09**	**15R**
Landing Distance Available	2396m / 7858ft	2697m / 8846ft	2134m / 7001ft	2805m / 9202ft
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°	54°
25F Zero HW wt or TW (Manual)	269.4 (242.8)	1kt (273.2)	237.4 (213.9)	3kt (280.9)
25F Zero HW wt or TW (Autoland)		1kt (273.2)		
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	227.8	NOT AUTH	236.9
25F Slippery Zero HW wt or TW (Autoland)		227.8		
30F Zero HW wt or TW (Manual)	285.7 (264.7)	7kt (1kt)	252.9 (230.9)	9kt (4kt)
30F Zero HW wt or TW (Autoland)		7kt (1kt)		
30F Slippery Zero HW wt or TW (Manual)	220.0	248.5	NOT AUTH	258.2
30F Slippery Zero HW wt or TW (Autoland)		248.5		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **LDA 04R:** Length shown applies except in VMC HJ when 3048m / 10000ft is available. Weights are based on the shorter length.

BRITISH AIRWAYS **B747-400** LANDING DATA **BOSTON (KBOS)**

A/D Elev **20ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	22L	22R	27	33L
Landing Distance Available	2684m / 8803ft	2148m / 7047ft	2134m / 7001ft	3073m / 10082ft
Notes			Note 1	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°/54°
25F Zero HW wt or TW (Manual)	1kt (272.5)	239.0 (217.0)	237.5 (216.0)	9kt (3kt)
25F Zero HW wt or TW (Autoland)				9kt (3kt)
25F Slippery Zero HW wt or TW (Manual)	222.0	NOT AUTH	NOT AUTH	255.0
25F Slippery Zero HW wt or TW (Autoland)				255.0
30F Zero HW wt or TW (Manual)	1kt (280.8)	254.0 (231.5)	252.5 (231.5)	9kt (3kt)
30F Zero HW wt or TW (Autoland)				9kt (3kt)
30F Slippery Zero HW wt or TW (Manual)	245.0	NOT AUTH	NOT AUTH	279.0
30F Slippery Zero HW wt or TW (Autoland)				279.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 27** – Pilots should be aware of the possibility of false localiser capture.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY W/E) RWY 04L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.013% UP
TOR	2396m (7860ft)	**ED**	2396m (7860ft)	**TOD**	2396m (7860ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	227.8	18/11	1.6	235.7	23/11	1.7	**244.0**	**29/17**	**0.5**	248.9	31/20	0.5	253.7	34/23
66	236.4	19/11	1.7	244.7	25/12	1.7	**253.3**	**30/18**	**0.5**	258.2	33/21	0.5	263.3	36/24
62	246.1	21/11	1.7	254.6	27/14	1.8	**263.4**	**33/20**	**0.5**	268.5	36/23	0.6	274.0	39/27
58	255.1	23/11	1.8	263.9	28/16	1.8	**273.1**	**34/22**	**0.5**	278.5	37/26	0.6	284.2	40/29
54	261.5	24/12	2.1	272.0	29/17	1.9	**281.5**	**35/24**	**0.6**	287.1	38/27	0.6	293.0	40/31
52	260.3	24/13	3.1	275.7	30/17	1.9	**285.4**	**36/23**	**0.6**	291.1	39/26	0.6	297.1	41/30
50	259.0	24/14	4.1	279.6	30/17	2.0	**289.5**	**35/24**	**0.6**	295.2	38/27	0.6	301.4	41/30
48	257.9	25/14	5.1	283.3	30/18	2.0	**293.3**	**36/25**	**0.6**	299.3	39/28	0.6	305.4	41/31
46	256.7	26/15	6.1	287.0	31/19	2.0	**297.2**	**37/25**	**0.6**	303.2	40/28	0.6	309.5	42/32
44	255.5	26/16	7.0	290.6	32/19	2.1	**301.0**	**38/26**	**0.6**	307.0	40/29	0.6	313.4	43/33
42	254.3	26/17	7.9	293.9	31/20	2.2	**304.8**	**37/27**	**0.6**	311.0	39/30	0.7	317.5	42/33
40	253.0	27/18	8.9	297.7	32/21	2.2	**308.9**	**38/27**	**0.6**	315.1	40/31	0.7	321.7	43/34
38	251.8	27/19	10.0	301.6	33/21	2.3	**313.0**	**38/28**	**0.6**	319.3	41/31	0.7	325.9	44/35
36	250.6	28/20	11.0	305.4	33/22	2.4	**317.2**	**39/29**	**0.6**	323.6	42/32	0.7	330.3	44/36
34	249.5	28/21	11.9	309.1	33/23	2.4	**321.2**	**38/29**	**0.6**	327.6	41/33	0.7	334.3	44/36
32	249.4	28/22	12.6	312.6	34/23	2.5	**324.9**	**39/30**	**0.7**	331.4	42/34	0.7	338.1	44/37
30	248.4	29/23	13.6	316.4	34/24	2.5	**329.0**	**40/31**	**0.7**	335.5	42/34	0.7	342.3	45/38
28	251.8	29/23	13.1	317.3	35/24	2.5	**329.8**	**40/31**	**0.7**	336.3	43/34	0.7	343.1	45/38
26	255.3	29/23	12.6	318.2	35/25	2.5	**330.6**	**40/31**	**0.7**	337.1	43/35	0.7	343.9	46/38
24	258.8	30/23	12.1	319.1	35/25	2.4	**331.3**	**41/32**	**0.7**	337.9	43/35	0.7	344.7	46/39
22	262.4	30/23	11.5	320.0	35/25	2.4	**332.1**	**41/32**	**0.7**	338.7	44/35	0.7	345.5	46/39
20	266.1	30/23	10.9	320.8	36/25	2.4	**332.9**	**41/32**	**0.7**	339.5	44/36	0.7	346.3	46/39
18	269.9	30/23	10.4	321.7	36/26	2.4	**333.6**	**41/32**	**0.7**	340.3	44/36	0.7	347.1	47/40
16	273.9	31/23	9.7	322.6	36/26	2.4	**334.4**	**42/33**	**0.7**	341.0	44/36	0.7	347.9	47/40
14	277.9	31/23	9.1	323.4	36/26	2.4	**335.2**	**42/33**	**0.7**	341.8	45/36	0.7	348.7	47/40
12	282.1	31/23	8.4	324.3	37/26	2.3	**336.0**	**42/33**	**0.7**	342.6	45/37	0.7	349.6	48/40
10	286.3	32/23	7.8	325.1	37/27	2.4	**336.9**	**43/34**	**0.7**	343.5	45/37	0.7	350.4	48/41
8	290.6	32/23	7.1	326.0	37/27	2.3	**337.7**	**43/34**	**0.7**	344.3	46/37	0.7	351.3	48/41
6	294.9	32/23	6.4	326.8	38/27	2.4	**338.6**	**43/34**	**0.7**	345.1	46/38	0.7	352.1	49/41
4	299.4	32/23	5.7	327.7	38/27	2.3	**339.4**	**44/34**	**0.7**	346.0	46/38	0.7	353.0	49/42
2	303.0	33/23	5.1	328.6	38/28	2.3	**340.3**	**44/35**	**0.7**	346.9	47/38	0.7	353.9	49/42
0	306.5	33/23	4.6	329.5	39/28	2.3	**341.1**	**44/35**	**0.7**	347.7	47/38	0.7	354.7	50/42

P/C above 1013 + 0.1
P/C below 1013 - 0.5

Assumes ships 60FT AMSL in shipping channel.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L VIA RWY 14 RWY 04R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.05% DN
TOR	3050m (10006ft)	**ED**	3050m (10006ft)	**TOD**	3050m (10006ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	245.7	31/19	1.4	252.8	34/25	1.4	**259.9**	**37/31**	**0.4**	263.8	38/34	0.4	267.9	40/38
66	256.0	32/20	1.5	263.5	37/26	1.5	**270.9**	**40/32**	**0.4**	275.1	41/35	0.5	279.6	43/38
62	266.9	35/22	1.6	274.9	40/28	1.6	**282.8**	**43/34**	**0.5**	287.3	45/37	0.5	292.0	46/41
58	277.4	36/24	1.7	285.8	42/30	1.6	**294.0**	**46/36**	**0.5**	298.8	48/40	0.5	303.6	49/43
54	286.5	37/26	1.8	295.4	42/32	1.7	**303.8**	**48/38**	**0.5**	308.8	50/41	0.5	313.7	52/45
52	290.8	37/25	1.8	299.8	43/31	1.7	**308.4**	**49/37**	**0.5**	313.4	51/41	0.5	318.4	53/44
50	295.1	37/26	1.8	304.3	42/32	1.7	**313.0**	**48/38**	**0.5**	318.1	51/42	0.5	323.1	53/45
48	299.4	37/26	1.9	308.7	43/32	1.8	**317.5**	**49/39**	**0.5**	322.7	51/42	0.5	327.8	54/46
46	303.5	38/27	1.9	312.9	44/33	1.8	**321.9**	**50/40**	**0.5**	327.2	52/43	0.5	332.3	55/47
44	307.6	39/28	1.9	317.2	45/34	1.8	**326.3**	**50/40**	**0.5**	331.6	53/44	0.5	336.8	55/47
42	311.8	38/28	1.9	321.5	44/35	1.8	**330.7**	**49/41**	**0.5**	336.1	52/45	0.5	341.3	54/48
40	316.0	39/29	2.0	325.9	44/35	1.9	**335.2**	**50/42**	**0.5**	340.6	52/45	0.5	345.9	55/49
38	320.5	39/30	2.0	330.5	45/36	1.9	**339.8**	**51/43**	**0.6**	345.3	53/46	0.5	350.7	56/50
36	324.9	40/30	2.0	335.0	46/37	1.9	**344.5**	**52/43**	**0.6**	350.1	54/47	0.6	355.6	56/50
34	329.1	39/31	2.0	339.3	45/37	1.9	**349.0**	**50/44**	**0.6**	354.7	53/48	0.6	360.3	55/51
32	333.0	40/32	2.1	343.4	46/38	2.0	**353.2**	**51/45**	**0.6**	359.0	54/48	0.6	364.9	56/52
30	337.2	41/33	2.1	347.8	46/39	2.0	**357.8**	**52/46**	**0.6**	363.8	54/49	0.6	369.8	57/53
28	337.9	41/33	2.1	348.5	47/39	2.0	**358.5**	**52/46**	**0.6**	364.6	55/49	0.6	370.6	57/53
26	338.6	41/33	2.1	349.2	47/39	2.0	**359.2**	**53/46**	**0.6**	365.3	55/50	0.6	371.3	58/53
24	339.3	42/33	2.1	349.8	47/40	2.0	**359.9**	**53/47**	**0.6**	366.0	55/50	0.6	372.0	58/54
22	340.1	42/34	2.1	350.5	48/40	2.0	**360.6**	**53/47**	**0.6**	366.7	56/50	0.6	372.7	58/54
20	340.7	42/34	2.1	351.2	48/40	2.0	**361.3**	**54/47**	**0.6**	367.4	56/51	0.6	373.4	59/54
18	341.5	43/34	2.1	351.9	48/41	2.0	**362.0**	**54/47**	**0.6**	368.1	56/51	0.6	374.2	59/55
16	342.1	43/34	2.1	352.6	49/41	2.0	**362.7**	**54/48**	**0.6**	368.8	57/51	0.6	374.9	59/55
14	342.8	43/35	2.1	353.3	49/41	2.0	**363.4**	**55/48**	**0.6**	369.6	57/52	0.6	375.7	60/55
12	343.5	44/35	2.1	354.0	49/41	2.0	**364.2**	**55/48**	**0.6**	370.3	57/52	0.6	376.4	60/56
10	344.2	44/35	2.1	354.7	50/42	2.0	**364.9**	**55/49**	**0.6**	371.0	58/52	0.6	377.2	60/56
8	344.9	44/36	2.1	355.4	50/42	2.1	**365.7**	**56/49**	**0.6**	371.8	58/53	0.6	378.0	61/56
6	345.6	45/36	2.1	356.1	50/42	2.1	**366.4**	**56/49**	**0.6**	372.6	59/53	0.6	378.7	61/57
4	346.3	45/36	2.1	356.8	51/43	2.1	**367.1**	**56/50**	**0.6**	373.3	59/53	0.6	379.5	61/57
2	347.0	45/36	2.1	357.6	51/43	2.1	**367.9**	**57/50**	**0.6**	374.1	59/54	0.6	380.3	62/57
0	347.7	46/37	2.1	358.3	51/43	2.1	**368.6**	**57/50**	**0.6**	374.9	60/54	0.6	381.1	62/58

P/C above 1013 + 0.2
P/C below 1013 - 0.4

Full length take off (TORA 3049m) from Rwy 04R requires lineup via RWY 14 on request to ATC.

Assumes ships 60FT AMSL in shipping channel.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY S/M) RWY 09

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.029% DN
TOR	2134m (7001ft)	**ED**	2134m (7001ft)	**TOD**	2134m (7001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES NO SHIPS IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		12/		227.8	17/11	1.8	**236.8**	**22/11**	**0.6**	242.3	25/14	0.5	247.7	28/17
66		13/		235.7	19/11	1.9	**245.0**	**24/11**	**0.6**	250.8	27/15	0.5	256.2	30/18
62		15/		244.8	21/11	1.9	**254.4**	**26/14**	**0.6**	260.2	29/17	0.6	265.8	32/20
58		17/		253.4	22/11	2.0	**263.2**	**28/16**	**0.6**	269.2	31/19	0.6	275.1	34/22
54		18/		255.4	23/12	3.1	**270.8**	**29/17**	**0.6**	276.9	32/21	0.6	283.1	34/24
52		18/		254.2	24/13	4.0	**274.2**	**30/17**	**0.6**	280.6	33/20	0.6	286.8	35/23
50		18/		253.0	24/14	5.0	**277.9**	**29/17**	**0.6**	284.3	32/21	0.6	290.7	35/24
48		19/		251.9	25/14	5.9	**281.5**	**30/18**	**0.6**	287.9	33/21	0.7	294.4	35/25
46		20/		250.8	25/15	6.8	**284.9**	**31/19**	**0.7**	291.5	34/22	0.7	298.0	36/25
44		20/		249.6	26/16	7.7	**288.3**	**32/19**	**0.7**	294.9	34/23	0.7	301.6	37/26
42		20/		248.3	25/17	8.7	**291.7**	**31/20**	**0.7**	298.3	34/23	0.7	305.0	36/27
40		21/		247.1	26/18	9.6	**295.3**	**32/21**	**0.7**	302.1	34/24	0.7	308.9	37/28
38		21/		245.9	27/19	10.6	**299.1**	**32/21**	**0.7**	305.9	35/25	0.7	312.8	38/28
36		22/		244.8	28/20	11.6	**302.9**	**33/22**	**0.7**	309.9	36/26	0.7	316.8	39/29
34		22/		243.7	27/21	12.6	**306.5**	**33/23**	**0.7**	313.6	35/26	0.7	320.6	38/30
32		22/		243.6	28/22	13.3	**310.0**	**33/23**	**0.7**	317.1	36/27	0.7	324.2	39/30
30		23/		242.6	28/23	14.2	**313.8**	**34/24**	**0.7**	321.0	37/28	0.7	328.1	39/31
28		23/		245.9	29/23	13.8	**314.7**	**34/24**	**0.7**	321.9	37/28	0.7	329.1	40/31
26		23/		249.3	29/23	13.2	**315.5**	**35/25**	**0.7**	322.7	37/28	0.7	330.0	40/32
24		24/		252.8	29/23	12.7	**316.4**	**35/25**	**0.7**	323.6	38/28	0.7	330.8	40/32
22		24/		256.4	29/23	12.2	**317.2**	**35/25**	**0.7**	324.5	38/29	0.7	331.7	40/32
20		24/		260.0	30/23	11.6	**318.1**	**35/25**	**0.7**	325.4	38/29	0.7	332.6	41/32
18		24/		263.6	30/23	11.1	**319.0**	**36/26**	**0.7**	326.3	38/29	0.7	333.4	41/33
16	200.1	25/23	13.5	267.6	30/23	10.5	**320.0**	**36/26**	**0.7**	327.2	39/29	0.7	334.4	41/33
14	203.5	25/23	13.6	271.6	31/23	9.8	**320.8**	**36/26**	**0.7**	328.1	39/30	0.7	335.3	41/33
12	206.9	25/23	13.8	275.7	31/23	9.2	**321.7**	**36/26**	**0.7**	329.0	39/30	0.7	336.2	42/33
10	210.4	26/23	13.9	279.8	31/23	8.6	**322.6**	**37/27**	**0.7**	330.0	39/30	0.7	337.1	42/34
8	214.0	26/23	14.0	284.1	31/23	7.9	**323.6**	**37/27**	**0.7**	330.9	40/31	0.7	338.1	42/34
6	217.7	26/23	14.1	288.4	32/23	7.2	**324.5**	**37/27**	**0.7**	331.8	40/31	0.7	339.1	43/34
4	221.4	26/23	14.3	292.7	32/23	6.5	**325.4**	**38/27**	**0.7**	332.8	40/31	0.7	340.1	43/35
2	225.2	27/23	14.4	297.2	32/23	5.8	**326.4**	**38/28**	**0.7**	333.7	41/31	0.7	341.0	43/35
0	229.1	27/23	14.4	301.3	32/23	5.2	**327.4**	**38/28**	**0.7**	334.7	41/32	0.7	342.0	43/35

P/C above 1013 + 0.1
P/C below 1013 - 0.5

Assumes no ships in shipping channel. **FOR CARD ACFT see additional rwy data from CARD for higher shipping obsts.**

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY L) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.04% DN
TOR	3073m (10082ft)	**ED**	3073m (10082ft)	**TOD**	3073m (10082ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	262.4	28/17	1.8	271.2	34/23	1.7	**279.9**	**39/29**	**0.5**	285.0	41/32	0.6	290.5	43/35
66	271.4	31/19	1.8	280.6	36/24	1.8	**289.7**	**41/30**	**0.5**	295.1	43/33	0.6	300.7	46/36
62	281.8	33/21	2.0	291.6	38/27	1.9	**301.0**	**44/33**	**0.6**	306.6	46/36	0.6	312.5	48/39
58	291.3	34/23	2.1	301.7	39/29	2.0	**311.7**	**44/35**	**0.6**	317.6	46/38	0.6	323.7	49/41
54	299.1	35/25	2.1	309.8	40/31	2.2	**321.0**	**45/37**	**0.6**	327.0	47/40	0.6	333.1	49/43
52	303.0	35/24	2.2	313.8	41/30	2.3	**325.1**	**46/36**	**0.6**	331.3	48/39	0.6	337.3	50/42
50	306.3	35/25	2.2	317.3	40/31	2.4	**329.3**	**45/37**	**0.6**	335.5	47/40	0.6	341.7	50/43
48	310.3	36/26	2.2	321.4	41/32	2.4	**333.4**	**46/38**	**0.6**	339.8	48/41	0.6	345.9	50/44
46	314.1	37/26	2.3	325.4	42/32	2.4	**337.5**	**47/38**	**0.6**	343.8	49/41	0.6	350.1	51/45
44	318.0	37/27	2.3	329.4	43/33	2.4	**341.4**	**48/39**	**0.6**	347.8	50/42	0.6	354.2	52/45
42	321.3	37/28	2.3	333.0	42/34	2.5	**345.4**	**47/40**	**0.7**	352.0	49/43	0.7	358.5	51/46
40	325.3	37/29	2.3	337.0	43/35	2.5	**349.6**	**48/41**	**0.7**	356.2	50/44	0.7	363.0	52/47
38	329.5	38/29	2.3	341.2	43/35	2.5	**353.8**	**48/41**	**0.7**	360.7	51/45	0.7	367.6	53/48
36	333.6	39/30	2.4	345.4	44/36	2.6	**358.3**	**49/42**	**0.7**	365.3	51/45	0.7	372.3	54/49
34	337.5	38/31	2.4	349.4	43/37	2.6	**362.5**	**48/43**	**0.7**	369.7	51/46	0.7	376.8	53/50
32	341.1	39/32	2.4	353.2	44/38	2.7	**366.6**	**49/44**	**0.7**	373.9	51/47	0.7	381.2	54/50
30	345.1	40/32	2.5	357.4	45/38	2.7	**371.1**	**50/45**	**0.7**	378.5	52/48	0.7	385.9	54/51
28	346.1	40/33	2.5	358.4	45/39	2.8	**372.2**	**50/45**	**0.8**	379.7	52/48	0.7	387.1	55/51
26	347.0	40/33	2.5	359.3	45/39	2.8	**373.2**	**51/45**	**0.8**	380.7	53/48	0.8	388.8	55/52
24	347.9	40/33	2.5	360.3	46/39	2.8	**374.2**	**51/45**	**0.8**	381.7	53/49	0.9	390.6	55/52
22	348.8	41/33	2.5	361.3	46/39	2.8	**375.2**	**51/46**	**0.8**	382.8	53/49	1.0	392.5	55/52
20	349.7	41/33	2.5	362.3	46/40	2.8	**376.3**	**51/46**	**0.8**	383.8	54/49	1.1	394.3	55/52
18	350.7	41/34	2.5	363.3	47/40	2.8	**377.4**	**52/46**	**0.8**	384.9	54/49	1.1	396.1	55/52
16	351.6	41/34	2.5	364.3	47/40	2.8	**378.5**	**52/46**	**0.8**	386.0	54/50	1.1	397.2	56/52
14	352.6	42/34	2.5	365.3	47/40	2.9	**379.6**	**52/47**	**0.8**	387.3	54/50	1.1	398.2	56/53
12	353.6	42/35	2.6	366.4	47/41	2.9	**380.7**	**52/47**	**0.9**	389.2	54/50	1.0	399.3	56/53
10	354.5	42/35	2.6	367.4	48/41	2.9	**381.8**	**53/47**	**0.9**	391.1	55/50	0.9	400.4	56/53
8	355.5	43/35	2.6	368.5	48/41	2.9	**382.9**	**53/47**	**1.0**	393.1	55/50	0.8	401.5	57/53
6	356.6	43/35	2.6	369.6	48/41	2.9	**384.0**	**53/48**	**1.1**	395.1	55/50	0.8	402.6	57/54
4	357.6	43/36	2.6	370.7	48/42	2.9	**385.2**	**54/48**	**1.1**	396.6	55/51	0.7	403.7	57/54
2	358.7	43/36	2.6	371.8	49/42	2.9	**386.4**	**54/48**	**1.1**	397.7	55/51	0.7	404.9	58/54
0	359.7	44/36	2.7	373.0	49/42	3.0	**388.0**	**54/49**	**1.1**	398.9	56/51	0.7	406.0	58/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

Assumes 60ft AMSL ships in shipping channel. **FOR CARD ACFT see additional rwy data from CARD for higher shipping obsts.**

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY N) RWY 22L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.05% UP
TOR	3050m (10006ft)	**ED**	3050m (10006ft)	**TOD**	3050m (10006ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	257.4	28/17	1.4	264.3	34/23	1.3	**270.9**	**40/29**	**0.4**	274.7	42/33	0.4	278.4	44/36
66	268.4	30/18	1.5	275.8	36/24	1.4	**282.8**	**42/30**	**0.4**	286.9	44/33	0.4	290.9	47/37
62	280.2	33/21	1.6	288.1	38/26	1.5	**295.5**	**44/33**	**0.4**	299.9	47/36	0.4	304.1	49/39
58	289.7	33/23	2.0	299.6	39/28	1.6	**307.4**	**44/35**	**0.5**	311.9	47/38	0.4	316.3	49/41
54	297.4	34/24	2.1	308.1	39/30	1.9	**317.8**	**45/36**	**0.5**	322.5	47/40	0.5	327.1	50/43
52	301.3	35/24	2.2	312.2	40/29	2.1	**322.6**	**46/35**	**0.5**	327.3	48/39	0.5	332.0	51/42
50	304.6	35/24	2.2	315.6	40/30	2.4	**327.4**	**45/36**	**0.5**	332.3	47/40	0.5	337.0	50/43
48	308.5	35/25	2.2	319.7	41/31	2.4	**331.7**	**46/37**	**0.5**	337.0	48/40	0.5	341.8	51/44
46	312.4	36/26	2.2	323.6	41/32	2.4	**335.7**	**47/38**	**0.6**	341.7	49/41	0.5	346.6	51/44
44	316.1	37/27	2.3	327.6	42/33	2.4	**339.7**	**47/39**	**0.6**	346.0	50/42	0.5	351.3	52/45
42	319.5	36/27	2.3	331.2	41/33	2.5	**343.5**	**46/39**	**0.7**	350.1	49/43	0.6	356.2	51/46
40	323.5	37/28	2.3	335.2	42/34	2.5	**347.7**	**47/40**	**0.7**	354.3	49/43	0.7	361.0	52/47
38	327.6	38/29	2.4	339.4	43/35	2.5	**351.9**	**48/41**	**0.7**	358.7	50/44	0.7	365.6	52/48
36	331.7	39/30	2.4	343.5	44/36	2.6	**356.3**	**49/42**	**0.7**	363.3	51/45	0.7	370.3	53/48
34	335.6	38/30	2.4	347.5	43/36	2.6	**360.5**	**48/43**	**0.7**	367.6	50/46	0.7	374.8	53/49
32	339.3	39/31	2.4	351.3	44/37	2.6	**364.5**	**49/43**	**0.7**	371.8	51/47	0.7	379.1	53/50
30	343.2	39/32	2.4	355.4	45/38	2.7	**369.0**	**50/44**	**0.7**	376.4	52/47	0.7	383.8	54/51
28	344.2	40/32	2.4	356.4	45/38	2.7	**370.1**	**50/44**	**0.7**	377.5	52/48	0.7	384.9	54/51
26	345.0	40/32	2.5	357.4	45/38	2.7	**371.1**	**50/45**	**0.8**	378.6	52/48	0.7	385.9	55/51
24	345.9	40/32	2.5	358.3	45/39	2.8	**372.1**	**50/45**	**0.8**	379.6	53/48	0.8	387.1	55/51
22	346.9	40/33	2.5	359.3	46/39	2.8	**373.1**	**51/45**	**0.8**	380.7	53/48	0.8	388.9	55/52
20	347.8	41/33	2.5	360.3	46/39	2.8	**374.2**	**51/45**	**0.8**	381.7	53/49	0.9	390.7	55/52
18	348.7	41/33	2.5	361.3	46/39	2.8	**375.2**	**51/46**	**0.8**	382.8	53/49	1.0	392.4	55/52
16	349.7	41/33	2.5	362.3	46/40	2.8	**376.3**	**51/46**	**0.8**	383.9	54/49	1.0	393.4	56/52
14	350.6	41/34	2.5	363.3	47/40	2.8	**377.4**	**52/46**	**0.8**	385.0	54/49	0.9	394.3	56/52
12	351.6	42/34	2.5	364.3	47/40	2.8	**378.5**	**52/46**	**0.8**	386.1	54/50	0.9	395.1	56/53
10	352.6	42/34	2.6	365.4	47/40	2.9	**379.7**	**52/47**	**0.8**	387.5	55/50	0.9	396.0	57/53
8	353.6	42/35	2.6	366.4	48/41	2.9	**380.8**	**53/47**	**0.9**	389.4	55/50	0.7	396.6	57/53
6	354.6	42/35	2.6	367.5	48/41	2.9	**381.9**	**53/47**	**0.9**	390.5	55/50	0.7	397.3	57/54
4	355.6	43/35	2.6	368.6	48/41	2.9	**383.0**	**53/48**	**0.9**	391.5	55/51	0.7	398.0	58/54
2	356.6	43/35	2.6	369.7	48/41	2.9	**384.2**	**53/48**	**0.8**	392.4	56/51	0.6	398.6	58/54
0	357.7	43/36	2.6	370.9	49/42	2.9	**385.4**	**54/48**	**0.8**	393.3	56/51	0.6	399.3	58/55

P/C above 1013 + 0.2
P/C below 1013 - 0.5

Assumes 60ft AMSL ships in shipping channel. **FOR CARD ACFT see additional rwy data from CARD for higher shipping obsts.**

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY N) RWY 22R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.013% DN
TOR	2396m (7860ft)	**ED**	2396m (7860ft)	**TOD**	2396m (7860ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	232.5	17/11	1.8	241.3	22/11	1.8	**250.2**	**28/16**	**0.5**	255.3	30/19	0.5	260.8	33/22
66	240.6	19/11	1.8	249.8	24/11	1.8	**258.6**	**30/17**	**0.5**	264.0	32/20	0.6	269.6	35/24
62	249.9	21/11	1.9	259.2	26/13	1.8	**268.4**	**32/20**	**0.6**	274.0	35/23	0.6	280.0	38/26
58	258.5	22/11	1.9	268.1	28/15	1.9	**277.8**	**34/22**	**0.6**	283.7	36/25	0.6	289.9	39/28
54	261.6	23/12	2.8	275.8	29/17	2.0	**285.8**	**34/23**	**0.6**	292.0	37/27	0.6	298.4	39/30
52	260.4	24/13	3.8	279.4	30/16	2.0	**289.6**	**35/23**	**0.6**	295.8	38/26	0.7	302.3	40/29
50	259.1	24/14	4.7	282.8	29/17	2.1	**293.5**	**35/23**	**0.6**	299.8	37/27	0.7	306.4	40/30
48	258.0	25/14	5.7	286.4	30/18	2.2	**297.2**	**35/24**	**0.6**	303.6	38/27	0.7	310.4	40/31
46	256.8	25/15	6.6	290.0	31/18	2.2	**301.0**	**36/25**	**0.6**	307.4	39/28	0.7	314.2	41/31
44	255.6	26/16	7.6	293.4	31/19	2.2	**304.5**	**37/25**	**0.7**	311.2	39/29	0.7	318.1	42/32
42	254.4	25/17	8.3	296.0	31/20	2.4	**308.0**	**36/26**	**0.7**	314.8	39/29	0.7	321.8	41/33
40	253.1	26/18	9.3	299.7	32/21	2.4	**311.9**	**37/27**	**0.7**	318.8	40/30	0.7	325.8	42/34
38	251.9	27/19	10.3	303.5	32/21	2.5	**315.8**	**38/28**	**0.7**	322.8	40/31	0.7	330.0	43/35
36	250.7	28/20	11.3	307.4	33/22	2.5	**320.0**	**39/29**	**0.7**	326.9	41/32	0.7	334.0	44/35
34	249.6	27/21	12.3	311.1	32/23	2.5	**323.7**	**38/29**	**0.7**	330.8	40/33	0.7	337.9	43/36
32	249.5	28/22	13.0	314.6	33/23	2.5	**327.3**	**39/30**	**0.7**	334.4	41/33	0.7	341.6	44/37
30	248.5	28/23	14.0	318.5	34/24	2.6	**331.3**	**39/31**	**0.7**	338.4	42/34	0.7	345.5	44/37
28	251.9	29/23	13.5	319.4	34/24	2.6	**332.2**	**40/31**	**0.7**	339.3	42/34	0.7	346.5	45/38
26	255.4	29/23	13.0	320.3	34/24	2.6	**333.1**	**40/31**	**0.7**	340.2	42/34	0.7	347.4	45/38
24	258.9	29/23	12.4	321.1	35/25	2.6	**333.9**	**40/31**	**0.7**	341.1	43/35	0.7	348.3	45/38
22	262.6	30/23	11.9	322.0	35/25	2.6	**334.8**	**40/32**	**0.7**	342.0	43/35	0.7	349.3	45/39
20	266.2	30/23	11.3	322.8	35/25	2.6	**335.7**	**41/32**	**0.7**	342.8	43/35	0.7	350.2	46/39
18	270.0	30/23	10.7	323.7	36/25	2.6	**336.6**	**41/32**	**0.7**	343.8	43/35	0.7	351.1	46/39
16	274.0	30/23	10.1	324.6	36/26	2.6	**337.5**	**41/32**	**0.7**	344.7	44/36	0.7	352.1	46/39
14	278.0	31/23	9.5	325.5	36/26	2.6	**338.5**	**41/33**	**0.7**	345.6	44/36	0.7	353.0	47/40
12	282.2	31/23	8.8	326.4	36/26	2.6	**339.4**	**42/33**	**0.7**	346.6	44/36	0.7	354.0	47/40
10	286.4	31/23	8.2	327.4	37/26	2.6	**340.4**	**42/33**	**0.7**	347.5	45/36	0.8	355.0	47/40
8	290.7	31/23	7.5	328.3	37/27	2.6	**341.3**	**42/33**	**0.7**	348.5	45/37	0.8	356.0	47/40
6	295.1	32/23	6.8	329.3	37/27	2.6	**342.3**	**43/34**	**0.7**	349.5	45/37	0.8	357.0	48/41
4	299.5	32/23	6.2	330.3	37/27	2.6	**343.2**	**43/34**	**0.7**	350.5	45/37	0.8	358.1	48/41
2	303.0	32/23	5.6	331.2	38/27	2.6	**344.2**	**43/34**	**0.7**	351.5	46/38	0.8	359.1	48/41
0	306.5	32/23	5.1	332.1	38/28	2.6	**345.2**	**43/34**	**0.7**	352.5	46/38	0.8	360.2	49/42

P/C above 1013 + 0.1
P/C below 1013 - 0.5

Assumes 60ft AMSL ships in shipping channel. **FOR CARD ACFT see additional rwy data from CARD for higher shipping obsts.**

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

F/L (TWY D) RWY 27

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.029% UP
TOR	2134m (7001ft)	**ED**	2134m (7001ft)	**TOD**	2134m (7001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ASSUMES SHIPS 60FT AMSL IN SHIPPING CHANNEL

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		12/		227.6	17/11	1.8	**236.6**	**22/11**	**0.6**	242.1	25/14	0.5	247.5	27/17
66		13/		235.4	18/11	1.9	**244.8**	**24/11**	**0.6**	250.5	27/15	0.6	256.0	29/18
62		15/		244.6	21/11	1.9	**254.2**	**26/14**	**0.6**	260.0	29/17	0.6	265.6	32/20
58		16/		253.2	22/11	2.0	**263.0**	**28/16**	**0.6**	268.9	31/19	0.6	274.8	33/22
54		17/		255.3	23/12	3.0	**270.5**	**29/17**	**0.6**	276.7	32/21	0.6	282.8	34/24
52		18/		254.1	24/13	4.0	**274.0**	**30/17**	**0.6**	280.3	33/20	0.6	286.5	35/23
50		18/		252.9	24/14	4.9	**277.6**	**29/17**	**0.6**	284.0	32/21	0.6	290.4	35/24
48		19/		251.8	25/14	5.9	**281.2**	**30/18**	**0.6**	287.6	33/21	0.7	294.1	35/25
46		19/		250.6	25/15	6.8	**284.6**	**31/19**	**0.7**	291.2	34/22	0.7	297.8	36/25
44		20/		249.5	26/16	7.7	**288.0**	**32/19**	**0.7**	294.7	34/23	0.7	301.3	37/26
42		20/		248.2	25/17	8.6	**291.4**	**31/20**	**0.7**	298.0	34/23	0.7	304.7	36/27
40		21/		247.0	26/18	9.6	**295.0**	**32/21**	**0.7**	301.8	34/24	0.7	308.6	37/28
38		21/		245.8	27/19	10.6	**298.8**	**32/21**	**0.7**	305.6	35/25	0.7	312.5	38/28
36		22/		244.7	28/20	11.6	**302.6**	**33/22**	**0.7**	309.6	36/26	0.7	316.5	39/29
34		22/		243.6	27/21	12.5	**306.2**	**33/23**	**0.7**	313.2	35/26	0.7	320.3	38/30
32		22/		243.5	28/22	13.2	**309.7**	**33/24**	**0.7**	316.8	36/27	0.7	323.9	39/30
30		23/		242.5	28/23	14.2	**313.4**	**34/24**	**0.7**	320.7	37/28	0.7	327.8	39/31
28		23/		245.8	29/23	13.7	**314.3**	**34/24**	**0.7**	321.6	37/28	0.7	328.8	40/31
26		23/		249.2	29/23	13.2	**315.2**	**35/25**	**0.7**	322.4	37/28	0.7	329.7	40/32
24		24/		252.7	29/23	12.7	**316.1**	**35/25**	**0.7**	323.3	37/28	0.7	330.5	40/32
22		24/		256.2	29/23	12.1	**316.9**	**35/25**	**0.7**	324.1	38/29	0.7	331.4	40/32
20		24/		259.8	30/23	11.6	**317.8**	**35/25**	**0.7**	325.0	38/29	0.7	332.2	41/32
18		24/		263.5	30/23	11.0	**318.7**	**36/26**	**0.7**	325.9	38/29	0.7	333.1	41/33
16		25/		267.4	30/23	10.4	**319.6**	**36/26**	**0.7**	326.8	39/30	0.7	334.0	41/33
14	203.3	25/23	13.6	271.5	31/23	9.8	**320.5**	**36/26**	**0.7**	327.8	39/30	0.7	335.0	41/33
12	206.8	25/23	13.8	275.6	31/23	9.2	**321.4**	**36/26**	**0.7**	328.7	39/30	0.7	335.9	42/33
10	210.3	25/23	13.9	279.7	31/23	8.5	**322.3**	**37/27**	**0.7**	329.7	39/30	0.7	336.8	42/34
8	213.9	26/23	14.0	284.0	31/23	7.8	**323.2**	**37/27**	**0.7**	330.6	40/31	0.7	337.8	42/34
6	217.6	26/23	14.1	288.3	32/23	7.2	**324.2**	**37/27**	**0.7**	331.5	40/31	0.7	338.8	43/34
4	221.3	26/23	14.3	292.6	32/23	6.5	**325.1**	**38/27**	**0.7**	332.4	40/31	0.7	339.7	43/35
2	225.1	27/23	14.4	297.1	32/23	5.8	**326.1**	**38/28**	**0.7**	333.4	41/31	0.7	340.7	43/35
0	229.0	27/23	14.4	301.2	32/23	5.2	**327.0**	**38/28**	**0.7**	334.4	41/32	0.7	341.7	43/35

P/C above 1013 + 0.1
P/C below 1013 - 0.5

Assumes 60ft AMSL ships in shipping channel. **FOR CARD ACFT see additional rwy data from CARD for higher shipping obsts.**

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BOSTON**

A/D Elev **20ft** **(KBOS)**

TWY C (100M) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.041% UP
TOR	3000m (9842ft)	**ED**	3000m (9842ft)	**TOD**	3000m (9842ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.1	27/16	1.7	267.4	33/22	1.5	**274.7**	**38/28**	**0.4**	279.0	41/31	0.4	283.4	43/34
66	267.8	29/17	1.8	277.0	35/23	1.8	**285.9**	**40/29**	**0.5**	290.5	43/32	0.5	295.1	45/35
62	278.1	32/20	1.9	287.8	37/25	1.9	**297.2**	**43/31**	**0.6**	302.9	45/34	0.5	307.7	47/37
58	287.6	33/22	2.1	298.0	38/27	2.0	**307.8**	**43/34**	**0.6**	313.7	45/37	0.6	319.6	48/40
54	295.3	34/23	2.1	305.9	39/29	2.2	**316.8**	**44/35**	**0.6**	322.9	46/38	0.6	329.2	48/42
52	299.2	34/23	2.2	310.0	40/28	2.2	**321.0**	**45/35**	**0.6**	327.2	47/38	0.6	333.4	49/41
50	302.4	34/23	2.2	313.3	39/29	2.4	**325.2**	**44/35**	**0.6**	331.5	46/38	0.6	337.7	49/42
48	306.3	35/24	2.2	317.4	40/30	2.4	**329.4**	**45/36**	**0.6**	335.7	47/39	0.6	341.9	49/43
46	310.2	36/25	2.2	321.4	41/31	2.4	**333.4**	**46/37**	**0.6**	339.8	48/40	0.6	346.0	50/43
44	313.9	36/26	2.3	325.2	42/32	2.4	**337.3**	**47/38**	**0.6**	343.7	49/41	0.6	350.1	51/44
42	317.1	36/26	2.4	328.9	41/32	2.5	**341.2**	**46/39**	**0.7**	347.7	48/42	0.7	354.2	50/45
40	321.1	36/27	2.4	332.9	42/33	2.5	**345.2**	**47/39**	**0.7**	351.9	49/42	0.7	358.6	51/46
38	325.2	37/28	2.4	337.0	42/34	2.5	**349.5**	**47/40**	**0.7**	356.2	50/43	0.7	363.1	52/47
36	329.4	38/29	2.4	341.2	43/35	2.5	**353.8**	**48/41**	**0.7**	360.7	50/44	0.7	367.8	53/47
34	333.2	37/29	2.4	345.1	42/35	2.6	**357.9**	**47/42**	**0.7**	365.0	50/45	0.7	372.2	52/48
32	336.8	38/30	2.4	348.8	43/36	2.6	**361.9**	**48/42**	**0.7**	369.1	50/46	0.7	376.4	53/49
30	340.8	39/31	2.4	353.0	44/37	2.7	**366.3**	**49/43**	**0.7**	373.7	51/46	0.7	381.1	53/50
28	341.7	39/31	2.4	353.9	44/37	2.7	**367.4**	**49/43**	**0.7**	374.8	52/47	0.7	382.2	54/50
26	342.6	39/31	2.5	354.9	44/37	2.7	**368.4**	**49/44**	**0.7**	375.8	52/47	0.8	383.3	54/50
24	343.5	39/31	2.5	355.8	45/38	2.7	**369.4**	**50/44**	**0.8**	376.9	52/47	0.7	384.3	54/51
22	344.4	40/32	2.5	356.8	45/38	2.7	**370.4**	**50/44**	**0.8**	377.9	52/47	0.8	385.4	55/51
20	345.3	40/32	2.5	357.7	45/38	2.7	**371.4**	**50/45**	**0.8**	379.0	53/48	0.8	386.5	55/51
18	346.2	40/32	2.5	358.7	45/38	2.8	**372.5**	**51/45**	**0.8**	380.1	53/48	0.8	388.0	55/51
16	347.2	40/32	2.5	359.7	46/39	2.8	**373.5**	**51/45**	**0.8**	381.2	53/48	0.9	389.9	55/51
14	348.1	41/33	2.5	360.7	46/39	2.8	**374.6**	**51/45**	**0.8**	382.2	53/48	1.0	391.8	55/52
12	349.1	41/33	2.5	361.7	46/39	2.8	**375.7**	**51/46**	**0.8**	383.3	54/49	1.0	393.7	55/52
10	350.1	41/33	2.5	362.8	47/39	2.8	**376.8**	**52/46**	**0.8**	384.4	54/49	1.1	395.7	56/52
8	351.0	42/33	2.6	363.8	47/40	2.8	**378.0**	**52/46**	**0.8**	385.6	54/49	1.1	396.9	56/52
6	352.0	42/34	2.6	364.9	47/40	2.8	**379.1**	**52/46**	**0.8**	386.7	55/50	1.1	398.0	56/52
4	353.0	42/34	2.6	366.0	47/40	2.9	**380.3**	**53/47**	**0.8**	388.6	55/50	1.1	399.1	56/53
2	354.0	42/34	2.6	367.1	48/40	2.9	**381.4**	**53/47**	**0.9**	390.6	55/50	1.0	400.3	57/53
0	355.1	43/35	2.6	368.2	48/41	2.9	**382.5**	**53/47**	**1.0**	392.6	55/50	0.9	401.4	57/53

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 33L

Take-off starts from where taxiway C joins the runway.

BRITISH AIRWAYS **B747-400** LANDING DATA **BALTIMORE**

A/D Elev **146ft** Max wt Permitted (For pre flt planning) **285,760kg** **(KBWI)**

RUNWAY (STATUS)	**10**	**15R**	**28**	**33L**
Landing Distance Available	3033m / 9951ft	2529m / 8297ft	2987m / 9800ft	2529m / 8297ft
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	276.0 (255.0)	6kt (1kt)	276.0 (255.0)
25F Zero HW wt or TW (Autoland)	8kt (2kt)			
25F Slippery Zero HW wt or TW (Manual)	250.0	203.0	240.0	203.0
25F Slippery Zero HW wt or TW (Autoland)	250.0			
30F Zero HW wt or TW (Manual)	8kt (2kt)	280.8 (272.0)	6kt (1kt)	280.8 (272.0)
30F Zero HW wt or TW (Autoland)	8kt (2kt)			
30F Slippery Zero HW wt or TW (Manual)	276.0	226.0	265.0	226.0
30F Slippery Zero HW wt or TW (Autoland)	276.0			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BALTIMORE**

A/D Elev **146ft** **WASHINGTON INTL (KBWI)**

F/L PSN (TWY F) RWY 10

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.019% UP
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.8	30/19	1.8	274.6	35/25	1.7	**283.2**	**40/30**	**0.5**	288.5	42/33	0.6	294.0	44/36
66	274.9	32/21	1.9	284.2	37/26	1.8	**293.2**	**42/32**	**0.6**	298.7	45/35	0.6	304.4	47/38
62	285.6	35/23	1.9	295.3	40/28	1.9	**304.7**	**45/34**	**0.6**	310.4	47/37	0.6	316.3	49/40
58	295.2	35/25	2.0	305.4	40/31	2.0	**315.6**	**45/37**	**0.6**	321.5	48/40	0.6	327.7	50/43
54	303.1	36/27	2.1	313.6	41/33	2.3	**324.9**	**46/39**	**0.6**	331.0	49/42	0.6	337.1	51/45
52	307.1	37/26	2.1	317.8	42/32	2.3	**329.2**	**47/38**	**0.6**	335.1	49/41	0.6	341.4	51/44
50	310.5	36/27	2.2	321.3	42/33	2.4	**333.2**	**46/39**	**0.6**	339.6	49/42	0.6	345.8	51/45
48	314.4	37/28	2.2	325.5	42/33	2.4	**337.4**	**47/39**	**0.6**	343.7	50/42	0.6	350.1	52/46
46	318.4	38/28	2.2	329.6	43/34	2.4	**341.5**	**48/40**	**0.6**	347.9	50/43	0.7	354.4	53/47
44	322.2	39/29	2.2	333.4	44/35	2.4	**345.4**	**49/41**	**0.7**	352.0	51/44	0.7	358.6	53/47
42	325.7	38/30	2.3	337.2	43/36	2.5	**349.6**	**48/42**	**0.7**	356.2	50/45	0.7	363.0	52/48
40	329.9	39/31	2.3	341.3	44/37	2.5	**353.8**	**49/43**	**0.7**	360.7	51/46	0.7	367.6	53/49
38	333.9	40/31	2.3	345.4	45/37	2.6	**358.2**	**50/43**	**0.7**	365.2	52/47	0.7	372.3	54/50
36	338.0	41/32	2.3	349.7	46/38	2.6	**362.7**	**51/44**	**0.7**	369.9	53/47	0.7	377.2	55/51
34	342.0	40/33	2.4	353.8	45/39	2.6	**367.0**	**50/45**	**0.7**	374.4	52/48	0.7	381.7	54/52
32	345.7	40/34	2.4	357.7	45/40	2.7	**371.2**	**51/46**	**0.8**	378.7	53/49	0.7	386.0	55/52
30	349.8	41/34	2.4	362.0	46/40	2.8	**375.8**	**51/47**	**0.8**	383.3	54/50	1.0	393.5	55/53
28	351.1	41/35	2.5	363.5	47/41	2.8	**377.4**	**52/47**	**0.8**	384.9	54/50	1.1	396.2	55/53
26	352.0	42/35	2.5	364.4	47/41	2.8	**378.4**	**52/47**	**0.8**	386.0	54/50	1.1	397.2	56/53
24	353.0	42/35	2.5	365.4	47/41	2.8	**379.5**	**52/47**	**0.8**	387.1	54/50	1.1	398.2	56/53
22	353.9	42/35	2.5	366.4	47/41	2.8	**380.6**	**52/48**	**0.8**	388.9	55/51	1.0	399.2	56/53
20	354.8	42/36	2.5	367.5	48/42	2.8	**381.6**	**53/48**	**0.9**	390.8	55/51	1.0	400.3	56/54
18	355.8	43/36	2.5	368.5	48/42	2.8	**382.7**	**53/48**	**1.0**	392.7	55/51	0.9	401.3	57/54
16	356.8	43/36	2.5	369.5	48/42	2.9	**383.8**	**53/48**	**1.1**	394.6	55/51	0.8	402.4	57/54
14	357.8	43/36	2.6	370.6	49/43	2.9	**384.9**	**54/49**	**1.1**	396.3	55/51	0.7	403.5	57/54
12	358.8	44/37	2.6	371.7	49/43	2.9	**386.0**	**54/49**	**1.1**	397.3	55/51	0.7	404.5	57/55
10	359.8	44/37	2.6	372.7	49/43	2.9	**387.2**	**54/49**	**1.1**	398.4	56/52	0.7	405.6	58/55
8	360.9	44/37	2.6	373.8	49/43	3.1	**389.2**	**54/49**	**1.0**	399.5	56/52	0.7	406.8	58/55
6	361.9	44/37	2.6	375.0	50/44	3.2	**391.1**	**54/50**	**1.0**	400.6	56/52	0.7	407.9	58/56
4	363.0	45/38	2.6	376.1	50/44	3.4	**393.1**	**54/50**	**0.9**	401.7	56/52	0.7	409.1	59/56
2	364.0	45/38	2.6	377.2	50/44	3.6	**395.2**	**55/50**	**0.8**	402.9	57/53	0.7	410.3	59/56
0	365.1	45/38	2.7	378.4	50/44	3.7	**396.7**	**55/50**	**0.7**	404.0	57/53	0.7	411.4	59/56

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BALTIMORE**

A/D Elev **146ft** **WASHINGTON INTL (KBWI)**

F/L (TWY P) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.105% DN
TOR	2896m (9501ft)	**ED**	2621m (8599ft)	**TOD**	2896m (9501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.0	19/11	1.8	260.8	24/13	1.9	**270.3**	**30/19**	**0.5**	275.5	32/22	0.5	280.9	34/25
66	260.6	21/11	1.8	269.7	26/14	2.0	**279.7**	**32/20**	**0.5**	285.1	34/23	0.6	290.8	37/26
62	270.4	24/11	1.9	280.1	29/17	2.1	**290.6**	**34/23**	**0.6**	296.3	37/26	0.6	302.2	39/29
58	279.4	25/13	2.0	289.3	30/19	2.2	**300.1**	**35/25**	**0.6**	305.9	37/28	0.6	311.9	40/31
54	286.8	25/15	2.1	297.1	30/20	2.2	**308.1**	**36/27**	**0.6**	314.1	38/30	0.6	320.4	41/33
52	290.6	26/14	2.1	301.0	31/20	2.2	**312.2**	**36/26**	**0.6**	318.3	39/29	0.6	324.6	41/32
50	293.8	26/15	2.1	304.3	31/20	2.3	**315.7**	**36/27**	**0.6**	321.9	38/30	0.7	328.4	41/33
48	297.6	26/15	2.1	308.2	31/21	2.3	**319.8**	**37/27**	**0.6**	326.1	39/31	0.6	332.5	42/34
46	301.3	27/16	2.2	312.1	32/22	2.3	**323.8**	**38/28**	**0.6**	330.2	40/31	0.6	336.5	42/35
44	304.9	28/17	2.2	315.8	33/23	2.4	**327.7**	**38/29**	**0.6**	334.0	41/32	0.7	340.5	43/35
42	307.9	27/17	2.3	319.2	32/23	2.4	**331.3**	**37/30**	**0.6**	337.7	40/33	0.7	344.3	42/36
40	311.2	28/18	2.4	323.2	33/24	2.4	**335.3**	**38/30**	**0.7**	341.8	41/34	0.7	348.5	43/37
38	310.1	29/19	3.4	327.3	34/25	2.4	**339.5**	**39/31**	**0.7**	346.0	41/34	0.7	352.8	44/38
36	309.0	29/20	4.5	331.4	35/26	2.4	**343.6**	**40/32**	**0.7**	350.3	42/35	0.7	357.2	45/38
34	308.0	29/22	5.4	335.2	34/26	2.5	**347.7**	**39/33**	**0.7**	354.4	41/36	0.7	361.5	44/39
32	307.9	29/22	6.2	338.9	34/27	2.5	**351.4**	**40/33**	**0.7**	358.3	42/37	0.7	365.6	45/40
30	307.0	30/24	7.2	342.9	35/28	2.5	**355.6**	**40/34**	**0.7**	362.6	43/37	0.8	370.1	45/41
28	309.8	30/24	6.9	344.2	35/28	2.6	**357.0**	**41/34**	**0.7**	364.1	43/38	0.8	371.6	46/41
26	312.8	31/24	6.5	345.1	36/28	2.6	**358.0**	**41/35**	**0.7**	365.1	43/38	0.8	372.6	46/41
24	316.0	31/24	6.0	346.0	36/28	2.6	**358.9**	**41/35**	**0.7**	366.1	44/38	0.8	373.7	46/41
22	319.2	31/24	5.5	346.9	36/29	2.6	**359.9**	**42/35**	**0.7**	367.1	44/38	0.8	374.7	46/42
20	322.5	31/24	5.1	347.9	36/29	2.6	**360.9**	**42/35**	**0.7**	368.1	44/39	0.8	375.7	47/42
18	325.8	32/24	4.6	348.8	37/29	2.6	**361.9**	**42/36**	**0.7**	369.2	45/39	0.8	376.8	47/42
16	337.8	32/23	2.4	349.8	37/29	2.6	**362.9**	**42/36**	**0.7**	370.2	45/39	0.8	377.9	47/42
14	338.8	32/23	2.4	350.7	37/30	2.6	**363.9**	**43/36**	**0.7**	371.3	45/39	0.8	379.0	48/43
12	339.7	32/24	2.4	351.7	37/30	2.6	**364.9**	**43/36**	**0.7**	372.3	45/40	0.8	380.1	48/43
10	340.7	33/24	2.4	352.6	38/30	2.7	**366.0**	**43/37**	**0.7**	373.4	46/40	0.8	381.2	48/43
8	341.6	33/24	2.4	353.6	38/30	2.7	**367.1**	**43/37**	**0.7**	374.5	46/40	0.8	382.3	48/43
6	342.5	33/24	2.4	354.6	38/31	2.7	**368.1**	**44/37**	**0.8**	375.6	46/40	0.8	383.5	49/44
4	343.5	33/25	2.4	355.7	39/31	2.7	**369.2**	**44/37**	**0.8**	376.8	46/41	0.8	384.6	49/44
2	344.5	34/25	2.4	356.7	39/31	2.7	**370.4**	**44/38**	**0.8**	377.9	47/41	0.8	385.8	49/44
0	345.5	34/25	2.5	357.8	39/31	2.7	**371.5**	**45/38**	**0.8**	379.1	47/41	0.8	387.0	49/45

P/C above 1013 + 0.1
P/C below 1013 - 1.3

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BALTIMORE**

A/D Elev **146ft** **WASHINGTON INTL (KBWI)**

F/L (TWY V) RWY 28

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.124% UP
TOR	3200m (10498ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.0	30/19	1.8	273.8	35/25	1.7	**282.4**	**40/30**	**0.5**	287.0	42/33	0.4	291.4	45/37
66	274.1	32/20	1.9	283.4	37/26	1.8	**292.4**	**42/32**	**0.6**	297.9	44/35	0.6	303.4	47/38
62	284.7	34/23	1.9	294.4	40/28	1.9	**303.8**	**45/34**	**0.6**	309.6	47/37	0.6	315.4	49/40
58	294.2	35/25	2.1	304.5	40/31	2.0	**314.7**	**45/37**	**0.6**	320.6	47/40	0.6	326.8	50/43
54	302.1	36/27	2.1	312.7	41/32	2.3	**324.0**	**46/38**	**0.6**	330.1	48/42	0.6	336.2	50/45
52	306.1	37/26	2.1	316.8	42/32	2.3	**328.3**	**47/38**	**0.6**	334.2	49/41	0.6	340.5	51/44
50	309.5	36/27	2.2	320.4	41/33	2.4	**332.3**	**46/38**	**0.6**	338.6	49/41	0.6	344.8	51/45
48	313.5	37/27	2.2	324.5	42/33	2.4	**336.4**	**47/39**	**0.6**	342.8	49/42	0.6	349.1	52/46
46	317.4	38/28	2.2	328.6	43/34	2.4	**340.6**	**48/40**	**0.6**	346.9	50/43	0.7	353.4	52/46
44	321.3	39/29	2.2	332.5	44/35	2.4	**344.5**	**49/41**	**0.7**	351.0	51/44	0.7	357.6	53/47
42	324.7	38/30	2.3	336.2	43/36	2.5	**348.6**	**48/42**	**0.7**	355.2	50/45	0.7	362.0	52/48
40	328.8	39/31	2.3	340.3	44/36	2.5	**352.8**	**49/42**	**0.7**	359.6	51/46	0.7	366.5	53/49
38	332.9	40/31	2.3	344.4	45/37	2.6	**357.2**	**50/43**	**0.7**	364.1	52/46	0.7	371.2	54/50
36	337.0	40/32	2.3	348.7	45/38	2.6	**361.7**	**50/44**	**0.7**	368.8	53/47	0.7	376.0	55/51
34	341.0	39/33	2.4	352.8	45/39	2.6	**366.0**	**50/45**	**0.7**	373.2	52/48	0.7	380.6	54/51
32	344.6	40/33	2.4	356.6	45/39	2.7	**370.1**	**50/46**	**0.7**	377.5	53/49	0.7	384.9	55/52
30	348.7	41/34	2.4	360.9	46/40	2.8	**374.7**	**51/46**	**0.8**	382.2	53/49	0.9	391.6	55/53
28	350.1	41/34	2.5	362.4	46/41	2.8	**376.3**	**51/47**	**0.8**	383.8	54/50	1.1	394.3	55/53
26	351.0	42/35	2.5	363.3	47/41	2.8	**377.3**	**52/47**	**0.8**	384.8	54/50	1.1	396.1	55/53
24	351.9	42/35	2.5	364.3	47/41	2.8	**378.3**	**52/47**	**0.8**	385.9	54/50	1.1	397.1	56/53
22	352.8	42/35	2.5	365.3	47/41	2.8	**379.4**	**52/47**	**0.8**	387.0	54/51	1.1	398.1	56/53
20	353.8	42/35	2.5	366.3	48/42	2.8	**380.5**	**53/48**	**0.8**	388.8	55/51	1.0	399.2	56/54
18	354.7	43/36	2.5	367.4	48/42	2.8	**381.5**	**53/48**	**0.9**	390.7	55/51	1.0	400.2	56/54
16	355.7	43/36	2.5	368.4	48/42	2.8	**382.6**	**53/48**	**1.0**	392.6	55/51	0.9	401.3	57/54
14	356.7	43/36	2.6	369.5	48/42	2.8	**383.7**	**53/49**	**1.1**	394.5	55/51	0.8	402.3	57/54
12	357.7	43/37	2.6	370.5	49/43	2.9	**384.8**	**54/49**	**1.1**	396.2	55/51	0.7	403.4	57/55
10	358.7	44/37	2.6	371.6	49/43	2.9	**385.9**	**54/49**	**1.1**	397.3	55/51	0.7	404.5	58/55
8	359.7	44/37	2.6	372.7	49/43	2.9	**387.2**	**54/49**	**1.1**	398.4	56/52	0.7	405.6	58/55
6	360.8	44/37	2.6	373.8	49/43	3.1	**389.2**	**54/49**	**1.0**	399.5	56/52	0.7	406.8	58/55
4	361.8	45/38	2.6	374.9	50/44	3.3	**391.2**	**54/50**	**0.9**	400.6	56/52	0.7	407.9	58/56
2	362.9	45/38	2.6	376.1	50/44	3.4	**393.2**	**55/50**	**0.9**	401.8	57/53	0.7	409.1	59/56
0	364.0	45/38	2.6	377.2	50/44	3.6	**395.2**	**55/50**	**0.8**	402.9	57/53	0.7	410.3	59/56

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 28.

Note - full length dept from RWY 28 requires RWY to be crossed via TWY V and line up beyond landing threshold. If take off is required without crossing RWY from TWY B/C ensure intersection data is requested.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BALTIMORE**

A/D Elev **146ft** **WASHINGTON INTL (KBWI)**

F/L (TWY D1) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2896m (9501ft)	**ED**	2682m (8799ft)	**TOD**	2896m (9501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.2	20/11	1.1	257.6	26/15	0.9	**262.2**	**32/21**	**0.3**	264.7	35/25	0.2	267.1	38/28
66	260.8	22/11	1.8	270.0	28/16	1.3	**276.6**	**34/22**	**0.3**	279.2	37/26	0.3	281.7	40/29
62	270.6	25/13	1.9	280.3	30/18	2.1	**290.9**	**36/24**	**0.3**	293.7	39/27	0.3	296.3	42/31
58	279.6	26/15	2.0	289.6	31/20	2.2	**300.4**	**36/26**	**0.6**	306.2	39/29	0.4	309.8	42/33
54	287.0	27/16	2.1	297.3	32/22	2.2	**308.5**	**37/28**	**0.6**	314.5	40/31	0.6	320.8	42/35
52	290.8	28/15	2.1	301.2	33/21	2.3	**312.5**	**38/27**	**0.6**	318.7	40/30	0.6	324.9	43/34
50	293.9	27/16	2.1	304.5	32/22	2.3	**316.0**	**37/28**	**0.6**	322.2	40/31	0.7	328.7	42/35
48	297.7	28/17	2.2	308.5	33/23	2.3	**320.1**	**38/29**	**0.6**	326.4	41/32	0.6	332.8	43/35
46	301.5	29/18	2.2	312.3	34/23	2.4	**324.1**	**39/30**	**0.6**	330.5	42/33	0.6	336.9	44/36
44	305.1	29/18	2.2	316.1	35/24	2.4	**328.0**	**40/30**	**0.6**	334.3	42/34	0.7	340.8	45/37
42	308.1	29/19	2.3	319.4	34/25	2.4	**331.6**	**39/31**	**0.7**	338.1	41/34	0.7	344.7	44/38
40	311.9	29/20	2.3	323.4	35/26	2.5	**335.7**	**40/32**	**0.7**	342.2	42/35	0.7	348.9	45/38
38	315.9	30/20	2.3	327.5	35/26	2.5	**339.8**	**41/33**	**0.7**	346.3	43/36	0.7	353.2	45/39
36	320.0	31/21	2.3	331.7	36/27	2.5	**344.0**	**41/33**	**0.7**	350.6	44/37	0.7	357.6	46/40
34	323.8	30/22	2.3	335.5	35/28	2.5	**348.0**	**41/34**	**0.7**	354.8	43/37	0.7	361.9	45/41
32	327.4	31/22	2.4	339.2	36/28	2.5	**351.8**	**41/35**	**0.7**	358.7	44/38	0.7	366.0	46/41
30	331.4	32/23	2.4	343.2	37/29	2.6	**356.0**	**42/36**	**0.7**	363.0	44/39	0.8	370.5	47/42
28	332.7	32/23	2.4	344.5	37/29	2.6	**357.4**	**42/36**	**0.7**	364.5	45/39	0.8	372.0	47/43
26	333.5	32/24	2.4	345.4	37/30	2.6	**358.3**	**43/36**	**0.7**	365.5	45/39	0.8	373.0	48/43
24	334.4	32/24	2.4	346.3	38/30	2.6	**359.3**	**43/36**	**0.7**	366.5	45/40	0.8	374.1	48/43
22	335.3	33/24	2.4	347.2	38/30	2.6	**360.3**	**43/37**	**0.7**	367.5	46/40	0.8	375.1	48/43
20	336.2	33/24	2.4	348.1	38/30	2.6	**361.2**	**43/37**	**0.7**	368.5	46/40	0.8	376.2	48/44
18	337.1	33/25	2.4	349.1	38/31	2.6	**362.2**	**44/37**	**0.7**	369.6	46/41	0.8	377.2	49/44
16	338.0	33/25	2.4	350.0	39/31	2.6	**363.2**	**44/37**	**0.7**	370.6	46/41	0.8	378.3	49/44
14	339.0	34/25	2.4	351.0	39/31	2.7	**364.3**	**44/38**	**0.7**	371.7	47/41	0.8	379.4	49/44
12	339.9	34/25	2.4	351.9	39/31	2.7	**365.3**	**45/38**	**0.7**	372.7	47/41	0.8	380.5	49/45
10	340.8	34/26	2.4	352.9	39/32	2.7	**366.4**	**45/38**	**0.7**	373.8	47/42	0.8	381.6	50/45
8	341.8	34/26	2.4	353.9	40/32	2.7	**367.4**	**45/38**	**0.8**	374.9	47/42	0.8	382.8	50/45
6	342.7	35/26	2.4	354.9	40/32	2.7	**368.5**	**45/39**	**0.8**	376.1	48/42	0.8	383.9	50/45
4	343.7	35/26	2.4	355.9	40/32	2.7	**369.6**	**46/39**	**0.8**	377.2	48/42	0.8	385.0	50/46
2	344.7	35/27	2.5	357.0	41/33	2.8	**370.8**	**46/39**	**0.8**	378.4	48/43	0.8	386.2	51/46
0	345.7	36/27	2.5	358.0	41/33	2.8	**371.9**	**46/40**	**0.8**	379.5	49/43	0.8	387.7	51/46

P/C above 1013 + 0.2
P/C below 1013 - 0.4

Min Acceleration Height 1900ft

CLEVELAND-HOPKINS INTL (KCLE)

CLEVELAND-HOPKINS INTL and runways 06L, 06R, 24L, 24R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHARLOTTE (KCLT)**

A/D Elev **749ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	05	18L	18C	23
Landing Distance Available	2161m / 7092ft	2644m / 8675ft	3048m / 10000ft	2286m / 7500ft
Slope	.53UP	.27DN	.50DN	.53DN
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	236.0 (213.0)	0kt (267.0)	7kt (2kt)	252.0 (228.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	213.0	249.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	250.0 (230.0)	0kt (280.8)	7kt (2kt)	268.0 (244.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	197.0	238.0	274.0	206.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHARLOTTE (KCLT)**

A/D Elev **749ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY (STATUS) Landing Distance Available Notes	**36C** 3048m / 10000ft	**36R** 2557m / 8389ft		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	7kt (2kt)	256.0 (230.0)		
25F Zero HW wt or TW (Autoland)	7kt (2kt)	256.0 (230.0)		
25F Slippery Zero HW wt or TW (Manual)	249.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)	249.0	NOT AUTH		
30F Zero HW wt or TW (Manual)	7kt (2kt)	272.0 (248.0)		
30F Zero HW wt or TW (Autoland)	7kt (2kt)	272.0 (248.0)		
30F Slippery Zero HW wt or TW (Manual)	274.0	208.0		
30F Slippery Zero HW wt or TW (Autoland)	274.0	208.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **COLORADO SPRINGS (KCOS)**

A/D Elev **6187ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	17L	17R	35L	35R
Landing Distance Available	4115m / 13500ft	3359m / 11020ft	3359m / 11020ft	4115m / 13500ft
Slope	.62 DN	1.19 DN	1.19 UP	.62 UP
Notes				
WAT LIMIT °C : Man / Auto	41°	41°	41°	41°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	4kt (280.0)	4kt (280.0)	15kt (9kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	235.0	235.0	0kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (9kt)	4kt (280.8)	4kt (280.8)	15kt (9kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	258.0	258.0	0kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DENVER INTERNATIONAL (KDEN)**

A/D Elev **5431ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	07	08	16L	16R
Landing Distance Available	3658m/12001ft	3658m / 12001ft	3658m/12001ft	4877m / 16000ft
Slope	0.04 UP	0.50 DN	0.03 UP	.03 UP
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	44°	44°	44°	44°
25F Zero HW wt or TW (Manual)	12kt (4kt)	12kt (4kt)	12kt (4kt)	15kt
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	262.0	262.0	262.0	5kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	12kt (4kt)	12kt (4kt)	12kt (4kt)	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8	280.8	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DENVER INTERNATIONAL (KDEN)**

A/D Elev **5431ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	17L	17R	25	26
Landing Distance Available	3658m / 12001ft	3658m/12001ft	3658m / 12001ft	3658m/12001ft
Slope	0.35 UP	0.47 UP	0.42 DN	0.50 UP
Notes				
WAT LIMIT °C : Man / Auto	44°	44°	44°	44°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	12kt (4kt)	12kt (4kt)	12kt (4kt)	12kt (4kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	262.0	262.0	262.0	262.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	12kt (4kt)	12kt (4kt)	12kt (4kt)	12kt (4kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8	280.8	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DENVER INTERNATIONAL (KDEN)**

A/D Elev **5431ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	34L	34R	35L	35R
Landing Distance Available	4877m / 16000ft	3658m / 12001ft	3658m/12001ft	3658m / 12001ft
Slope	.03DN	0.03 DN	0.47 DN	0.35 DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	44°/44°	44°/44°	44°/44°	44°/44°
25F Zero HW wt or TW (Manual)	15kt	12kt (4kt)	12kt (4kt)	12kt (4kt)
25F Zero HW wt or TW (Autoland)	15kt	12kt (4kt)	12kt (4kt)	12kt (4kt)
25F Slippery Zero HW wt or TW (Manual)	5kt	262.0	262.0	262.0
25F Slippery Zero HW wt or TW (Autoland)	5kt	262.0	262.0	262.0
30F Zero HW wt or TW (Manual)	15kt	12kt (4kt)	12kt (4kt)	12kt (4kt)
30F Zero HW wt or TW (Autoland)	15kt	12kt (4kt)	12kt (4kt)	12kt (4kt)
30F Slippery Zero HW wt or TW (Manual)	5kt	280.8	280.8	280.8
30F Slippery Zero HW wt or TW (Autoland)	5kt	280.8	280.8	280.8
Red'n per extra kt TW kg		5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY B10) RWY 07

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.042% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	251.0	29/18	1.5	258.7	33/24	1.2	**264.6**	**39/29**	**0.3**	267.6	42/32	0.3	270.6	44/35
58	258.8	29/20	1.6	266.8	34/25	1.6	**274.7**	**39/30**	**0.4**	278.4	41/33	0.3	281.6	43/36
54	266.1	31/20	1.7	274.4	36/25	1.7	**282.8**	**41/31**	**0.5**	287.7	43/33	0.4	291.7	45/36
52	269.5	32/21	1.7	278.0	37/26	1.7	**286.5**	**42/31**	**0.5**	291.5	44/34	0.5	296.3	46/37
50	273.0	33/22	1.7	281.7	38/27	1.7	**290.4**	**43/32**	**0.5**	295.4	45/35	0.5	300.7	47/38
48	276.5	34/23	1.8	285.3	38/28	1.8	**294.1**	**43/33**	**0.5**	299.3	45/36	0.5	304.5	47/39
46	279.1	33/23	1.8	288.3	37/29	1.9	**297.8**	**42/34**	**0.5**	303.0	44/37	0.5	308.3	46/40
44	282.4	34/24	1.9	291.8	38/30	1.9	**301.5**	**43/35**	**0.5**	306.7	45/38	0.5	312.1	47/40
42	286.0	34/25	1.9	295.5	39/30	1.9	**305.2**	**44/36**	**0.5**	310.6	46/38	0.5	316.0	48/41
40	289.0	34/26	1.9	298.7	39/31	2.1	**309.0**	**43/36**	**0.5**	314.4	45/39	0.6	320.1	47/42
38	292.7	35/27	2.0	302.5	40/32	2.1	**313.0**	**44/37**	**0.6**	318.5	46/40	0.6	324.2	48/43
36	296.4	36/27	2.0	306.4	40/33	2.1	**317.0**	**45/38**	**0.6**	322.6	47/41	0.6	328.4	49/44
34	300.2	37/28	2.0	310.2	41/34	2.2	**321.0**	**46/39**	**0.6**	326.6	48/42	0.6	332.4	50/45
32	303.7	37/29	2.0	313.9	42/34	2.2	**324.8**	**47/40**	**0.6**	330.6	49/43	0.6	336.2	51/46
30	306.6	37/30	2.1	317.0	41/35	2.3	**328.3**	**46/41**	**0.6**	334.0	48/43	0.6	339.9	50/46
28	309.3	37/30	2.1	319.9	42/36	2.2	**331.1**	**47/41**	**0.6**	336.9	49/44	0.6	342.7	51/47
26	311.9	38/31	2.1	322.6	43/36	2.3	**333.9**	**48/42**	**0.6**	339.7	50/45	0.6	345.6	52/48
24	314.6	39/31	2.2	325.4	43/37	2.3	**336.7**	**48/42**	**0.6**	342.5	50/45	0.6	348.5	52/48
22	316.8	39/32	2.2	327.7	44/37	2.3	**339.0**	**49/43**	**0.6**	344.8	51/46	0.6	350.9	53/49
20	319.1	40/32	2.2	330.1	44/38	2.2	**341.3**	**49/43**	**0.6**	347.2	51/46	0.6	353.2	53/49
18	321.3	40/33	2.2	332.2	45/38	2.3	**343.5**	**50/44**	**0.6**	349.5	52/47	0.6	355.6	54/50
16	323.0	39/33	2.2	334.1	43/39	2.3	**345.5**	**48/44**	**0.6**	351.6	50/47	0.6	357.7	52/50
14	324.9	39/33	2.2	336.0	44/39	2.3	**347.5**	**49/45**	**0.6**	353.6	51/48	0.6	359.8	53/51
12	325.8	39/34	2.2	336.9	44/39	2.3	**348.4**	**49/45**	**0.6**	354.5	51/48	0.6	360.8	53/51
10	326.8	40/34	2.2	337.8	44/40	2.3	**349.4**	**49/45**	**0.6**	355.5	51/48	0.6	361.8	53/51
8	327.7	40/34	2.2	338.7	45/40	2.3	**350.3**	**49/45**	**0.6**	356.5	52/48	0.6	362.8	54/51
6	328.8	42/34	2.2	339.7	47/40	2.3	**351.3**	**52/46**	**0.6**	357.4	54/49	0.6	363.8	56/52
4	329.8	42/35	2.2	340.7	47/41	2.3	**352.2**	**52/46**	**0.6**	358.4	54/49	0.7	364.9	56/52
2	330.7	43/35	2.2	341.6	47/41	2.3	**353.2**	**52/46**	**0.6**	359.5	54/49	0.6	365.9	57/52
0	331.6	43/35	2.2	342.5	48/41	2.3	**354.2**	**53/47**	**0.6**	360.5	55/50	0.7	367.0	57/53

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 07 - Rwy 07

SIDs approved - PIKE (PUEBLO TRANSITION) /PLAINS / YELLOWSTONE.

SIDs NOT approved - DEN /PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY M) RWY 08

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.5% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3962m (12998ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	257.8	28/18	1.6	266.0	32/23	1.0	**271.0**	**38/29**	**0.0**	271.0	41/32	0.0	271.0	44/35
58	266.0	28/19	1.7	274.5	33/25	1.7	**283.2**	**37/30**	**0.1**	283.9	40/33	0.0	283.9	43/36
54	273.4	30/20	1.8	282.4	35/25	1.8	**291.4**	**39/30**	**0.4**	295.7	41/33	0.0	295.7	44/36
52	277.0	31/20	1.8	286.1	35/26	1.8	**295.1**	**40/31**	**0.5**	300.4	42/33	0.1	301.3	45/37
50	280.8	32/21	1.8	290.0	36/26	1.8	**299.2**	**41/31**	**0.5**	304.4	43/34	0.2	306.8	46/37
48	284.3	33/22	1.9	293.7	37/27	1.9	**303.0**	**42/32**	**0.5**	308.4	44/35	0.4	312.4	46/38
46	287.2	31/23	1.8	296.4	36/28	1.9	**306.1**	**40/33**	**0.5**	311.3	42/36	0.5	316.5	44/39
44	290.7	32/23	1.9	300.1	37/29	2.0	**309.9**	**41/34**	**0.5**	315.1	43/37	0.5	320.4	45/40
42	294.4	33/24	1.9	303.8	37/30	2.0	**313.7**	**42/35**	**0.5**	319.1	44/38	0.5	324.5	46/40
40	297.6	33/25	1.9	307.2	37/30	2.0	**317.4**	**42/36**	**0.6**	323.0	44/38	0.6	328.7	46/41
38	301.4	34/26	2.0	311.2	38/31	2.1	**321.5**	**43/37**	**0.6**	327.2	45/39	0.6	332.8	47/42
36	305.2	34/27	2.0	315.1	39/32	2.1	**325.7**	**44/37**	**0.6**	331.4	46/40	0.6	336.9	48/43
34	309.1	35/27	2.0	319.1	40/33	2.1	**329.8**	**45/38**	**0.6**	335.3	47/41	0.6	341.0	49/44
32	312.7	36/28	2.0	322.9	41/34	2.1	**333.6**	**46/39**	**0.6**	339.3	48/42	0.6	344.9	50/45
30	315.9	35/29	2.1	326.4	40/34	2.2	**337.2**	**45/40**	**0.6**	343.0	47/42	0.6	348.7	49/45
28	318.7	36/29	2.1	329.3	41/35	2.2	**340.1**	**46/40**	**0.6**	345.8	48/43	0.6	351.6	50/46
26	321.5	37/30	2.1	332.1	41/36	2.2	**342.9**	**46/41**	**0.6**	348.8	48/44	0.6	354.6	50/47
24	324.3	37/31	2.1	334.8	42/36	2.2	**345.8**	**47/41**	**0.6**	351.7	49/44	0.6	357.7	51/47
22	326.5	38/31	2.1	337.1	42/37	2.2	**348.1**	**47/42**	**0.6**	354.1	49/45	0.6	360.2	51/48
20	328.8	38/31	2.1	339.4	43/37	2.2	**350.5**	**48/42**	**0.6**	356.5	50/45	0.6	362.7	52/48
18	331.1	39/32	2.1	341.7	43/38	2.2	**352.9**	**48/43**	**0.6**	358.9	50/46	0.6	365.2	52/49
16	332.9	37/32	2.1	343.6	42/38	2.3	**354.9**	**47/43**	**0.6**	361.1	49/46	0.6	367.5	51/49
14	334.8	38/33	2.1	345.5	42/38	2.3	**357.0**	**47/44**	**0.6**	363.3	49/47	0.6	369.7	51/50
12	335.7	38/33	2.2	346.5	42/39	2.3	**358.0**	**47/44**	**0.6**	364.3	49/47	0.6	370.7	52/50
10	336.6	38/33	2.2	347.4	43/39	2.3	**359.0**	**48/44**	**0.6**	365.3	50/47	0.7	371.8	52/50
8	337.5	38/33	2.2	348.4	43/39	2.3	**360.0**	**48/45**	**0.6**	366.3	50/47	0.7	372.9	52/50
6	338.5	40/34	2.2	349.3	45/39	2.3	**360.9**	**50/45**	**0.6**	367.3	52/48	0.7	373.8	54/51
4	339.5	41/34	2.2	350.3	46/40	2.3	**362.0**	**51/45**	**0.6**	368.4	53/48	0.7	374.9	55/51
2	340.4	41/34	2.2	351.3	46/40	2.3	**363.0**	**51/45**	**0.7**	369.5	53/48	0.7	376.1	55/51
0	341.4	41/34	2.2	352.3	46/40	2.4	**364.1**	**51/46**	**0.7**	370.6	53/49	0.7	377.2	55/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 08 - Rwy 08

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE /EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) /SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY F12) RWY 16L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.033% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	251.1	29/18	1.5	258.8	34/24	1.5	**266.4**	**39/29**	**0.5**	270.9	41/32	0.0	271.0	44/35
58	258.9	29/20	1.6	266.8	34/25	1.6	**274.8**	**39/30**	**0.5**	279.6	41/33	0.4	283.9	43/36
54	266.1	31/20	1.7	274.5	36/26	1.7	**282.8**	**41/31**	**0.5**	287.8	43/33	0.5	292.8	45/36
52	269.5	32/21	1.7	278.1	37/26	1.7	**286.5**	**42/32**	**0.5**	291.6	44/34	0.5	296.7	46/37
50	273.1	33/22	1.7	281.8	38/27	1.7	**290.5**	**43/32**	**0.5**	295.5	45/35	0.5	300.8	47/38
48	276.6	34/23	1.8	285.4	39/28	1.8	**294.2**	**43/33**	**0.5**	299.4	45/36	0.5	304.6	47/39
46	279.1	33/23	1.9	288.4	37/29	1.9	**297.9**	**42/34**	**0.5**	303.1	44/37	0.5	308.4	46/40
44	282.5	34/24	1.9	291.9	38/30	1.9	**301.6**	**43/35**	**0.5**	306.8	45/38	0.5	312.2	47/40
42	286.1	34/25	1.9	295.6	39/30	1.9	**305.3**	**44/36**	**0.5**	310.7	46/38	0.5	316.1	48/41
40	289.1	34/26	1.9	298.8	39/31	2.1	**309.1**	**43/36**	**0.5**	314.5	45/39	0.6	320.2	48/42
38	292.8	35/27	2.0	302.6	40/32	2.1	**313.1**	**44/37**	**0.6**	318.6	46/40	0.6	324.3	48/43
36	296.5	36/27	2.0	306.5	40/33	2.1	**317.1**	**45/38**	**0.6**	322.7	47/41	0.6	328.5	49/44
34	300.3	37/28	2.0	310.3	41/34	2.2	**321.1**	**46/39**	**0.6**	326.7	48/42	0.6	332.5	50/45
32	303.8	37/29	2.0	314.0	42/34	2.2	**324.9**	**47/40**	**0.6**	330.7	49/43	0.6	336.3	51/46
30	306.7	37/30	2.1	317.2	41/35	2.2	**328.4**	**46/41**	**0.6**	334.1	48/43	0.6	340.0	50/46
28	309.4	37/30	2.1	320.0	42/36	2.2	**331.2**	**47/41**	**0.6**	337.0	49/44	0.6	342.8	51/47
26	312.0	38/31	2.1	322.7	43/36	2.3	**334.0**	**48/42**	**0.6**	339.9	50/45	0.6	345.7	52/48
24	314.7	39/31	2.2	325.5	43/37	2.3	**336.8**	**48/42**	**0.6**	342.7	50/45	0.6	348.6	52/48
22	316.9	39/32	2.2	327.8	44/37	2.3	**339.1**	**49/43**	**0.6**	344.9	51/46	0.6	351.0	53/49
20	319.2	40/32	2.2	330.2	44/38	2.2	**341.4**	**49/43**	**0.6**	347.3	51/46	0.6	353.3	53/49
18	321.4	40/33	2.2	332.3	45/38	2.3	**343.6**	**50/44**	**0.6**	349.6	52/47	0.6	355.7	54/50
16	323.1	39/33	2.2	334.2	43/39	2.3	**345.6**	**48/44**	**0.6**	351.7	50/47	0.6	357.8	52/50
14	325.1	39/33	2.2	336.1	44/39	2.3	**347.6**	**49/45**	**0.6**	353.7	51/48	0.6	359.9	53/51
12	326.0	39/34	2.2	337.0	44/39	2.3	**348.6**	**49/45**	**0.6**	354.6	51/48	0.6	360.9	53/51
10	326.9	40/34	2.2	337.9	44/40	2.3	**349.5**	**49/45**	**0.6**	355.6	51/48	0.6	361.9	53/51
8	327.8	40/34	2.2	338.9	45/40	2.3	**350.5**	**49/46**	**0.6**	356.6	52/48	0.6	362.9	54/51
6	328.9	42/35	2.2	339.9	47/40	2.3	**351.4**	**52/46**	**0.6**	357.5	54/49	0.6	363.9	56/52
4	329.9	42/35	2.2	340.8	47/41	2.3	**352.4**	**52/46**	**0.6**	358.6	54/49	0.6	365.0	56/52
2	330.8	43/35	2.2	341.7	47/41	2.3	**353.3**	**52/46**	**0.6**	359.6	55/49	0.7	366.1	57/52
0	331.7	43/35	2.2	342.7	48/41	2.3	**354.3**	**53/47**	**0.6**	360.6	55/50	0.7	367.1	57/53

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 16L - Rwy 16L

SIDs approved - EEONS / EMMYS / EPKEE / EXTAN /JMPRS / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / BRYCC / CONNR / COORZ / FOOOT / RIKKK / SPAZZ (ZAPAA TRANSITION) / SOLAR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY WE) RWY 16R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.031% UP
TOR	4877m (16000ft)	**ED**	4877m (16000ft)	**TOD**	4877m (16000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	271.0	44/36	0.0	271.0	44/42	0.0	**271.0**	**44/44**	**0.0**	271.0	44/44	0.0	271.0	44/44
58	283.9	43/36	0.0	283.9	48/42	0.0	**283.9**	**48/48**	**0.0**	283.9	48/48	0.0	283.9	48/48
54	295.7	44/36	0.0	295.7	50/42	0.0	**295.7**	**51/49**	**0.0**	295.7	51/51	0.0	295.7	51/51
52	301.3	45/37	0.0	301.3	51/43	0.0	**301.3**	**52/49**	**0.0**	301.3	52/52	0.0	301.3	52/52
50	306.8	45/38	0.0	306.8	51/44	0.0	**306.8**	**54/50**	**0.0**	306.8	54/53	0.0	306.8	54/54
48	312.4	46/38	0.0	312.4	52/44	0.0	**312.4**	**55/51**	**0.0**	312.4	55/54	0.0	312.4	55/55
46	316.1	44/39	0.4	318.0	50/45	0.0	**318.0**	**57/51**	**0.0**	318.0	57/54	0.0	318.0	57/57
44	320.6	45/40	0.6	323.5	51/46	0.0	**323.5**	**57/52**	**0.0**	323.5	58/55	0.0	323.5	58/58
42	324.6	46/41	0.9	329.1	51/46	0.0	**329.1**	**58/53**	**0.0**	329.1	60/56	0.0	329.1	60/59
40	328.8	46/42	1.2	334.7	51/47	0.0	**334.7**	**57/54**	**0.0**	334.7	60/57	0.0	334.7	61/60
38	332.9	47/42	1.6	340.8	52/48	0.0	**340.8**	**58/54**	**0.0**	340.8	61/57	0.0	340.8	63/61
36	337.1	48/43	2.0	346.9	52/48	0.0	**346.9**	**59/55**	**0.0**	346.9	62/58	0.0	346.9	64/61
34	341.1	49/44	2.1	351.4	53/49	0.3	**352.8**	**59/56**	**0.0**	352.8	62/59	0.0	352.8	65/62
32	345.0	49/45	2.1	355.5	54/50	0.6	**358.5**	**60/56**	**0.0**	358.5	63/59	0.0	358.5	66/63
30	348.9	49/46	2.1	359.5	53/51	0.8	**363.7**	**59/57**	**0.0**	363.7	62/60	0.0	363.7	65/63
28	351.8	49/46	2.2	362.6	54/51	1.1	**368.1**	**59/57**	**0.0**	368.1	62/61	0.0	368.1	66/64
26	354.8	50/47	2.2	365.8	55/52	1.2	**372.0**	**60/58**	**0.0**	372.0	63/61	0.0	372.0	66/65
24	357.9	51/48	2.2	369.1	55/53	1.3	**375.5**	**61/59**	**0.0**	375.5	64/62	0.0	375.5	67/65
22	360.3	51/48	2.3	371.7	56/53	1.4	**378.7**	**61/59**	**0.0**	378.7	64/62	0.0	378.7	67/66
20	362.9	52/49	2.3	374.4	56/54	1.4	**381.6**	**62/60**	**0.0**	381.6	65/63	0.0	381.6	68/66
18	365.4	52/49	2.3	377.1	57/54	1.4	**384.3**	**62/60**	**0.0**	384.3	65/63	0.0	384.3	68/67
16	367.7	50/50	2.4	379.5	55/55	1.5	**386.8**	**60/60**	**0.0**	386.8	64/64	0.0	386.8	67/67
14	369.9	51/50	2.4	381.8	55/55	1.5	**389.1**	**61/61**	**0.0**	389.1	64/64	0.0	389.1	67/68
12	371.0	51/50	2.4	382.8	56/55	1.3	**389.1**	**61/61**	**0.0**	389.1	65/65	0.0	389.1	68/68
10	372.0	51/50	2.4	383.9	56/56	1.0	**389.1**	**62/62**	**0.0**	389.1	65/65	0.0	389.1	68/69
8	373.1	52/51	2.4	385.0	56/56	0.8	**389.1**	**62/62**	**0.0**	389.1	65/66	0.0	389.1	69/69
6	374.1	54/51	2.4	386.1	59/56	0.6	**389.2**	**65/63**	**0.0**	389.2	68/66	0.0	389.2	71/70
4	375.2	54/51	2.4	387.4	59/56	0.4	**389.2**	**65/63**	**0.0**	389.2	69/66	0.0	389.2	72/70
2	376.3	55/52	2.6	389.2	59/57	0.0	**389.2**	**66/64**	**0.0**	389.2	69/67	0.0	389.2	72/70
0	377.4	55/52	2.4	389.2	60/57	0.0	**389.2**	**66/64**	**0.0**	389.2	70/67	0.0	389.2	73/71

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 16R - Rwy 16R

SIDs approved - EEONS / EMMYS / EPKEE / EXTAN /JMPRS / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / BRYCC / CONNR / COORZ / FOOOT / RIKKK / SPAZZ (ZAPAA TRANSITION) / SOLAR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY ED) RWY 17L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.35% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	248.8	28/18	1.5	256.5	33/23	1.5	**264.0**	**38/28**	**0.5**	268.6	40/31	0.2	271.0	43/34
58	256.3	28/19	1.6	264.5	33/25	1.6	**272.4**	**38/30**	**0.5**	277.1	40/33	0.5	282.0	42/35
54	263.5	30/20	1.7	272.0	35/25	1.7	**280.3**	**40/30**	**0.5**	285.2	42/33	0.5	290.3	44/36
52	266.8	31/20	1.7	275.5	36/26	1.7	**283.9**	**41/31**	**0.5**	289.0	43/34	0.5	294.1	45/37
50	270.4	32/21	1.8	279.3	37/27	1.7	**287.8**	**42/32**	**0.5**	292.9	44/35	0.5	298.1	46/37
48	273.7	33/22	1.8	282.9	38/27	1.7	**291.5**	**43/33**	**0.5**	296.7	45/35	0.5	302.0	47/38
46	276.1	32/23	1.8	285.3	37/28	2.0	**295.2**	**41/33**	**0.5**	300.4	43/36	0.5	305.7	45/39
44	279.5	33/24	1.9	288.8	37/29	2.0	**298.8**	**42/34**	**0.5**	304.1	44/37	0.5	309.5	46/40
42	283.0	34/24	1.9	292.5	38/30	2.0	**302.5**	**43/35**	**0.5**	307.9	45/38	0.6	313.4	47/41
40	286.0	34/25	1.9	295.6	38/31	2.1	**306.0**	**43/36**	**0.6**	311.5	45/39	0.6	317.1	47/42
38	289.7	34/26	1.9	299.4	39/31	2.1	**310.0**	**44/37**	**0.6**	315.5	46/40	0.6	321.2	48/43
36	293.3	35/27	2.0	303.2	40/32	2.1	**313.9**	**45/38**	**0.6**	319.6	47/41	0.6	325.3	49/43
34	297.0	36/28	2.0	307.0	41/33	2.2	**317.8**	**45/39**	**0.6**	323.5	48/41	0.6	329.4	50/44
32	300.6	37/28	2.0	310.7	42/34	2.2	**321.6**	**46/39**	**0.6**	327.4	48/42	0.6	333.2	50/45
30	303.3	36/29	2.1	313.7	41/35	2.3	**325.0**	**46/40**	**0.6**	331.0	48/43	0.6	336.8	50/46
28	305.9	37/30	2.1	316.4	41/35	2.3	**327.9**	**46/41**	**0.6**	333.7	48/44	0.6	339.7	50/47
26	308.6	37/30	2.1	319.2	42/36	2.3	**330.7**	**47/41**	**0.6**	336.5	49/44	0.6	342.5	51/47
24	311.3	38/31	2.1	322.0	43/36	2.3	**333.5**	**48/42**	**0.6**	339.4	50/45	0.6	345.3	52/48
22	313.4	38/31	2.2	324.2	43/37	2.3	**335.7**	**48/42**	**0.6**	341.7	50/45	0.6	347.7	52/48
20	315.6	39/32	2.2	326.5	44/37	2.3	**338.0**	**49/43**	**0.6**	343.9	51/46	0.6	350.0	53/49
18	317.8	39/32	2.2	328.8	44/38	2.3	**340.3**	**49/43**	**0.6**	346.2	51/46	0.6	352.4	53/49
16	319.6	38/33	2.2	330.7	43/38	2.3	**342.3**	**48/44**	**0.6**	348.3	50/47	0.6	354.4	52/50
14	321.5	38/33	2.2	332.5	43/39	2.3	**344.2**	**48/44**	**0.6**	350.3	50/47	0.6	356.4	52/50
12	322.3	39/33	2.2	333.4	43/39	2.3	**345.1**	**48/44**	**0.6**	351.2	50/47	0.6	357.4	52/50
10	323.2	39/33	2.2	334.3	44/39	2.3	**346.0**	**49/45**	**0.6**	352.1	51/48	0.6	358.4	53/51
8	324.1	39/34	2.2	335.2	44/39	2.4	**347.0**	**49/45**	**0.6**	353.1	51/48	0.6	359.4	53/51
6	325.3	41/34	2.2	336.2	46/40	2.3	**347.9**	**51/45**	**0.6**	354.1	53/48	0.6	360.4	55/51
4	326.2	42/34	2.2	337.1	46/40	2.4	**348.9**	**51/46**	**0.6**	355.0	54/49	0.7	361.5	56/52
2	327.1	42/35	2.2	338.1	47/40	2.3	**349.8**	**52/46**	**0.6**	356.1	54/49	0.6	362.5	56/52
0	328.1	42/35	2.2	339.1	47/41	2.3	**350.8**	**52/46**	**0.6**	357.1	54/49	0.7	363.6	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 17L - Rwy 17L

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY M10) RWY 17R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.467% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	247.9	28/18	1.6	255.7	32/23	1.5	**263.1**	**38/28**	**0.5**	267.7	40/31	0.3	271.0	42/34
58	255.3	28/19	1.7	263.6	33/24	1.6	**271.4**	**38/30**	**0.5**	276.2	40/32	0.5	281.1	42/35
54	262.5	30/19	1.7	271.1	35/25	1.6	**279.3**	**40/30**	**0.5**	284.2	42/33	0.5	289.4	44/36
52	265.7	31/20	1.8	274.5	36/26	1.7	**282.9**	**41/31**	**0.5**	288.0	43/34	0.5	293.1	45/36
50	269.3	32/21	1.8	278.2	37/26	1.7	**286.8**	**42/32**	**0.5**	291.9	44/34	0.5	297.1	46/37
48	272.6	33/22	1.8	281.8	38/27	1.7	**290.5**	**43/33**	**0.5**	295.6	45/35	0.5	301.0	47/38
46	275.0	32/23	1.8	284.2	36/28	2.0	**294.1**	**41/33**	**0.5**	299.4	43/36	0.5	304.7	45/39
44	278.4	33/23	1.9	287.7	37/29	2.0	**297.7**	**42/34**	**0.5**	303.0	44/37	0.6	308.5	46/40
42	281.9	34/24	1.9	291.3	38/30	2.0	**301.5**	**43/35**	**0.5**	306.8	45/38	0.6	312.3	47/41
40	284.8	33/25	1.9	294.4	38/30	2.1	**304.8**	**43/36**	**0.6**	310.4	45/39	0.6	315.9	47/42
38	288.4	34/26	2.0	298.2	39/31	2.1	**308.8**	**43/37**	**0.6**	314.3	45/39	0.6	320.0	48/42
36	292.1	35/27	2.0	302.0	40/32	2.1	**312.7**	**44/37**	**0.6**	318.4	46/40	0.6	324.1	48/43
34	295.7	36/27	2.0	305.7	40/33	2.2	**316.6**	**45/38**	**0.6**	322.3	47/41	0.6	328.2	49/44
32	299.3	37/28	2.0	309.4	41/34	2.2	**320.4**	**46/39**	**0.6**	326.2	48/42	0.6	332.0	50/45
30	302.0	36/29	2.1	312.4	41/34	2.3	**323.7**	**45/40**	**0.6**	329.8	48/43	0.6	335.6	50/46
28	304.6	36/29	2.1	315.1	41/35	2.3	**326.6**	**46/41**	**0.6**	332.5	48/43	0.6	338.4	50/46
26	307.3	37/30	2.1	317.8	42/36	2.3	**329.5**	**47/41**	**0.6**	335.3	49/44	0.6	341.3	51/47
24	310.0	38/31	2.1	320.6	42/36	2.3	**332.2**	**47/42**	**0.6**	338.1	49/45	0.6	344.1	51/48
22	312.1	38/31	2.1	322.8	43/37	2.3	**334.4**	**48/42**	**0.6**	340.5	50/45	0.6	346.4	52/48
20	314.3	39/31	2.2	325.1	43/37	2.3	**336.7**	**48/43**	**0.6**	342.7	50/46	0.6	348.8	53/49
18	316.5	39/32	2.2	327.4	44/38	2.3	**339.0**	**49/43**	**0.6**	345.0	51/46	0.6	351.1	53/49
16	318.2	38/32	2.2	329.3	43/38	2.3	**341.0**	**47/44**	**0.6**	346.9	49/47	0.6	353.1	51/50
14	320.1	38/33	2.2	331.2	43/38	2.3	**342.9**	**48/44**	**0.6**	349.0	50/47	0.6	355.1	52/50
12	321.0	39/33	2.2	332.1	43/39	2.3	**343.8**	**48/44**	**0.6**	349.9	50/47	0.6	356.1	52/50
10	321.8	39/33	2.2	333.0	44/39	2.3	**344.7**	**48/45**	**0.6**	350.8	50/48	0.6	357.1	52/51
8	322.7	39/34	2.2	333.9	44/39	2.3	**345.6**	**49/45**	**0.6**	351.8	51/48	0.6	358.1	53/51
6	323.9	41/34	2.2	334.8	46/40	2.4	**346.6**	**51/45**	**0.6**	352.7	53/48	0.6	359.1	55/51
4	324.8	41/34	2.2	335.8	46/40	2.3	**347.5**	**51/45**	**0.6**	353.7	53/48	0.6	360.1	55/51
2	325.7	42/34	2.2	336.7	47/40	2.4	**348.5**	**51/46**	**0.6**	354.7	54/49	0.7	361.2	56/52
0	326.7	42/35	2.2	337.7	47/40	2.4	**349.5**	**52/46**	**0.6**	355.7	54/49	0.7	362.2	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 17R - Rwy 17R

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY G) RWY 25

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.042% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3962m (12998ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	255.6	28/18	1.7	263.9	33/23	1.4	**271.0**	**38/28**	**0.0**	271.0	41/32	0.0	271.0	44/35
58	263.7	28/19	1.7	272.2	33/25	1.8	**281.0**	**38/30**	**0.3**	283.9	40/33	0.0	283.9	43/36
54	271.1	30/20	1.8	280.0	35/25	1.8	**289.0**	**39/30**	**0.5**	294.1	41/33	0.2	295.7	44/36
52	274.5	31/20	1.8	283.6	36/26	1.8	**292.7**	**40/31**	**0.5**	297.9	42/33	0.3	301.3	45/36
50	278.2	32/21	1.9	287.5	37/27	1.8	**296.7**	**41/32**	**0.5**	302.0	43/34	0.5	306.8	45/37
48	281.8	33/22	1.9	291.2	37/27	1.9	**300.6**	**42/32**	**0.5**	305.9	44/35	0.6	311.4	46/38
46	284.8	32/23	1.8	294.0	36/28	2.0	**303.8**	**41/33**	**0.5**	308.9	43/36	0.5	314.1	45/39
44	288.4	32/24	1.8	297.6	37/29	2.0	**307.5**	**42/34**	**0.5**	312.7	44/37	0.5	317.9	46/40
42	292.0	33/24	1.9	301.4	38/30	2.0	**311.4**	**42/35**	**0.5**	316.6	44/38	0.5	322.0	46/41
40	295.1	33/25	1.9	304.7	38/31	2.1	**315.0**	**42/36**	**0.6**	320.5	44/39	0.6	326.0	47/41
38	298.9	34/26	1.9	308.6	38/31	2.1	**319.0**	**43/37**	**0.6**	324.5	45/39	0.6	330.3	47/42
36	302.7	35/27	2.0	312.6	39/32	2.1	**323.1**	**44/37**	**0.6**	328.8	46/40	0.6	334.4	48/43
34	306.5	36/27	2.0	316.5	40/33	2.1	**327.2**	**45/38**	**0.6**	332.8	47/41	0.6	338.4	49/44
32	310.2	36/28	2.0	320.3	41/34	2.2	**331.1**	**46/39**	**0.6**	336.6	48/42	0.6	342.3	50/45
30	313.2	36/29	2.1	323.7	40/35	2.2	**334.7**	**45/40**	**0.6**	340.4	47/43	0.6	346.0	49/46
28	316.0	36/29	2.1	326.5	41/35	2.2	**337.5**	**46/40**	**0.6**	343.2	48/43	0.6	349.0	50/46
26	318.8	37/30	2.1	329.4	42/36	2.2	**340.4**	**46/41**	**0.6**	346.0	49/44	0.6	351.9	51/47
24	321.5	37/31	2.1	332.2	42/36	2.2	**343.2**	**47/42**	**0.6**	349.0	49/44	0.6	354.9	51/47
22	323.8	38/31	2.1	334.4	43/37	2.2	**345.5**	**48/42**	**0.6**	351.3	50/45	0.6	357.3	52/48
20	326.0	38/32	2.1	336.6	43/37	2.2	**347.8**	**48/43**	**0.6**	353.7	50/45	0.6	359.8	52/48
18	328.3	39/32	2.1	338.9	44/38	2.3	**350.2**	**49/43**	**0.6**	356.1	51/46	0.6	362.3	53/49
16	330.2	37/32	2.1	340.8	42/38	2.3	**352.2**	**47/44**	**0.6**	358.2	49/46	0.6	364.5	51/49
14	332.0	38/33	2.1	342.7	42/38	2.3	**354.2**	**47/44**	**0.6**	360.3	50/47	0.6	366.7	52/50
12	332.9	38/33	2.1	343.6	43/39	2.3	**355.1**	**48/44**	**0.6**	361.3	50/47	0.6	367.7	52/50
10	333.8	38/33	2.2	344.6	43/39	2.3	**356.1**	**48/44**	**0.6**	362.3	50/47	0.7	368.8	52/50
8	334.7	39/34	2.2	345.5	43/39	2.3	**357.1**	**48/45**	**0.6**	363.3	50/48	0.7	369.8	52/51
6	335.7	41/34	2.2	346.5	46/40	2.3	**358.1**	**51/45**	**0.6**	364.4	53/48	0.7	370.9	55/51
4	336.7	41/34	2.2	347.5	46/40	2.3	**359.1**	**51/45**	**0.6**	365.4	53/48	0.7	371.9	55/51
2	337.6	41/34	2.2	348.4	46/40	2.4	**360.2**	**51/46**	**0.6**	366.5	53/48	0.7	373.0	55/51
0	338.6	42/35	2.2	349.4	46/40	2.4	**361.2**	**51/46**	**0.6**	367.6	54/49	0.7	374.1	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 25 - Rwy 25

SIDs approved - EEONS / EMMYS / EPKEE / EXTAN / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / BRYCC / CONNR / COORZ / FOOOT / JMPRS / RIKKK / SPAZZ / SOLAR / STAKR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY R1) RWY 26

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.5% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	247.7	28/18	1.6	255.5	32/23	1.5	**262.9**	**38/28**	**0.4**	266.9	40/31	0.3	269.9	43/34
58	255.0	28/19	1.7	263.3	33/24	1.6	**271.2**	**38/30**	**0.5**	275.9	40/32	0.5	280.9	42/35
54	262.2	30/19	1.7	270.8	35/25	1.7	**279.1**	**40/30**	**0.5**	284.0	42/33	0.5	289.1	44/35
52	265.5	31/20	1.8	274.3	36/25	1.7	**282.7**	**41/31**	**0.5**	287.7	43/34	0.5	292.9	45/36
50	269.0	32/21	1.8	278.0	37/26	1.7	**286.5**	**42/32**	**0.5**	291.6	44/34	0.5	296.9	46/37
48	272.4	33/22	1.8	281.6	38/27	1.7	**290.3**	**42/32**	**0.5**	295.4	44/35	0.5	300.7	47/38
46	274.7	32/23	1.8	283.9	36/28	2.0	**293.9**	**41/33**	**0.5**	299.2	43/36	0.5	304.5	45/39
44	278.1	33/23	1.9	287.4	37/29	2.0	**297.5**	**42/34**	**0.5**	302.8	44/37	0.5	308.2	46/40
42	281.6	33/24	1.9	291.1	38/30	2.0	**301.2**	**43/35**	**0.5**	306.6	45/38	0.6	312.1	47/41
40	284.5	33/25	1.9	294.1	38/30	2.1	**304.5**	**43/36**	**0.6**	310.1	45/39	0.6	315.6	47/41
38	288.1	34/26	2.0	297.9	39/31	2.1	**308.5**	**43/37**	**0.6**	314.0	45/39	0.6	319.7	47/42
36	291.8	35/27	2.0	301.7	40/32	2.1	**312.4**	**44/37**	**0.6**	318.1	46/40	0.6	323.8	48/43
34	295.4	36/27	2.0	305.4	40/33	2.2	**316.3**	**45/38**	**0.6**	322.0	47/41	0.6	327.9	49/44
32	299.0	37/28	2.0	309.1	41/34	2.2	**320.1**	**46/39**	**0.6**	325.9	48/42	0.6	331.8	50/45
30	301.7	36/29	2.1	312.1	41/34	2.3	**323.4**	**45/40**	**0.6**	329.4	48/43	0.6	335.3	50/46
28	304.3	36/29	2.1	314.8	41/35	2.3	**326.2**	**46/40**	**0.6**	332.2	48/43	0.6	338.1	50/46
26	307.0	37/30	2.1	317.5	42/36	2.3	**329.1**	**47/41**	**0.6**	335.0	49/44	0.6	341.0	51/47
24	309.7	38/30	2.1	320.3	42/36	2.3	**331.9**	**47/42**	**0.6**	337.8	49/45	0.6	343.8	51/48
22	311.8	38/31	2.1	322.5	43/37	2.3	**334.1**	**48/42**	**0.6**	340.1	50/45	0.6	346.1	52/48
20	314.0	39/31	2.2	324.8	43/37	2.3	**336.4**	**48/43**	**0.6**	342.4	50/46	0.6	348.4	52/49
18	316.1	39/32	2.2	327.0	44/38	2.3	**338.7**	**49/43**	**0.6**	344.6	51/46	0.6	350.8	53/49
16	317.8	38/32	2.2	329.0	43/38	2.3	**340.6**	**47/44**	**0.6**	346.6	49/46	0.6	352.8	51/50
14	319.8	38/33	2.2	330.9	43/38	2.3	**342.5**	**48/44**	**0.6**	348.6	50/47	0.6	354.8	52/50
12	320.6	38/33	2.2	331.8	43/39	2.3	**343.4**	**48/44**	**0.6**	349.6	50/47	0.6	355.8	52/50
10	321.5	39/33	2.2	332.6	43/39	2.4	**344.4**	**48/45**	**0.6**	350.5	50/47	0.6	356.7	52/51
8	322.4	39/33	2.2	333.5	44/39	2.4	**345.3**	**49/45**	**0.6**	351.4	51/48	0.6	357.7	53/51
6	323.5	41/34	2.2	334.5	46/39	2.3	**346.2**	**51/45**	**0.6**	352.4	53/48	0.6	358.8	55/51
4	324.5	41/34	2.2	335.4	46/40	2.4	**347.2**	**51/45**	**0.6**	353.4	53/48	0.6	359.8	55/51
2	325.4	42/34	2.2	336.4	46/40	2.4	**348.2**	**51/46**	**0.6**	354.4	53/49	0.6	360.8	56/52
0	326.4	42/35	2.2	337.3	47/40	2.4	**349.2**	**52/46**	**0.6**	355.4	54/49	0.7	361.9	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 26 - Rwy 26

SIDs approved - PLAINS / YELLOWSTONE.

SIDs NOT approved - DEN /PIKE (PUEBLO TRANSITION) / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY WA) RWY 34L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.031% DN
TOR	4877m (16000ft)	**ED**	4877m (16000ft)	**TOD**	4877m (16000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	271.0	44/36	0.0	271.0	44/42	0.0	**271.0**	**44/44**	**0.0**	271.0	44/44	0.0	271.0	44/44
58	283.9	43/37	0.0	283.9	48/43	0.0	**283.9**	**48/48**	**0.0**	283.9	48/48	0.0	283.9	48/48
54	295.7	44/36	0.0	295.7	50/42	0.0	**295.7**	**51/49**	**0.0**	295.7	51/51	0.0	295.7	51/51
52	301.3	45/37	0.0	301.3	51/43	0.0	**301.3**	**52/49**	**0.0**	301.3	52/52	0.0	301.3	52/52
50	306.8	45/38	0.0	306.8	52/44	0.0	**306.8**	**54/50**	**0.0**	306.8	54/53	0.0	306.8	54/54
48	312.4	46/38	0.0	312.4	52/45	0.0	**312.4**	**55/51**	**0.0**	312.4	55/54	0.0	312.4	55/55
46	317.3	44/39	0.1	318.0	50/45	0.0	**318.0**	**57/52**	**0.0**	318.0	57/55	0.0	318.0	57/57
44	321.2	45/40	0.5	323.5	51/46	0.0	**323.5**	**57/52**	**0.0**	323.5	58/55	0.0	323.5	58/58
42	325.2	46/41	0.8	329.1	52/47	0.0	**329.1**	**58/53**	**0.0**	329.1	60/56	0.0	329.1	60/59
40	329.5	46/42	1.0	334.7	51/47	0.0	**334.7**	**58/54**	**0.0**	334.7	61/57	0.0	334.7	61/60
38	333.5	47/42	1.5	340.8	52/48	0.0	**340.8**	**58/54**	**0.0**	340.8	61/57	0.0	340.8	63/61
36	337.7	48/43	1.8	346.9	52/48	0.0	**346.9**	**59/55**	**0.0**	346.9	62/58	0.0	346.9	64/61
34	341.7	49/44	2.1	352.0	53/49	0.2	**352.8**	**59/56**	**0.0**	352.8	62/59	0.0	352.8	66/62
32	345.6	49/45	2.1	356.1	54/50	0.5	**358.5**	**60/56**	**0.0**	358.5	63/60	0.0	358.5	66/63
30	349.5	49/46	2.1	360.2	53/51	0.7	**363.7**	**59/57**	**0.0**	363.7	62/60	0.0	363.7	65/64
28	352.4	49/46	2.2	363.3	54/51	1.0	**368.1**	**60/58**	**0.0**	368.1	63/61	0.0	368.1	66/64
26	355.4	50/47	2.2	366.5	55/52	1.1	**372.0**	**60/58**	**0.0**	372.0	63/61	0.0	372.0	66/65
24	358.5	51/48	2.3	369.8	55/53	1.1	**375.5**	**61/59**	**0.0**	375.5	64/62	0.0	375.5	67/65
22	361.0	51/48	2.3	372.4	56/53	1.3	**378.7**	**61/59**	**0.0**	378.7	64/62	0.0	378.7	68/66
20	363.5	52/49	2.3	375.1	56/54	1.3	**381.6**	**62/60**	**0.0**	381.6	65/63	0.0	381.6	68/66
18	366.1	52/49	2.3	377.8	57/54	1.3	**384.3**	**62/60**	**0.0**	384.3	65/63	0.0	384.3	69/67
16	368.4	51/50	2.4	380.2	55/55	1.3	**386.8**	**61/61**	**0.0**	386.8	64/64	0.0	386.8	67/67
14	370.6	51/50	2.4	382.5	56/55	1.3	**389.1**	**61/61**	**0.0**	389.1	64/64	0.0	389.1	67/68
12	371.7	51/50	2.4	383.5	56/55	1.1	**389.1**	**62/61**	**0.0**	389.1	65/65	0.0	389.1	68/68
10	372.7	51/51	2.4	384.6	56/56	0.9	**389.1**	**62/62**	**0.0**	389.1	65/65	0.0	389.1	68/69
8	373.8	52/51	2.4	385.7	56/56	0.7	**389.1**	**62/62**	**0.0**	389.1	66/66	0.0	389.1	69/69
6	374.8	54/51	2.4	386.8	59/56	0.5	**389.2**	**65/63**	**0.0**	389.2	68/66	0.0	389.2	71/70
4	375.9	54/51	2.5	388.6	59/56	0.1	**389.2**	**66/63**	**0.0**	389.2	69/67	0.0	389.2	72/70
2	377.0	55/52	2.4	389.2	59/57	0.0	**389.2**	**66/64**	**0.0**	389.2	69/67	0.0	389.2	72/71
0	378.1	55/52	2.2	389.2	60/57	0.0	**389.2**	**67/64**	**0.0**	389.2	70/67	0.0	389.2	73/71

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 34L - Rwy 34L

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / RIKKK / YAMMI / YOKES / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / JMPRS / SPAZZ / SOLAR / STAKR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY F1) RWY 34R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.033% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3962m (12998ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	255.6	28/18	1.6	263.8	33/23	1.4	**271.0**	**38/28**	**0.0**	271.0	41/32	0.0	271.0	44/35
58	263.6	28/19	1.7	272.2	33/25	1.7	**280.9**	**38/30**	**0.3**	283.9	40/33	0.0	283.9	43/36
54	271.0	30/20	1.8	280.0	35/25	1.8	**288.9**	**40/30**	**0.5**	294.0	42/33	0.2	295.7	44/36
52	274.5	31/20	1.8	283.6	36/26	1.8	**292.7**	**40/31**	**0.5**	297.9	42/33	0.3	301.3	45/36
50	278.2	32/21	1.8	287.4	37/27	1.9	**296.7**	**41/32**	**0.5**	301.9	43/34	0.5	306.8	45/37
48	281.8	33/22	1.9	291.2	37/27	1.9	**300.5**	**42/32**	**0.5**	305.8	44/35	0.5	311.0	46/38
46	284.8	32/23	1.8	294.0	36/28	1.9	**303.7**	**41/33**	**0.5**	308.8	43/36	0.5	313.8	45/39
44	288.3	32/24	1.9	297.6	37/29	2.0	**307.5**	**42/34**	**0.5**	312.6	44/37	0.5	317.7	46/40
42	291.9	33/24	1.9	301.4	38/30	2.0	**311.4**	**42/35**	**0.5**	316.6	44/38	0.5	321.8	47/41
40	295.1	33/25	1.9	304.7	38/31	2.0	**314.9**	**42/36**	**0.6**	320.4	44/39	0.6	325.9	47/41
38	298.9	34/26	1.9	308.6	39/31	2.1	**319.0**	**43/37**	**0.6**	324.5	45/39	0.6	330.2	47/42
36	302.7	35/27	2.0	312.5	39/32	2.1	**323.1**	**44/37**	**0.6**	328.7	46/40	0.6	334.3	48/43
34	306.4	36/27	2.0	316.4	40/33	2.1	**327.1**	**45/38**	**0.6**	332.7	47/41	0.6	338.4	49/44
32	310.2	36/28	2.0	320.2	41/34	2.2	**331.0**	**46/39**	**0.6**	336.6	48/42	0.6	342.2	50/45
30	313.2	36/29	2.1	323.6	40/35	2.2	**334.6**	**45/40**	**0.6**	340.3	47/43	0.6	346.0	49/46
28	315.9	36/29	2.1	326.4	41/35	2.2	**337.4**	**46/40**	**0.6**	343.1	48/43	0.6	348.9	50/46
26	318.7	37/30	2.1	329.3	42/36	2.2	**340.3**	**46/41**	**0.6**	346.0	49/44	0.6	351.9	51/47
24	321.5	37/31	2.1	332.1	42/36	2.2	**343.1**	**47/42**	**0.6**	348.9	49/44	0.6	354.8	51/47
22	323.7	38/31	2.1	334.3	43/37	2.2	**345.4**	**48/42**	**0.6**	351.3	50/45	0.6	357.3	52/48
20	326.0	38/32	2.1	336.6	43/37	2.2	**347.7**	**48/43**	**0.6**	353.7	50/45	0.6	359.8	52/48
18	328.3	39/32	2.1	338.9	44/38	2.2	**350.1**	**49/43**	**0.6**	356.0	51/46	0.6	362.2	53/49
16	330.1	37/32	2.1	340.8	42/38	2.3	**352.1**	**47/44**	**0.6**	358.2	49/46	0.6	364.4	51/49
14	332.0	38/33	2.1	342.7	43/38	2.3	**354.1**	**47/44**	**0.6**	360.3	50/47	0.6	366.6	52/50
12	332.9	38/33	2.1	343.6	43/39	2.3	**355.1**	**48/44**	**0.6**	361.3	50/47	0.6	367.6	52/50
10	333.7	38/33	2.2	344.5	43/39	2.3	**356.1**	**48/44**	**0.6**	362.3	50/47	0.6	368.7	52/50
8	334.6	39/34	2.2	345.4	43/39	2.3	**357.0**	**48/45**	**0.6**	363.3	50/48	0.6	369.7	52/51
6	335.7	41/34	2.1	346.4	46/40	2.3	**358.0**	**51/45**	**0.6**	364.3	53/48	0.7	370.8	55/51
4	336.6	41/34	2.2	347.4	46/40	2.3	**359.1**	**51/45**	**0.6**	365.3	53/48	0.7	371.9	55/51
2	337.6	41/34	2.2	348.4	46/40	2.3	**360.1**	**51/46**	**0.6**	366.4	53/48	0.7	373.0	55/51
0	338.5	42/35	2.2	349.4	46/40	2.3	**361.1**	**51/46**	**0.6**	367.5	54/49	0.7	374.1	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 34R - Rwy 34R

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / RIKKK / YAMMI / YOKES / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / JMPRS / SPAZZ / SOLAR / STAKR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY A) RWY 35L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.467% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	253.8	28/18	1.5	261.5	33/24	1.5	**269.1**	**39/29**	**0.2**	271.0	41/32	0.0	271.0	44/35
58	261.4	29/20	1.7	269.7	34/25	1.6	**277.7**	**38/30**	**0.5**	282.4	40/33	0.2	283.9	43/36
54	268.7	31/20	1.7	277.4	36/25	1.7	**285.8**	**40/31**	**0.5**	290.8	42/33	0.5	295.7	44/36
52	272.1	32/21	1.8	281.1	36/26	1.7	**289.6**	**41/31**	**0.5**	294.5	43/34	0.5	299.9	45/37
50	275.8	33/22	1.8	284.8	37/27	1.7	**293.5**	**42/32**	**0.5**	298.6	44/35	0.5	303.9	46/38
48	279.3	34/23	1.8	288.5	38/28	1.8	**297.3**	**43/33**	**0.5**	302.4	45/36	0.5	307.8	47/39
46	281.8	33/23	1.8	291.0	37/29	2.0	**300.9**	**42/34**	**0.5**	305.9	44/37	0.5	311.2	46/39
44	285.2	33/24	1.9	294.5	38/29	2.0	**304.5**	**42/35**	**0.5**	309.7	44/37	0.5	314.9	46/40
42	288.8	34/25	1.9	298.3	39/30	2.0	**308.3**	**43/35**	**0.5**	313.6	45/38	0.5	319.0	47/41
40	291.9	34/26	1.9	301.6	38/31	2.0	**311.8**	**43/36**	**0.5**	317.2	45/39	0.6	322.9	47/42
38	295.6	35/26	2.0	305.4	39/32	2.1	**315.8**	**44/37**	**0.6**	321.3	46/40	0.6	327.0	48/43
36	299.5	36/27	2.0	309.3	40/33	2.1	**319.9**	**45/38**	**0.6**	325.5	47/41	0.6	331.2	49/44
34	303.1	36/28	2.0	313.2	41/34	2.1	**323.9**	**46/39**	**0.6**	329.6	48/42	0.6	335.2	50/45
32	306.8	37/29	2.0	316.9	42/34	2.2	**327.8**	**47/40**	**0.6**	333.4	49/43	0.6	339.1	51/45
30	309.7	37/30	2.1	320.2	41/35	2.2	**331.3**	**46/41**	**0.6**	337.0	48/43	0.6	342.7	50/46
28	312.4	37/30	2.1	323.0	42/36	2.2	**334.1**	**47/41**	**0.6**	339.9	49/44	0.6	345.6	51/47
26	315.1	38/31	2.1	325.8	42/36	2.2	**336.9**	**47/42**	**0.6**	342.7	49/45	0.6	348.5	51/47
24	317.9	38/31	2.2	328.7	43/37	2.2	**339.8**	**48/42**	**0.6**	345.5	50/45	0.6	351.5	52/48
22	320.1	39/32	2.2	330.9	44/37	2.2	**342.1**	**48/43**	**0.6**	347.9	51/46	0.6	353.8	53/49
20	322.3	39/32	2.2	333.1	44/38	2.2	**344.3**	**49/43**	**0.6**	350.2	51/46	0.6	356.3	53/49
18	324.6	40/33	2.2	335.4	45/38	2.2	**346.6**	**49/44**	**0.6**	352.6	52/47	0.6	358.7	54/50
16	326.4	38/33	2.2	337.2	43/39	2.3	**348.7**	**48/44**	**0.6**	354.6	50/47	0.6	360.8	52/50
14	328.3	39/33	2.2	339.2	43/39	2.3	**350.7**	**48/45**	**0.6**	356.7	50/48	0.6	363.0	53/51
12	329.3	39/34	2.2	340.1	44/39	2.3	**351.6**	**49/45**	**0.6**	357.6	51/48	0.6	364.0	53/51
10	330.2	39/34	2.2	341.0	44/40	2.3	**352.5**	**49/45**	**0.6**	358.6	51/48	0.6	365.0	53/51
8	331.1	40/34	2.2	341.9	44/40	2.3	**353.5**	**49/45**	**0.6**	359.6	51/48	0.6	366.0	53/51
6	332.1	42/34	2.2	342.9	46/40	2.3	**354.5**	**51/46**	**0.6**	360.7	54/49	0.6	367.1	56/52
4	333.0	42/35	2.2	343.8	47/40	2.3	**355.5**	**52/46**	**0.6**	361.7	54/49	0.7	368.2	56/52
2	333.9	42/35	2.2	344.8	47/41	2.3	**356.5**	**52/46**	**0.6**	362.7	54/49	0.7	369.2	56/52
0	334.9	43/35	2.2	345.8	47/41	2.3	**357.5**	**52/47**	**0.6**	363.8	55/49	0.7	370.3	57/53

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 35L - Rwy 35L

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DENVER**

A/D Elev **5431ft** **INTL (KDEN)**

F/L (TWY EA) RWY 35R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.35% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62	253.1	29/18	1.6	260.9	33/24	1.5	**268.4**	**39/29**	**0.3**	271.0	41/32	0.0	271.0	44/35
58	260.9	29/20	1.6	269.0	34/25	1.6	**277.0**	**39/30**	**0.5**	281.8	41/33	0.2	283.9	43/36
54	268.2	31/20	1.7	276.7	36/25	1.7	**285.1**	**41/31**	**0.5**	290.1	43/33	0.5	295.2	44/36
52	271.6	32/21	1.8	280.4	37/26	1.7	**288.9**	**41/31**	**0.5**	293.8	43/34	0.5	299.1	45/37
50	275.2	33/22	1.8	284.1	37/27	1.7	**292.8**	**42/32**	**0.5**	297.8	44/35	0.5	303.1	46/38
48	278.7	34/23	1.8	287.8	38/28	1.7	**296.5**	**43/33**	**0.5**	301.7	45/36	0.5	307.0	47/39
46	281.2	33/23	1.9	290.5	37/29	2.0	**300.3**	**42/34**	**0.5**	305.4	44/37	0.5	310.6	46/39
44	284.6	33/24	1.9	294.0	38/30	2.0	**303.9**	**42/35**	**0.5**	309.1	44/37	0.5	314.4	46/40
42	288.2	34/25	1.9	297.7	39/30	2.0	**307.7**	**43/36**	**0.5**	313.0	45/38	0.5	318.4	47/41
40	291.3	34/26	1.9	301.0	39/31	2.0	**311.2**	**43/36**	**0.5**	316.6	45/39	0.6	322.3	47/42
38	295.0	35/26	1.9	304.7	39/32	2.1	**315.2**	**44/37**	**0.6**	320.7	46/40	0.6	326.4	48/43
36	298.8	36/27	2.0	308.7	40/33	2.1	**319.3**	**45/38**	**0.6**	324.8	47/41	0.6	330.7	49/44
34	302.5	36/28	2.0	312.5	41/34	2.1	**323.2**	**46/39**	**0.6**	328.9	48/42	0.6	334.6	50/45
32	306.1	37/29	2.0	316.2	42/34	2.2	**327.1**	**47/40**	**0.6**	332.7	49/43	0.6	338.5	51/46
30	309.0	37/30	2.1	319.5	41/35	2.2	**330.7**	**46/41**	**0.6**	336.3	48/43	0.6	342.1	50/46
28	311.7	37/30	2.1	322.3	42/36	2.2	**333.4**	**47/41**	**0.6**	339.2	49/44	0.6	345.0	51/47
26	314.4	38/31	2.1	325.1	43/36	2.2	**336.3**	**47/42**	**0.6**	342.0	50/45	0.6	347.9	52/48
24	317.2	38/31	2.2	328.0	43/37	2.2	**339.1**	**48/42**	**0.6**	344.9	50/45	0.6	350.8	52/48
22	319.4	39/32	2.2	330.3	44/37	2.2	**341.4**	**49/43**	**0.6**	347.2	51/46	0.6	353.2	53/49
20	321.6	39/32	2.2	332.5	44/38	2.2	**343.7**	**49/43**	**0.6**	349.6	51/46	0.6	355.6	53/49
18	323.8	40/33	2.2	334.7	45/38	2.2	**345.9**	**50/44**	**0.6**	351.9	52/47	0.6	358.0	54/50
16	325.6	38/33	2.2	336.6	43/39	2.3	**348.0**	**48/44**	**0.6**	353.9	50/47	0.6	360.2	52/50
14	327.6	39/33	2.2	338.5	44/39	2.3	**350.0**	**48/45**	**0.6**	356.0	51/48	0.6	362.3	53/51
12	328.5	39/34	2.2	339.4	44/39	2.3	**350.9**	**49/45**	**0.6**	357.0	51/48	0.6	363.3	53/51
10	329.4	39/34	2.2	340.3	44/40	2.3	**351.8**	**49/45**	**0.6**	357.9	51/48	0.6	364.3	53/51
8	330.4	40/34	2.2	341.2	44/40	2.3	**352.8**	**49/45**	**0.6**	358.9	51/48	0.6	365.3	53/51
6	331.4	42/34	2.2	342.2	47/40	2.3	**353.8**	**52/46**	**0.6**	360.0	54/49	0.6	366.4	56/52
4	332.3	42/35	2.2	343.2	47/40	2.3	**354.7**	**52/46**	**0.6**	361.0	54/49	0.6	367.4	56/52
2	333.2	42/35	2.2	344.1	47/41	2.3	**355.8**	**52/46**	**0.6**	362.0	54/49	0.7	368.5	56/52
0	334.1	43/35	2.2	345.1	47/41	2.3	**356.8**	**52/47**	**0.6**	363.1	55/49	0.7	369.6	57/53

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 35R - Rwy 35R

SIDs approved - BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS. / YELLOWSTONE

SIDs NOT approved - BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.
See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400** LANDING DATA **DALLAS**

A/D Elev **603ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **FORT WORTH (KDFW)**

RUNWAY	13L	13R	17L	17C
Landing Distance Available	2553m / 8375ft	2835m / 9300ft	2591m / 8501ft	4084m / 13400ft
Slope	.50DN	.15DN	0.61 UP	.01DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53° / 53°	53° / 53°
25F Zero HW wt or TW (Manual)	278.0 (256.0)	4kt (280.0)	282.0 (262.0)	15kt
25F Zero HW wt or TW (Autoland)			282.0 (262.0)	15kt
25F Slippery Zero HW wt or TW (Manual)	208.0	228.0	209.0	5kt
25F Slippery Zero HW wt or TW (Autoland)			209.0	5kt
30F Zero HW wt or TW (Manual)	280.8 (275.0)	4kt (280.8)	282.0 (280.0)	15kt
30F Zero HW wt or TW (Autoland)			282.0 (280.0)	15kt
30F Slippery Zero HW wt or TW (Manual)	232.0	255.0	232.0	5kt
30F Slippery Zero HW wt or TW (Autoland)			232.0	5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DALLAS**

A/D Elev **603ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **FORT WORTH (KDFW)**

RUNWAY	17R	18L	18R	31L
Landing Distance Available	4084m / 13399ft	4084m / 13400ft	4085m / 13400ft	2835m / 9300ft
Slope	.03DN	.18DN	.18DN	.15UP
Notes	Note 1	Notes 1, 2	Note 3	
WAT LIMIT °C : Man / Auto	53°	53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	4kt (280.0)
25F Zero HW wt or TW (Autoland)			15kt	
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	228.0
25F Slippery Zero HW wt or TW (Autoland)			5kt	
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	4kt (280.8)
30F Zero HW wt or TW (Autoland)			15kt	
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	255.0
30F Slippery Zero HW wt or TW (Autoland)			5kt	
Red'n per extra kt TW kg				5300kg
Inc per kt HW kg				750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS SIDE-STEP Rwy 17R & 18L** : Based on an ILS approach to Rwy 17C or 18R with a side-step manoeuver to land on Rwy 17R or 18L respectively.
2. **Rwy 18L ILS / Converging ILS** – Rwy also has –Y ILS/Converging ILS procedures.
3. **ILS SIDE-STEP Rwy 18R**: Based on an ILS approach to Rwy 18L with a side-step manoeuver to land on Rwy 18R.

BRITISH AIRWAYS **B747-400** LANDING DATA **DALLAS**

A/D Elev **603ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **FORT WORTH (KDFW)**

RUNWAY	31R	35L	35C	35R
Landing Distance Available	2553m / 8375ft	4084m / 13399ft	4084m / 13400ft	2591m / 8501ft
Slope	.50UP	.03UP	.01UP	0.61DN
Notes		Note 1	Note 2	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53°	53° / 53°
25F Zero HW wt or TW (Manual)	278.0 (256.0)	15kt	15kt	282.0 (262.0)
25F Zero HW wt or TW (Autoland)			15kt	282.0 (262.0)
25F Slippery Zero HW wt or TW (Manual)	208.0	5kt	5kt	209.0
25F Slippery Zero HW wt or TW (Autoland)			5kt	209.0
30F Zero HW wt or TW (Manual)	280.8 (275.0)	15kt	15kt	282.0 (280.0)
30F Zero HW wt or TW (Autoland)			15kt	282.0 (280.0)
30F Slippery Zero HW wt or TW (Manual)	232.0	5kt	5kt	232.0
30F Slippery Zero HW wt or TW (Autoland)			5kt	232.0
Red'n per extra kt TW kg	5300kg	5300kg		5300kg
Inc per kt HW kg	750kg			750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS SIDE-STEP Rwy 35L**: Based on an ILS approach to Rwy 35C with a side-step manoeuver to land on Rwy 35L.
2. **ILS SIDE-STEP Rwy 35C**: Based on an ILS approach to Rwy 35L with a side-step manoeuver to land on Rwy 35C.

BRITISH AIRWAYS **B747-400** LANDING DATA **DALLAS**

A/D Elev **603ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **FORT WORTH (KDFW)**

RUNWAY	**36L**	**36R**		
Landing Distance Available	4085m / 13400ft	4084m / 13400ft		
Slope	.18UP	.18UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°		
25F Zero HW wt or TW (Manual)	15kt	15kt (15kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt (15kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg		5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS SIDE-STEP Rwy 36L/R**: Based on an ILS approach to either Rwy 36L/R with a side-step manoeuver to land on the adjacent runway.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY N) RWY 13L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.5% DN
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	2743m (8999ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	245.4	22/11	1.7	254.1	27/15	1.6	**262.3**	**33/21**	**0.5**	267.3	36/24	0.5	272.3	38/27
66	253.8	23/11	1.8	262.8	29/16	1.7	**271.2**	**34/23**	**0.5**	276.5	37/26	0.5	281.8	39/29
62	263.4	26/13	1.9	272.7	31/19	1.8	**281.7**	**37/25**	**0.6**	287.3	39/28	0.6	292.8	42/31
58	272.3	27/15	2.0	282.1	32/21	1.9	**291.8**	**38/27**	**0.6**	297.6	40/30	0.6	303.3	42/33
54	279.5	28/17	2.0	289.6	33/23	2.2	**300.4**	**38/29**	**0.6**	306.3	41/32	0.6	312.3	43/35
52	283.1	29/16	2.1	293.4	34/22	2.2	**304.3**	**39/28**	**0.6**	310.4	41/31	0.6	316.4	44/34
50	286.9	29/17	2.1	297.4	35/23	2.2	**308.4**	**40/29**	**0.6**	314.6	42/32	0.6	320.7	45/35
48	289.9	29/18	2.1	300.4	34/23	2.3	**312.0**	**39/30**	**0.6**	318.3	42/33	0.6	324.7	44/36
46	293.5	30/18	2.1	304.1	35/24	2.4	**315.9**	**40/30**	**0.6**	322.3	43/34	0.7	328.8	45/37
44	297.0	30/19	2.2	307.8	36/25	2.4	**319.8**	**41/31**	**0.6**	326.2	43/34	0.7	332.7	46/38
42	300.7	31/20	2.2	311.7	37/26	2.4	**323.7**	**42/32**	**0.7**	330.3	44/35	0.6	336.7	47/38
40	303.6	31/20	2.3	314.9	36/26	2.5	**327.4**	**41/33**	**0.7**	334.0	43/36	0.7	340.7	46/39
38	307.4	31/21	2.3	319.0	37/27	2.5	**331.5**	**42/33**	**0.7**	338.1	44/37	0.7	344.8	46/40
36	311.4	32/22	2.3	323.0	38/28	2.5	**335.6**	**43/34**	**0.7**	342.3	45/37	0.7	349.1	47/41
34	315.1	33/23	2.4	326.9	38/29	2.5	**339.6**	**44/35**	**0.7**	346.2	46/38	0.7	353.1	48/41
32	318.7	32/23	2.4	330.5	37/29	2.5	**343.1**	**43/36**	**0.7**	349.9	45/39	0.7	356.9	47/42
30	322.6	33/24	2.4	334.5	38/30	2.5	**347.2**	**43/36**	**0.7**	354.1	46/40	0.7	361.2	48/43
28	325.2	33/24	2.4	337.2	39/30	2.6	**350.0**	**44/37**	**0.7**	357.0	46/40	0.7	364.2	49/44
26	326.1	34/25	2.4	338.1	39/31	2.6	**350.9**	**44/37**	**0.7**	357.9	47/40	0.7	365.2	49/44
24	327.0	34/25	2.4	339.0	39/31	2.6	**351.9**	**44/37**	**0.7**	358.9	47/41	0.7	366.2	49/44
22	327.9	34/25	2.4	339.9	40/31	2.6	**352.8**	**45/38**	**0.7**	359.8	47/41	0.7	367.2	49/44
20	328.8	34/25	2.4	340.8	40/31	2.6	**353.7**	**45/38**	**0.7**	360.8	47/41	0.8	368.3	50/45
18	329.7	35/26	2.4	341.7	40/32	2.6	**354.7**	**45/38**	**0.7**	361.8	48/41	0.8	369.3	50/45
16	330.6	35/26	2.4	342.6	40/32	2.6	**355.6**	**46/38**	**0.7**	362.8	48/42	0.8	370.3	50/45
14	331.5	35/26	2.4	343.5	41/32	2.6	**356.6**	**46/39**	**0.7**	363.8	48/42	0.8	371.4	51/45
12	332.4	35/26	2.4	344.4	41/32	2.6	**357.6**	**46/39**	**0.7**	364.9	48/42	0.8	372.5	51/46
10	333.3	36/27	2.4	345.4	41/33	2.6	**358.6**	**46/39**	**0.7**	365.9	49/43	0.8	373.5	51/46
8	334.3	36/27	2.4	346.3	41/33	2.7	**359.7**	**47/40**	**0.7**	367.0	49/43	0.8	374.6	51/46
6	335.2	36/27	2.4	347.3	42/33	2.7	**360.7**	**47/40**	**0.7**	368.1	49/43	0.8	375.8	52/46
4	336.2	37/27	2.4	348.3	42/34	2.7	**361.8**	**47/40**	**0.7**	369.2	50/43	0.8	376.9	52/47
2	337.1	37/28	2.4	349.3	42/34	2.7	**362.8**	**48/40**	**0.8**	370.3	50/44	0.8	378.1	52/47
0	338.1	37/28	2.4	350.3	43/34	2.7	**363.9**	**48/41**	**0.8**	371.4	50/44	0.8	379.2	53/47

P/C above 1013 + 0.2
P/C below 1013 - 0.4

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY A) RWY 13R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.151% DN
TOR	2835m (9301ft)	**ED**	2835m (9301ft)	**TOD**	2835m (9301ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	247.8	24/12	1.7	256.4	29/17	1.6	**264.6**	**35/23**	**0.5**	269.6	37/26	0.5	274.7	40/29
66	256.2	25/13	1.8	265.1	30/18	1.7	**273.7**	**36/25**	**0.5**	279.0	38/27	0.5	284.3	41/30
62	265.8	28/15	1.9	275.2	33/21	1.8	**284.2**	**39/27**	**0.6**	289.9	41/30	0.6	295.5	43/33
58	275.0	29/17	2.0	285.0	34/23	1.9	**294.4**	**39/29**	**0.6**	300.3	42/32	0.6	306.1	44/35
54	282.3	30/19	2.1	292.6	35/25	2.1	**303.1**	**40/31**	**0.6**	309.1	42/34	0.6	315.1	45/37
52	286.0	30/18	2.1	296.4	36/24	2.1	**307.1**	**41/30**	**0.6**	313.1	43/33	0.6	319.3	45/36
50	289.9	31/19	2.1	300.5	36/25	2.2	**311.3**	**42/31**	**0.6**	317.4	44/34	0.6	323.6	46/37
48	292.8	31/20	2.1	303.5	36/25	2.3	**315.1**	**41/32**	**0.6**	321.4	43/35	0.6	327.8	46/38
46	296.5	31/20	2.2	307.3	37/26	2.4	**319.1**	**42/32**	**0.6**	325.4	44/35	0.7	331.9	46/39
44	300.1	32/21	2.2	311.1	37/27	2.4	**322.9**	**43/33**	**0.7**	329.4	45/36	0.6	335.7	47/40
42	303.8	33/22	2.2	314.9	38/28	2.4	**327.0**	**43/34**	**0.6**	333.4	46/37	0.6	339.8	48/40
40	306.8	32/23	2.3	318.3	38/28	2.5	**330.7**	**43/35**	**0.7**	337.2	45/38	0.7	343.8	47/41
38	310.7	33/23	2.3	322.4	38/29	2.5	**334.8**	**43/36**	**0.7**	341.4	46/39	0.7	348.0	48/42
36	314.7	34/24	2.4	326.5	39/30	2.5	**339.0**	**44/36**	**0.7**	345.5	47/39	0.7	352.3	49/43
34	318.5	35/25	2.4	330.4	40/31	2.5	**342.9**	**45/37**	**0.7**	349.6	47/40	0.7	356.4	50/44
32	322.0	34/25	2.4	333.9	39/31	2.5	**346.5**	**44/38**	**0.7**	353.3	46/41	0.7	360.3	49/44
30	325.9	35/26	2.4	338.0	40/32	2.5	**350.6**	**45/38**	**0.7**	357.5	47/42	0.7	364.7	50/45
28	328.7	35/27	2.4	340.7	40/33	2.6	**353.5**	**46/39**	**0.7**	360.5	48/42	0.7	367.8	50/46
26	329.6	35/27	2.4	341.6	41/33	2.6	**354.4**	**46/39**	**0.7**	361.4	48/43	0.7	368.8	50/46
24	330.4	36/27	2.4	342.5	41/33	2.6	**355.3**	**46/40**	**0.7**	362.4	48/43	0.7	369.8	51/46
22	331.3	36/27	2.4	343.3	41/33	2.6	**356.3**	**46/40**	**0.7**	363.4	49/43	0.7	370.8	51/46
20	332.2	36/28	2.4	344.2	41/34	2.6	**357.2**	**47/40**	**0.7**	364.4	49/43	0.7	371.8	51/47
18	333.1	36/28	2.4	345.2	42/34	2.6	**358.2**	**47/40**	**0.7**	365.4	49/44	0.8	372.9	52/47
16	334.0	37/28	2.4	346.1	42/34	2.6	**359.2**	**47/41**	**0.7**	366.4	50/44	0.8	374.0	52/47
14	334.9	37/28	2.4	347.0	42/34	2.6	**360.2**	**47/41**	**0.7**	367.5	50/44	0.8	375.0	52/47
12	335.8	37/29	2.4	348.0	43/35	2.6	**361.2**	**48/41**	**0.7**	368.5	50/44	0.8	376.1	52/48
10	336.7	37/29	2.5	349.0	43/35	2.6	**362.2**	**48/41**	**0.7**	369.6	50/45	0.8	377.2	53/48
8	337.7	38/29	2.5	350.0	43/35	2.7	**363.3**	**48/42**	**0.7**	370.7	51/45	0.8	378.4	53/48
6	338.7	38/29	2.4	350.9	43/35	2.7	**364.3**	**49/42**	**0.8**	371.8	51/45	0.8	379.5	53/49
4	339.7	38/30	2.4	351.9	44/36	2.7	**365.4**	**49/42**	**0.8**	372.9	51/45	0.8	380.6	54/49
2	340.6	39/30	2.5	352.9	44/36	2.7	**366.5**	**49/43**	**0.8**	374.0	51/46	0.8	381.8	54/49
0	341.6	39/30	2.5	354.0	44/36	2.7	**367.6**	**49/43**	**0.8**	375.2	52/46	0.8	382.9	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY EF) RWY 17C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.007% DN
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.3	41/31	0.1	292.6	48/38	0.0	**292.6**	**49/44**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	302.5	41/33	1.3	308.8	46/38	0.0	**308.8**	**53/45**	**0.0**	308.8	53/49	0.0	308.8	53/52
62	314.3	44/35	2.0	324.3	49/41	0.1	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/54
58	324.4	44/38	2.0	334.5	49/43	1.2	**340.3**	**54/49**	**0.0**	340.3	58/53	0.0	340.3	61/57
54	333.3	45/40	2.1	343.6	50/45	2.2	**354.5**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	337.5	46/39	2.1	347.9	51/44	2.3	**359.3**	**56/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
50	342.0	47/40	2.1	352.5	52/45	2.3	**364.2**	**56/51**	**0.3**	367.5	59/54	0.0	367.5	62/58
48	345.9	47/41	2.2	356.9	51/46	2.4	**368.9**	**56/52**	**0.5**	373.7	58/55	0.0	373.7	62/58
46	350.1	47/42	2.2	361.3	52/47	2.5	**373.6**	**57/52**	**0.6**	380.0	59/55	0.0	380.0	62/59
44	354.2	48/42	2.3	365.7	53/48	2.5	**378.2**	**58/53**	**0.7**	385.0	60/56	0.1	386.2	63/60
42	358.6	49/43	2.4	370.4	54/49	2.5	**383.1**	**58/54**	**0.9**	391.9	60/56	0.1	392.4	63/60
40	363.0	48/44	2.4	375.1	52/49	2.7	**388.7**	**57/55**	**1.0**	398.4	59/57	0.0	398.5	62/61
38	367.7	49/45	2.5	380.1	53/50	3.3	**396.7**	**57/55**	**0.7**	403.2	59/58	0.3	405.7	62/61
36	372.4	50/46	2.5	384.9	54/51	3.3	**401.4**	**58/56**	**0.7**	408.1	60/59	0.5	412.9	63/62
34	377.0	50/46	2.9	391.4	55/52	2.9	**406.0**	**59/57**	**0.7**	412.7	61/59	0.7	419.4	63/62
32	381.4	50/47	3.3	397.8	53/52	2.5	**410.3**	**58/57**	**0.7**	417.0	60/60	0.7	423.7	62/63
30	386.2	50/48	3.2	402.4	54/53	2.5	**415.0**	**59/58**	**0.7**	421.8	61/61	0.7	428.6	63/64
28	391.2	51/48	2.9	405.5	55/53	2.6	**418.3**	**60/59**	**0.7**	425.0	62/62	0.7	431.9	64/65
26	393.0	51/48	2.7	406.6	55/53	2.6	**419.4**	**60/59**	**0.7**	426.1	62/62	0.7	433.0	64/65
24	394.8	51/48	2.6	407.6	55/54	2.6	**420.4**	**60/59**	**0.7**	427.2	62/62	0.7	434.1	64/65
22	396.4	51/48	2.5	408.7	56/54	2.6	**421.5**	**60/60**	**0.7**	428.3	63/62	0.7	435.1	65/65
20	397.4	51/49	2.5	409.8	56/54	2.5	**422.5**	**61/60**	**0.7**	429.4	63/63	0.7	436.3	65/66
18	398.5	51/49	2.5	410.8	56/55	2.6	**423.6**	**61/60**	**0.7**	430.5	63/63	0.7	437.4	65/66
16	399.5	52/49	2.5	411.9	56/55	2.6	**424.7**	**61/60**	**0.7**	431.6	63/63	0.6	437.7	66/66
14	400.6	52/49	2.5	413.0	57/55	2.6	**425.9**	**62/61**	**0.7**	432.8	64/64	0.5	437.7	66/67
12	401.7	52/50	2.5	414.1	57/55	2.6	**427.0**	**62/61**	**0.7**	433.9	64/64	0.4	437.7	67/67
10	402.7	53/50	2.5	415.2	57/56	2.6	**428.2**	**62/61**	**0.7**	435.0	64/64	0.3	437.7	67/68
8	403.8	53/50	2.5	416.3	58/56	2.6	**429.4**	**62/62**	**0.7**	436.2	65/64	0.2	437.8	68/68
6	405.0	53/51	2.5	417.5	58/56	2.6	**430.5**	**63/62**	**0.7**	437.4	65/65	0.0	437.8	68/69
4	406.1	53/51	2.5	418.7	58/56	2.6	**431.7**	**63/62**	**0.6**	437.8	65/65	0.0	437.8	69/69
2	407.2	54/51	2.5	419.9	58/57	2.6	**432.9**	**63/62**	**0.5**	437.8	66/66	0.0	437.8	69/70
0	408.4	54/51	2.5	421.1	59/57	2.6	**434.1**	**64/63**	**0.4**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY Q1) RWY 17L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.612% UP
TOR	2591m (8500ft)	**ED**	2591m (8500ft)	**TOD**	2591m (8500ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	232.6	19/11	1.8	241.4	24/12	1.7	**250.1**	**29/18**	**0.5**	255.1	32/21	0.5	260.4	35/24
66	240.7	20/11	1.8	249.9	25/13	1.7	**258.5**	**31/19**	**0.5**	263.7	33/22	0.6	269.2	36/25
62	250.1	22/11	1.8	259.3	28/15	1.8	**268.2**	**33/22**	**0.6**	273.7	36/25	0.6	279.6	39/28
58	258.7	23/11	1.9	268.2	29/17	1.9	**277.7**	**35/24**	**0.6**	283.4	37/27	0.6	289.6	39/30
54	265.6	24/13	2.0	275.6	30/19	2.0	**285.7**	**35/25**	**0.6**	291.8	38/29	0.6	298.0	40/32
52	269.1	25/12	2.0	279.2	31/18	2.1	**289.5**	**36/25**	**0.6**	295.5	38/28	0.6	301.9	41/31
50	272.6	26/13	2.1	283.0	32/19	2.1	**293.4**	**37/25**	**0.6**	299.6	39/28	0.6	306.0	42/32
48	275.3	26/14	2.1	285.8	31/20	2.3	**297.1**	**36/26**	**0.6**	303.3	39/29	0.7	309.8	41/33
46	278.8	26/15	2.1	289.4	32/21	2.3	**300.8**	**37/27**	**0.6**	307.1	40/30	0.7	313.7	42/33
44	282.1	27/15	2.1	292.8	33/21	2.3	**304.4**	**38/28**	**0.6**	310.8	40/31	0.7	317.5	43/34
42	285.5	28/16	2.2	296.4	33/22	2.4	**308.2**	**39/28**	**0.7**	314.7	41/32	0.7	321.4	44/35
40	287.9	27/17	2.3	299.2	33/23	2.4	**311.4**	**38/29**	**0.7**	318.1	40/32	0.7	325.0	43/36
38	286.6	28/18	3.3	303.0	34/23	2.5	**315.3**	**39/30**	**0.7**	322.1	41/33	0.7	329.1	44/37
36	285.4	29/19	4.3	306.9	34/24	2.5	**319.4**	**40/31**	**0.7**	326.2	42/34	0.7	333.2	45/37
34	284.3	30/20	5.3	310.6	35/25	2.5	**323.2**	**40/31**	**0.7**	330.2	43/35	0.7	337.1	45/38
32	284.2	29/21	6.0	314.0	34/26	2.6	**326.8**	**40/32**	**0.7**	333.7	42/35	0.7	340.7	44/39
30	283.2	30/22	6.9	317.9	35/26	2.6	**330.8**	**40/33**	**0.7**	337.7	43/36	0.7	344.7	45/40
28	285.0	30/23	7.1	320.6	36/27	2.6	**333.4**	**41/33**	**0.7**	340.4	43/37	0.7	347.5	46/40
26	287.8	30/23	6.7	321.4	36/27	2.6	**334.3**	**41/34**	**0.7**	341.3	44/37	0.7	348.4	46/40
24	291.6	31/23	6.1	322.3	36/27	2.6	**335.2**	**41/34**	**0.7**	342.2	44/37	0.7	349.3	46/41
22	295.6	31/23	5.5	323.2	36/28	2.6	**336.1**	**42/34**	**0.7**	343.1	44/37	0.7	350.2	47/41
20	299.6	31/23	4.9	324.0	37/28	2.6	**337.0**	**42/34**	**0.7**	344.0	44/38	0.7	351.1	47/41
18	302.9	31/23	4.4	324.9	37/28	2.6	**337.9**	**42/35**	**0.7**	344.9	45/38	0.7	352.1	47/41
16	306.2	32/23	3.9	325.8	37/28	2.6	**338.8**	**43/35**	**0.7**	345.8	45/38	0.7	353.0	47/42
14	309.5	32/23	3.5	326.8	38/29	2.6	**339.8**	**43/35**	**0.7**	346.7	45/38	0.7	354.0	48/42
12	312.9	32/23	3.0	327.7	38/29	2.6	**340.7**	**43/35**	**0.7**	347.7	46/39	0.7	355.0	48/42
10	316.3	33/23	2.5	328.6	38/29	2.6	**341.6**	**43/36**	**0.7**	348.7	46/39	0.7	356.0	48/43
8	317.3	33/23	2.5	329.6	38/29	2.6	**342.5**	**44/36**	**0.7**	349.7	46/39	0.7	357.0	49/43
6	318.2	33/23	2.5	330.5	39/30	2.6	**343.5**	**44/36**	**0.7**	350.6	46/40	0.7	358.0	49/43
4	319.2	33/23	2.5	331.5	39/30	2.6	**344.5**	**44/36**	**0.7**	351.6	47/40	0.8	359.1	49/43
2	320.1	34/24	2.5	332.4	39/30	2.6	**345.5**	**44/37**	**0.7**	352.6	47/40	0.8	360.1	49/44
0	321.1	34/24	2.4	333.3	39/30	2.6	**346.4**	**45/37**	**0.7**	353.7	47/40	0.8	361.2	50/44

P/C above 1013 + 0.1
P/C below 1013 - 0.5

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY EF) RWY 17R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.03% DN
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	291.8	41/31	0.2	292.6	48/38	0.0	**292.6**	**49/44**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	302.6	41/33	1.2	308.8	46/38	0.0	**308.8**	**53/45**	**0.0**	308.8	53/49	0.0	308.8	53/52
62	314.4	44/35	2.0	324.2	49/41	0.2	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/54
58	324.5	44/38	2.0	334.6	49/43	1.1	**340.3**	**54/49**	**0.0**	340.3	58/53	0.0	340.3	61/57
54	333.4	45/40	2.1	343.7	50/45	2.2	**354.5**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	337.6	46/39	2.1	348.0	51/44	2.3	**359.4**	**56/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
50	342.1	47/40	2.1	352.6	52/45	2.3	**364.3**	**56/51**	**0.3**	367.5	59/54	0.0	367.5	62/58
48	346.0	47/41	2.2	357.0	51/46	2.4	**369.0**	**56/52**	**0.5**	373.7	58/55	0.0	373.7	62/58
46	350.3	47/42	2.2	361.5	52/47	2.4	**373.7**	**57/52**	**0.6**	380.0	59/55	0.0	380.0	62/59
44	354.3	48/42	2.3	365.8	53/48	2.5	**378.4**	**58/53**	**0.7**	385.1	60/56	0.1	386.2	63/60
42	358.7	49/43	2.4	370.5	54/49	2.5	**383.2**	**58/54**	**0.9**	392.1	60/56	0.0	392.4	63/60
40	363.1	48/44	2.4	375.2	52/49	2.8	**389.0**	**57/55**	**1.0**	398.5	59/57	0.0	398.5	62/61
38	367.8	49/45	2.5	380.2	53/50	3.3	**396.8**	**57/55**	**0.7**	403.3	59/58	0.2	405.7	62/61
36	372.6	50/46	2.5	385.1	54/51	3.3	**401.6**	**58/56**	**0.7**	408.2	60/59	0.5	412.9	63/62
34	377.1	50/46	2.9	391.7	55/52	2.9	**406.1**	**59/57**	**0.7**	412.8	61/59	0.7	419.6	63/62
32	381.6	50/47	3.3	397.9	53/52	2.5	**410.4**	**58/57**	**0.7**	417.1	60/60	0.7	423.8	62/63
30	386.3	50/48	3.2	402.5	54/53	2.5	**415.1**	**59/58**	**0.7**	421.9	61/61	0.7	428.7	63/64
28	391.5	51/48	2.8	405.7	55/53	2.5	**418.4**	**60/59**	**0.7**	425.2	62/62	0.7	432.0	64/65
26	393.3	51/48	2.7	406.7	55/53	2.6	**419.5**	**60/59**	**0.7**	426.2	62/62	0.7	433.1	64/65
24	395.1	51/48	2.5	407.8	55/54	2.6	**420.6**	**60/59**	**0.7**	427.3	62/62	0.7	434.2	64/65
22	396.5	51/48	2.5	408.8	56/54	2.6	**421.6**	**60/60**	**0.7**	428.4	63/62	0.7	435.3	65/65
20	397.6	51/49	2.5	409.9	56/54	2.6	**422.7**	**61/60**	**0.7**	429.6	63/63	0.7	436.4	65/66
18	398.6	51/49	2.5	411.0	56/55	2.6	**423.8**	**61/60**	**0.7**	430.7	63/63	0.7	437.5	65/66
16	399.7	52/49	2.5	412.0	56/55	2.6	**424.9**	**61/60**	**0.7**	431.8	63/63	0.6	437.7	66/66
14	400.7	52/49	2.5	413.1	57/55	2.6	**426.0**	**62/61**	**0.7**	432.9	64/64	0.5	437.7	66/67
12	401.8	52/50	2.5	414.2	57/55	2.6	**427.2**	**62/61**	**0.7**	434.0	64/64	0.4	437.7	67/67
10	402.9	53/50	2.5	415.3	57/56	2.6	**428.3**	**62/61**	**0.7**	435.2	64/64	0.3	437.7	67/68
8	404.0	53/50	2.5	416.5	57/56	2.6	**429.5**	**62/62**	**0.7**	436.4	65/64	0.1	437.8	68/68
6	405.1	53/51	2.5	417.7	58/56	2.6	**430.7**	**63/62**	**0.7**	437.6	65/65	0.0	437.8	68/69
4	406.2	53/51	2.5	418.8	58/56	2.6	**431.8**	**63/62**	**0.6**	437.8	65/65	0.0	437.8	69/69
2	407.4	54/51	2.5	420.0	58/57	2.6	**433.0**	**63/62**	**0.5**	437.8	66/66	0.0	437.8	69/70
0	408.6	54/51	2.5	421.2	59/57	2.6	**434.2**	**64/63**	**0.4**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY WF) RWY 18L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.202% DN
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.6	41/31	0.0	292.6	48/38	0.0	**292.6**	**49/45**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	303.5	41/33	1.1	308.8	47/39	0.0	**308.8**	**53/45**	**0.0**	308.8	53/49	0.0	308.8	53/52
62	315.4	44/35	1.9	325.0	48/41	0.0	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/55
58	325.5	44/38	2.0	335.5	49/43	1.0	**340.3**	**55/49**	**0.0**	340.3	58/53	0.0	340.3	61/57
54	334.4	45/40	2.1	344.7	50/45	2.0	**354.5**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	338.7	46/39	2.1	349.1	51/44	2.3	**360.4**	**55/50**	**0.1**	361.0	59/53	0.0	361.0	62/57
50	343.1	47/40	2.1	353.7	51/45	2.3	**365.3**	**56/51**	**0.2**	367.5	59/54	0.0	367.5	62/58
48	347.1	46/41	2.2	358.1	51/46	2.4	**370.1**	**56/52**	**0.4**	373.7	58/55	0.0	373.7	62/58
46	351.4	47/41	2.2	362.6	52/47	2.4	**374.8**	**57/52**	**0.5**	380.0	59/55	0.0	380.0	62/59
44	355.5	48/42	2.3	367.0	53/48	2.5	**379.5**	**57/53**	**0.7**	386.2	60/56	0.0	386.2	63/60
42	359.9	49/43	2.4	371.7	54/49	2.5	**384.3**	**58/54**	**0.8**	392.4	60/56	0.0	392.4	63/60
40	364.4	48/44	2.4	376.4	52/49	2.9	**390.9**	**57/55**	**0.8**	398.5	59/57	0.0	398.5	62/61
38	369.1	49/45	2.5	381.4	53/50	3.3	**397.9**	**57/55**	**0.7**	404.4	59/58	0.1	405.7	62/61
36	373.8	49/46	2.5	386.3	54/51	3.3	**402.7**	**58/56**	**0.7**	409.3	60/59	0.4	412.9	63/62
34	378.4	50/46	3.1	393.8	54/51	2.7	**407.2**	**59/57**	**0.7**	413.9	61/59	0.6	419.7	63/62
32	382.9	49/47	3.2	399.1	53/52	2.5	**411.6**	**58/57**	**0.7**	418.3	60/60	0.7	425.0	62/63
30	388.2	50/48	3.1	403.7	54/53	2.5	**416.3**	**59/58**	**0.7**	423.1	61/61	0.7	429.9	63/64
28	393.7	50/48	2.6	406.9	55/53	2.5	**419.6**	**60/59**	**0.7**	426.4	62/62	0.7	433.2	64/64
26	395.6	50/48	2.5	407.9	55/53	2.6	**420.7**	**60/59**	**0.7**	427.4	62/62	0.7	434.3	64/65
24	396.8	51/48	2.4	409.0	55/54	2.5	**421.7**	**60/59**	**0.7**	428.5	62/62	0.7	435.4	64/65
22	397.8	51/48	2.5	410.1	55/54	2.5	**422.8**	**60/60**	**0.7**	429.7	62/62	0.7	436.5	65/65
20	398.8	51/49	2.5	411.1	56/54	2.6	**423.9**	**61/60**	**0.7**	430.7	63/63	0.7	437.6	65/66
18	399.9	51/49	2.5	412.2	56/54	2.6	**425.0**	**61/60**	**0.7**	431.8	63/63	0.6	437.7	65/66
16	400.9	52/49	2.5	413.3	56/55	2.6	**426.1**	**61/60**	**0.7**	432.9	63/63	0.5	437.7	66/67
14	402.0	52/49	2.5	414.4	57/55	2.6	**427.2**	**61/61**	**0.7**	434.1	64/63	0.4	437.7	66/67
12	403.1	52/50	2.5	415.5	57/55	2.6	**428.4**	**62/61**	**0.7**	435.2	64/64	0.3	437.7	67/67
10	404.2	52/50	2.5	416.6	57/56	2.6	**429.6**	**62/61**	**0.7**	436.4	64/64	0.1	437.7	67/68
8	405.3	53/50	2.5	417.7	57/56	2.6	**430.7**	**62/61**	**0.7**	437.6	64/64	0.0	437.8	68/68
6	406.4	53/50	2.5	418.9	58/56	2.6	**431.9**	**63/62**	**0.6**	437.8	65/65	0.0	437.8	68/69
4	407.6	53/51	2.5	420.1	58/56	2.6	**433.0**	**63/62**	**0.5**	437.8	65/65	0.0	437.8	69/69
2	408.7	54/51	2.5	421.3	58/57	2.6	**434.2**	**63/62**	**0.4**	437.8	66/66	0.0	437.8	69/70
0	409.9	54/51	2.5	422.4	58/57	2.6	**435.4**	**63/63**	**0.2**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY WF) RWY 18R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.187% DN
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.6	41/31	0.0	292.6	48/38	0.0	**292.6**	**49/45**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	303.5	41/33	1.1	308.8	47/39	0.0	**308.8**	**53/45**	**0.0**	308.8	53/49	0.0	308.8	53/52
62	315.4	44/35	1.9	325.0	48/41	0.0	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/55
58	325.4	44/38	2.0	335.5	49/43	1.0	**340.3**	**55/49**	**0.0**	340.3	58/53	0.0	340.3	61/57
54	334.4	45/40	2.0	344.6	50/45	2.0	**354.5**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	338.7	46/39	2.1	349.0	51/44	2.3	**360.4**	**55/50**	**0.1**	361.0	59/53	0.0	361.0	62/57
50	343.1	47/40	2.1	353.6	51/45	2.3	**365.3**	**56/51**	**0.2**	367.5	59/54	0.0	367.5	62/58
48	347.1	46/41	2.2	358.1	51/46	2.4	**370.1**	**56/52**	**0.4**	373.7	58/55	0.0	373.7	62/58
46	351.3	47/41	2.2	362.5	52/47	2.5	**374.8**	**57/52**	**0.5**	380.0	59/55	0.0	380.0	62/59
44	355.4	48/42	2.3	366.9	53/48	2.5	**379.5**	**57/53**	**0.7**	386.1	60/56	0.0	386.2	63/60
42	359.8	49/43	2.4	371.6	54/49	2.5	**384.3**	**58/54**	**0.8**	392.4	60/56	0.0	392.4	63/60
40	364.3	48/44	2.4	376.4	52/49	2.9	**390.8**	**57/55**	**0.8**	398.5	59/57	0.0	398.5	62/61
38	369.0	49/45	2.5	381.3	53/50	3.3	**397.8**	**57/55**	**0.7**	404.4	59/58	0.1	405.7	62/61
36	373.7	49/46	2.5	386.2	54/51	3.3	**402.6**	**58/56**	**0.7**	409.3	60/59	0.4	412.9	63/62
34	378.3	50/46	3.1	393.6	54/51	2.7	**407.2**	**59/57**	**0.7**	413.8	61/59	0.6	419.7	63/62
32	382.8	49/47	3.2	399.0	53/52	2.5	**411.5**	**58/57**	**0.7**	418.2	60/60	0.7	424.9	62/63
30	388.0	50/48	3.1	403.6	54/53	2.5	**416.2**	**59/58**	**0.7**	423.0	61/61	0.7	429.9	63/64
28	393.6	50/48	2.6	406.8	55/53	2.6	**419.6**	**60/59**	**0.7**	426.3	62/62	0.7	433.1	64/64
26	395.4	50/48	2.5	407.9	55/53	2.5	**420.6**	**60/59**	**0.7**	427.4	62/62	0.7	434.2	64/65
24	396.7	51/48	2.4	408.9	55/54	2.6	**421.7**	**60/59**	**0.7**	428.5	62/62	0.7	435.3	64/65
22	397.7	51/48	2.5	410.0	55/54	2.5	**422.7**	**60/60**	**0.7**	429.6	62/62	0.7	436.4	65/65
20	398.8	51/49	2.5	411.1	56/54	2.5	**423.8**	**61/60**	**0.7**	430.7	63/63	0.7	437.5	65/66
18	399.8	51/49	2.5	412.1	56/54	2.6	**424.9**	**61/60**	**0.7**	431.8	63/63	0.6	437.7	65/66
16	400.9	52/49	2.5	413.2	56/55	2.6	**426.0**	**61/60**	**0.7**	432.9	63/63	0.5	437.7	66/66
14	401.9	52/49	2.5	414.3	57/55	2.6	**427.2**	**61/61**	**0.7**	434.0	64/63	0.4	437.7	66/67
12	403.0	52/50	2.5	415.4	57/55	2.6	**428.3**	**62/61**	**0.7**	435.1	64/64	0.3	437.7	67/67
10	404.1	52/50	2.5	416.5	57/56	2.6	**429.5**	**62/61**	**0.7**	436.3	64/64	0.1	437.7	67/68
8	405.2	53/50	2.5	417.7	57/56	2.6	**430.6**	**62/61**	**0.7**	437.5	64/64	0.0	437.8	68/68
6	406.3	53/50	2.5	418.8	58/56	2.6	**431.8**	**63/62**	**0.6**	437.8	65/65	0.0	437.8	68/69
4	407.5	53/51	2.5	420.0	58/56	2.6	**433.0**	**63/62**	**0.5**	437.8	65/65	0.0	437.8	69/69
2	408.6	54/51	2.5	421.2	58/57	2.6	**434.1**	**63/62**	**0.4**	437.8	66/66	0.0	437.8	69/70
0	409.8	54/51	2.5	422.4	58/57	2.6	**435.4**	**63/63**	**0.2**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY A6) RWY 31L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.151% UP
TOR	2835m (9301ft)	**ED**	2835m (9301ft)	**TOD**	2835m (9301ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	246.1	24/12	1.7	254.8	29/17	1.6	**263.0**	**35/23**	**0.5**	268.0	37/26	0.5	273.0	40/29
66	254.5	25/13	1.8	263.4	30/18	1.7	**271.9**	**36/24**	**0.5**	277.2	38/27	0.5	282.6	41/30
62	264.1	27/15	1.9	273.4	33/21	1.8	**282.4**	**38/27**	**0.6**	288.0	41/30	0.6	293.6	43/33
58	273.2	28/17	2.0	283.1	34/23	1.9	**292.6**	**39/29**	**0.6**	298.4	41/32	0.6	304.1	44/35
54	280.5	29/19	2.0	290.7	35/25	2.1	**301.2**	**40/31**	**0.6**	307.1	42/34	0.6	313.1	44/37
52	284.1	30/18	2.1	294.5	35/24	2.1	**305.1**	**41/30**	**0.6**	311.2	43/33	0.6	317.2	45/36
50	288.0	31/19	2.1	298.5	36/24	2.2	**309.3**	**42/31**	**0.6**	315.4	44/34	0.6	321.6	46/37
48	290.9	30/20	2.1	301.5	36/25	2.3	**313.1**	**41/31**	**0.6**	319.5	43/35	0.6	325.7	46/38
46	294.5	31/20	2.2	305.3	37/26	2.4	**317.1**	**42/32**	**0.6**	323.5	44/35	0.6	329.8	46/39
44	298.0	32/21	2.2	309.0	37/27	2.4	**320.9**	**42/33**	**0.7**	327.4	45/36	0.6	333.6	47/39
42	301.7	33/22	2.2	312.8	38/27	2.4	**324.9**	**43/34**	**0.7**	331.4	46/37	0.6	337.7	48/40
40	304.7	32/22	2.3	316.1	37/28	2.5	**328.6**	**43/35**	**0.7**	335.1	45/38	0.7	341.8	47/41
38	308.5	33/23	2.3	320.2	38/29	2.5	**332.7**	**43/35**	**0.7**	339.3	46/39	0.7	345.9	48/42
36	312.5	34/24	2.3	324.2	39/30	2.5	**336.8**	**44/36**	**0.7**	343.4	46/39	0.7	350.2	49/43
34	316.3	34/25	2.4	328.2	40/31	2.5	**340.8**	**45/37**	**0.7**	347.4	47/40	0.7	354.3	49/43
32	319.8	34/25	2.4	331.7	39/31	2.5	**344.3**	**44/38**	**0.7**	351.2	46/41	0.7	358.1	49/44
30	323.7	34/26	2.4	335.7	40/32	2.6	**348.5**	**45/38**	**0.7**	355.3	47/42	0.7	362.5	49/45
28	326.4	35/26	2.4	338.4	40/32	2.6	**351.3**	**45/39**	**0.7**	358.3	48/42	0.7	365.5	50/46
26	327.3	35/27	2.4	339.3	41/33	2.6	**352.2**	**46/39**	**0.7**	359.2	48/42	0.7	366.5	50/46
24	328.2	35/27	2.4	340.2	41/33	2.6	**353.1**	**46/39**	**0.7**	360.2	48/43	0.7	367.5	51/46
22	329.1	36/27	2.4	341.1	41/33	2.6	**354.0**	**46/40**	**0.7**	361.1	49/43	0.7	368.5	51/46
20	330.0	36/27	2.4	342.0	41/33	2.6	**355.0**	**47/40**	**0.7**	362.1	49/43	0.8	369.6	51/47
18	330.9	36/28	2.4	342.9	42/34	2.6	**355.9**	**47/40**	**0.7**	363.1	49/43	0.8	370.6	51/47
16	331.7	36/28	2.4	343.8	42/34	2.6	**356.9**	**47/40**	**0.7**	364.1	49/44	0.8	371.6	52/47
14	332.6	37/28	2.4	344.7	42/34	2.6	**357.9**	**47/41**	**0.7**	365.2	50/44	0.8	372.7	52/47
12	333.5	37/28	2.4	345.7	42/34	2.6	**358.9**	**48/41**	**0.7**	366.2	50/44	0.8	373.8	52/48
10	334.5	37/29	2.4	346.6	43/35	2.7	**359.9**	**48/41**	**0.7**	367.3	50/45	0.8	374.9	53/48
8	335.4	38/29	2.4	347.6	43/35	2.7	**361.0**	**48/42**	**0.7**	368.3	51/45	0.8	376.0	53/48
6	336.4	38/29	2.4	348.6	43/35	2.7	**362.0**	**48/42**	**0.7**	369.4	51/45	0.8	377.1	53/48
4	337.3	38/29	2.5	349.6	44/36	2.7	**363.1**	**49/42**	**0.7**	370.5	51/45	0.8	378.2	53/49
2	338.3	38/30	2.5	350.6	44/36	2.7	**364.1**	**49/42**	**0.8**	371.7	51/46	0.8	379.4	54/49
0	339.3	39/30	2.5	351.6	44/36	2.7	**365.2**	**49/43**	**0.8**	372.8	52/46	0.8	380.6	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY R) RWY 31R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.537% UP
TOR	2553m (8375ft)	**ED**	2553m (8375ft)	**TOD**	2553m (8375ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	231.4	18/11	1.8	240.2	23/12	1.7	**248.8**	**29/17**	**0.5**	253.8	31/20	0.5	259.2	34/23
66	239.4	19/11	1.8	248.6	25/12	1.7	**257.2**	**30/18**	**0.5**	262.5	33/21	0.5	267.9	35/25
62	248.7	21/11	1.9	258.0	27/15	1.8	**266.9**	**33/21**	**0.6**	272.4	36/24	0.6	278.2	38/27
58	257.3	23/11	1.9	266.9	29/17	1.9	**276.2**	**34/23**	**0.6**	282.1	37/26	0.6	288.1	39/29
54	264.3	24/12	2.0	274.2	29/19	2.0	**284.3**	**35/25**	**0.6**	290.3	37/28	0.6	296.6	40/31
52	267.6	25/12	2.0	277.8	30/18	2.0	**288.0**	**36/24**	**0.6**	294.1	38/27	0.6	300.5	40/30
50	271.2	25/13	2.1	281.5	31/18	2.1	**291.9**	**36/25**	**0.6**	298.1	39/28	0.6	304.5	41/31
48	273.9	25/13	2.1	284.3	31/19	2.3	**295.6**	**36/25**	**0.6**	301.9	38/29	0.6	308.3	41/32
46	277.3	26/14	2.1	287.8	31/20	2.3	**299.3**	**37/26**	**0.6**	305.6	39/29	0.7	312.2	41/33
44	280.6	27/15	2.1	291.3	32/21	2.3	**302.9**	**37/27**	**0.7**	309.4	40/30	0.7	315.9	42/34
42	280.7	27/16	2.8	294.9	33/21	2.4	**306.7**	**38/28**	**0.7**	313.2	41/31	0.7	319.9	43/34
40	279.4	27/17	3.6	297.6	32/22	2.4	**309.8**	**37/28**	**0.7**	316.5	40/32	0.7	323.4	42/35
38	278.2	28/18	4.6	301.4	33/23	2.5	**313.7**	**38/29**	**0.7**	320.6	41/32	0.7	327.5	43/36
36	277.0	28/19	5.6	305.2	34/23	2.5	**317.7**	**39/30**	**0.7**	324.6	42/33	0.7	331.7	44/37
34	275.9	29/20	6.6	308.9	35/24	2.5	**321.6**	**40/31**	**0.7**	328.5	42/34	0.7	335.5	45/38
32	275.8	28/21	7.3	312.3	34/25	2.6	**325.1**	**39/31**	**0.7**	332.1	42/35	0.7	339.1	44/38
30	274.8	29/22	8.3	316.2	35/26	2.6	**329.1**	**40/32**	**0.7**	336.1	42/35	0.7	343.1	45/39
28	276.6	30/23	8.5	318.9	35/26	2.6	**331.8**	**40/33**	**0.7**	338.8	43/36	0.7	345.8	45/40
26	279.3	30/23	8.1	319.7	35/26	2.6	**332.7**	**41/33**	**0.7**	339.7	43/36	0.7	346.7	46/40
24	283.1	30/23	7.5	320.6	36/27	2.6	**333.5**	**41/33**	**0.7**	340.6	43/36	0.7	347.6	46/40
22	287.0	30/23	6.9	321.5	36/27	2.6	**334.4**	**41/33**	**0.7**	341.5	44/37	0.7	348.6	46/40
20	290.9	31/23	6.3	322.3	36/27	2.6	**335.3**	**41/34**	**0.7**	342.4	44/37	0.7	349.5	46/41
18	294.8	31/22	5.7	323.2	37/27	2.6	**336.2**	**42/34**	**0.7**	343.3	44/37	0.7	350.4	47/41
16	299.0	31/22	5.0	324.1	37/28	2.6	**337.1**	**42/34**	**0.7**	344.2	44/37	0.7	351.4	47/41
14	302.5	31/22	4.5	325.0	37/28	2.6	**338.1**	**42/34**	**0.7**	345.1	45/38	0.7	352.3	47/41
12	305.9	32/22	4.0	325.9	37/28	2.6	**339.0**	**43/35**	**0.7**	346.1	45/38	0.7	353.3	47/42
10	309.3	32/22	3.5	326.9	38/28	2.6	**340.0**	**43/35**	**0.7**	347.0	45/38	0.7	354.3	48/42
8	312.7	32/22	3.0	327.8	38/29	2.6	**340.9**	**43/35**	**0.7**	348.0	46/39	0.7	355.3	48/42
6	316.1	33/22	2.5	328.8	38/29	2.6	**341.8**	**43/36**	**0.7**	349.0	46/39	0.7	356.3	48/42
4	317.4	33/23	2.5	329.7	38/29	2.6	**342.8**	**44/36**	**0.7**	350.0	46/39	0.7	357.3	49/43
2	318.4	33/23	2.5	330.7	39/29	2.6	**343.8**	**44/36**	**0.7**	351.0	46/39	0.7	358.4	49/43
0	319.3	33/23	2.5	331.6	39/30	2.6	**344.8**	**44/36**	**0.7**	352.0	47/40	0.7	359.4	49/43

P/C above 1013 + 0.1
P/C below 1013 - 0.5

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY ER) RWY 35C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.007% UP
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.4	41/31	0.0	292.6	48/38	0.0	**292.6**	**49/44**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	302.3	41/33	1.3	308.8	46/38	0.0	**308.8**	**53/45**	**0.0**	308.8	53/49	0.0	308.8	53/52
62	314.2	44/35	2.0	324.2	49/41	0.2	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/54
58	324.2	44/38	2.0	334.3	49/43	1.2	**340.3**	**54/49**	**0.0**	340.3	58/53	0.0	340.3	61/57
54	333.1	45/40	2.1	343.4	50/45	2.2	**354.5**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	337.3	46/39	2.1	347.7	51/44	2.3	**359.1**	**56/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
50	341.8	47/40	2.1	352.3	52/45	2.3	**364.0**	**56/51**	**0.4**	367.5	59/54	0.0	367.5	62/58
48	345.7	47/41	2.2	356.7	51/46	2.4	**368.7**	**56/52**	**0.5**	373.7	58/55	0.0	373.7	61/58
46	349.9	47/42	2.2	361.1	52/47	2.5	**373.4**	**57/52**	**0.7**	380.0	59/55	0.0	380.0	62/59
44	354.0	48/42	2.3	365.5	53/48	2.5	**378.0**	**58/53**	**0.7**	384.8	60/56	0.1	386.2	63/60
42	358.3	49/43	2.4	370.2	54/49	2.5	**382.9**	**58/54**	**0.9**	391.5	60/56	0.1	392.4	63/60
40	362.8	48/44	2.4	374.9	52/49	2.7	**388.4**	**57/55**	**1.0**	398.2	59/57	0.0	398.5	62/61
38	367.4	49/45	2.5	379.8	53/50	3.3	**396.5**	**57/55**	**0.7**	403.0	59/58	0.3	405.7	62/61
36	372.2	50/46	2.5	384.7	54/51	3.3	**401.3**	**58/56**	**0.7**	407.9	60/59	0.5	412.9	63/62
34	376.7	50/46	2.9	391.1	55/52	2.9	**405.8**	**59/57**	**0.7**	412.5	61/59	0.7	419.2	63/62
32	381.2	50/47	3.3	397.5	53/52	2.5	**410.1**	**58/57**	**0.7**	416.8	60/60	0.7	423.5	62/63
30	386.0	50/48	3.2	402.2	54/53	2.5	**414.8**	**59/58**	**0.7**	421.6	61/61	0.7	428.4	63/64
28	390.8	51/48	2.9	405.3	55/53	2.6	**418.1**	**60/59**	**0.7**	424.8	62/62	0.7	431.7	64/65
26	392.6	51/48	2.8	406.4	55/53	2.5	**419.1**	**60/59**	**0.7**	425.9	62/62	0.7	432.8	64/65
24	394.4	51/48	2.6	407.4	55/54	2.6	**420.2**	**60/59**	**0.7**	427.0	62/62	0.7	433.9	64/65
22	396.2	51/48	2.5	408.5	56/54	2.6	**421.3**	**60/60**	**0.7**	428.1	63/62	0.7	435.0	65/65
20	397.2	51/49	2.5	409.6	56/54	2.6	**422.4**	**61/60**	**0.7**	429.2	63/63	0.7	436.1	65/66
18	398.2	51/49	2.5	410.6	56/55	2.6	**423.4**	**61/60**	**0.7**	430.3	63/63	0.7	437.2	65/66
16	399.3	52/49	2.5	411.7	56/55	2.6	**424.5**	**61/60**	**0.7**	431.4	63/63	0.6	437.7	66/66
14	400.4	52/49	2.5	412.8	57/55	2.6	**425.7**	**62/61**	**0.7**	432.6	64/64	0.5	437.7	66/67
12	401.4	52/50	2.5	413.9	57/55	2.6	**426.8**	**62/61**	**0.7**	433.7	64/64	0.4	437.7	67/67
10	402.5	53/50	2.5	415.0	57/56	2.6	**428.0**	**62/61**	**0.7**	434.8	64/64	0.3	437.7	67/68
8	403.6	53/50	2.5	416.1	58/56	2.6	**429.2**	**62/62**	**0.7**	436.0	65/64	0.2	437.8	68/68
6	404.7	53/51	2.5	417.3	58/56	2.6	**430.3**	**63/62**	**0.7**	437.2	65/65	0.1	437.8	68/69
4	405.9	53/51	2.5	418.5	58/56	2.6	**431.5**	**63/62**	**0.6**	437.8	65/65	0.0	437.8	69/69
2	407.0	54/51	2.5	419.7	58/57	2.6	**432.7**	**63/62**	**0.5**	437.8	66/66	0.0	437.8	69/70
0	408.2	54/51	2.5	420.8	59/57	2.6	**433.9**	**64/63**	**0.4**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY ER) RWY 35L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.03% UP
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.2	41/31	0.1	292.6	48/38	0.0	**292.6**	**49/44**	**0.0**	292.6	49/48	0.0	292.6	49/49
66	302.1	41/33	1.3	308.8	46/38	0.0	**308.8**	**53/45**	**0.0**	308.8	53/48	0.0	308.8	53/52
62	313.9	44/35	2.0	323.9	48/41	0.2	**325.0**	**55/47**	**0.0**	325.0	58/51	0.0	325.0	58/54
58	323.9	44/38	2.0	334.1	49/43	1.2	**340.3**	**54/49**	**0.0**	340.3	58/53	0.0	340.3	61/56
54	332.9	45/40	2.1	343.2	50/45	2.2	**354.3**	**55/51**	**0.0**	354.5	58/54	0.0	354.5	61/58
52	337.1	46/39	2.1	347.5	51/44	2.3	**358.9**	**55/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
50	341.5	47/40	2.1	352.1	52/45	2.3	**363.7**	**56/51**	**0.4**	367.5	59/54	0.0	367.5	62/58
48	345.5	47/41	2.2	356.5	51/46	2.4	**368.4**	**56/52**	**0.5**	373.7	58/54	0.0	373.7	61/58
46	349.7	47/41	2.2	360.9	52/47	2.4	**373.1**	**57/52**	**0.7**	379.9	59/55	0.0	380.0	62/59
44	353.8	48/42	2.3	365.2	53/48	2.5	**377.8**	**58/53**	**0.7**	384.5	60/56	0.2	386.2	63/59
42	358.1	49/43	2.4	369.9	54/49	2.5	**382.6**	**58/54**	**0.9**	391.1	60/56	0.1	392.4	63/60
40	362.5	48/44	2.4	374.6	52/49	2.7	**388.0**	**57/55**	**1.0**	398.0	58/57	0.1	398.5	62/61
38	367.2	49/45	2.5	379.6	53/50	3.3	**396.2**	**57/55**	**0.7**	402.8	59/58	0.3	405.7	62/61
36	371.9	50/46	2.5	384.4	54/51	3.3	**401.0**	**58/56**	**0.7**	407.6	60/59	0.5	412.9	63/62
34	376.4	50/46	2.8	390.6	55/52	3.0	**405.5**	**59/57**	**0.7**	412.2	61/59	0.7	419.0	63/62
32	380.9	50/47	3.3	397.3	53/52	2.5	**409.8**	**58/57**	**0.7**	416.5	60/60	0.7	423.3	62/63
30	385.6	50/48	3.3	401.9	54/53	2.5	**414.5**	**59/58**	**0.7**	421.3	61/61	0.7	428.1	63/64
28	390.3	51/48	2.9	405.0	55/53	2.6	**417.8**	**60/59**	**0.7**	424.6	62/62	0.7	431.4	64/65
26	392.1	51/48	2.8	406.1	55/53	2.6	**418.9**	**60/59**	**0.7**	425.6	62/62	0.7	432.5	64/65
24	393.9	51/48	2.6	407.1	55/54	2.6	**420.0**	**60/59**	**0.7**	426.7	62/62	0.7	433.6	64/65
22	395.8	51/48	2.5	408.2	56/54	2.6	**421.0**	**60/60**	**0.7**	427.8	63/62	0.7	434.7	65/65
20	396.9	51/49	2.5	409.3	56/54	2.6	**422.1**	**61/60**	**0.7**	428.9	63/63	0.7	435.8	65/66
18	397.9	51/49	2.5	410.3	56/55	2.6	**423.2**	**61/60**	**0.7**	430.1	63/63	0.7	436.9	65/66
16	399.0	52/49	2.5	411.4	56/55	2.6	**424.3**	**61/60**	**0.7**	431.2	63/63	0.7	437.7	66/66
14	400.1	52/49	2.5	412.5	57/55	2.6	**425.4**	**62/61**	**0.7**	432.3	64/64	0.5	437.7	66/67
12	401.1	52/50	2.5	413.6	57/55	2.6	**426.5**	**62/61**	**0.7**	433.4	64/64	0.4	437.7	67/67
10	402.2	53/50	2.5	414.7	57/56	2.6	**427.7**	**62/61**	**0.7**	434.6	64/64	0.3	437.7	67/68
8	403.3	53/50	2.5	415.8	57/56	2.6	**428.9**	**62/62**	**0.7**	435.7	65/64	0.2	437.8	68/68
6	404.4	53/50	2.5	417.0	58/56	2.6	**430.1**	**63/62**	**0.7**	436.9	65/65	0.1	437.8	68/69
4	405.6	53/51	2.5	418.2	58/56	2.6	**431.2**	**63/62**	**0.7**	437.8	65/65	0.0	437.8	69/69
2	406.7	54/51	2.5	419.4	58/57	2.6	**432.4**	**63/62**	**0.5**	437.8	66/66	0.0	437.8	69/70
0	407.9	54/51	2.5	420.6	59/57	2.6	**433.6**	**64/63**	**0.4**	437.8	66/66	0.0	437.8	70/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY Q) RWY 35R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.612% DN
TOR	2591m (8500ft)	**ED**	2591m (8500ft)	**TOD**	2591m (8500ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	238.8	20/11	1.7	247.5	25/12	1.7	**256.0**	**30/18**	**0.5**	261.0	33/21	0.5	266.2	36/24
66	247.1	21/11	1.8	256.0	26/13	1.7	**264.7**	**32/19**	**0.5**	269.9	34/23	0.6	275.4	37/26
62	256.5	23/11	1.8	265.6	29/16	1.8	**274.7**	**34/22**	**0.6**	280.3	37/25	0.6	286.0	39/28
58	265.3	24/12	1.9	274.9	30/18	1.9	**284.5**	**35/24**	**0.6**	290.3	38/27	0.6	296.3	40/30
54	272.6	25/14	2.0	282.8	30/19	2.0	**292.9**	**36/26**	**0.6**	298.8	38/29	0.6	305.0	41/32
52	276.1	26/13	2.1	286.5	31/19	2.0	**296.7**	**37/25**	**0.6**	302.7	39/28	0.6	309.1	42/31
50	279.9	27/14	2.1	290.4	32/19	2.1	**300.8**	**38/26**	**0.6**	306.8	40/29	0.6	313.2	42/32
48	282.7	26/14	2.1	293.3	32/20	2.2	**304.4**	**37/26**	**0.6**	310.6	39/29	0.7	317.2	42/33
46	286.2	27/15	2.2	297.0	32/21	2.3	**308.3**	**38/27**	**0.6**	314.5	40/30	0.7	321.2	43/34
44	289.7	28/16	2.2	300.6	33/21	2.3	**312.0**	**38/28**	**0.6**	318.3	41/31	0.7	325.0	43/34
42	293.2	29/16	2.2	304.2	34/22	2.3	**315.8**	**39/29**	**0.7**	322.3	42/32	0.7	329.1	44/35
40	295.9	28/17	2.3	307.3	33/23	2.4	**319.3**	**39/29**	**0.7**	325.9	41/33	0.7	332.8	43/36
38	297.1	29/18	2.8	311.2	34/24	2.4	**323.3**	**39/30**	**0.7**	330.1	42/33	0.7	336.9	44/37
36	295.8	30/19	3.9	315.2	35/24	2.5	**327.5**	**40/31**	**0.7**	334.1	43/34	0.7	341.1	45/37
34	294.6	30/20	4.9	319.0	36/25	2.5	**331.4**	**41/32**	**0.7**	338.0	43/35	0.7	345.0	46/38
32	294.6	30/21	5.6	322.5	35/26	2.5	**334.9**	**40/32**	**0.7**	341.7	42/36	0.7	348.7	45/39
30	293.5	30/22	6.6	326.5	36/27	2.5	**339.0**	**41/33**	**0.7**	345.7	43/36	0.7	352.9	46/40
28	295.4	31/23	6.8	329.2	36/27	2.5	**341.7**	**41/34**	**0.7**	348.5	44/37	0.7	355.7	46/40
26	298.3	31/23	6.4	330.1	36/27	2.5	**342.5**	**42/34**	**0.7**	349.4	44/37	0.7	356.7	47/41
24	301.7	31/23	5.9	331.0	37/28	2.5	**343.4**	**42/34**	**0.7**	350.3	44/37	0.7	357.6	47/41
22	304.9	32/23	5.4	331.8	37/28	2.5	**344.3**	**42/34**	**0.7**	351.2	45/38	0.7	358.6	47/41
20	308.1	32/23	4.9	332.7	37/28	2.5	**345.2**	**42/35**	**0.7**	352.2	45/38	0.7	359.6	47/41
18	311.4	32/23	4.4	333.6	37/28	2.5	**346.2**	**43/35**	**0.7**	353.1	45/38	0.8	360.6	48/42
16	314.7	32/23	4.0	334.5	38/28	2.5	**347.1**	**43/35**	**0.7**	354.1	45/38	0.8	361.6	48/42
14	323.2	33/22	2.4	335.4	38/29	2.5	**348.1**	**43/35**	**0.7**	355.0	46/39	0.8	362.6	48/42
12	324.1	33/23	2.4	336.3	38/29	2.5	**349.0**	**44/36**	**0.7**	356.0	46/39	0.8	363.6	48/42
10	325.0	33/23	2.5	337.3	38/29	2.5	**350.0**	**44/36**	**0.7**	357.0	46/39	0.8	364.6	49/43
8	325.9	33/23	2.5	338.3	39/29	2.5	**351.0**	**44/36**	**0.7**	358.0	47/39	0.8	365.7	49/43
6	326.9	34/23	2.5	339.2	39/30	2.6	**352.0**	**44/36**	**0.7**	359.1	47/40	0.8	366.8	49/43
4	327.9	34/24	2.5	340.2	39/30	2.6	**353.0**	**45/37**	**0.7**	360.1	47/40	0.8	367.9	50/43
2	328.8	34/24	2.5	341.2	40/30	2.6	**354.0**	**45/37**	**0.7**	361.2	47/40	0.8	369.0	50/44
0	329.8	35/24	2.5	342.1	40/31	2.6	**355.0**	**45/37**	**0.7**	362.2	48/41	0.8	370.1	50/44

P/C above 1013 + 0.1
P/C below 1013 - 0.9

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY C/WR) RWY 36L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.187% UP
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	290.1	41/31	0.5	292.6	47/37	0.0	**292.6**	**49/44**	**0.0**	292.6	49/47	0.0	292.6	49/49
66	300.4	41/33	1.7	308.8	46/38	0.0	**308.8**	**52/44**	**0.0**	308.8	53/48	0.0	308.8	53/52
62	311.8	44/35	2.1	322.1	48/40	0.6	**325.0**	**54/47**	**0.0**	325.0	58/50	0.0	325.0	58/54
58	321.7	44/38	2.1	332.3	48/43	1.6	**340.3**	**54/49**	**0.0**	340.3	57/52	0.0	340.3	60/56
54	330.7	45/40	2.1	341.0	50/45	2.3	**352.4**	**54/50**	**0.2**	354.5	57/54	0.0	354.5	60/57
52	334.8	46/39	2.1	345.3	50/44	2.3	**356.9**	**55/49**	**0.4**	361.0	58/52	0.0	361.0	61/56
50	339.3	47/39	2.1	349.8	51/45	2.4	**361.7**	**56/50**	**0.6**	367.5	58/53	0.0	367.5	62/57
48	343.1	46/40	2.2	354.1	51/46	2.4	**366.0**	**56/51**	**0.7**	372.9	58/54	0.1	373.7	61/58
46	347.3	47/41	2.2	358.5	52/47	2.4	**370.7**	**57/52**	**0.7**	377.7	59/55	0.2	380.0	61/58
44	351.4	48/42	2.3	362.8	53/47	2.5	**375.3**	**57/53**	**0.7**	382.4	59/56	0.4	386.2	62/59
42	355.6	49/43	2.4	367.4	53/48	2.5	**380.1**	**58/54**	**0.7**	386.9	60/57	0.6	392.4	63/60
40	360.0	48/44	2.4	372.1	52/49	2.6	**385.0**	**57/55**	**1.1**	395.9	58/57	0.3	398.5	61/60
38	364.6	48/44	2.5	376.9	53/50	3.0	**392.1**	**57/55**	**0.9**	400.8	59/57	0.5	405.7	61/61
36	369.3	49/45	2.5	381.8	54/51	3.4	**398.6**	**58/56**	**0.7**	405.2	60/58	0.7	412.2	62/61
34	373.8	50/46	2.5	386.5	55/51	3.3	**403.0**	**59/56**	**0.7**	409.8	61/59	0.7	416.9	63/62
32	378.2	49/47	3.1	393.7	53/52	2.7	**407.3**	**58/57**	**0.7**	414.0	60/60	0.7	420.8	62/63
30	382.9	50/47	3.3	399.3	54/52	2.5	**412.0**	**59/58**	**0.7**	418.8	61/61	0.7	425.6	63/64
28	386.2	51/48	3.3	402.5	55/53	2.6	**415.3**	**59/59**	**0.7**	422.1	62/61	0.7	429.0	64/64
26	387.4	51/48	3.2	403.5	55/53	2.6	**416.3**	**60/59**	**0.7**	423.1	62/62	0.7	430.1	64/65
24	389.2	51/48	3.1	404.5	55/53	2.6	**417.4**	**60/59**	**0.7**	424.2	62/62	0.7	431.1	64/65
22	391.0	51/49	2.9	405.6	55/54	2.6	**418.5**	**60/59**	**0.7**	425.3	62/62	0.7	432.2	64/65
20	392.9	51/49	2.7	406.6	56/54	2.6	**419.6**	**61/60**	**0.7**	426.4	63/62	0.7	433.3	65/65
18	394.7	51/49	2.6	407.7	56/54	2.6	**420.6**	**61/60**	**0.7**	427.5	63/63	0.7	434.8	65/66
16	396.3	52/49	2.5	408.8	56/54	2.6	**421.7**	**61/60**	**0.7**	428.6	63/63	0.7	435.9	65/66
14	397.4	52/49	2.5	409.9	56/55	2.6	**422.8**	**61/60**	**0.7**	429.8	63/63	0.7	437.0	66/66
12	398.5	52/49	2.5	411.0	57/55	2.6	**423.9**	**62/61**	**0.7**	430.9	64/64	0.7	437.7	66/67
10	399.5	52/50	2.5	412.1	57/55	2.6	**425.1**	**62/61**	**0.7**	432.4	64/64	0.5	437.7	66/67
8	400.6	53/50	2.5	413.2	57/56	2.6	**426.2**	**62/61**	**0.7**	433.6	64/64	0.4	437.8	67/68
6	401.7	53/50	2.5	414.3	58/56	2.6	**427.4**	**62/62**	**0.7**	434.7	65/64	0.3	437.8	67/68
4	402.8	53/50	2.5	415.4	58/56	2.6	**428.6**	**63/62**	**0.7**	435.9	65/65	0.2	437.8	68/68
2	403.9	53/51	2.5	416.6	58/56	2.7	**430.2**	**63/62**	**0.7**	437.1	65/65	0.1	437.8	68/69
0	405.1	54/51	2.5	417.8	58/57	2.7	**431.4**	**63/62**	**0.6**	437.8	66/65	0.0	437.8	69/69

P/C above 1013 + 0.2
P/C below 1013 - 0.8

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DALLAS**

A/D Elev **607ft** **FT WORTH INTL (KDFW)**

F/L (TWY WR) RWY 36R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.202% UP
TOR	4084m (13398ft)	**ED**	4084m (13398ft)	**TOD**	4084m (13398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	290.6	41/31	0.4	292.6	47/37	0.0	**292.6**	**49/44**	**0.0**	292.6	49/47	0.0	292.6	49/49
66	300.3	41/33	1.7	308.8	46/38	0.0	**308.8**	**52/44**	**0.0**	308.8	53/48	0.0	308.8	53/51
62	312.0	44/35	2.0	322.0	48/40	0.6	**325.0**	**54/47**	**0.0**	325.0	58/50	0.0	325.0	58/54
58	321.9	44/38	2.1	332.2	48/43	1.6	**340.3**	**54/49**	**0.0**	340.3	57/52	0.0	340.3	60/56
54	330.8	45/40	2.1	341.2	49/45	2.2	**352.3**	**54/50**	**0.2**	354.5	57/54	0.0	354.5	60/57
52	335.0	46/39	2.1	345.4	50/44	2.3	**356.8**	**55/49**	**0.4**	361.0	58/52	0.0	361.0	61/56
50	339.5	47/39	2.1	350.0	51/45	2.3	**361.6**	**56/50**	**0.6**	367.5	58/53	0.0	367.5	62/57
48	343.3	46/40	2.2	354.3	51/46	2.4	**366.2**	**56/51**	**0.7**	372.8	58/54	0.1	373.7	61/58
46	347.4	47/41	2.2	358.6	52/47	2.5	**370.9**	**56/52**	**0.7**	377.6	59/55	0.2	380.0	61/58
44	351.5	48/42	2.3	362.9	52/47	2.5	**375.5**	**57/53**	**0.7**	382.3	59/56	0.4	386.2	62/59
42	355.8	49/43	2.3	367.5	53/48	2.6	**380.3**	**58/54**	**0.7**	387.3	60/56	0.5	392.4	63/59
40	360.1	48/44	2.4	372.2	52/49	2.6	**385.2**	**57/55**	**1.1**	395.7	58/57	0.3	398.5	61/60
38	364.7	48/44	2.5	377.1	53/50	3.1	**392.4**	**57/55**	**0.8**	400.6	59/57	0.5	405.7	61/61
36	369.4	49/45	2.5	382.0	54/51	3.4	**398.8**	**58/55**	**0.7**	405.4	60/58	0.7	412.1	62/61
34	373.9	50/46	2.5	386.6	55/51	3.3	**403.3**	**59/56**	**0.7**	410.0	61/59	0.7	416.7	63/62
32	378.3	49/47	3.1	394.0	53/52	2.7	**407.5**	**58/57**	**0.7**	414.2	60/60	0.7	421.0	62/63
30	383.0	50/47	3.3	399.5	54/52	2.5	**412.2**	**59/58**	**0.7**	419.1	61/61	0.7	425.8	63/64
28	386.3	51/48	3.3	402.6	54/53	2.6	**415.4**	**59/58**	**0.7**	422.3	61/61	0.7	429.2	64/64
26	387.6	51/48	3.2	403.6	55/53	2.6	**416.5**	**60/59**	**0.7**	423.4	62/62	0.7	430.3	64/65
24	389.4	51/48	3.1	404.7	55/53	2.6	**417.6**	**60/59**	**0.7**	424.4	62/62	0.7	431.3	64/65
22	391.3	51/48	2.9	405.7	55/54	2.6	**418.7**	**60/59**	**0.7**	425.5	62/62	0.7	432.4	64/65
20	393.1	51/49	2.7	406.8	56/54	2.6	**419.8**	**60/60**	**0.7**	426.6	63/62	0.7	433.5	65/65
18	395.0	51/49	2.6	407.9	56/54	2.6	**420.8**	**61/60**	**0.7**	427.7	63/63	0.7	434.6	65/66
16	396.5	51/49	2.5	409.0	56/54	2.6	**421.9**	**61/60**	**0.7**	428.9	63/63	0.7	435.7	65/66
14	397.5	52/49	2.5	410.1	56/55	2.6	**423.0**	**61/60**	**0.7**	430.0	63/63	0.7	436.9	65/66
12	398.6	52/49	2.5	411.2	57/55	2.6	**424.2**	**61/61**	**0.7**	431.1	64/64	0.7	437.7	66/67
10	399.7	52/50	2.5	412.3	57/55	2.6	**425.3**	**62/61**	**0.7**	432.3	64/64	0.5	437.7	66/67
8	400.8	52/50	2.5	413.4	57/55	2.6	**426.5**	**62/61**	**0.7**	433.4	64/64	0.4	437.8	67/68
6	401.9	53/50	2.5	414.5	57/56	2.6	**427.6**	**62/61**	**0.7**	434.6	65/64	0.3	437.8	67/68
4	403.0	53/50	2.5	415.7	58/56	2.6	**428.8**	**63/62**	**0.7**	435.8	65/65	0.2	437.8	68/68
2	404.1	53/51	2.5	416.8	58/56	2.7	**430.1**	**63/62**	**0.7**	437.0	65/65	0.1	437.8	68/69
0	405.3	54/51	2.5	418.0	58/57	2.6	**431.2**	**63/62**	**0.7**	437.8	66/65	0.0	437.8	69/69

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400** LANDING DATA **DETROIT**

A/D Elev **640ft** Max wt Permitted (For pre flt planning) **285,760kg** **WAYNE COUNTY (KDTW)**

RUNWAY	03L	03R	04L	04R
Landing Distance Available	2591m / 8501ft	3048m / 10000ft	3048m / 10000ft	3503m / 11494ft
Notes				
WAT LIMIT °C : Man / Auto	53°	53° / 53°	53°/53°	53°/53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	281.0 (261.0)	8kt (2kt)	8kt (2kt)	15kt (9kt)
25F Zero HW wt or TW (Autoland)		8kt (2kt)	8kt (2kt)	15kt (9kt)
25F Slippery Zero HW wt or TW (Manual)	209.0	250.0	250.0	281.0
25F Slippery Zero HW wt or TW (Autoland)		250.0	250.0	281.0
30F Zero HW wt or TW (Manual)	281.0 (280.8)	8kt (2kt)	8kt (2kt)	15kt
30F Zero HW wt or TW (Autoland)		8kt (2kt)	8kt (2kt)	15kt
30F Slippery Zero HW wt or TW (Manual)	232.0	275.0	275.0	3kt
30F Slippery Zero HW wt or TW (Autoland)		275.0	275.0	3kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DETROIT**

A/D Elev **640ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **WAYNE COUNTY (KDTW)**

RUNWAY	09L	09R	21L	21R
Landing Distance Available	2627m / 8618ft	2591m / 8501ft	3048m / 10000ft	2591m / 8501ft
Slope	.03DN	.08DN	.01UP	.07DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53°	53°
25F Zero HW wt or TW (Manual)	0kt (268.0)	281.0 (261.0)	8kt (2kt)	281.0 (261.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	213.0	209.0	250.0	209.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	0kt (280.8)	281.0 (280.8)	8kt (2kt)	281.0 (280.8)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	238.0	232.0	275.0	232.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DETROIT**

A/D Elev **640ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **WAYNE COUNTY (KDTW)**

RUNWAY	22L	22R	27L	27R
Landing Distance Available	3658m / 12001ft	3048m / 10000ft	2591m / 8501ft	2652m / 8700ft
Slope	.02UP	.03UP	.08UP	.03UP
Notes				Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°	53°	53°
25F Zero HW wt or TW (Manual)	15kt (12kt)	8kt (2kt)	281.0 (261.0)	0kt (268.0)
25F Zero HW wt or TW (Autoland)	15kt (12kt)			
25F Slippery Zero HW wt or TW (Manual)	1kt	250.0	209.0	214.0
25F Slippery Zero HW wt or TW (Autoland)	1kt			
30F Zero HW wt or TW (Manual)	15kt (12kt)	8kt (2kt)	281.0 (280.8)	0kt (280.8)
30F Zero HW wt or TW (Autoland)	15kt (12kt)			
30F Slippery Zero HW wt or TW (Manual)	1kt	275.0	232.0	239.0
30F Slippery Zero HW wt or TW (Autoland)	1kt			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS 27R**: Glideslope gives only 23ft wheel height at threshold.

BRITISH AIRWAYS **B747-400** LANDING DATA **NEWARK (KEWR)**

A/D Elev **18ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	04L	04R	22L	22R
Landing Distance Available	2579m / 8459ft	2679m / 8787ft	2502m / 8206ft	2914m / 9560ft
Slope	NIL	.01DN	.01UP	NIL
Notes			Note 1	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°/54°	54°
25F Zero HW wt or TW (Manual)	283.6 (266.3)	1kt (271.8)	277.0 (257.0)	6kt (1kt)
25F Zero HW wt or TW (Autoland)		1kt (271.8)	277.0 (257.0)	
25F Slippery Zero HW wt or TW (Manual)	216.3	226.0	209.4	246.9
25F Slippery Zero HW wt or TW (Autoland)		226.0	209.4	
30F Zero HW wt or TW (Manual)	4kt (284.6)	7kt (285.7)	2kt (276.6)	12kt (7kt)
30F Zero HW wt or TW (Autoland)		7kt (285.7)	2kt (276.6)	
30F Slippery Zero HW wt or TW (Manual)	237.8	246.8	230.5	268..4
30F Slippery Zero HW wt or TW (Autoland)		246.8	230.5	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 22L**: Glideslope gives only 22ft wheel height at displaced threshold.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY AA) RWY 04L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3352m (10997ft)	**ED**	3352m (10997ft)	**TOD**	3352m (10997ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	273.0	32/22	1.5	280.7	38/28	1.4	**287.5**	**43/34**	**0.4**	291.4	46/37	0.4	295.3	48/40
66	282.5	35/24	1.9	292.0	40/29	1.6	**299.9**	**45/35**	**0.4**	304.0	47/38	0.4	308.2	50/41
62	293.5	37/26	2.0	303.4	42/31	1.9	**312.8**	**47/37**	**0.5**	317.3	50/40	0.5	321.8	52/44
58	303.1	38/28	2.1	313.7	43/34	2.1	**324.0**	**48/40**	**0.6**	329.8	50/43	0.5	334.4	52/46
54	311.3	39/30	2.2	322.3	44/36	2.2	**333.4**	**48/42**	**0.6**	339.2	51/45	0.6	345.3	53/48
52	315.4	39/29	2.2	326.5	44/35	2.2	**337.6**	**49/41**	**0.6**	343.5	52/44	0.6	349.8	54/47
50	318.9	39/30	2.3	330.2	44/36	2.3	**341.8**	**49/41**	**0.6**	348.0	51/44	0.6	354.4	53/48
48	323.0	40/31	2.3	334.3	45/37	2.3	**346.0**	**50/42**	**0.6**	352.3	52/45	0.7	358.9	54/49
46	327.0	41/32	2.3	338.4	46/37	2.4	**350.2**	**50/43**	**0.6**	356.6	53/46	0.7	363.4	55/49
44	331.0	41/32	2.3	342.3	46/38	2.4	**354.3**	**51/44**	**0.7**	360.9	54/47	0.7	367.8	56/50
42	334.6	40/33	2.3	346.3	45/39	2.5	**358.6**	**50/45**	**0.7**	365.4	52/48	0.7	372.5	55/51
40	338.7	41/34	2.4	350.5	46/40	2.5	**363.1**	**51/46**	**0.7**	370.1	53/49	0.7	377.2	55/52
38	342.8	42/35	2.4	354.8	47/40	2.6	**367.7**	**52/46**	**0.7**	374.8	54/49	0.7	382.1	56/53
36	347.0	43/35	2.5	359.3	48/41	2.6	**372.5**	**53/47**	**0.7**	379.7	55/50	0.8	387.2	57/54
34	351.1	42/36	2.5	363.6	47/42	2.7	**377.0**	**52/48**	**0.7**	384.3	54/51	1.1	395.1	56/54
32	354.9	43/37	2.6	367.7	48/43	2.7	**381.3**	**53/49**	**0.9**	389.9	55/52	1.0	399.7	56/54
30	359.2	44/38	2.6	372.2	49/43	2.8	**386.0**	**54/50**	**1.1**	397.2	55/52	0.7	404.3	57/55
28	360.2	44/38	2.6	373.3	49/44	2.8	**387.2**	**54/50**	**1.1**	398.2	55/52	0.7	405.3	57/55
26	361.1	44/38	2.6	374.3	49/44	2.9	**389.0**	**54/50**	**1.0**	399.3	56/52	0.7	406.4	58/56
24	362.1	44/38	2.6	375.3	49/44	3.1	**390.8**	**54/50**	**1.0**	400.3	56/53	0.7	407.4	58/56
22	363.1	45/39	2.7	376.4	50/44	3.3	**392.7**	**54/50**	**0.9**	401.3	56/53	0.7	408.5	58/56
20	364.1	45/39	2.7	377.5	50/45	3.4	**394.5**	**54/50**	**0.8**	402.3	56/53	0.7	409.6	58/56
18	365.1	45/39	2.7	378.5	50/45	3.5	**396.2**	**54/50**	**0.7**	403.4	57/53	0.7	410.7	59/57
16	366.1	45/39	2.7	379.6	50/45	3.5	**397.3**	**55/51**	**0.7**	404.5	57/54	0.7	411.7	59/57
14	367.2	46/40	2.7	380.7	51/46	3.5	**398.4**	**55/51**	**0.7**	405.6	57/54	0.7	412.8	59/57
12	368.2	46/40	2.7	381.8	51/46	3.5	**399.4**	**55/51**	**0.7**	406.7	57/54	0.7	413.9	60/58
10	369.3	46/40	2.7	382.9	51/46	3.5	**400.5**	**55/51**	**0.7**	407.8	58/54	0.7	415.1	60/58
8	370.4	47/40	2.7	384.1	51/46	3.5	**401.6**	**56/52**	**0.7**	408.9	58/55	0.7	416.2	60/58
6	371.5	47/41	2.7	385.2	52/47	3.5	**402.7**	**56/52**	**0.7**	410.1	58/55	0.7	417.4	60/58
4	372.6	47/41	2.8	386.4	52/47	3.5	**403.9**	**56/52**	**0.7**	411.2	59/55	0.7	418.6	61/59
2	373.7	47/41	2.9	388.0	52/47	3.4	**405.0**	**57/52**	**0.7**	412.4	59/56	0.7	419.8	61/59
0	374.9	48/41	3.0	390.0	52/47	3.2	**406.2**	**57/53**	**0.7**	413.5	59/56	0.8	421.0	61/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY P1) RWY 04R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.01% DN
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	261.3	28/17	1.8	270.1	33/22	1.7	**278.7**	**39/28**	**0.5**	283.7	41/31	0.4	288.1	43/34
66	270.2	30/18	1.9	279.5	36/24	1.8	**288.5**	**41/30**	**0.5**	293.9	43/33	0.6	299.5	45/36
62	280.6	33/21	1.9	290.3	38/26	1.9	**299.8**	**43/32**	**0.6**	305.4	46/35	0.6	311.2	48/38
58	290.1	34/23	2.1	300.5	39/28	2.0	**310.5**	**44/34**	**0.6**	316.3	46/37	0.6	322.4	48/41
54	297.9	34/24	2.1	308.5	40/30	2.2	**319.6**	**45/36**	**0.6**	325.6	47/39	0.6	331.8	49/43
52	301.8	35/24	2.2	312.6	40/29	2.2	**323.8**	**46/35**	**0.6**	330.0	48/39	0.6	336.0	50/42
50	305.0	35/24	2.2	316.0	40/30	2.4	**328.0**	**45/36**	**0.6**	334.2	47/39	0.6	340.4	49/43
48	309.0	35/25	2.2	320.1	41/31	2.4	**332.1**	**46/37**	**0.6**	338.4	48/40	0.6	344.6	50/43
46	312.8	36/26	2.3	324.1	42/32	2.4	**336.1**	**47/38**	**0.6**	342.5	49/41	0.6	348.8	51/44
44	316.6	37/27	2.3	328.0	42/33	2.4	**340.1**	**47/39**	**0.6**	346.4	50/42	0.7	352.9	52/45
42	320.0	36/27	2.3	331.7	41/33	2.5	**344.0**	**46/39**	**0.7**	350.6	49/43	0.7	357.1	51/46
40	323.9	37/28	2.4	335.7	42/34	2.5	**348.2**	**47/40**	**0.7**	354.8	49/43	0.7	361.5	52/47
38	328.1	38/29	2.4	339.9	43/35	2.5	**352.4**	**48/41**	**0.7**	359.2	50/44	0.7	366.1	52/48
36	332.2	39/30	2.4	344.0	44/36	2.6	**356.8**	**49/42**	**0.7**	363.8	51/45	0.7	370.8	53/48
34	336.0	38/30	2.4	348.0	43/36	2.6	**361.0**	**48/43**	**0.7**	368.1	50/46	0.7	375.3	53/49
32	339.8	39/31	2.4	351.8	44/37	2.6	**365.0**	**49/43**	**0.7**	372.3	51/47	0.7	379.6	53/50
30	343.7	39/32	2.4	355.9	45/38	2.7	**369.5**	**50/44**	**0.7**	376.9	52/47	0.7	384.3	54/51
28	344.6	40/32	2.5	356.9	45/38	2.7	**370.6**	**50/44**	**0.8**	378.1	52/48	0.7	385.4	54/51
26	345.5	40/32	2.5	357.9	45/38	2.7	**371.6**	**50/45**	**0.8**	379.1	52/48	0.7	386.5	55/51
24	346.4	40/33	2.5	358.8	45/39	2.8	**372.6**	**50/45**	**0.8**	380.2	53/48	0.8	387.9	55/51
22	347.3	40/33	2.5	359.8	46/39	2.8	**373.6**	**51/45**	**0.8**	381.2	53/48	0.9	389.8	55/52
20	348.3	41/33	2.5	360.8	46/39	2.8	**374.7**	**51/45**	**0.8**	382.3	53/49	0.9	391.6	55/52
18	349.2	41/33	2.5	361.8	46/39	2.8	**375.8**	**51/46**	**0.8**	383.3	54/49	1.0	393.5	55/52
16	350.2	41/34	2.5	362.8	46/40	2.8	**376.8**	**52/46**	**0.8**	384.4	54/49	1.1	395.4	55/52
14	351.1	41/34	2.5	363.8	47/40	2.8	**377.9**	**52/46**	**0.8**	385.5	54/49	1.1	396.7	56/52
12	352.1	42/34	2.5	364.8	47/40	2.9	**379.1**	**52/47**	**0.8**	386.6	54/50	1.1	397.8	56/52
10	353.1	42/34	2.6	365.9	47/40	2.9	**380.2**	**52/47**	**0.8**	388.4	55/50	1.1	398.9	56/53
8	354.0	42/35	2.6	367.0	48/41	2.9	**381.3**	**53/47**	**0.9**	390.3	55/50	1.0	400.0	56/53
6	355.1	43/35	2.6	368.0	48/41	2.9	**382.4**	**53/47**	**1.0**	392.3	55/50	0.9	401.1	57/53
4	356.1	43/35	2.6	369.2	48/41	2.9	**383.6**	**53/48**	**1.1**	394.3	55/50	0.8	402.2	57/53
2	357.1	43/35	2.6	370.3	48/42	2.9	**384.7**	**54/48**	**1.2**	396.2	55/50	0.7	403.3	57/54
0	358.2	43/36	2.6	371.4	49/42	2.9	**385.9**	**54/48**	**1.1**	397.3	55/51	0.7	404.5	58/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY W/Z) RWY 11

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.104% DN
TOR	2050m (6725ft)	**ED**	2050m (6725ft)	**TOD**	2050m (6725ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		11/		222.4	15/11	1.8	**231.3**	**21/11**	**0.5**	236.7	23/12	0.5	242.1	26/15
66		11/		229.2	17/11	2.1	**239.5**	**22/11**	**0.6**	245.1	25/13	0.6	250.7	28/16
62		13/		229.2	19/11	3.9	**248.9**	**24/12**	**0.6**	254.6	27/15	0.6	260.3	30/18
58		15/		229.2	20/11	5.7	**257.6**	**26/13**	**0.6**	263.5	29/17	0.6	269.4	32/20
54		16/		229.0	21/12	7.2	**265.0**	**27/15**	**0.6**	271.1	30/19	0.6	277.2	33/22
52		16/		227.9	22/13	8.1	**268.5**	**28/15**	**0.6**	274.6	31/18	0.6	280.9	33/21
50		16/		226.8	22/14	9.0	**272.0**	**28/15**	**0.6**	278.4	30/19	0.6	284.7	33/22
48		17/		225.8	23/14	9.9	**275.5**	**28/16**	**0.7**	282.0	31/19	0.6	288.4	34/23
46		18/		224.8	24/15	10.8	**278.9**	**29/17**	**0.7**	285.4	32/20	0.7	292.0	34/23
44		18/		223.7	24/16	11.7	**282.2**	**30/17**	**0.7**	288.9	33/21	0.7	295.4	35/24
42		18/		222.6	24/17	12.6	**285.6**	**29/18**	**0.7**	292.3	32/21	0.7	299.0	34/25
40		19/		221.4	24/18	13.6	**289.2**	**30/19**	**0.7**	295.9	33/22	0.7	302.7	35/25
38		19/		220.4	25/19	14.5	**292.8**	**31/19**	**0.7**	299.7	33/23	0.7	306.6	36/26
36		20/		219.3	26/20	14.7	**293.0**	**31/20**	**1.1**	303.5	34/23	0.7	310.5	37/27
34		21/		218.3	25/21	14.7	**291.7**	**31/21**	**1.6**	307.2	34/24	0.7	314.2	36/28
32		22/		218.2	26/22	14.7	**291.6**	**32/22**	**1.9**	310.7	34/25	0.7	317.8	37/28
30		23/		217.3	27/23	14.6	**290.4**	**32/24**	**2.4**	314.4	35/25	0.7	321.6	38/29
28		23/		220.4	27/23	14.8	**294.3**	**33/24**	**2.1**	315.3	35/26	0.7	322.5	38/29
26		23/		223.5	27/23	14.9	**298.2**	**33/23**	**1.8**	316.2	36/26	0.7	323.4	38/30
24		23/		226.6	28/23	15.0	**301.7**	**33/23**	**1.5**	317.0	36/26	0.7	324.3	38/30
22		23/		229.9	28/23	15.0	**304.9**	**33/23**	**1.3**	317.9	36/26	0.7	325.1	39/30
20		23/		233.2	28/23	15.7	**311.5**	**34/23**	**0.7**	318.8	36/27	0.7	326.0	39/30
18		23/		236.5	28/23	15.2	**312.3**	**34/23**	**0.7**	319.7	37/27	0.7	326.9	39/31
16		23/		240.2	29/23	14.6	**313.2**	**34/24**	**0.7**	320.6	37/27	0.7	327.9	39/31
14		23/		244.0	29/23	14.0	**314.1**	**34/24**	**0.7**	321.5	37/28	0.7	328.8	40/31
12		23/		247.9	29/23	13.4	**315.0**	**35/24**	**0.7**	322.4	37/28	0.7	329.7	40/31
10		24/		251.8	29/23	12.8	**315.9**	**35/24**	**0.7**	323.3	38/28	0.7	330.6	40/32
8		24/		255.8	30/23	12.2	**316.8**	**35/25**	**0.7**	324.2	38/28	0.7	331.5	41/32
6		24/		259.8	30/23	11.6	**317.7**	**36/25**	**0.8**	325.2	38/29	0.7	332.5	41/32
4		24/		264.0	30/23	10.9	**318.7**	**36/25**	**0.7**	326.1	39/29	0.7	333.4	41/32
2		25/		268.2	30/23	10.3	**319.7**	**36/25**	**0.7**	327.1	39/29	0.7	334.3	41/33
0	202.2	25/23	14.0	272.4	31/23	9.6	**320.6**	**36/26**	**0.7**	328.0	39/29	0.7	335.3	42/33

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY Z) RWY 22L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.01% UP
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.3	29/18	1.7	268.9	34/23	1.7	**277.3**	**39/29**	**0.5**	282.4	42/32	0.5	287.7	44/35
66	269.2	31/19	1.8	278.3	36/25	1.8	**287.2**	**42/30**	**0.5**	292.5	44/33	0.6	298.0	46/36
62	279.7	33/21	1.9	289.3	39/27	1.8	**298.5**	**44/33**	**0.6**	304.1	46/36	0.6	309.8	49/39
58	289.7	34/23	2.0	299.7	39/29	1.9	**309.3**	**45/35**	**0.6**	315.0	47/38	0.6	321.0	49/41
54	297.5	35/25	2.1	308.1	40/31	2.1	**318.5**	**45/37**	**0.6**	324.4	48/40	0.6	330.6	50/43
52	301.4	36/24	2.2	312.2	41/30	2.1	**322.7**	**46/36**	**0.6**	328.8	49/39	0.6	334.8	51/42
50	304.7	35/25	2.2	315.6	40/31	2.3	**327.1**	**46/37**	**0.6**	333.1	48/40	0.6	339.2	50/43
48	308.6	36/26	2.2	319.8	41/32	2.3	**331.3**	**46/38**	**0.6**	337.3	49/41	0.6	343.5	51/44
46	312.5	37/27	2.2	323.7	42/32	2.3	**335.3**	**47/39**	**0.6**	341.5	50/42	0.6	347.6	52/45
44	316.3	38/27	2.3	327.7	43/33	2.3	**339.3**	**48/39**	**0.6**	345.4	50/42	0.6	351.8	53/46
42	319.7	37/28	2.3	331.3	42/34	2.4	**343.4**	**47/40**	**0.6**	349.7	49/43	0.6	356.1	51/47
40	323.7	38/29	2.3	335.4	43/35	2.4	**347.6**	**48/41**	**0.6**	353.9	50/44	0.7	360.5	52/47
38	327.8	39/30	2.4	339.6	44/36	2.5	**351.9**	**49/42**	**0.7**	358.4	51/45	0.7	365.1	53/48
36	332.0	39/30	2.3	343.7	45/36	2.5	**356.3**	**50/43**	**0.7**	362.9	52/46	0.7	369.9	54/49
34	335.8	38/31	2.4	347.7	44/37	2.6	**360.6**	**49/43**	**0.7**	367.4	51/47	0.7	374.4	53/50
32	339.5	39/32	2.4	351.5	44/38	2.6	**364.6**	**50/44**	**0.7**	371.5	52/47	0.7	378.8	54/51
30	343.5	40/32	2.4	355.7	45/38	2.7	**369.1**	**50/45**	**0.7**	376.2	53/48	0.7	383.5	55/51
28	344.4	40/33	2.5	356.7	45/39	2.7	**370.2**	**51/45**	**0.7**	377.3	53/48	0.7	384.5	55/52
26	345.3	40/33	2.5	357.6	46/39	2.7	**371.1**	**51/45**	**0.7**	378.3	53/49	0.7	385.6	55/52
24	346.2	41/33	2.5	358.5	46/39	2.7	**372.2**	**51/46**	**0.7**	379.4	53/49	0.7	386.6	56/52
22	347.1	41/33	2.5	359.5	46/39	2.7	**373.2**	**51/46**	**0.7**	380.4	54/49	0.8	388.2	56/52
20	348.0	41/34	2.5	360.5	47/40	2.7	**374.2**	**52/46**	**0.7**	381.4	54/49	0.9	389.9	56/53
18	348.9	41/34	2.5	361.5	47/40	2.7	**375.2**	**52/46**	**0.7**	382.4	54/50	0.9	391.7	56/53
16	349.9	42/34	2.5	362.4	47/40	2.8	**376.3**	**52/47**	**0.7**	383.5	54/50	1.0	393.5	56/53
14	350.8	42/34	2.5	363.4	47/41	2.8	**377.4**	**52/47**	**0.7**	384.6	55/50	1.1	395.4	56/53
12	351.8	42/35	2.5	364.5	48/41	2.8	**378.4**	**53/47**	**0.7**	385.7	55/50	1.1	396.7	57/53
10	352.7	43/35	2.6	365.5	48/41	2.8	**379.6**	**53/47**	**0.7**	386.8	55/51	1.1	397.7	57/53
8	353.7	43/35	2.6	366.6	48/41	2.8	**380.7**	**53/48**	**0.8**	388.6	56/51	1.0	398.8	57/54
6	354.7	43/35	2.6	367.6	49/42	2.8	**381.7**	**54/48**	**0.9**	390.5	56/51	0.9	399.9	57/54
4	355.7	43/36	2.6	368.7	49/42	2.8	**382.9**	**54/48**	**1.0**	392.4	56/51	0.9	401.0	58/54
2	356.7	44/36	2.6	369.8	49/42	2.8	**384.0**	**54/49**	**1.0**	394.3	56/51	0.8	402.1	58/55
0	357.8	44/36	2.6	370.9	49/42	2.8	**385.1**	**55/49**	**1.1**	396.1	56/51	0.7	403.2	58/55

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY Z) RWY 22R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3352m (10997ft)	**ED**	3352m (10997ft)	**TOD**	3352m (10997ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.0	33/22	1.5	278.7	38/28	1.5	**286.0**	**43/34**	**0.4**	290.2	46/37	0.4	294.5	48/40
66	281.9	35/24	1.6	290.0	40/29	1.5	**297.7**	**45/35**	**0.5**	302.2	48/38	0.5	306.8	50/41
62	293.5	37/26	1.8	302.3	42/32	1.6	**310.4**	**48/38**	**0.5**	315.1	50/41	0.5	319.9	53/44
58	303.1	38/28	2.1	313.5	43/34	1.8	**322.3**	**48/40**	**0.5**	327.2	50/43	0.5	332.3	53/46
54	311.3	39/30	2.2	322.3	44/36	2.1	**332.6**	**49/42**	**0.5**	337.6	51/45	0.5	342.7	53/48
52	315.4	39/29	2.2	326.5	44/35	2.1	**337.2**	**49/41**	**0.5**	342.3	52/44	0.5	347.5	54/47
50	318.9	39/30	2.3	330.2	44/36	2.3	**341.8**	**49/41**	**0.5**	347.1	51/45	0.5	352.5	53/48
48	323.0	40/31	2.3	334.3	45/37	2.3	**346.0**	**50/42**	**0.6**	351.9	52/45	0.6	357.4	54/49
46	327.0	41/32	2.3	338.4	46/37	2.4	**350.2**	**50/43**	**0.6**	356.6	53/46	0.6	362.3	55/50
44	331.0	41/32	2.3	342.3	46/38	2.4	**354.3**	**51/44**	**0.7**	360.9	54/47	0.6	367.1	56/50
42	334.6	40/33	2.3	346.3	45/39	2.5	**358.6**	**50/45**	**0.7**	365.4	52/48	0.7	372.2	55/51
40	338.7	41/34	2.4	350.5	46/40	2.5	**363.1**	**51/46**	**0.7**	370.1	53/49	0.7	377.2	55/52
38	342.8	42/35	2.4	354.8	47/40	2.6	**367.7**	**52/46**	**0.7**	374.8	54/49	0.7	382.1	56/53
36	347.0	43/35	2.5	359.3	48/41	2.6	**372.5**	**53/47**	**0.7**	379.7	55/50	0.8	387.2	57/54
34	351.1	42/36	2.5	363.6	47/42	2.7	**377.0**	**52/48**	**0.7**	384.3	54/51	1.1	395.1	56/54
32	354.9	43/37	2.6	367.7	48/43	2.7	**381.3**	**53/49**	**0.9**	389.9	55/52	1.0	399.7	56/54
30	359.2	44/38	2.6	372.2	49/43	2.8	**386.0**	**54/50**	**1.1**	397.2	55/52	0.7	404.3	57/55
28	360.2	44/38	2.6	373.3	49/44	2.8	**387.2**	**54/50**	**1.1**	398.2	55/52	0.7	405.3	57/55
26	361.1	44/38	2.6	374.3	49/44	2.9	**389.0**	**54/50**	**1.0**	399.3	56/52	0.7	406.4	58/56
24	362.1	44/38	2.6	375.3	49/44	3.1	**390.8**	**54/50**	**1.0**	400.3	56/53	0.7	407.4	58/56
22	363.1	45/39	2.7	376.4	50/44	3.3	**392.7**	**54/50**	**0.9**	401.3	56/53	0.7	408.5	58/56
20	364.1	45/39	2.7	377.5	50/45	3.4	**394.5**	**54/50**	**0.8**	402.3	56/53	0.7	409.5	59/56
18	365.1	45/39	2.7	378.5	50/45	3.5	**396.2**	**54/50**	**0.7**	403.4	57/53	0.7	410.3	59/57
16	366.1	45/39	2.7	379.6	50/45	3.5	**397.3**	**55/51**	**0.7**	404.5	57/54	0.7	411.1	59/57
14	367.2	46/40	2.7	380.7	51/46	3.5	**398.4**	**55/51**	**0.7**	405.6	57/54	0.6	412.0	59/57
12	368.2	46/40	2.7	381.8	51/46	3.5	**399.4**	**55/51**	**0.7**	406.5	57/54	0.6	412.8	60/58
10	369.3	46/40	2.7	382.9	51/46	3.5	**400.5**	**55/51**	**0.7**	407.4	58/55	0.6	413.7	60/58
8	370.4	47/40	2.7	384.1	51/46	3.5	**401.6**	**56/52**	**0.7**	408.3	58/55	0.6	414.6	60/58
6	371.5	47/41	2.7	385.2	52/47	3.5	**402.7**	**56/52**	**0.7**	409.2	58/55	0.6	415.5	61/59
4	372.6	47/41	2.8	386.4	52/47	3.5	**403.7**	**56/52**	**0.6**	410.1	59/55	0.6	416.4	61/59
2	373.7	47/41	2.9	388.0	52/47	3.3	**404.7**	**57/53**	**0.6**	411.0	59/56	0.6	417.3	62/59
0	374.9	48/41	3.0	390.0	52/47	3.1	**405.6**	**57/53**	**0.6**	411.9	59/56	0.6	418.2	62/60

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEWARK**

A/D Elev **18ft** **LIBERTY INTL (KEWR)**

F/L (TWY Z/EE) RWY 29

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.104% UP
TOR	2050m (6725ft)	**ED**	2050m (6725ft)	**TOD**	2050m (6725ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		11/		222.7	15/11	1.8	**231.8**	**20/11**	**0.6**	237.3	23/12	0.5	242.7	26/15
66		11/		229.0	16/11	2.2	**239.9**	**22/11**	**0.6**	245.5	25/13	0.6	251.2	27/16
62		13/		229.0	19/11	4.0	**249.1**	**24/12**	**0.6**	254.9	27/15	0.6	260.7	30/18
58		14/		229.0	20/11	5.8	**257.8**	**26/13**	**0.6**	263.7	29/17	0.6	269.7	32/20
54		15/		228.8	21/12	7.3	**265.1**	**27/15**	**0.6**	271.3	30/19	0.6	277.4	32/22
52		16/		227.7	22/13	8.2	**268.5**	**28/14**	**0.6**	274.7	31/18	0.6	281.1	33/21
50		16/		226.6	22/14	9.1	**272.1**	**27/15**	**0.6**	278.5	30/19	0.6	284.8	33/22
48		17/		225.5	22/14	10.0	**275.5**	**28/16**	**0.7**	282.0	31/19	0.7	288.5	33/23
46		17/		224.5	23/15	10.9	**278.9**	**29/17**	**0.7**	285.5	32/20	0.7	292.0	34/23
44		18/		223.4	24/16	11.8	**282.2**	**30/17**	**0.7**	288.9	32/21	0.7	295.5	35/24
42		18/		222.3	23/17	12.6	**285.5**	**29/18**	**0.7**	292.1	32/21	0.7	298.8	34/25
40		18/		221.2	24/18	13.6	**289.1**	**30/19**	**0.7**	295.7	32/22	0.7	302.5	35/25
38		19/		220.1	25/19	14.5	**292.7**	**31/19**	**0.7**	299.5	33/23	0.7	306.3	36/26
36		20/		219.1	26/20	14.7	**292.7**	**31/20**	**1.1**	303.3	34/23	0.7	310.3	37/27
34		21/		218.1	25/21	14.7	**291.4**	**31/21**	**1.6**	307.0	33/24	0.7	314.0	36/28
32		22/		218.0	26/22	14.7	**291.3**	**31/22**	**1.9**	310.4	34/25	0.7	317.5	37/28
30		23/		217.1	27/23	14.6	**290.2**	**32/24**	**2.4**	314.2	35/25	0.7	321.4	37/29
28		23/		220.1	27/23	14.8	**294.0**	**32/24**	**2.1**	315.1	35/26	0.7	322.3	38/29
26		23/		223.2	27/23	14.9	**297.9**	**33/23**	**1.8**	316.0	35/26	0.7	323.2	38/30
24		23/		226.4	27/23	15.0	**301.5**	**33/23**	**1.5**	316.8	36/26	0.7	324.0	38/30
22		23/		229.6	28/23	15.0	**304.7**	**33/23**	**1.3**	317.7	36/26	0.7	324.9	38/30
20		23/		232.9	28/23	15.0	**307.9**	**33/23**	**1.1**	318.6	36/27	0.7	325.8	39/30
18		23/		236.3	28/23	15.2	**312.2**	**34/23**	**0.7**	319.5	36/27	0.7	326.7	39/31
16		23/		239.9	28/23	14.6	**313.0**	**34/24**	**0.7**	320.4	37/27	0.7	327.6	39/31
14		23/		243.7	29/23	14.0	**313.9**	**34/24**	**0.7**	321.3	37/28	0.7	328.6	40/31
12		23/		247.6	29/23	13.4	**314.8**	**35/24**	**0.7**	322.2	37/28	0.7	329.5	40/31
10		23/		251.5	29/23	12.8	**315.7**	**35/24**	**0.7**	323.1	38/28	0.7	330.4	40/32
8		24/		255.5	29/23	12.2	**316.7**	**35/25**	**0.7**	324.0	38/28	0.7	331.3	40/32
6		24/		259.5	30/23	11.6	**317.6**	**35/25**	**0.7**	324.9	38/29	0.7	332.3	41/32
4		24/		263.7	30/23	11.0	**318.5**	**36/25**	**0.7**	325.9	38/29	0.7	333.2	41/32
2		25/		267.9	30/23	10.3	**319.5**	**36/25**	**0.7**	326.8	39/29	0.7	334.2	41/33
0	202.0	25/23	14.0	272.1	30/23	9.7	**320.5**	**36/26**	**0.7**	327.8	39/29	0.7	335.1	42/33

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400** LANDING DATA **FORT LAUDERDALE (KFLL)**

A/D Elev **9ft** Max wt Permitted (For pre flt planning) **280,800kg**

RUNWAY (STATUS)	**10L**	**10R**	**28L**	**28R**
Landing Distance Available	2567m / 8422ft	2438m / 8000ft	2438m / 8000ft	2559m / 8396ft
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	281.0 (262.0)	271.0 (247.0)	271.0 (247.0)	280.0 (261.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	212.0	200.0	200.0	212.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (280.8)	280.8 (265.0)	280.8 (265.0)	280.8 (280.8)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	235.0	220.0	220.0	235.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SPOKANE INTERNATIONAL (KGEG)**

A/D Elev **2385ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	03	07	21	25
Landing Distance Available	3353m / 11002ft	2499m / 8199ft	3353m / 11002ft	2499m / 8199ft
Slope	.61DN	.06DN	.61UP	.06UP
Notes	Note 1		Note 1	Note 1
WAT LIMIT °C : Man / Auto	49°/49°	49°	49°	49°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	266.0 (239.0)	11kt (5kt)	266.0 (239.0)
25F Zero HW wt or TW (Autoland)	11kt (5kt)		11kt(5kt	
25F Slippery Zero HW wt or TW (Manual)	260.0	NOT AUTH	260.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)	260.0		260.0	
30F Zero HW wt or TW (Manual)	11kt (5kt)	280.8 (255.0)	11kt (5kt)	280.8 (255.0)
30F Zero HW wt or TW (Autoland)	11kt (5kt)		11kt(5kt)	
30F Slippery Zero HW wt or TW (Manual)	280.8	215.0	280.8	215.0
30F Slippery Zero HW wt or TW (Autoland)	280.8		280.8	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH and EAST of airfield.

AIRWAYS **B747-400** LANDING DATA **WASHINGTON**

A/D Elev **313ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **DULLES INTL (KIAD)**

RUNWAY	**01L**	**01C**	**01R**	**12**
Landing Distance Available	2865m / 9400ft	3505m / 11500ft	3505m / 11500ft	3201m / 10500ft
Slope	.19 DN	.16 DN	.16 DN	.23 DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°	53°/53°	53°
25F Zero HW wt or TW (Manual)	3kt (279.4)	15kt (9kt)	15kt (9kt)	11kt (4kt)
25F Zero HW wt or TW (Autoland)	3kt (279.4)		15kt (9kt)	
25F Slippery Zero HW wt or TW (Manual)	235.1	0kt	0kt	270.5
25F Slippery Zero HW wt or TW (Autoland)	235.1		0kt	
30F Zero HW wt or TW (Manual)	9kt (4kt)	15kt	15kt	15kt (11kt)
30F Zero HW wt or TW (Autoland)	9kt (4kt)		15kt	
30F Slippery Zero HW wt or TW (Manual)	256.4	4kt	4kt	0kt
30F Slippery Zero HW wt or TW (Autoland)	256.4		15kt	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg			750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **WASHINGTON**

A/D Elev **313ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **DULLES INTL (KIAD)**

RUNWAY	19L	19C	19R	30
Landing Distance Available	3505m / 11500ft	3505m / 11500ft	2865m / 9400ft	3201m / 10500ft
Slope	.16UP	.16UP	.19 UP	.23 UP
Notes				
WAT LIMIT °C : Man / Auto	53°	53°/53°	53°/53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)	3kt (279.4)	11kt (4kt)
25F Zero HW wt or TW (Autoland)		15kt (9kt)	3kt (279.4)	
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt	235.1	270.5
25F Slippery Zero HW wt or TW (Autoland)		0kt	235.1	
30F Zero HW wt or TW (Manual)	15kt	15kt	9kt (4kt)	15kt (11kt)
30F Zero HW wt or TW (Autoland)		15kt	9kt (4kt)	
30F Slippery Zero HW wt or TW (Manual)	4kt	4kt	256.4	0kt
30F Slippery Zero HW wt or TW (Autoland)		15kt	256.4	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg			750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY Y9/Y11 (F/L RWY 01C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.156% DN
TOR	3506m (11502ft)	**ED**	3506m (11502ft)	**TOD**	3506m (11502ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	275.8	34/24	1.8	284.7	38/29	1.9	**294.2**	**43/35**	**0.2**	295.8	46/38	0.0	295.8	49/42
66	285.6	36/25	1.9	294.9	41/31	1.8	**303.7**	**46/36**	**0.6**	310.1	48/39	0.2	312.1	50/42
62	296.8	38/28	1.9	306.5	43/33	1.8	**315.7**	**48/39**	**0.6**	321.3	51/42	0.7	328.0	52/45
58	306.4	39/30	2.1	316.7	44/36	2.1	**327.1**	**49/41**	**0.6**	332.8	51/44	0.6	338.6	53/47
54	314.8	40/32	2.1	325.4	45/38	2.2	**336.6**	**49/43**	**0.6**	342.4	51/46	0.6	348.3	54/49
52	319.0	41/31	2.1	329.7	45/37	2.2	**340.9**	**50/42**	**0.6**	346.7	52/45	0.6	352.7	54/48
50	322.6	40/32	2.2	333.5	45/38	2.3	**345.1**	**50/43**	**0.6**	351.2	52/46	0.6	357.4	54/49
48	326.8	41/33	2.2	337.7	46/38	2.3	**349.4**	**51/44**	**0.6**	355.6	53/47	0.7	362.1	55/50
46	330.9	42/34	2.2	341.8	47/39	2.4	**353.7**	**51/45**	**0.6**	360.1	54/48	0.7	366.6	56/51
44	334.7	42/34	2.2	345.7	47/40	2.4	**357.9**	**52/46**	**0.7**	364.4	54/49	0.7	371.2	57/52
42	338.6	41/35	2.3	349.9	46/41	2.5	**362.4**	**51/46**	**0.7**	369.1	53/49	0.7	376.0	55/53
40	342.7	42/36	2.3	354.1	47/42	2.6	**367.0**	**52/47**	**0.7**	373.9	54/50	0.7	380.9	56/53
38	346.8	43/37	2.4	358.6	48/42	2.6	**371.7**	**53/48**	**0.7**	378.7	55/51	0.7	385.8	57/54
36	351.2	44/37	2.4	363.1	49/43	2.7	**376.5**	**54/49**	**0.7**	383.6	56/52	1.0	393.4	57/55
34	355.3	43/38	2.5	367.6	48/44	2.7	**381.1**	**53/50**	**0.8**	389.2	55/53	1.0	399.0	56/55
32	359.3	44/39	2.5	371.8	49/45	2.7	**385.5**	**54/50**	**1.1**	396.3	55/53	0.7	403.2	57/56
30	363.6	45/40	2.6	376.4	50/45	3.2	**392.5**	**54/51**	**0.8**	400.9	56/54	0.7	407.9	58/57
28	365.7	45/40	2.6	378.6	50/46	3.5	**396.2**	**54/51**	**0.7**	403.0	56/54	0.7	410.1	58/57
26	366.7	45/40	2.6	379.7	50/46	3.5	**397.2**	**54/51**	**0.7**	404.0	57/54	0.7	411.1	59/57
24	367.7	46/40	2.6	380.7	51/46	3.5	**398.2**	**55/51**	**0.7**	405.1	57/54	0.7	412.1	59/58
22	368.7	46/41	2.6	381.7	51/47	3.5	**399.2**	**55/52**	**0.7**	406.1	57/55	0.7	413.2	59/58
20	369.7	46/41	2.6	382.8	51/47	3.5	**400.2**	**55/52**	**0.7**	407.2	57/55	0.7	414.2	60/58
18	370.7	46/41	2.6	383.8	51/47	3.5	**401.3**	**55/52**	**0.7**	408.3	58/55	0.7	415.3	60/58
16	371.8	47/41	2.6	384.9	52/47	3.5	**402.3**	**56/52**	**0.7**	409.3	58/56	0.7	416.4	60/59
14	372.9	47/42	2.6	386.0	52/48	3.5	**403.4**	**56/53**	**0.7**	410.4	58/56	0.7	417.5	60/59
12	373.9	47/42	2.7	387.3	52/48	3.4	**404.4**	**56/53**	**0.7**	411.5	59/56	0.7	418.6	61/59
10	375.0	47/42	2.8	389.2	52/48	3.3	**405.5**	**57/53**	**0.7**	412.6	59/56	0.7	419.8	61/60
8	376.1	48/43	3.0	391.0	52/48	3.1	**406.6**	**57/54**	**0.7**	413.7	59/57	0.7	420.9	61/60
6	377.2	48/43	3.2	393.0	53/48	3.0	**407.8**	**57/54**	**0.7**	414.8	59/57	0.7	422.0	62/60
4	378.4	48/43	3.3	395.0	53/48	2.8	**408.9**	**57/54**	**0.7**	416.0	60/57	0.7	423.2	62/60
2	379.5	49/43	3.4	396.5	53/49	2.7	**410.1**	**58/54**	**0.7**	417.2	60/58	0.7	424.3	62/61
0	380.7	49/44	3.4	397.6	53/49	2.7	**411.2**	**58/55**	**0.7**	418.3	60/58	0.7	425.5	62/61

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY U7 (F/L) RWY 01L

DAY CLG **DAY VIS** **PVD**
NIGHT CLG **NIGHT VIS** **SLOPE** 0.202% DN
TOR 2865m (9399ft) **ED** 2865m (9399ft) **TOD** 2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.0	24/13	1.7	260.7	29/18	1.6	**268.9**	**35/24**	**0.5**	274.0	37/27	0.5	279.3	40/30
66	260.5	26/14	1.8	269.5	32/20	1.7	**278.2**	**37/26**	**0.5**	283.6	40/29	0.6	289.2	42/32
62	270.3	29/16	1.9	279.9	34/22	1.8	**289.1**	**40/28**	**0.6**	294.7	42/31	0.6	300.5	45/34
58	279.7	30/18	2.0	289.8	35/24	1.9	**299.4**	**40/30**	**0.6**	305.3	43/33	0.6	311.2	45/36
54	287.1	31/20	2.1	297.5	36/26	2.1	**308.2**	**41/32**	**0.6**	314.2	43/35	0.6	320.4	46/38
52	290.9	32/19	2.1	301.4	37/25	2.2	**312.3**	**42/31**	**0.6**	318.4	44/34	0.6	324.6	47/38
50	294.0	31/20	2.1	304.7	36/26	2.3	**316.3**	**41/32**	**0.6**	322.5	44/35	0.7	329.0	46/38
48	297.8	32/21	2.2	308.7	37/27	2.3	**320.4**	**42/33**	**0.6**	326.7	45/36	0.6	333.1	47/39
46	301.5	33/22	2.2	312.5	38/27	2.4	**324.4**	**43/34**	**0.6**	330.8	45/37	0.6	337.1	48/40
44	305.1	33/22	2.2	316.3	39/28	2.4	**328.3**	**44/34**	**0.6**	334.6	46/37	0.7	341.1	48/41
42	308.1	33/23	2.3	319.7	38/29	2.5	**332.0**	**43/35**	**0.7**	338.5	45/38	0.7	345.0	47/42
40	312.0	33/24	2.3	323.7	39/30	2.5	**336.1**	**44/36**	**0.7**	342.6	46/39	0.7	349.2	48/42
38	316.0	34/24	2.4	327.8	40/30	2.5	**340.2**	**45/37**	**0.7**	346.8	47/40	0.7	353.5	49/43
36	320.1	35/25	2.4	332.0	40/31	2.5	**344.4**	**45/38**	**0.7**	351.1	48/41	0.7	357.9	50/44
34	323.9	34/26	2.4	335.8	40/32	2.5	**348.3**	**45/38**	**0.7**	355.1	47/41	0.7	362.1	49/45
32	327.5	35/27	2.4	339.5	40/33	2.5	**352.1**	**45/39**	**0.7**	359.0	48/42	0.7	366.2	50/46
30	331.4	36/27	2.4	343.5	41/33	2.6	**356.3**	**46/40**	**0.7**	363.4	48/43	0.7	370.7	51/46
28	333.2	36/28	2.4	345.3	41/34	2.6	**358.3**	**47/40**	**0.7**	365.4	49/43	0.7	372.8	51/47
26	334.1	36/28	2.4	346.2	42/34	2.6	**359.2**	**47/40**	**0.7**	366.4	49/44	0.8	373.9	51/47
24	335.0	37/28	2.4	347.1	42/34	2.6	**360.2**	**47/41**	**0.7**	367.4	49/44	0.8	374.9	52/47
22	335.9	37/28	2.4	348.1	42/34	2.6	**361.2**	**47/41**	**0.7**	368.4	50/44	0.8	375.9	52/48
20	336.8	37/29	2.4	349.0	42/35	2.6	**362.1**	**48/41**	**0.7**	369.5	50/44	0.8	377.0	52/48
18	337.7	37/29	2.4	349.9	43/35	2.7	**363.2**	**48/41**	**0.7**	370.5	50/45	0.8	378.1	53/48
16	338.6	38/29	2.5	350.9	43/35	2.7	**364.2**	**48/42**	**0.7**	371.6	51/45	0.8	379.2	53/48
14	339.6	38/29	2.4	351.8	43/35	2.7	**365.2**	**48/42**	**0.7**	372.6	51/45	0.8	380.3	53/49
12	340.5	38/30	2.5	352.8	44/36	2.7	**366.2**	**49/42**	**0.8**	373.7	51/45	0.8	381.4	53/49
10	341.4	38/30	2.5	353.8	44/36	2.7	**367.3**	**49/43**	**0.8**	374.8	51/46	0.8	382.5	54/49
8	342.4	39/30	2.5	354.8	44/36	2.7	**368.4**	**49/43**	**0.8**	375.9	52/46	0.8	383.6	54/49
6	343.3	39/30	2.5	355.8	44/37	2.7	**369.5**	**50/43**	**0.8**	377.0	52/46	0.8	384.7	54/50
4	344.3	39/31	2.5	356.8	45/37	2.8	**370.6**	**50/43**	**0.8**	378.2	52/47	0.8	385.9	54/50
2	345.3	40/31	2.5	357.9	45/37	2.8	**371.7**	**50/44**	**0.8**	379.4	53/47	0.8	387.2	55/50
0	346.3	40/31	2.5	358.9	45/37	2.8	**372.8**	**50/44**	**0.8**	380.5	53/47	0.9	389.1	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY J (F/L) RWY 01R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.157% DN
TOR	3505m (11499ft)	**ED**	3505m (11499ft)	**TOD**	3505m (11499ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	276.3	33/24	1.8	285.4	38/29	1.7	**294.1**	**43/35**	**0.2**	295.8	46/38	0.0	295.8	49/42
66	286.0	36/25	1.9	295.5	40/31	1.8	**304.5**	**45/36**	**0.6**	310.0	48/39	0.2	312.1	50/42
62	297.2	38/28	2.0	307.1	43/33	1.9	**316.4**	**48/39**	**0.6**	322.1	50/42	0.6	328.0	52/45
58	306.8	39/30	2.1	317.1	43/36	2.2	**327.9**	**48/41**	**0.6**	333.6	50/44	0.6	339.4	52/47
54	315.1	40/32	2.1	325.7	44/37	2.3	**337.1**	**49/43**	**0.6**	343.0	51/46	0.6	348.9	53/49
52	319.3	40/31	2.2	330.1	45/37	2.3	**341.4**	**50/42**	**0.6**	347.3	52/45	0.6	353.4	54/48
50	322.9	40/32	2.2	333.8	45/37	2.3	**345.5**	**50/43**	**0.6**	351.7	52/46	0.6	358.0	54/49
48	327.1	41/33	2.2	338.0	46/38	2.4	**349.8**	**50/44**	**0.6**	356.1	53/47	0.7	362.6	55/50
46	331.1	42/33	2.2	342.1	46/39	2.4	**354.0**	**51/45**	**0.7**	360.5	53/48	0.7	367.2	56/51
44	335.0	42/34	2.2	346.0	47/40	2.5	**358.3**	**52/46**	**0.7**	364.8	54/49	0.7	371.7	56/52
42	338.8	41/35	2.3	350.2	46/41	2.5	**362.7**	**51/46**	**0.7**	369.5	53/49	0.7	376.5	55/52
40	342.9	42/36	2.3	354.4	47/41	2.6	**367.3**	**52/47**	**0.7**	374.3	54/50	0.7	381.4	56/53
38	347.1	43/37	2.3	358.8	48/42	2.6	**372.0**	**53/48**	**0.7**	379.1	55/51	0.7	386.2	57/54
36	351.4	44/37	2.4	363.4	49/43	2.7	**376.9**	**54/49**	**0.7**	384.0	56/52	1.0	394.2	57/54
34	355.5	43/38	2.5	367.9	48/44	2.7	**381.5**	**53/50**	**0.8**	389.8	55/52	1.0	399.4	56/55
32	359.5	44/39	2.5	372.0	49/45	2.8	**385.8**	**54/50**	**1.1**	396.7	55/53	0.7	403.6	57/56
30	363.8	45/40	2.6	376.7	49/45	3.3	**393.1**	**54/51**	**0.8**	401.3	56/53	0.7	408.3	58/57
28	365.9	45/40	2.6	378.9	50/46	3.5	**396.5**	**54/51**	**0.7**	403.4	56/54	0.7	410.5	58/57
26	366.9	45/40	2.6	379.9	50/46	3.5	**397.5**	**54/51**	**0.7**	404.4	56/54	0.7	411.5	59/57
24	367.9	45/40	2.6	380.9	50/46	3.5	**398.5**	**55/51**	**0.7**	405.5	57/54	0.7	412.6	59/58
22	368.9	46/41	2.6	382.0	51/46	3.5	**399.6**	**55/52**	**0.7**	406.5	57/55	0.7	413.6	59/58
20	370.0	46/41	2.6	383.0	51/47	3.5	**400.6**	**55/52**	**0.7**	407.6	57/55	0.7	414.7	59/58
18	371.0	46/41	2.6	384.1	51/47	3.5	**401.7**	**55/52**	**0.7**	408.7	58/55	0.7	415.8	60/58
16	372.0	47/41	2.6	385.2	51/47	3.5	**402.7**	**56/52**	**0.7**	409.8	58/55	0.7	416.9	60/59
14	373.1	47/42	2.6	386.3	52/48	3.5	**403.8**	**56/53**	**0.7**	410.9	58/56	0.7	418.0	60/59
12	374.2	47/42	2.7	387.8	52/48	3.4	**404.9**	**56/53**	**0.7**	412.0	58/56	0.7	419.2	61/59
10	375.3	47/42	2.9	389.7	52/48	3.3	**406.0**	**57/53**	**0.7**	413.1	59/56	0.7	420.3	61/59
8	376.4	48/42	3.1	391.7	52/48	3.1	**407.1**	**57/53**	**0.7**	414.2	59/57	0.7	421.4	61/60
6	377.5	48/43	3.2	393.7	52/48	2.9	**408.3**	**57/54**	**0.7**	415.4	59/57	0.7	422.6	61/60
4	378.7	48/43	3.4	395.7	52/48	2.7	**409.4**	**57/54**	**0.7**	416.5	60/57	0.7	423.7	62/60
2	379.9	48/43	3.4	396.9	53/48	2.7	**410.6**	**58/54**	**0.7**	417.7	60/57	0.7	424.9	62/61
0	381.0	49/44	3.4	398.1	53/49	2.7	**411.7**	**58/55**	**0.7**	418.9	60/58	0.7	426.1	62/61

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY Q (F/L) RWY 12

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.219% DN
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.4	29/19	1.7	274.1	34/24	1.7	**282.7**	**40/30**	**0.5**	288.0	42/33	0.6	293.5	44/36
66	274.5	32/20	1.8	283.7	37/26	1.8	**292.7**	**42/31**	**0.6**	298.2	44/34	0.6	303.9	46/37
62	285.2	34/22	1.9	294.8	39/28	1.9	**304.2**	**44/34**	**0.6**	309.9	47/37	0.6	315.7	49/40
58	294.6	35/25	2.0	304.7	40/30	2.1	**315.1**	**45/36**	**0.6**	321.0	47/39	0.6	327.1	49/42
54	302.5	36/26	2.1	313.0	41/32	2.3	**324.4**	**46/38**	**0.6**	330.5	48/41	0.6	336.5	50/44
52	306.4	36/26	2.1	317.1	41/31	2.3	**328.7**	**47/37**	**0.6**	334.6	49/40	0.6	340.8	51/43
50	309.9	36/26	2.2	320.7	41/32	2.4	**332.5**	**46/38**	**0.6**	338.8	48/41	0.6	345.0	50/44
48	313.8	37/27	2.2	324.8	42/33	2.4	**336.6**	**47/39**	**0.6**	343.0	49/42	0.6	349.4	51/45
46	317.8	38/28	2.2	328.9	43/34	2.4	**340.8**	**48/40**	**0.6**	347.1	50/43	0.7	353.6	52/46
44	321.6	38/29	2.2	332.8	43/35	2.4	**344.7**	**48/40**	**0.7**	351.2	51/43	0.7	357.8	53/47
42	325.1	38/29	2.3	336.5	42/35	2.5	**348.8**	**47/41**	**0.7**	355.4	50/44	0.7	362.3	52/48
40	329.3	38/30	2.3	340.7	43/36	2.5	**353.1**	**48/42**	**0.7**	359.9	50/45	0.7	366.9	53/49
38	333.3	39/31	2.3	344.8	44/37	2.5	**357.4**	**49/43**	**0.7**	364.4	51/46	0.7	371.6	53/49
36	337.4	40/32	2.3	349.1	45/38	2.6	**361.9**	**50/44**	**0.7**	369.1	52/47	0.7	376.4	54/50
34	341.4	39/32	2.3	353.1	44/38	2.6	**366.2**	**49/45**	**0.7**	373.5	51/48	0.7	380.9	54/51
32	345.0	40/33	2.4	357.0	45/39	2.7	**370.4**	**50/45**	**0.7**	377.8	52/48	0.7	385.2	54/52
30	349.2	41/34	2.4	361.3	46/40	2.7	**375.0**	**51/46**	**0.8**	382.5	53/49	1.0	392.1	55/52
28	351.1	41/34	2.4	363.3	46/40	2.8	**377.2**	**51/46**	**0.8**	384.7	53/50	1.1	396.0	55/52
26	352.0	41/34	2.5	364.3	46/41	2.8	**378.2**	**51/47**	**0.8**	385.7	54/50	1.1	397.0	55/52
24	352.9	41/35	2.5	365.3	47/41	2.8	**379.3**	**52/47**	**0.8**	386.8	54/50	1.1	398.0	55/53
22	353.8	42/35	2.5	366.3	47/41	2.8	**380.3**	**52/47**	**0.8**	388.6	54/50	1.0	399.0	56/53
20	354.8	42/35	2.5	367.3	47/41	2.8	**381.4**	**52/47**	**0.9**	390.4	54/50	1.0	400.1	56/53
18	355.7	42/35	2.5	368.4	47/42	2.8	**382.5**	**52/48**	**1.0**	392.3	54/50	0.9	401.1	56/53
16	356.7	43/36	2.5	369.4	48/42	2.8	**383.5**	**53/48**	**1.1**	394.1	54/51	0.8	402.2	56/54
14	357.7	43/36	2.6	370.5	48/42	2.8	**384.6**	**53/48**	**1.1**	396.0	55/51	0.7	403.2	57/54
12	358.7	43/36	2.6	371.5	48/42	2.8	**385.7**	**53/49**	**1.1**	397.1	55/51	0.7	404.3	57/54
10	359.7	43/37	2.6	372.6	49/43	2.9	**386.9**	**54/49**	**1.1**	398.2	55/51	0.7	405.4	57/55
8	360.8	44/37	2.6	373.7	49/43	3.0	**388.8**	**54/49**	**1.1**	399.3	55/51	0.7	406.6	57/55
6	361.8	44/37	2.6	374.8	49/43	3.2	**390.7**	**54/49**	**1.0**	400.4	56/52	0.7	407.7	58/55
4	362.9	44/37	2.6	376.0	49/43	3.3	**392.7**	**54/49**	**0.9**	401.5	56/52	0.7	408.9	58/55
2	363.9	44/38	2.6	377.1	50/44	3.5	**394.8**	**54/49**	**0.8**	402.6	56/52	0.7	410.0	58/56
0	365.0	45/38	2.7	378.3	50/44	3.6	**396.4**	**54/49**	**0.7**	403.8	56/53	0.7	411.2	59/56

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY Z (F/L) RWY 19C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.157% UP
TOR	3505m (11499ft)	**ED**	3505m (11499ft)	**TOD**	3505m (11499ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.7	34/24	1.7	280.4	39/29	1.7	**288.8**	**44/35**	**0.7**	295.8	45/37	0.0	295.8	48/41
66	281.4	36/25	1.8	290.6	41/31	1.7	**299.3**	**46/36**	**0.5**	304.4	48/39	0.8	312.1	50/42
62	292.5	38/28	1.9	302.1	43/33	1.8	**311.2**	**49/39**	**0.5**	316.5	51/42	0.6	322.3	53/45
58	302.6	39/30	2.1	313.0	44/35	1.9	**322.5**	**49/41**	**0.6**	328.1	51/44	0.6	333.9	53/47
54	310.9	40/32	2.1	321.6	45/37	2.1	**332.1**	**50/43**	**0.6**	337.7	52/46	0.6	343.6	54/49
52	315.0	41/31	2.2	325.9	45/36	2.1	**336.3**	**51/42**	**0.6**	342.0	53/45	0.6	348.0	55/48
50	318.6	40/32	2.2	329.8	45/37	2.2	**340.8**	**50/43**	**0.6**	346.5	52/46	0.6	352.7	54/49
48	322.7	41/33	2.2	333.9	46/38	2.2	**345.1**	**51/44**	**0.6**	350.9	53/47	0.6	357.2	55/50
46	326.8	42/33	2.2	338.0	47/39	2.3	**349.3**	**52/45**	**0.6**	355.3	54/48	0.6	361.7	56/51
44	330.8	43/34	2.2	341.9	47/40	2.3	**353.5**	**52/46**	**0.6**	359.6	55/49	0.7	366.2	57/52
42	334.5	42/35	2.3	346.0	46/41	2.4	**357.9**	**51/46**	**0.6**	364.1	53/50	0.7	370.9	56/53
40	338.6	42/36	2.3	350.3	47/41	2.4	**362.4**	**52/47**	**0.6**	368.8	54/50	0.7	375.7	56/54
38	342.8	43/36	2.4	354.6	48/42	2.5	**367.0**	**53/48**	**0.7**	373.6	55/51	0.7	380.7	57/54
36	347.0	44/37	2.4	359.1	49/43	2.6	**371.9**	**54/49**	**0.7**	378.6	56/52	0.7	385.6	58/55
34	351.1	43/38	2.4	363.3	48/44	2.6	**376.5**	**53/50**	**0.7**	383.2	55/53	0.9	392.6	57/56
32	354.9	44/39	2.5	367.4	49/45	2.7	**380.8**	**54/50**	**0.7**	388.1	56/53	1.0	398.2	58/56
30	359.2	45/39	2.6	372.0	50/45	2.7	**385.6**	**55/51**	**1.0**	396.0	56/54	0.7	402.9	58/57
28	361.3	45/40	2.6	374.2	50/46	2.8	**388.3**	**55/52**	**1.0**	398.1	57/54	0.7	405.1	59/57
26	362.2	45/40	2.6	375.2	50/46	3.0	**390.0**	**55/52**	**0.9**	399.1	57/54	0.7	406.1	59/58
24	363.2	46/40	2.6	376.2	51/46	3.1	**391.7**	**55/52**	**0.8**	400.1	57/55	0.7	407.1	59/58
22	364.1	46/41	2.6	377.2	51/46	3.3	**393.5**	**55/52**	**0.8**	401.1	57/55	0.7	408.1	60/58
20	365.1	46/41	2.6	378.3	51/47	3.4	**395.2**	**56/52**	**0.7**	402.1	58/55	0.7	409.1	60/58
18	366.1	46/41	2.7	379.4	51/47	3.4	**396.6**	**56/52**	**0.7**	403.1	58/55	0.7	410.2	60/59
16	367.1	47/41	2.7	380.4	52/47	3.4	**397.6**	**56/53**	**0.7**	404.2	58/56	0.7	411.2	60/59
14	368.2	47/42	2.7	381.5	52/48	3.4	**398.6**	**56/53**	**0.7**	405.2	59/56	0.7	412.3	61/59
12	369.2	47/42	2.7	382.6	52/48	3.4	**399.7**	**57/53**	**0.7**	406.3	59/56	0.7	413.3	61/59
10	370.3	48/42	2.7	383.6	53/48	3.4	**400.7**	**57/53**	**0.7**	407.4	59/56	0.7	414.4	61/60
8	371.3	48/42	2.7	384.7	53/48	3.4	**401.8**	**57/54**	**0.7**	408.5	59/57	0.7	415.5	62/60
6	372.4	48/43	2.7	385.9	53/49	3.4	**402.8**	**57/54**	**0.7**	409.6	60/57	0.7	416.6	62/60
4	373.5	48/43	2.7	387.1	53/49	3.4	**403.9**	**58/54**	**0.7**	410.7	60/57	0.7	417.8	62/61
2	374.6	49/43	2.9	389.0	54/49	3.2	**405.0**	**58/54**	**0.7**	411.8	60/58	0.7	418.9	62/61
0	375.7	49/44	3.0	390.9	54/49	3.1	**406.2**	**58/55**	**0.7**	412.9	61/58	0.7	420.1	63/61

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY J (F/L) RWY 19L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.157% UP
TOR	3505m (11499ft)	**ED**	3505m (11499ft)	**TOD**	3505m (11499ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	274.1	33/24	1.8	283.2	38/29	1.7	**291.9**	**43/34**	**0.4**	295.8	45/37	0.0	295.8	48/41
66	283.7	35/25	1.9	293.2	40/30	1.8	**302.2**	**45/36**	**0.5**	307.6	47/39	0.5	312.1	50/42
62	294.8	38/27	2.0	304.6	43/33	1.9	**314.0**	**48/38**	**0.6**	319.6	50/41	0.6	325.5	52/44
58	304.3	39/30	2.1	314.7	43/35	2.1	**325.3**	**48/41**	**0.6**	331.1	50/44	0.6	336.9	52/47
54	312.5	39/32	2.2	323.3	44/37	2.3	**334.6**	**49/43**	**0.6**	340.5	51/46	0.6	346.5	53/49
52	316.7	40/31	2.2	327.6	45/36	2.3	**338.9**	**50/42**	**0.6**	344.8	52/45	0.6	350.9	54/48
50	320.3	40/32	2.2	331.4	45/37	2.3	**342.9**	**49/43**	**0.6**	349.1	52/46	0.6	355.4	54/49
48	324.4	41/32	2.2	335.5	45/38	2.3	**347.2**	**50/44**	**0.6**	353.5	52/47	0.7	360.0	55/50
46	328.5	41/33	2.2	339.6	46/39	2.4	**351.4**	**51/45**	**0.6**	357.8	53/48	0.7	364.5	55/51
44	332.3	42/34	2.2	343.5	47/40	2.4	**355.5**	**52/45**	**0.7**	362.1	54/48	0.7	369.0	56/51
42	336.1	41/35	2.3	347.6	46/40	2.5	**360.0**	**51/46**	**0.7**	366.7	53/49	0.7	373.6	55/52
40	340.2	42/36	2.3	351.8	47/41	2.5	**364.5**	**52/47**	**0.7**	371.4	54/50	0.7	378.5	56/53
38	344.3	43/36	2.4	356.1	48/42	2.6	**369.2**	**53/48**	**0.7**	376.2	55/51	0.7	383.3	57/54
36	348.6	44/37	2.4	360.6	49/43	2.7	**373.9**	**53/49**	**0.7**	381.1	56/52	0.8	389.2	58/55
34	352.7	43/38	2.5	365.0	48/44	2.7	**378.4**	**53/49**	**0.7**	385.6	55/52	1.1	396.6	56/55
32	356.5	44/38	2.5	369.1	49/44	2.7	**382.7**	**53/50**	**0.9**	392.1	55/53	0.9	400.8	57/56
30	360.8	44/39	2.6	373.7	49/45	2.8	**387.9**	**54/51**	**1.1**	398.4	56/53	0.7	405.4	58/56
28	362.8	45/40	2.6	375.9	50/45	3.1	**391.6**	**54/51**	**0.9**	400.6	56/54	0.7	407.6	58/57
26	363.8	45/40	2.6	376.9	50/46	3.3	**393.4**	**54/51**	**0.8**	401.6	56/54	0.7	408.7	59/57
24	364.8	45/40	2.6	377.9	50/46	3.5	**395.3**	**55/51**	**0.7**	402.6	57/54	0.7	409.7	59/57
22	365.8	46/40	2.6	379.0	51/46	3.5	**396.6**	**55/51**	**0.7**	403.6	57/54	0.7	410.8	59/58
20	366.8	46/41	2.7	380.1	51/47	3.5	**397.7**	**55/52**	**0.7**	404.7	57/55	0.7	411.8	59/58
18	367.9	46/41	2.7	381.2	51/47	3.5	**398.7**	**55/52**	**0.7**	405.7	57/55	0.7	412.9	60/58
16	368.9	46/41	2.7	382.2	51/47	3.5	**399.8**	**56/52**	**0.7**	406.8	58/55	0.7	414.0	60/58
14	370.0	47/41	2.7	383.3	52/47	3.5	**400.8**	**56/52**	**0.7**	407.9	58/56	0.7	415.1	60/59
12	371.0	47/42	2.7	384.4	52/48	3.5	**401.9**	**56/53**	**0.7**	409.0	58/56	0.7	416.2	60/59
10	372.1	47/42	2.7	385.5	52/48	3.5	**403.0**	**56/53**	**0.7**	410.2	59/56	0.7	417.3	61/59
8	373.2	47/42	2.7	386.7	52/48	3.5	**404.1**	**57/53**	**0.7**	411.3	59/56	0.7	418.5	61/60
6	374.3	48/42	2.8	388.5	53/48	3.3	**405.2**	**57/54**	**0.7**	412.4	59/57	0.7	419.7	61/60
4	375.4	48/43	3.0	390.4	53/48	3.2	**406.4**	**57/54**	**0.7**	413.5	59/57	0.7	420.8	62/60
2	376.6	48/43	3.2	392.4	53/49	3.0	**407.5**	**58/54**	**0.7**	414.7	60/57	0.7	422.0	62/60
0	377.7	49/43	3.4	394.5	53/49	2.8	**408.7**	**58/54**	**0.7**	415.9	60/58	0.7	423.2	62/61

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY U (F/L) RWY 19R

DAY CLG **DAY VIS** **PVD**

NIGHT CLG **NIGHT VIS** **SLOPE** 0.202% UP

TOR 2865m (9399ft) **ED** 2865m (9399ft) **TOD** 2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	249.7	24/13	1.7	258.4	29/18	1.6	**266.6**	**35/24**	**0.5**	271.7	37/27	0.5	276.9	39/30
66	258.2	26/14	1.8	267.2	31/19	1.7	**275.8**	**37/26**	**0.6**	281.3	39/28	0.5	286.6	42/32
62	267.9	28/16	1.9	277.4	34/22	1.8	**286.5**	**40/28**	**0.6**	292.2	42/31	0.6	297.9	44/34
58	277.2	30/18	2.0	287.3	35/24	1.9	**296.8**	**40/30**	**0.6**	302.7	42/33	0.6	308.5	45/36
54	284.5	30/20	2.1	294.9	36/26	2.1	**305.5**	**41/32**	**0.6**	311.6	43/35	0.6	317.6	46/38
52	288.3	31/19	2.1	298.8	37/25	2.2	**309.6**	**42/31**	**0.6**	315.7	44/34	0.6	321.8	46/37
50	291.4	31/20	2.1	302.0	36/26	2.3	**313.6**	**41/32**	**0.6**	319.9	43/35	0.6	326.2	46/38
48	295.1	32/21	2.2	305.9	37/26	2.4	**317.7**	**42/33**	**0.6**	324.0	44/36	0.6	330.4	47/39
46	298.8	32/21	2.2	309.8	38/27	2.4	**321.7**	**43/33**	**0.6**	328.1	45/37	0.6	334.4	47/40
44	302.3	33/22	2.2	313.5	38/28	2.4	**325.5**	**44/34**	**0.7**	332.0	46/37	0.6	338.3	48/41
42	305.3	32/23	2.3	316.8	38/29	2.5	**329.2**	**43/35**	**0.7**	335.7	45/38	0.7	342.3	47/41
40	309.2	33/24	2.3	320.8	39/30	2.5	**333.2**	**44/36**	**0.7**	339.9	46/39	0.7	346.5	48/42
38	313.1	34/24	2.3	324.8	39/30	2.5	**337.4**	**44/37**	**0.7**	344.0	47/40	0.7	350.7	49/43
36	317.1	35/25	2.4	329.0	40/31	2.5	**341.5**	**45/37**	**0.7**	348.2	48/41	0.7	355.1	50/44
34	320.9	34/26	2.4	332.9	39/32	2.5	**345.4**	**44/38**	**0.7**	352.2	47/41	0.7	359.2	49/45
32	324.5	35/26	2.4	336.5	40/32	2.5	**349.2**	**45/39**	**0.7**	356.0	47/42	0.7	363.2	50/45
30	328.4	35/27	2.4	340.5	41/33	2.6	**353.3**	**46/40**	**0.7**	360.4	48/43	0.7	367.7	51/46
28	330.3	36/28	2.4	342.3	41/34	2.6	**355.3**	**46/40**	**0.7**	362.4	49/43	0.7	369.8	51/47
26	331.2	36/28	2.4	343.2	41/34	2.6	**356.2**	**47/40**	**0.7**	363.3	49/44	0.8	370.8	51/47
24	332.0	36/28	2.4	344.1	42/34	2.6	**357.1**	**47/41**	**0.7**	364.3	49/44	0.8	371.8	52/47
22	332.9	37/28	2.4	345.0	42/34	2.6	**358.1**	**47/41**	**0.7**	365.3	50/44	0.8	372.8	52/47
20	333.8	37/28	2.4	345.9	42/35	2.6	**359.1**	**47/41**	**0.7**	366.3	50/44	0.8	373.9	52/48
18	334.7	37/29	2.4	346.8	43/35	2.7	**360.1**	**48/41**	**0.7**	367.4	50/45	0.8	374.9	52/48
16	335.6	37/29	2.4	347.8	43/35	2.7	**361.1**	**48/42**	**0.7**	368.4	50/45	0.8	376.0	53/48
14	336.5	38/29	2.4	348.7	43/35	2.7	**362.1**	**48/42**	**0.7**	369.5	51/45	0.8	377.1	53/48
12	337.4	38/29	2.5	349.7	43/36	2.7	**363.1**	**49/42**	**0.7**	370.5	51/45	0.8	378.2	53/49
10	338.4	38/30	2.5	350.7	44/36	2.7	**364.1**	**49/42**	**0.8**	371.6	51/46	0.8	379.3	53/49
8	339.4	39/30	2.4	351.6	44/36	2.7	**365.2**	**49/43**	**0.8**	372.7	51/46	0.8	380.5	54/49
6	340.3	39/30	2.5	352.6	44/36	2.7	**366.3**	**49/43**	**0.8**	373.8	52/46	0.8	381.6	54/50
4	341.3	39/30	2.5	353.6	45/37	2.8	**367.4**	**50/43**	**0.8**	374.9	52/46	0.8	382.7	54/50
2	342.2	39/31	2.5	354.7	45/37	2.8	**368.5**	**50/44**	**0.8**	376.1	52/47	0.8	383.9	55/50
0	343.2	40/31	2.5	355.7	45/37	2.8	**369.6**	**50/44**	**0.8**	377.2	53/47	0.8	385.0	55/50

P/C above 1013 + 0.2

P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **WASHINGTON**

A/D Elev **313ft** **DULLES (KIAD)**

TWY Y11 (F/L) RWY 30

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.219% UP
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	262.7	29/18	1.7	271.3	34/24	1.7	**279.9**	**39/30**	**0.4**	284.3	42/33	0.4	288.5	44/36
66	271.6	31/20	1.8	280.8	36/25	1.8	**289.8**	**42/31**	**0.5**	295.1	44/34	0.6	300.7	46/37
62	282.1	34/22	1.9	291.8	39/28	1.9	**301.1**	**44/34**	**0.6**	306.7	46/37	0.6	312.5	49/40
58	291.5	34/24	2.0	301.7	40/30	2.0	**311.9**	**45/36**	**0.6**	317.7	47/39	0.6	323.8	49/42
54	299.3	35/26	2.1	309.9	40/32	2.2	**321.1**	**45/38**	**0.6**	327.1	48/41	0.6	333.2	50/44
52	303.2	36/25	2.1	313.9	41/31	2.3	**325.3**	**46/37**	**0.6**	331.4	49/40	0.6	337.5	51/43
50	306.5	36/26	2.2	317.4	41/32	2.4	**329.4**	**46/38**	**0.6**	335.6	48/41	0.6	341.8	50/44
48	310.6	36/27	2.2	321.5	42/33	2.4	**333.5**	**47/39**	**0.6**	339.8	49/42	0.6	346.0	51/45
46	314.4	37/28	2.2	325.5	42/33	2.4	**337.5**	**47/39**	**0.6**	343.9	50/42	0.6	350.2	52/46
44	318.2	38/28	2.3	329.5	43/34	2.4	**341.5**	**48/40**	**0.6**	347.9	50/43	0.6	354.3	53/47
42	321.7	37/29	2.3	333.2	42/35	2.4	**345.4**	**47/41**	**0.7**	352.0	49/44	0.7	358.6	51/47
40	325.7	38/30	2.3	337.3	43/36	2.5	**349.7**	**48/42**	**0.7**	356.3	50/45	0.7	363.1	52/48
38	329.9	39/31	2.3	341.4	44/37	2.5	**354.0**	**49/43**	**0.7**	360.8	51/46	0.7	367.7	53/49
36	333.9	40/31	2.3	345.6	45/37	2.6	**358.4**	**50/44**	**0.7**	365.4	52/47	0.7	372.5	54/50
34	337.8	39/32	2.4	349.6	44/38	2.6	**362.6**	**49/44**	**0.7**	369.8	51/47	0.7	377.0	53/51
32	341.5	40/33	2.4	353.4	45/39	2.6	**366.6**	**50/45**	**0.7**	373.9	52/48	0.7	381.3	54/52
30	345.5	40/34	2.4	357.6	45/40	2.7	**371.2**	**51/46**	**0.8**	378.7	53/49	0.7	386.0	55/52
28	347.4	41/34	2.4	359.6	46/40	2.7	**373.3**	**51/46**	**0.8**	380.8	53/49	0.8	389.1	55/53
26	348.3	41/34	2.5	360.6	46/40	2.7	**374.3**	**51/46**	**0.8**	381.9	53/50	0.9	390.9	55/53
24	349.2	41/34	2.5	361.5	46/41	2.8	**375.4**	**51/47**	**0.8**	382.9	54/50	1.0	392.8	55/53
22	350.2	42/35	2.5	362.5	47/41	2.8	**376.4**	**52/47**	**0.8**	384.0	54/50	1.1	394.6	56/53
20	351.1	42/35	2.5	363.5	47/41	2.8	**377.5**	**52/47**	**0.8**	385.0	54/50	1.1	396.3	56/53
18	352.0	42/35	2.5	364.5	47/41	2.8	**378.6**	**52/48**	**0.8**	386.1	55/51	1.1	397.3	56/53
16	353.0	42/35	2.5	365.5	48/42	2.8	**379.7**	**53/48**	**0.8**	387.5	55/51	1.1	398.4	56/54
14	353.9	43/36	2.5	366.6	48/42	2.8	**380.8**	**53/48**	**0.9**	389.3	55/51	1.0	399.4	56/54
12	354.9	43/36	2.5	367.6	48/42	2.9	**381.9**	**53/48**	**0.9**	391.2	55/51	0.9	400.5	57/54
10	355.9	43/36	2.6	368.7	48/42	2.9	**383.0**	**53/49**	**1.0**	393.2	55/51	0.8	401.6	57/54
8	356.9	43/37	2.6	369.8	49/43	2.9	**384.1**	**54/49**	**1.1**	395.1	55/51	0.8	402.7	57/55
6	357.9	44/37	2.6	370.9	49/43	2.9	**385.2**	**54/49**	**1.1**	396.6	55/52	0.7	403.8	58/55
4	359.0	44/37	2.6	372.0	49/43	2.9	**386.4**	**54/49**	**1.1**	397.7	56/52	0.7	404.9	58/55
2	360.1	44/37	2.6	373.1	49/43	3.0	**388.0**	**54/50**	**1.1**	398.9	56/52	0.7	406.1	58/56
0	361.1	45/38	2.6	374.2	50/44	3.2	**390.0**	**55/50**	**1.0**	400.0	56/52	0.7	407.2	58/56

P/C above 1013 + 0.2
P/C below 1013 - 0.6

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400** LANDING DATA **HOUSTON INTERCONTINENTAL (KIAH)**

A/D Elev **97ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	08L	08R	09	15L
Landing Distance Available	2743m / 9000ft	2866m / 9400ft	3048m / 10000ft	3658m / 12000ft
Slope	.03UP	.03DN	.07DN	.08DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	3kt (278.0)	5kt (284.0)	9kt (3kt)	15kt (14kt)
25F Zero HW wt or TW (Autoland)	3kt (278.0)			
25F Slippery Zero HW wt or TW (Manual)	227.0	234.0	254.0	1kt
25F Slippery Zero HW wt or TW (Autoland)	227.0			
30F Zero HW wt or TW (Manual)	3kt (280.8)	5kt (280.8)	9kt (3kt)	15kt (14kt)
30F Zero HW wt or TW (Autoland)	3kt (280.8)			
30F Slippery Zero HW wt or TW (Manual)	250.0	260.0	278.0	1kt
30F Slippery Zero HW wt or TW (Autoland)	250.0			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **HOUSTON INTERCONTINENTAL (KIAH)**

A/D Elev **97ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**15R**	**26L**	**26R**	**27**
Landing Distance Available	3048m / 10000ft	2866m / 9400ft	2743m / 9000ft	3048m / 10000ft
Slope	.07DN	.03UP	.03DN	.07UP
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54° / 54°	54° / 54°
25F Zero HW wt or TW (Manual)	9kt (3kt)	5kt (284.0)	3kt (278.0)	9kt (3kt)
25F Zero HW wt or TW (Autoland)		5kt (284.0)	3kt (278.0)	9kt (3kt)
25F Slippery Zero HW wt or TW (Manual)	254.0	234.0	227.0	254.0
25F Slippery Zero HW wt or TW (Autoland)		234.0	227.0	254.0
30F Zero HW wt or TW (Manual)	9kt (3kt)	5kt (280.8)	3kt (280.8)	9kt (3kt)
30F Zero HW wt or TW (Autoland)		5kt (280.8)	3kt (280.8)	9kt (3kt)
30F Slippery Zero HW wt or TW (Manual)	278.0	260.0	250.0	278.0
30F Slippery Zero HW wt or TW (Autoland)		260.0	250.0	278.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **HOUSTON INTERCONTINENTAL (KIAH)**

A/D Elev **97ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**33L**	**33R**		
Landing Distance Available	3048m / 10000ft	3658m / 12000ft		
Slope	.07UP	.08UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	9kt (3kt)	15kt (14kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	254.0	1kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	15kt (14kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	278.0	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY NE) RWY 08L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.044% UP
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	2743m (8999ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	247.5	23/11	1.8	256.4	28/17	1.7	**264.7**	**34/23**	**0.5**	269.9	36/26	0.5	275.0	39/29
66	256.0	25/12	1.8	265.0	30/18	1.8	**273.8**	**36/24**	**0.6**	279.3	38/27	0.5	284.7	41/30
62	265.6	27/15	1.9	275.1	33/20	1.9	**284.4**	**39/26**	**0.6**	290.1	41/29	0.6	295.8	43/33
58	274.9	28/17	2.0	284.9	34/22	1.9	**294.5**	**39/29**	**0.6**	300.5	42/32	0.6	306.4	44/35
54	282.4	29/18	2.1	292.7	35/24	2.1	**303.2**	**40/30**	**0.6**	309.3	42/34	0.6	315.4	45/37
52	286.0	30/18	2.1	296.6	35/23	2.1	**307.2**	**41/29**	**0.6**	313.4	43/33	0.6	319.6	46/36
50	289.1	30/18	2.1	299.8	35/24	2.3	**311.4**	**40/30**	**0.6**	317.6	42/33	0.6	323.9	45/37
48	292.8	30/19	2.2	303.6	36/25	2.4	**315.4**	**41/31**	**0.6**	321.7	43/34	0.6	328.1	46/38
46	296.4	31/20	2.2	307.4	36/26	2.4	**319.4**	**42/32**	**0.6**	325.7	44/35	0.6	332.1	47/38
44	300.0	32/20	2.2	311.1	37/26	2.4	**323.2**	**43/33**	**0.7**	329.7	45/36	0.6	336.0	47/39
42	302.8	31/21	2.3	314.3	37/27	2.5	**326.8**	**42/33**	**0.7**	333.4	44/37	0.7	340.1	46/40
40	306.6	32/22	2.3	318.3	37/28	2.5	**330.9**	**43/34**	**0.7**	337.5	45/37	0.7	344.1	47/41
38	310.6	33/23	2.3	322.3	38/29	2.5	**334.9**	**43/35**	**0.7**	341.6	46/38	0.7	348.4	48/42
36	314.5	34/23	2.4	326.4	39/29	2.5	**339.1**	**44/36**	**0.7**	345.8	47/39	0.7	352.7	49/42
34	318.3	33/24	2.4	330.3	38/30	2.5	**343.0**	**43/36**	**0.7**	349.8	46/40	0.7	356.8	48/43
32	321.8	34/25	2.4	333.9	39/31	2.6	**346.7**	**44/37**	**0.7**	353.6	46/40	0.7	360.7	49/44
30	325.7	34/25	2.4	337.8	40/31	2.6	**350.8**	**45/38**	**0.7**	357.8	47/41	0.7	365.1	50/45
28	326.9	35/26	2.4	339.0	40/32	2.6	**352.0**	**45/38**	**0.7**	359.1	48/42	0.7	366.4	50/45
26	327.8	35/26	2.4	340.0	40/32	2.6	**352.9**	**46/38**	**0.7**	360.0	48/42	0.7	367.4	50/45
24	328.7	35/26	2.4	340.8	41/32	2.6	**353.8**	**46/39**	**0.7**	361.0	48/42	0.8	368.5	51/45
22	329.6	35/26	2.4	341.7	41/32	2.6	**354.8**	**46/39**	**0.7**	362.0	48/42	0.8	369.5	51/46
20	330.5	36/27	2.4	342.6	41/33	2.6	**355.7**	**46/39**	**0.7**	363.0	49/43	0.8	370.5	51/46
18	331.4	36/27	2.4	343.5	41/33	2.6	**356.7**	**47/40**	**0.7**	364.0	49/43	0.8	371.5	51/46
16	332.2	36/27	2.4	344.4	42/33	2.7	**357.7**	**47/40**	**0.7**	365.0	49/43	0.8	372.6	52/47
14	333.1	36/27	2.5	345.4	42/33	2.7	**358.7**	**47/40**	**0.7**	366.0	50/43	0.8	373.7	52/47
12	334.1	37/28	2.4	346.3	42/34	2.7	**359.7**	**47/40**	**0.7**	367.1	50/44	0.8	374.7	52/47
10	335.0	37/28	2.5	347.3	42/34	2.7	**360.7**	**48/41**	**0.7**	368.1	50/44	0.8	375.9	52/47
8	335.9	37/28	2.5	348.3	43/34	2.7	**361.7**	**48/41**	**0.8**	369.2	50/44	0.8	377.0	53/48
6	336.9	38/28	2.5	349.3	43/35	2.7	**362.8**	**48/41**	**0.8**	370.3	51/44	0.8	378.1	53/48
4	337.9	38/29	2.5	350.3	43/35	2.7	**363.9**	**49/41**	**0.8**	371.4	51/45	0.8	379.3	53/48
2	338.9	38/29	2.5	351.3	44/35	2.7	**364.9**	**49/42**	**0.8**	372.5	51/45	0.8	380.4	54/48
0	339.9	38/29	2.5	352.3	44/35	2.7	**366.0**	**49/42**	**0.8**	373.7	52/45	0.8	381.6	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY NE) RWY 08R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.021% DN
TOR	2865m (9399ft)	**ED**	2865m (9399ft)	**TOD**	2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	253.1	25/13	1.8	261.9	30/19	1.7	**270.3**	**36/25**	**0.5**	275.4	38/28	0.5	280.8	40/31
66	261.7	27/15	1.8	270.8	33/20	1.8	**279.7**	**38/26**	**0.5**	285.1	40/29	0.6	290.7	43/32
62	271.6	30/17	1.9	281.3	35/23	1.9	**290.6**	**41/29**	**0.6**	296.2	43/32	0.6	302.0	45/35
58	281.1	31/19	2.0	291.3	36/25	1.9	**300.9**	**41/31**	**0.6**	306.8	43/34	0.6	312.8	46/37
54	288.6	31/21	2.1	299.2	37/27	2.1	**309.8**	**42/33**	**0.6**	315.9	44/36	0.6	322.0	46/39
52	292.4	32/20	2.1	303.1	37/26	2.1	**313.8**	**43/32**	**0.6**	320.1	45/35	0.6	326.2	47/38
50	295.5	32/21	2.2	306.3	37/26	2.3	**318.0**	**42/33**	**0.6**	324.3	44/36	0.6	330.7	47/39
48	299.3	32/21	2.2	310.3	38/27	2.4	**322.1**	**43/34**	**0.7**	328.6	45/37	0.6	334.8	48/40
46	303.0	33/22	2.2	314.2	39/28	2.4	**326.2**	**44/34**	**0.6**	332.6	46/37	0.6	338.9	48/41
44	306.7	34/23	2.3	318.0	39/29	2.4	**330.1**	**45/35**	**0.6**	336.4	47/38	0.6	342.8	49/41
42	309.8	33/24	2.3	321.4	39/30	2.5	**333.7**	**44/36**	**0.7**	340.3	46/39	0.7	346.9	48/42
40	313.6	34/24	2.4	325.4	39/30	2.5	**337.8**	**45/37**	**0.7**	344.4	47/40	0.7	351.1	49/43
38	317.6	35/25	2.4	329.6	40/31	2.5	**342.0**	**45/37**	**0.7**	348.6	48/41	0.7	355.4	50/44
36	321.7	36/26	2.4	333.6	41/32	2.5	**346.2**	**46/38**	**0.7**	352.9	48/41	0.7	359.9	51/45
34	325.5	35/27	2.4	337.5	40/33	2.5	**350.2**	**45/39**	**0.7**	357.0	48/42	0.7	364.2	50/46
32	329.2	36/27	2.4	341.2	41/33	2.5	**353.9**	**46/40**	**0.7**	361.0	48/43	0.7	368.3	51/46
30	333.1	36/28	2.4	345.2	42/34	2.6	**358.2**	**47/40**	**0.7**	365.4	49/44	0.7	372.8	51/47
28	334.2	37/28	2.4	346.4	42/34	2.6	**359.5**	**47/41**	**0.7**	366.7	50/44	0.8	374.2	52/47
26	335.1	37/28	2.4	347.3	42/34	2.6	**360.4**	**47/41**	**0.7**	367.7	50/44	0.8	375.2	52/48
24	336.0	37/29	2.4	348.2	43/35	2.6	**361.4**	**48/41**	**0.7**	368.7	50/44	0.8	376.2	52/48
22	336.9	37/29	2.4	349.1	43/35	2.7	**362.4**	**48/42**	**0.7**	369.7	50/45	0.8	377.3	53/48
20	337.8	38/29	2.5	350.1	43/35	2.6	**363.3**	**48/42**	**0.8**	370.8	51/45	0.8	378.4	53/48
18	338.7	38/29	2.5	351.0	43/35	2.7	**364.4**	**49/42**	**0.7**	371.8	51/45	0.8	379.5	53/49
16	339.7	38/30	2.4	351.9	44/36	2.7	**365.4**	**49/42**	**0.8**	372.9	51/46	0.8	380.6	53/49
14	340.6	39/30	2.5	352.9	44/36	2.7	**366.4**	**49/43**	**0.8**	373.9	51/46	0.8	381.6	54/49
12	341.5	39/30	2.5	353.9	44/36	2.7	**367.5**	**49/43**	**0.8**	375.0	52/46	0.8	382.7	54/49
10	342.4	39/30	2.5	354.9	44/37	2.7	**368.5**	**50/43**	**0.8**	376.1	52/46	0.8	383.8	54/50
8	343.4	39/31	2.5	355.9	45/37	2.7	**369.6**	**50/43**	**0.8**	377.2	52/47	0.8	385.0	55/50
6	344.3	40/31	2.5	356.9	45/37	2.8	**370.7**	**50/44**	**0.8**	378.4	53/47	0.8	386.1	55/50
4	345.3	40/31	2.5	357.9	45/37	2.8	**371.8**	**50/44**	**0.8**	379.5	53/47	0.8	387.5	55/51
2	346.3	40/31	2.5	359.0	46/38	2.8	**373.0**	**51/44**	**0.8**	380.7	53/47	0.9	389.5	55/51
0	347.3	40/32	2.6	360.1	46/38	2.8	**374.1**	**51/44**	**0.8**	381.8	53/48	1.0	391.5	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY SC) RWY 09

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.05% DN
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.8	28/17	1.7	269.5	33/22	1.7	**278.0**	**38/28**	**0.5**	283.2	41/31	0.5	288.6	43/34
66	269.6	30/18	1.8	278.8	35/24	1.8	**287.8**	**41/30**	**0.5**	293.2	43/32	0.6	298.8	45/35
62	280.0	32/20	1.9	289.7	38/26	1.9	**299.1**	**43/32**	**0.6**	304.7	45/35	0.6	310.5	48/38
58	289.4	33/23	2.1	299.8	38/28	2.0	**309.8**	**44/34**	**0.6**	315.6	46/37	0.6	321.6	48/40
54	297.2	34/24	2.1	307.8	39/30	2.2	**318.9**	**44/36**	**0.6**	324.9	47/39	0.6	331.1	49/42
52	301.1	35/23	2.1	311.8	40/29	2.2	**323.0**	**45/35**	**0.6**	329.2	48/38	0.6	335.3	50/41
50	304.3	34/24	2.2	315.2	40/30	2.4	**327.2**	**45/36**	**0.6**	333.4	47/39	0.6	339.6	49/42
48	308.3	35/25	2.2	319.4	40/31	2.4	**331.4**	**46/37**	**0.6**	337.6	48/40	0.6	343.8	50/43
46	312.1	36/26	2.2	323.3	41/32	2.4	**335.4**	**46/38**	**0.6**	341.7	49/41	0.6	348.0	51/44
44	315.9	37/26	2.3	327.2	42/32	2.4	**339.3**	**47/38**	**0.6**	345.7	49/42	0.6	352.0	52/45
42	319.2	36/27	2.3	330.9	41/33	2.5	**343.2**	**46/39**	**0.7**	349.8	48/42	0.7	356.3	51/46
40	323.2	37/28	2.3	334.9	42/34	2.5	**347.4**	**47/40**	**0.7**	354.0	49/43	0.7	360.7	51/47
38	327.3	38/29	2.4	339.1	43/35	2.5	**351.6**	**48/41**	**0.7**	358.4	50/44	0.7	365.2	52/47
36	331.5	39/30	2.3	343.2	44/35	2.6	**356.0**	**49/42**	**0.7**	363.0	51/45	0.7	370.0	53/48
34	335.3	38/30	2.4	347.2	43/36	2.6	**360.2**	**48/42**	**0.7**	367.3	50/46	0.7	374.4	52/49
32	339.0	38/31	2.4	351.0	44/37	2.6	**364.2**	**49/43**	**0.7**	371.4	51/46	0.7	378.7	53/50
30	342.9	39/32	2.4	355.1	44/38	2.7	**368.7**	**49/44**	**0.7**	376.0	52/47	0.7	383.4	54/50
28	344.1	39/32	2.5	356.4	45/38	2.7	**370.0**	**50/44**	**0.7**	377.4	52/47	0.7	384.8	54/51
26	345.0	40/32	2.5	357.3	45/38	2.7	**371.0**	**50/45**	**0.8**	378.5	52/48	0.7	385.8	54/51
24	345.9	40/32	2.5	358.3	45/38	2.7	**372.0**	**50/45**	**0.8**	379.5	53/48	0.7	386.9	55/51
22	346.8	40/33	2.5	359.2	45/39	2.8	**373.1**	**51/45**	**0.8**	380.6	53/48	0.8	388.7	55/51
20	347.7	40/33	2.5	360.2	46/39	2.8	**374.1**	**51/45**	**0.8**	381.6	53/48	0.9	390.5	55/52
18	348.7	41/33	2.5	361.2	46/39	2.8	**375.2**	**51/46**	**0.8**	382.7	53/49	1.0	392.4	55/52
16	349.6	41/33	2.5	362.2	46/39	2.8	**376.2**	**51/46**	**0.8**	383.8	54/49	1.1	394.3	55/52
14	350.6	41/34	2.5	363.2	47/40	2.8	**377.3**	**52/46**	**0.8**	384.9	54/49	1.1	396.1	55/52
12	351.6	42/34	2.5	364.3	47/40	2.8	**378.4**	**52/46**	**0.8**	386.0	54/49	1.1	397.2	56/52
10	352.5	42/34	2.6	365.3	47/40	2.9	**379.6**	**52/47**	**0.8**	387.3	54/50	1.1	398.3	56/52
8	353.5	42/34	2.6	366.4	47/41	2.9	**380.7**	**52/47**	**0.9**	389.2	55/50	1.0	399.4	56/53
6	354.5	42/35	2.6	367.5	48/41	2.9	**381.8**	**53/47**	**0.9**	391.2	55/50	0.9	400.5	56/53
4	355.5	43/35	2.6	368.6	48/41	2.9	**382.9**	**53/47**	**1.0**	393.2	55/50	0.8	401.6	57/53
2	356.6	43/35	2.6	369.7	48/41	2.9	**384.1**	**53/48**	**1.1**	395.2	55/50	0.8	402.7	57/54
0	357.6	43/35	2.6	370.8	49/42	2.9	**385.3**	**54/48**	**1.1**	396.7	55/50	0.7	403.9	57/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY WW) RWY 15L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.083% DN
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	283.0	36/27	1.2	289.2	41/33	1.2	**295.2**	**47/38**	**0.3**	298.1	49/42	0.0	298.1	50/45
66	293.7	38/28	1.7	302.4	43/34	1.3	**308.7**	**49/39**	**0.3**	312.1	51/43	0.3	314.6	54/46
62	305.1	41/31	2.0	314.9	45/36	1.6	**322.8**	**51/42**	**0.4**	326.4	54/45	0.4	330.0	56/48
58	315.0	41/33	2.1	325.5	46/39	2.1	**335.9**	**51/44**	**0.4**	339.7	53/47	0.4	343.4	56/50
54	323.6	42/35	2.2	334.4	47/41	2.2	**345.4**	**52/46**	**0.6**	351.3	54/49	0.4	355.3	56/52
52	327.9	43/34	2.1	338.6	48/40	2.2	**349.8**	**52/45**	**0.6**	355.8	55/48	0.5	360.9	57/51
50	331.7	42/35	2.2	342.6	47/41	2.3	**354.2**	**52/46**	**0.6**	360.5	54/49	0.6	366.7	56/52
48	335.8	43/36	2.2	346.9	48/41	2.4	**358.7**	**53/47**	**0.6**	365.1	55/50	0.7	371.8	57/53
46	339.9	44/36	2.2	351.1	49/42	2.4	**363.2**	**54/48**	**0.7**	369.8	56/51	0.7	376.5	58/54
44	343.8	45/37	2.3	355.2	50/43	2.5	**367.6**	**55/49**	**0.7**	374.3	57/51	0.7	381.2	59/54
42	347.8	44/38	2.3	359.5	48/44	2.6	**372.3**	**53/49**	**0.7**	379.2	55/52	0.7	386.1	58/55
40	352.0	45/39	2.4	364.0	49/45	2.6	**377.1**	**54/50**	**0.7**	384.0	56/53	1.0	393.8	58/56
38	356.4	45/40	2.5	368.7	50/45	2.7	**382.0**	**55/51**	**0.8**	390.3	57/54	0.9	399.5	58/56
36	360.9	46/40	2.5	373.4	51/46	2.7	**386.9**	**56/52**	**1.1**	397.6	57/54	0.7	404.3	59/57
34	365.3	45/41	2.6	378.1	50/47	3.3	**394.8**	**55/52**	**0.7**	402.0	57/55	0.7	408.9	59/58
32	369.4	46/42	2.6	382.4	51/48	3.4	**399.6**	**55/53**	**0.7**	406.3	57/56	0.7	413.1	59/59
30	374.0	47/43	2.7	387.3	52/48	3.4	**404.1**	**56/53**	**0.7**	411.0	58/56	0.7	417.9	60/59
28	375.4	47/43	2.9	389.7	52/49	3.2	**405.5**	**56/54**	**0.7**	412.4	58/57	0.7	419.3	61/60
26	376.4	47/43	3.0	391.5	52/49	3.0	**406.5**	**57/54**	**0.7**	413.4	59/57	0.7	420.4	61/60
24	377.4	48/43	3.2	393.3	52/49	2.9	**407.6**	**57/54**	**0.7**	414.5	59/57	0.7	421.5	61/60
22	378.5	48/44	3.3	395.2	52/49	2.7	**408.7**	**57/55**	**0.7**	415.5	59/57	0.7	422.5	61/61
20	379.6	48/44	3.4	396.6	52/49	2.6	**409.8**	**57/55**	**0.7**	416.6	60/58	0.7	423.6	62/61
18	380.7	49/44	3.4	397.6	53/49	2.6	**410.8**	**58/55**	**0.7**	417.7	60/58	0.7	424.7	62/61
16	381.7	49/44	3.4	398.7	53/50	2.6	**411.9**	**58/55**	**0.7**	418.9	60/58	0.7	425.8	62/61
14	382.8	49/45	3.4	399.8	53/50	2.6	**413.0**	**58/56**	**0.7**	420.0	60/59	0.7	427.0	62/62
12	383.9	49/45	3.4	400.8	53/50	2.7	**414.1**	**58/56**	**0.7**	421.1	61/59	0.7	428.1	63/62
10	385.0	50/45	3.4	401.9	54/50	2.7	**415.2**	**59/56**	**0.7**	422.2	61/59	0.7	429.3	63/62
8	386.2	50/45	3.4	403.0	54/51	2.7	**416.4**	**59/56**	**0.7**	423.4	61/59	0.7	430.5	63/63
6	387.6	50/46	3.3	404.1	54/51	2.7	**417.5**	**59/57**	**0.7**	424.5	62/60	0.7	431.6	64/63
4	389.6	50/46	3.1	405.3	55/51	2.7	**418.7**	**60/57**	**0.7**	425.7	62/60	0.7	432.8	64/63
2	391.6	50/46	3.0	406.4	55/52	2.7	**419.9**	**60/57**	**0.7**	426.9	62/60	0.7	433.6	64/64
0	393.6	51/46	2.8	407.6	55/52	2.7	**421.1**	**60/58**	**0.7**	428.1	62/61	0.6	434.2	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY WC) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.08% DN
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.9	28/17	1.7	269.6	33/22	1.7	**278.2**	**38/28**	**0.5**	283.4	41/31	0.5	288.8	43/34
66	269.8	30/18	1.8	279.0	35/24	1.8	**288.0**	**41/29**	**0.5**	293.4	43/32	0.6	299.0	45/35
62	280.2	32/20	1.9	289.9	38/26	1.9	**299.2**	**43/32**	**0.6**	304.8	45/35	0.6	310.7	48/38
58	289.6	33/22	2.1	299.9	38/28	2.0	**309.9**	**44/34**	**0.6**	315.7	46/37	0.6	321.8	48/40
54	297.3	34/24	2.1	307.9	39/30	2.2	**319.1**	**44/36**	**0.6**	325.1	47/39	0.6	331.3	49/42
52	301.2	35/23	2.2	312.0	40/29	2.2	**323.2**	**45/35**	**0.6**	329.4	48/38	0.6	335.4	50/41
50	304.5	34/24	2.2	315.4	40/30	2.4	**327.3**	**45/36**	**0.6**	333.6	47/39	0.6	339.8	49/42
48	308.4	35/25	2.2	319.5	40/31	2.4	**331.5**	**45/37**	**0.6**	337.8	48/40	0.6	344.0	50/43
46	312.3	36/26	2.2	323.5	41/32	2.4	**335.5**	**46/38**	**0.6**	341.9	49/41	0.6	348.1	51/44
44	316.0	37/26	2.3	327.4	42/32	2.4	**339.5**	**47/38**	**0.6**	345.8	49/41	0.6	352.2	52/45
42	319.4	36/27	2.3	331.1	41/33	2.5	**343.4**	**46/39**	**0.7**	350.0	48/42	0.6	356.4	50/46
40	323.4	37/28	2.3	335.1	42/34	2.5	**347.5**	**47/40**	**0.7**	354.2	49/43	0.7	360.9	51/47
38	327.5	38/29	2.3	339.2	43/35	2.5	**351.8**	**48/41**	**0.7**	358.6	50/44	0.7	365.4	52/47
36	331.6	38/29	2.4	343.4	44/35	2.6	**356.2**	**49/42**	**0.7**	363.1	51/45	0.7	370.2	53/48
34	335.5	38/30	2.4	347.4	43/36	2.6	**360.4**	**48/42**	**0.7**	367.5	50/46	0.7	374.6	52/49
32	339.1	38/31	2.4	351.1	44/37	2.7	**364.4**	**49/43**	**0.7**	371.6	51/46	0.7	378.9	53/50
30	343.1	39/32	2.4	355.3	44/38	2.7	**368.8**	**49/44**	**0.7**	376.2	52/47	0.7	383.6	54/50
28	344.3	39/32	2.4	356.5	45/38	2.7	**370.2**	**50/44**	**0.7**	377.6	52/47	0.7	385.0	54/51
26	345.2	40/32	2.5	357.5	45/38	2.7	**371.2**	**50/44**	**0.8**	378.7	52/48	0.7	386.0	54/51
24	346.1	40/32	2.5	358.4	45/38	2.8	**372.2**	**50/45**	**0.8**	379.7	52/48	0.8	387.2	55/51
22	347.0	40/33	2.5	359.4	45/39	2.8	**373.2**	**51/45**	**0.8**	380.8	53/48	0.8	389.0	55/51
20	347.9	40/33	2.5	360.4	46/39	2.8	**374.3**	**51/45**	**0.8**	381.8	53/48	0.9	390.9	55/52
18	348.9	41/33	2.5	361.4	46/39	2.8	**375.3**	**51/45**	**0.8**	382.9	53/49	1.0	392.7	55/52
16	349.8	41/33	2.5	362.4	46/39	2.8	**376.4**	**51/46**	**0.8**	384.0	54/49	1.1	394.6	55/52
14	350.8	41/34	2.5	363.4	47/40	2.8	**377.5**	**52/46**	**0.8**	385.1	54/49	1.1	396.3	55/52
12	351.7	41/34	2.5	364.4	47/40	2.8	**378.6**	**52/46**	**0.8**	386.2	54/49	1.1	397.4	56/52
10	352.7	42/34	2.6	365.5	47/40	2.9	**379.8**	**52/47**	**0.8**	387.7	54/50	1.1	398.5	56/52
8	353.7	42/34	2.6	366.6	47/40	2.9	**380.9**	**52/47**	**0.9**	389.6	55/50	1.0	399.6	56/53
6	354.7	42/35	2.6	367.6	48/41	2.9	**382.0**	**53/47**	**1.0**	391.6	55/50	0.9	400.7	56/53
4	355.7	43/35	2.6	368.7	48/41	2.9	**383.1**	**53/47**	**1.1**	393.6	55/50	0.8	401.8	57/53
2	356.8	43/35	2.6	369.9	48/41	2.9	**384.3**	**53/48**	**1.1**	395.6	55/50	0.7	402.9	57/54
0	357.8	43/35	2.6	371.0	49/42	2.9	**385.5**	**54/48**	**1.1**	396.9	55/50	0.7	404.1	57/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY NP) RWY 26L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.021% UP
TOR	2865m (9399ft)	**ED**	2865m (9399ft)	**TOD**	2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.9	25/13	1.8	261.7	30/19	1.7	**270.1**	**36/25**	**0.5**	275.2	38/28	0.5	280.5	40/31
66	261.5	27/15	1.8	270.6	32/20	1.8	**279.4**	**38/26**	**0.6**	284.9	40/29	0.6	290.4	43/32
62	271.4	30/17	1.9	281.0	35/23	1.9	**290.3**	**41/29**	**0.6**	296.0	43/32	0.6	301.7	45/35
58	280.9	31/19	2.0	291.0	36/25	1.9	**300.7**	**41/31**	**0.6**	306.6	43/34	0.6	312.5	46/37
54	288.4	31/21	2.1	298.9	37/27	2.1	**309.5**	**42/33**	**0.6**	315.6	44/36	0.6	321.8	46/39
52	292.1	32/20	2.1	302.8	37/26	2.1	**313.5**	**43/32**	**0.6**	319.8	45/35	0.6	326.0	47/38
50	295.2	32/21	2.2	306.1	37/26	2.3	**317.8**	**42/33**	**0.6**	324.1	44/36	0.6	330.4	47/39
48	299.1	32/21	2.2	310.1	38/27	2.4	**321.9**	**43/34**	**0.6**	328.3	45/37	0.6	334.5	47/40
46	302.8	33/22	2.2	313.9	39/28	2.4	**325.9**	**44/34**	**0.6**	332.3	46/37	0.6	338.6	48/41
44	306.4	34/23	2.3	317.7	39/29	2.4	**329.9**	**45/35**	**0.6**	336.2	47/38	0.6	342.5	49/41
42	309.5	33/24	2.3	321.1	39/30	2.5	**333.5**	**44/36**	**0.7**	340.1	46/39	0.7	346.6	48/42
40	313.4	34/24	2.3	325.1	39/30	2.5	**337.6**	**44/37**	**0.7**	344.1	47/40	0.7	350.8	49/43
38	317.4	35/25	2.4	329.3	40/31	2.5	**341.7**	**45/37**	**0.7**	348.3	48/41	0.7	355.1	50/44
36	321.4	36/26	2.4	333.3	41/32	2.5	**345.9**	**46/38**	**0.7**	352.6	48/41	0.7	359.6	51/45
34	325.2	35/27	2.4	337.2	40/33	2.5	**349.9**	**45/39**	**0.7**	356.7	48/42	0.7	363.9	50/46
32	328.9	36/27	2.4	340.9	41/33	2.6	**353.7**	**46/40**	**0.7**	360.7	48/43	0.7	368.0	51/46
30	332.8	36/28	2.4	344.9	42/34	2.6	**357.9**	**47/40**	**0.7**	365.1	49/44	0.7	372.5	51/47
28	333.9	37/28	2.4	346.1	42/34	2.6	**359.2**	**47/41**	**0.7**	366.4	49/44	0.8	373.9	52/47
26	334.8	37/28	2.4	347.0	42/34	2.6	**360.1**	**47/41**	**0.7**	367.4	50/44	0.8	374.9	52/48
24	335.7	37/29	2.4	347.9	42/35	2.6	**361.1**	**48/41**	**0.7**	368.4	50/44	0.8	375.9	52/48
22	336.6	37/29	2.4	348.8	43/35	2.7	**362.1**	**48/42**	**0.7**	369.4	50/45	0.8	377.0	53/48
20	337.5	38/29	2.5	349.8	43/35	2.6	**363.0**	**48/42**	**0.7**	370.4	51/45	0.8	378.1	53/48
18	338.4	38/29	2.5	350.7	43/35	2.7	**364.1**	**48/42**	**0.7**	371.5	51/45	0.8	379.1	53/49
16	339.4	38/30	2.4	351.6	44/36	2.7	**365.1**	**49/42**	**0.7**	372.5	51/45	0.8	380.2	53/49
14	340.3	38/30	2.5	352.6	44/36	2.7	**366.1**	**49/43**	**0.8**	373.6	51/46	0.8	381.3	54/49
12	341.2	39/30	2.5	353.6	44/36	2.7	**367.2**	**49/43**	**0.8**	374.7	52/46	0.8	382.4	54/49
10	342.1	39/30	2.5	354.6	44/36	2.7	**368.2**	**50/43**	**0.8**	375.8	52/46	0.8	383.5	54/50
8	343.1	39/31	2.5	355.6	45/37	2.7	**369.3**	**50/43**	**0.8**	376.9	52/47	0.8	384.6	54/50
6	344.0	40/31	2.5	356.6	45/37	2.8	**370.4**	**50/44**	**0.8**	378.1	53/47	0.8	385.8	55/50
4	345.0	40/31	2.5	357.6	45/37	2.8	**371.5**	**50/44**	**0.8**	379.2	53/47	0.8	387.0	55/51
2	346.0	40/31	2.5	358.7	46/38	2.8	**372.6**	**51/44**	**0.8**	380.4	53/47	0.9	389.0	55/51
0	347.0	40/32	2.5	359.7	46/38	2.8	**373.8**	**51/44**	**0.8**	381.5	53/48	1.0	391.0	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY FJ) RWY 26R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.044% DN
TOR	2743m (8999ft)	**ED**	2743m (8999ft)	**TOD**	2743m (8999ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	248.0	23/11	1.8	256.8	28/17	1.7	**265.2**	**34/23**	**0.5**	270.3	36/26	0.5	275.5	39/29
66	256.4	25/12	1.8	265.5	30/18	1.8	**274.3**	**36/24**	**0.5**	279.7	38/27	0.5	285.1	41/30
62	266.1	27/15	1.9	275.6	33/20	1.9	**284.9**	**39/26**	**0.6**	290.6	41/29	0.6	296.2	43/33
58	275.4	28/17	2.0	285.4	34/22	1.9	**295.0**	**39/29**	**0.6**	301.0	42/32	0.6	306.8	44/35
54	282.8	29/18	2.1	293.2	35/24	2.1	**303.7**	**40/30**	**0.6**	309.9	42/34	0.6	315.9	45/37
52	286.5	30/18	2.1	297.0	35/23	2.1	**307.7**	**41/30**	**0.6**	313.9	43/33	0.6	320.1	46/36
50	289.6	30/18	2.1	300.2	35/24	2.3	**311.9**	**40/30**	**0.6**	318.2	42/33	0.6	324.4	45/37
48	293.3	30/19	2.2	304.1	36/25	2.4	**315.9**	**41/31**	**0.6**	322.3	43/34	0.6	328.6	46/38
46	296.9	31/20	2.2	307.9	37/26	2.4	**319.9**	**42/32**	**0.6**	326.3	44/35	0.6	332.6	47/38
44	300.5	32/20	2.2	311.6	37/26	2.4	**323.7**	**43/33**	**0.7**	330.3	45/36	0.6	336.5	47/39
42	303.3	31/21	2.3	314.8	37/27	2.5	**327.3**	**42/33**	**0.7**	333.9	44/37	0.7	340.6	46/40
40	307.2	32/22	2.3	318.8	37/28	2.5	**331.4**	**43/34**	**0.7**	338.0	45/37	0.7	344.6	47/41
38	311.1	33/23	2.3	322.8	38/29	2.5	**335.5**	**43/35**	**0.7**	342.2	46/38	0.7	348.9	48/42
36	315.1	34/23	2.4	326.9	39/29	2.6	**339.7**	**44/36**	**0.7**	346.4	47/39	0.7	353.2	49/42
34	318.9	33/24	2.4	330.9	38/30	2.5	**343.5**	**43/37**	**0.7**	350.4	46/40	0.7	357.3	48/43
32	322.4	34/25	2.4	334.4	39/31	2.6	**347.2**	**44/37**	**0.7**	354.1	47/40	0.7	361.3	49/44
30	326.3	34/25	2.4	338.4	40/31	2.6	**351.4**	**45/38**	**0.7**	358.4	47/41	0.7	365.7	50/45
28	327.5	35/26	2.4	339.6	40/32	2.6	**352.6**	**45/38**	**0.7**	359.7	48/42	0.7	367.0	50/45
26	328.4	35/26	2.4	340.5	40/32	2.6	**353.5**	**46/39**	**0.7**	360.6	48/42	0.7	368.0	50/45
24	329.3	35/26	2.4	341.4	41/32	2.6	**354.4**	**46/39**	**0.7**	361.6	48/42	0.7	369.0	51/45
22	330.2	35/26	2.4	342.2	41/32	2.6	**355.4**	**46/39**	**0.7**	362.6	48/42	0.8	370.1	51/46
20	331.0	36/27	2.4	343.1	41/33	2.6	**356.3**	**46/39**	**0.7**	363.6	49/43	0.8	371.1	51/46
18	331.9	36/27	2.4	344.0	41/33	2.7	**357.3**	**47/40**	**0.7**	364.6	49/43	0.8	372.1	51/46
16	332.8	36/27	2.4	345.0	42/33	2.7	**358.3**	**47/40**	**0.7**	365.6	49/43	0.8	373.2	52/47
14	333.7	37/27	2.4	345.9	42/33	2.7	**359.3**	**47/40**	**0.7**	366.6	50/43	0.8	374.3	52/47
12	334.6	37/28	2.5	346.9	42/34	2.7	**360.3**	**48/40**	**0.7**	367.7	50/44	0.8	375.3	52/47
10	335.6	37/28	2.4	347.8	42/34	2.7	**361.3**	**48/41**	**0.8**	368.8	50/44	0.8	376.4	53/47
8	336.5	37/28	2.5	348.8	43/34	2.7	**362.4**	**48/41**	**0.8**	369.9	50/44	0.8	377.6	53/48
6	337.5	38/28	2.5	349.8	43/35	2.7	**363.4**	**48/41**	**0.8**	371.0	51/44	0.8	378.7	53/48
4	338.5	38/29	2.5	350.8	43/35	2.7	**364.5**	**49/41**	**0.8**	372.1	51/45	0.8	379.9	53/48
2	339.5	38/29	2.5	351.8	44/35	2.8	**365.6**	**49/42**	**0.8**	373.2	51/45	0.8	381.0	54/48
0	340.5	38/29	2.5	352.8	44/35	2.8	**366.7**	**49/42**	**0.8**	374.3	52/45	0.8	382.2	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY SK) RWY 27

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.05% UP
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.2	28/17	1.7	268.9	33/22	1.7	**277.4**	**38/28**	**0.5**	282.6	40/31	0.5	288.0	43/34
66	269.0	30/18	1.8	278.2	35/24	1.8	**287.1**	**40/29**	**0.6**	292.6	43/32	0.6	298.2	45/35
62	279.3	32/20	1.9	289.0	38/26	1.9	**298.4**	**43/32**	**0.6**	304.0	45/35	0.6	309.9	48/38
58	288.8	33/22	2.1	299.1	38/28	2.0	**309.1**	**44/34**	**0.6**	314.9	46/37	0.6	321.0	48/40
54	296.5	34/24	2.1	307.1	39/30	2.2	**318.1**	**44/36**	**0.6**	324.2	47/39	0.6	330.4	49/42
52	300.4	35/23	2.2	311.2	40/29	2.2	**322.3**	**45/35**	**0.6**	328.5	47/38	0.6	334.6	50/41
50	303.6	34/24	2.2	314.5	40/30	2.4	**326.4**	**45/36**	**0.6**	332.7	47/39	0.6	338.9	49/42
48	307.5	35/25	2.2	318.7	40/31	2.4	**330.7**	**45/37**	**0.6**	336.9	48/40	0.6	343.1	50/43
46	311.4	36/26	2.2	322.6	41/32	2.4	**334.6**	**46/38**	**0.6**	341.0	49/41	0.6	347.2	51/44
44	315.1	37/26	2.3	326.5	42/32	2.4	**338.6**	**47/38**	**0.6**	344.9	49/41	0.6	351.3	52/45
42	318.5	36/27	2.3	330.2	41/33	2.5	**342.5**	**46/39**	**0.7**	349.0	48/42	0.7	355.5	50/46
40	322.5	37/28	2.3	334.2	42/34	2.5	**346.6**	**47/40**	**0.7**	353.2	49/43	0.7	359.9	51/46
38	326.5	38/29	2.4	338.3	43/35	2.5	**350.9**	**48/41**	**0.7**	357.6	50/44	0.7	364.4	52/47
36	330.7	38/29	2.4	342.5	44/35	2.5	**355.2**	**49/42**	**0.7**	362.1	51/45	0.7	369.2	53/48
34	334.5	38/30	2.4	346.4	43/36	2.6	**359.4**	**48/42**	**0.7**	366.4	50/46	0.7	373.6	52/49
32	338.2	38/31	2.4	350.2	44/37	2.6	**363.3**	**49/43**	**0.7**	370.6	51/46	0.7	377.9	53/50
30	342.2	39/32	2.4	354.3	44/38	2.7	**367.8**	**49/44**	**0.7**	375.2	52/47	0.7	382.5	54/50
28	343.3	39/32	2.5	355.6	45/38	2.7	**369.2**	**50/44**	**0.7**	376.6	52/47	0.7	383.9	54/51
26	344.2	40/32	2.5	356.5	45/38	2.7	**370.2**	**50/44**	**0.7**	377.6	52/48	0.7	385.0	54/51
24	345.1	40/32	2.5	357.5	45/38	2.7	**371.2**	**50/45**	**0.8**	378.7	52/48	0.7	386.0	55/51
22	346.0	40/33	2.5	358.4	45/39	2.8	**372.2**	**51/45**	**0.8**	379.7	53/48	0.8	387.3	55/51
20	346.9	40/33	2.5	359.4	46/39	2.8	**373.2**	**51/45**	**0.8**	380.8	53/48	0.8	389.1	55/52
18	347.9	41/33	2.5	360.4	46/39	2.8	**374.3**	**51/45**	**0.8**	381.9	53/49	0.9	391.0	55/52
16	348.8	41/33	2.5	361.4	46/39	2.8	**375.4**	**51/46**	**0.8**	382.9	54/49	1.0	392.8	55/52
14	349.8	41/34	2.5	362.4	47/40	2.8	**376.4**	**52/46**	**0.8**	384.0	54/49	1.1	394.8	55/52
12	350.8	41/34	2.5	363.4	47/40	2.8	**377.6**	**52/46**	**0.8**	385.1	54/49	1.1	396.4	56/52
10	351.7	42/34	2.6	364.5	47/40	2.8	**378.7**	**52/47**	**0.8**	386.3	54/50	1.1	397.5	56/52
8	352.7	42/34	2.6	365.5	47/40	2.9	**379.8**	**52/47**	**0.8**	387.8	55/50	1.1	398.6	56/53
6	353.7	42/35	2.6	366.6	48/41	2.9	**380.9**	**53/47**	**0.9**	389.7	55/50	1.0	399.7	56/53
4	354.7	43/35	2.6	367.7	48/41	2.9	**382.1**	**53/47**	**1.0**	391.7	55/50	0.9	400.8	57/53
2	355.8	43/35	2.6	368.8	48/41	2.9	**383.2**	**53/48**	**1.1**	393.7	55/50	0.8	401.9	57/54
0	356.8	43/35	2.6	369.9	49/42	2.9	**384.4**	**54/48**	**1.1**	395.8	55/50	0.7	403.1	57/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY WP) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.08% UP
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.0	28/17	1.7	268.7	33/22	1.7	**277.2**	**38/28**	**0.5**	282.4	40/31	0.5	287.3	43/34
66	268.8	30/18	1.8	278.0	35/24	1.8	**286.9**	**40/29**	**0.6**	292.4	43/32	0.6	298.0	45/35
62	279.1	32/20	1.9	288.8	38/26	1.9	**298.1**	**43/32**	**0.6**	303.8	45/35	0.6	309.6	48/38
58	288.5	33/22	2.1	298.9	38/28	2.0	**308.8**	**44/34**	**0.6**	314.6	46/37	0.6	320.7	48/40
54	296.2	34/24	2.1	306.8	39/30	2.2	**317.9**	**44/36**	**0.6**	323.9	47/39	0.6	330.2	49/42
52	300.1	35/23	2.2	310.9	40/29	2.2	**322.1**	**45/35**	**0.6**	328.2	47/38	0.6	334.3	50/41
50	303.3	34/24	2.2	314.3	39/30	2.4	**326.2**	**45/36**	**0.6**	332.5	47/39	0.6	338.7	49/42
48	307.3	35/25	2.2	318.4	40/31	2.4	**330.4**	**45/37**	**0.6**	336.6	48/40	0.6	342.8	50/43
46	311.1	36/26	2.2	322.3	41/31	2.4	**334.4**	**46/38**	**0.6**	340.7	48/41	0.6	347.0	51/44
44	314.8	37/26	2.3	326.2	42/32	2.4	**338.3**	**47/38**	**0.6**	344.6	49/41	0.6	351.0	52/45
42	318.2	36/27	2.3	329.9	41/33	2.5	**342.2**	**46/39**	**0.7**	348.7	48/42	0.7	355.2	50/46
40	322.2	37/28	2.3	333.9	42/34	2.5	**346.3**	**47/40**	**0.7**	352.9	49/43	0.7	359.6	51/46
38	326.2	38/29	2.4	338.0	43/35	2.5	**350.6**	**48/41**	**0.7**	357.3	50/44	0.7	364.1	52/47
36	330.4	38/29	2.4	342.2	44/35	2.5	**354.9**	**49/42**	**0.7**	361.8	51/45	0.7	368.8	53/48
34	334.2	38/30	2.4	346.1	43/36	2.6	**359.0**	**48/42**	**0.7**	366.1	50/46	0.7	373.3	52/49
32	337.9	38/31	2.4	349.9	43/37	2.6	**363.0**	**49/43**	**0.7**	370.3	51/46	0.7	377.5	53/50
30	341.9	39/31	2.4	354.0	44/37	2.7	**367.5**	**49/44**	**0.7**	374.8	52/47	0.7	382.2	54/50
28	343.0	39/32	2.5	355.3	45/38	2.7	**368.8**	**50/44**	**0.7**	376.2	52/47	0.7	383.6	54/51
26	343.9	40/32	2.5	356.2	45/38	2.7	**369.8**	**50/44**	**0.8**	377.3	52/48	0.7	384.7	54/51
24	344.8	40/32	2.5	357.2	45/38	2.7	**370.8**	**50/45**	**0.8**	378.3	52/48	0.7	385.7	55/51
22	345.7	40/32	2.5	358.1	45/39	2.8	**371.9**	**50/45**	**0.8**	379.4	53/48	0.7	386.8	55/51
20	346.6	40/33	2.5	359.1	46/39	2.8	**372.9**	**51/45**	**0.8**	380.5	53/48	0.8	388.5	55/52
18	347.6	41/33	2.5	360.1	46/39	2.8	**373.9**	**51/45**	**0.8**	381.5	53/49	0.9	390.4	55/52
16	348.5	41/33	2.5	361.1	46/39	2.8	**375.0**	**51/46**	**0.8**	382.6	53/49	1.0	392.3	55/52
14	349.5	41/33	2.5	362.1	46/40	2.8	**376.1**	**52/46**	**0.8**	383.7	54/49	1.1	394.2	55/52
12	350.5	41/34	2.5	363.1	47/40	2.8	**377.2**	**52/46**	**0.8**	384.8	54/49	1.1	396.1	56/52
10	351.4	42/34	2.5	364.1	47/40	2.8	**378.3**	**52/47**	**0.8**	385.9	54/50	1.1	397.2	56/52
8	352.4	42/34	2.6	365.2	47/40	2.9	**379.5**	**52/47**	**0.8**	387.2	55/50	1.1	398.3	56/53
6	353.4	42/35	2.6	366.3	48/41	2.9	**380.6**	**53/47**	**0.9**	389.1	55/50	1.0	399.4	56/53
4	354.4	43/35	2.6	367.4	48/41	2.9	**381.7**	**53/47**	**0.9**	391.1	55/50	0.9	400.5	57/53
2	355.4	43/35	2.6	368.5	48/41	2.9	**382.9**	**53/48**	**1.0**	393.1	55/50	0.9	401.6	57/53
0	356.5	43/35	2.6	369.6	48/42	2.9	**384.0**	**54/48**	**1.1**	395.2	55/50	0.8	402.7	57/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **HOUSTON**

A/D Elev **96ft** **INTERCONTINENTAL (KIAH)**

F/L (TWY WN) RWY 33R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.083% UP
TOR	3658m (12001ft)	**ED**	3658m (12001ft)	**TOD**	3658m (12001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	282.5	36/27	1.8	291.7	40/32	1.3	**298.1**	**46/38**	**0.0**	298.1	49/41	0.0	298.1	50/45
66	292.5	38/28	1.9	302.0	43/34	1.8	**311.2**	**48/39**	**0.3**	314.6	50/42	0.0	314.6	53/46
62	303.9	41/30	2.0	313.7	45/36	1.9	**323.4**	**51/42**	**0.6**	329.1	53/44	0.2	331.0	55/48
58	313.7	41/33	2.1	324.2	46/39	2.1	**334.8**	**51/44**	**0.6**	340.6	53/47	0.6	346.3	55/50
54	322.3	42/35	2.1	333.0	47/41	2.2	**344.2**	**51/46**	**0.6**	350.1	54/49	0.6	356.2	56/52
52	326.5	43/34	2.2	337.3	48/40	2.2	**348.5**	**52/45**	**0.6**	354.5	54/48	0.6	360.8	57/51
50	330.3	42/35	2.2	341.2	47/40	2.3	**352.9**	**52/46**	**0.6**	359.1	54/49	0.7	365.6	56/52
48	334.4	43/36	2.2	345.4	48/41	2.4	**357.3**	**53/47**	**0.6**	363.7	55/50	0.7	370.4	57/53
46	338.5	44/36	2.2	349.6	49/42	2.4	**361.8**	**54/48**	**0.7**	368.3	56/51	0.7	375.1	58/54
44	342.4	45/37	2.3	353.7	50/43	2.5	**366.2**	**54/48**	**0.7**	372.9	57/51	0.7	379.8	59/54
42	346.3	44/38	2.3	358.0	48/44	2.6	**370.9**	**53/49**	**0.7**	377.7	55/52	0.7	384.6	57/55
40	350.6	44/39	2.4	362.5	49/45	2.6	**375.6**	**54/50**	**0.7**	382.5	56/53	0.9	391.3	58/56
38	354.8	45/39	2.5	367.1	50/45	2.7	**380.5**	**55/51**	**0.7**	387.8	57/54	1.0	398.1	58/56
36	359.3	46/40	2.5	371.8	51/46	2.7	**385.4**	**56/52**	**1.1**	396.1	57/54	0.7	402.9	59/57
34	363.7	45/41	2.5	376.4	50/47	3.1	**392.1**	**55/52**	**0.9**	400.6	56/55	0.7	407.4	59/58
32	367.8	46/42	2.6	380.8	51/48	3.4	**398.0**	**55/53**	**0.7**	404.8	57/56	0.7	411.7	59/59
30	372.3	47/42	2.6	385.5	52/48	3.4	**402.6**	**56/53**	**0.7**	409.5	58/56	0.7	416.4	60/59
28	373.7	47/43	2.6	386.9	52/49	3.4	**404.0**	**56/54**	**0.7**	410.9	58/57	0.7	417.8	60/60
26	374.7	47/43	2.8	388.6	52/49	3.3	**405.0**	**56/54**	**0.7**	411.9	59/57	0.7	418.9	61/60
24	375.8	48/43	2.9	390.4	52/49	3.1	**406.0**	**57/54**	**0.7**	413.0	59/57	0.7	420.0	61/60
22	376.8	48/44	3.1	392.3	52/49	3.0	**407.1**	**57/54**	**0.7**	414.0	59/57	0.7	421.1	61/61
20	377.9	48/44	3.2	394.1	53/49	2.8	**408.2**	**57/55**	**0.7**	415.1	59/58	0.7	422.1	62/61
18	379.0	48/44	3.4	396.0	53/49	2.7	**409.3**	**58/55**	**0.7**	416.2	60/58	0.7	423.2	62/61
16	380.1	49/44	3.4	397.1	53/50	2.7	**410.4**	**58/55**	**0.7**	417.3	60/58	0.7	424.3	62/61
14	381.2	49/45	3.4	398.1	53/50	2.7	**411.5**	**58/56**	**0.7**	418.4	60/59	0.7	425.5	62/62
12	382.2	49/45	3.4	399.2	53/50	2.7	**412.6**	**58/56**	**0.7**	419.6	61/59	0.7	426.6	63/62
10	383.4	50/45	3.4	400.3	54/50	2.7	**413.7**	**59/56**	**0.7**	420.7	61/59	0.7	427.8	63/62
8	384.5	50/45	3.4	401.4	54/51	2.7	**414.8**	**59/56**	**0.7**	421.9	61/59	0.7	429.0	63/63
6	385.6	50/46	3.4	402.5	54/51	2.7	**416.0**	**59/57**	**0.7**	423.0	61/60	0.7	430.2	64/63
4	386.8	50/46	3.4	403.6	55/51	2.7	**417.1**	**60/57**	**0.7**	424.2	62/60	0.7	431.3	64/63
2	388.7	51/46	3.2	404.8	55/51	2.7	**418.3**	**60/57**	**0.7**	425.4	62/60	0.7	432.5	64/63
0	390.7	51/46	3.0	405.9	55/52	2.7	**419.5**	**60/57**	**0.7**	426.6	62/61	0.7	433.7	64/64

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400** LANDING DATA **JACKSONVILLE (KJAX)**

A/D Elev **30ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**08**	**14**	**26**	**32**
Landing Distance Available	3048m / 10000ft	2348m / 7700ft	3048m / 10000ft	2348m / 7700ft
Slope	.04DN	.04DN	.04UP	.04UP
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	264.0 (239.0)	9kt (3kt)	264.0 (239.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	255.0	NOT AUTH	255.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	280.8 (254.0)	9kt (3kt)	280.8 (254.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	279.0	214.0	279.0	214.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS

B747-400

LANDING DATA

NEW YORK

A/DElev 14ft Max wt Permitted (For pre flt planning) 285,760kg

J.F.K (KJFK)

RUNWAY (STATUS)	04L	04R	13L	13R
Landing Distance Available	3356m / 11010ft	2560m / 8400ft	2772m/9095ft	3800m/12468ft
Notes			Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°/54°	54°/54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	14kt (8kt)	282.0 (263.0)	4kt (279.0)	15kt (9kt)
25F Zero HW wt or TW (Autoland)		282.0 (263.0)	4kt (279.0)	
25F Slippery Zero HW wt or TW (Manual)	276.0	212.0	231.0	3kt
25F Slippery Zero HW wt or TW (Autoland)		212.0	231.0	
30F Zero HW wt or TW (Manual)	14kt (8kt)	282.0 (280.8)	4kt (280.8)	15kt (9kt)
30F Zero HW wt or TW (Autoland)		282.0 (280.8)	4kt (280.8)	
30F Slippery Zero HW wt or TW (Manual)	280.8	235.0	255.0	5kt
30F Slippery Zero HW wt or TW (Autoland)		235.0	255.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. VOR 13L & 13R: Lead in lights must be operating.

BRITISH AIRWAYS **B747-400** LANDING DATA **NEW YORK**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **J.F.K (KJFK)**

RUNWAY (STATUS) Landing Distance Available Notes	**22L** 2560m / 8400ft	**22R** 2376m / 7795ft	**31L** 3429m/11250ft	**31R** 2585m/8481ft
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	282.0 (263.0)	262.5 (234.8)	15kt (9kt)	282.0 (263.0)
25F Zero HW wt or TW (Autoland)	282.0 (263.0)		15kt (9kt)	282.0 (263.0)
25F Slippery Zero HW wt or TW (Manual)	212.0	NOT AUTH	283.0	212.0
25F Slippery Zero HW wt or TW (Autoland)	212.0		283.0	212.0
30F Zero HW wt or TW (Manual)	282.0 (280.8)	0kt (255.9)	15kt (9kt)	282.0 (280.8)
30F Zero HW wt or TW (Autoland)	282.0 (280.8)		15kt (9kt)	282.0 (280.8)
30F Slippery Zero HW wt or TW (Manual)	235.0	214.8	280.8	235.0
30F Slippery Zero HW wt or TW (Autoland)	235.0		280.8	235.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY K1) RWY 04L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3460m (11351ft)	**ED**	3496m (11469ft)	**TOD**	3460m (11351ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	269.5	36/26	1.5	276.9	41/31	1.4	**284.0**	**46/37**	**0.4**	288.1	47/40	0.4	292.2	48/43
66	280.5	38/27	1.6	288.4	43/32	1.5	**295.9**	**48/38**	**0.4**	300.3	50/41	0.4	304.7	51/44
62	292.5	40/29	1.7	300.8	46/35	1.6	**308.7**	**51/41**	**0.5**	313.3	53/44	0.5	317.9	55/47
58	303.8	41/31	1.7	312.5	46/37	1.6	**320.7**	**51/43**	**0.5**	325.5	54/46	0.5	330.4	56/49
54	313.3	41/33	1.9	322.6	46/39	1.7	**331.1**	**52/45**	**0.5**	336.0	54/48	0.5	341.0	57/51
52	317.7	42/32	1.9	327.2	47/38	1.7	**335.8**	**53/44**	**0.5**	340.7	55/47	0.5	345.8	57/50
50	321.7	41/33	2.0	331.8	47/39	1.8	**340.6**	**52/45**	**0.5**	345.6	54/48	0.5	350.8	57/51
48	326.1	42/34	2.0	336.2	47/40	1.8	**345.3**	**53/46**	**0.5**	350.4	55/49	0.5	355.7	57/52
46	330.4	43/34	2.1	340.7	48/40	1.8	**349.9**	**54/46**	**0.5**	355.1	56/50	0.6	360.6	58/53
44	334.5	44/35	2.1	344.9	49/41	1.9	**354.5**	**54/47**	**0.5**	359.8	57/50	0.6	365.5	59/54
42	338.6	43/36	2.1	349.3	48/42	2.0	**359.2**	**53/48**	**0.6**	364.7	55/51	0.6	370.6	58/54
40	342.9	44/37	2.2	353.8	49/43	2.1	**364.1**	**54/49**	**0.6**	369.8	56/52	0.6	375.8	58/55
38	347.4	44/37	2.2	358.5	49/43	2.1	**369.2**	**55/50**	**0.6**	375.1	57/53	0.6	381.2	59/56
36	351.9	45/38	2.3	363.3	50/44	2.2	**374.5**	**55/50**	**0.6**	380.5	58/53	0.6	386.6	60/57
34	356.3	44/39	2.3	368.0	49/45	2.3	**379.5**	**55/51**	**0.6**	385.4	57/54	0.8	393.4	59/57
32	360.4	45/40	2.4	372.4	50/46	2.3	**384.1**	**55/52**	**0.7**	391.4	57/55	0.7	398.8	59/58
30	364.8	46/40	2.5	377.2	51/46	2.6	**390.1**	**56/52**	**0.8**	397.7	58/55	0.6	403.8	60/58
28	365.9	46/41	2.5	378.2	51/47	2.6	**391.3**	**56/53**	**0.7**	398.5	58/55	0.6	404.6	60/59
26	366.8	46/41	2.5	379.1	51/47	2.7	**392.4**	**56/53**	**0.7**	399.3	59/56	0.6	405.4	61/59
24	367.7	47/41	2.5	380.0	52/47	2.7	**393.5**	**57/53**	**0.7**	400.1	59/56	0.6	406.2	61/59
22	368.6	47/41	2.5	380.9	52/47	2.8	**394.7**	**57/53**	**0.6**	400.9	59/56	0.6	407.0	61/60
20	369.4	47/42	2.5	381.7	52/48	2.8	**395.8**	**57/53**	**0.6**	401.7	59/57	0.6	407.8	62/60
18	370.3	47/42	2.5	382.6	53/48	2.8	**396.6**	**57/54**	**0.6**	402.5	60/57	0.6	408.6	62/60
16	371.2	48/42	2.5	383.5	53/48	2.8	**397.4**	**58/54**	**0.6**	403.3	60/57	0.6	409.5	62/61
14	372.1	48/42	2.5	384.4	53/49	2.8	**398.2**	**58/54**	**0.6**	404.1	60/58	0.6	410.3	63/61
12	373.0	48/43	2.5	385.4	53/49	2.7	**399.1**	**58/55**	**0.6**	404.9	61/58	0.6	411.1	63/61
10	373.9	49/43	2.5	386.3	54/49	2.7	**399.9**	**59/55**	**0.6**	405.7	61/58	0.6	411.9	63/62
8	374.9	49/43	2.5	387.4	54/49	2.7	**400.7**	**59/55**	**0.6**	406.6	61/58	0.6	412.7	64/62
6	375.8	49/44	2.6	388.7	54/50	2.6	**401.5**	**59/56**	**0.6**	407.4	62/59	0.6	413.5	64/62
4	376.8	50/44	2.6	390.0	55/50	2.5	**402.4**	**60/56**	**0.6**	408.3	62/59	0.6	414.4	65/63
2	377.7	50/44	2.7	391.4	55/50	2.4	**403.2**	**60/56**	**0.6**	409.1	63/60	0.6	415.2	65/63
0	378.7	50/45	2.8	392.7	55/50	2.3	**404.1**	**60/57**	**0.6**	410.0	63/60	0.6	416.1	65/63

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 04L ALL ENGINES INITIATE TURN AT 300FT RA. CLIMB AT V2 PLUS 10KT TO 1510FT QNH (1500FT HAA). SET CLB1 THRUST AT 1510FT QNH (1500FT HAA).

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY Z) RWY 04R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2560m (8398ft)	**ED**	2560m (8398ft)	**TOD**	2560m (8398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	240.2	20/11	1.8	249.1	25/14	1.7	**257.8**	**31/19**	**0.5**	262.9	33/22	0.5	268.3	36/26
66	248.5	22/11	1.8	257.6	27/15	1.8	**266.5**	**33/21**	**0.5**	271.8	36/24	0.6	277.6	38/27
62	257.9	24/11	1.9	267.3	30/17	1.9	**276.7**	**36/23**	**0.6**	282.3	38/26	0.6	288.4	41/29
58	266.8	26/13	2.0	276.6	31/19	2.0	**286.5**	**37/25**	**0.6**	292.4	39/28	0.6	298.7	41/32
54	274.5	26/15	2.0	284.6	32/21	2.0	**294.8**	**37/27**	**0.6**	301.0	40/30	0.6	307.4	42/33
52	278.1	27/14	2.1	288.4	33/20	2.1	**298.7**	**38/26**	**0.6**	304.9	41/29	0.7	311.5	43/33
50	281.1	27/15	2.1	291.8	32/21	2.2	**302.8**	**37/27**	**0.6**	309.1	40/30	0.7	315.7	42/33
48	284.7	28/15	2.2	295.5	33/21	2.2	**306.7**	**38/28**	**0.6**	313.0	41/31	0.7	319.8	43/34
46	288.2	28/16	2.2	299.2	34/22	2.3	**310.5**	**39/28**	**0.7**	317.0	42/32	0.7	323.8	44/35
44	291.6	29/17	2.2	302.8	34/23	2.3	**314.2**	**40/29**	**0.7**	320.8	42/32	0.7	327.7	45/36
42	294.2	29/17	2.3	305.7	34/23	2.4	**317.8**	**39/30**	**0.7**	324.5	42/33	0.7	331.5	44/37
40	297.9	29/18	2.3	309.6	35/24	2.4	**321.8**	**40/31**	**0.7**	328.6	42/34	0.7	335.5	45/37
38	297.4	30/19	3.2	313.5	35/25	2.5	**325.9**	**41/31**	**0.7**	332.6	43/35	0.7	339.7	46/38
36	296.1	31/20	4.3	317.5	36/26	2.5	**330.1**	**42/32**	**0.7**	336.8	44/35	0.7	343.8	46/39
34	294.8	30/21	5.3	321.3	35/26	2.5	**333.8**	**41/33**	**0.7**	340.7	43/36	0.7	347.8	46/40
32	294.6	31/22	6.1	324.9	36/27	2.5	**337.5**	**41/34**	**0.7**	344.3	44/37	0.7	351.6	46/40
30	293.5	32/24	7.1	328.8	37/28	2.5	**341.5**	**42/34**	**0.7**	348.4	45/38	0.7	355.7	47/41
28	297.4	32/24	6.5	329.8	37/28	2.5	**342.4**	**43/35**	**0.7**	349.4	45/38	0.7	356.7	47/41
26	301.1	32/24	5.9	330.6	37/28	2.5	**343.3**	**43/35**	**0.7**	350.3	45/38	0.7	357.7	48/42
24	304.2	32/24	5.5	331.5	38/28	2.5	**344.2**	**43/35**	**0.7**	351.2	46/38	0.7	358.6	48/42
22	307.5	33/24	5.0	332.3	38/29	2.6	**345.1**	**43/35**	**0.7**	352.1	46/39	0.8	359.6	48/42
20	310.7	33/24	4.5	333.2	38/29	2.6	**346.0**	**44/36**	**0.7**	353.0	46/39	0.8	360.6	49/42
18	313.9	33/24	4.0	334.1	38/29	2.6	**346.9**	**44/36**	**0.7**	354.0	46/39	0.8	361.6	49/43
16	317.3	33/24	3.5	335.0	39/29	2.6	**347.8**	**44/36**	**0.7**	355.0	47/39	0.8	362.6	49/43
14	323.5	34/23	2.5	336.0	39/30	2.6	**348.8**	**44/36**	**0.7**	355.9	47/40	0.8	363.6	49/43
12	324.5	34/24	2.5	336.9	39/30	2.6	**349.8**	**45/37**	**0.7**	356.9	47/40	0.8	364.6	50/44
10	325.4	34/24	2.5	337.8	40/30	2.6	**350.7**	**45/37**	**0.7**	357.9	47/40	0.8	365.7	50/44
8	326.3	34/24	2.5	338.8	40/30	2.6	**351.7**	**45/37**	**0.7**	359.0	48/41	0.8	366.7	50/44
6	327.3	35/24	2.5	339.8	40/31	2.6	**352.7**	**46/37**	**0.7**	360.0	48/41	0.8	367.8	51/44
4	328.2	35/25	2.5	340.7	40/31	2.6	**353.7**	**46/38**	**0.7**	361.1	48/41	0.8	368.9	51/45
2	329.2	35/25	2.5	341.7	41/31	2.6	**354.8**	**46/38**	**0.7**	362.1	49/41	0.8	370.1	51/45
0	330.2	36/25	2.5	342.7	41/32	2.6	**355.8**	**46/38**	**0.7**	363.2	49/42	0.8	371.2	51/45

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY C/U) RWY 13L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3048m (10000ft)	**ED**	3048m (10000ft)	**TOD**	3048m (10000ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	261.3	28/17	1.8	270.1	33/23	1.7	**278.6**	**39/28**	**0.5**	283.3	41/31	0.5	288.1	43/34
66	270.2	30/18	1.8	279.4	36/24	1.8	**288.4**	**41/30**	**0.6**	293.9	43/33	0.5	299.3	45/36
62	280.6	33/21	1.9	290.3	38/26	1.9	**299.7**	**43/32**	**0.6**	305.4	46/35	0.6	311.2	48/38
58	290.1	34/23	2.1	300.5	39/28	2.0	**310.4**	**44/35**	**0.6**	316.3	46/38	0.6	322.4	48/41
54	297.9	34/24	2.1	308.5	40/30	2.2	**319.6**	**45/36**	**0.6**	325.6	47/39	0.6	331.8	49/43
52	301.8	35/24	2.2	312.6	40/29	2.2	**323.8**	**46/35**	**0.6**	330.0	48/39	0.6	336.0	50/42
50	305.0	35/24	2.2	316.0	40/30	2.4	**328.0**	**45/36**	**0.6**	334.2	47/39	0.6	340.4	49/43
48	309.0	36/25	2.2	320.1	41/31	2.4	**332.1**	**46/37**	**0.6**	338.4	48/40	0.6	344.6	50/43
46	312.8	36/26	2.3	324.1	42/32	2.4	**336.1**	**47/38**	**0.6**	342.5	49/41	0.6	348.8	51/44
44	316.6	37/27	2.3	328.0	42/33	2.4	**340.1**	**47/39**	**0.6**	346.4	50/42	0.7	352.9	52/45
42	320.0	36/27	2.3	331.7	41/33	2.5	**344.0**	**46/39**	**0.7**	350.6	49/43	0.7	357.1	51/46
40	323.9	37/28	2.4	335.7	42/34	2.5	**348.1**	**47/40**	**0.7**	354.8	49/43	0.7	361.5	52/47
38	328.1	38/29	2.4	339.9	43/35	2.5	**352.4**	**48/41**	**0.7**	359.2	50/44	0.7	366.1	53/48
36	332.2	39/30	2.4	344.0	44/36	2.6	**356.8**	**49/42**	**0.7**	363.8	51/45	0.7	370.9	53/48
34	336.0	38/30	2.4	348.0	43/36	2.6	**361.0**	**48/43**	**0.7**	368.1	50/46	0.7	375.3	53/49
32	339.7	39/31	2.4	351.8	44/37	2.6	**365.0**	**49/43**	**0.7**	372.3	51/47	0.7	379.6	53/50
30	343.7	39/32	2.4	355.9	45/38	2.7	**369.5**	**50/44**	**0.7**	376.9	52/47	0.7	384.3	54/51
28	344.6	40/32	2.5	356.9	45/38	2.7	**370.6**	**50/44**	**0.7**	378.0	52/48	0.7	385.4	54/51
26	345.5	40/32	2.5	357.8	45/38	2.8	**371.6**	**50/45**	**0.8**	379.1	52/48	0.7	386.4	55/51
24	346.4	40/33	2.5	358.8	45/39	2.8	**372.6**	**50/45**	**0.8**	380.1	53/48	0.8	387.9	55/51
22	347.3	40/33	2.5	359.8	46/39	2.8	**373.6**	**51/45**	**0.8**	381.2	53/48	0.9	389.7	55/52
20	348.2	41/33	2.5	360.7	46/39	2.8	**374.7**	**51/45**	**0.8**	382.2	53/49	0.9	391.6	55/52
18	349.2	41/33	2.5	361.7	46/39	2.8	**375.7**	**51/46**	**0.8**	383.3	54/49	1.0	393.5	55/52
16	350.2	41/34	2.5	362.7	46/40	2.8	**376.8**	**52/46**	**0.8**	384.4	54/49	1.1	395.4	55/52
14	351.1	41/34	2.5	363.8	47/40	2.8	**377.9**	**52/46**	**0.8**	385.5	54/49	1.1	396.7	56/52
12	352.1	42/34	2.5	364.8	47/40	2.8	**379.0**	**52/47**	**0.8**	386.6	54/50	1.1	397.8	56/52
10	353.0	42/34	2.6	365.9	47/40	2.9	**380.2**	**52/47**	**0.8**	388.3	55/50	1.1	398.9	56/53
8	354.0	42/35	2.6	366.9	48/41	2.9	**381.3**	**53/47**	**0.9**	390.3	55/50	1.0	400.0	56/53
6	355.0	43/35	2.6	368.0	48/41	2.9	**382.4**	**53/47**	**1.0**	392.2	55/50	0.9	401.1	57/53
4	356.1	43/35	2.6	369.1	48/41	2.9	**383.5**	**53/48**	**1.1**	394.3	55/50	0.8	402.2	57/53
2	357.1	43/35	2.6	370.2	48/42	2.9	**384.7**	**54/48**	**1.2**	396.2	55/50	0.7	403.3	57/54
0	358.2	43/36	2.6	371.4	49/42	2.9	**385.9**	**54/48**	**1.1**	397.3	55/51	0.7	404.5	58/54

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 13L ALL ENGINES INITIATE TURN AT 300FT RA. CLIMB AT V2 PLUS 10KT TO 1510FT QNH (1500FT HAA). SET CLB1 THRUST AT 1510FT QNH (1500FT HAA).

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY PF) RWY 13R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	4423m (14511ft)	**ED**	4423m (14511ft)	**TOD**	4423m (14511ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	299.0	46/39	0.0	299.0	51/46	0.0	**299.0**	**51/51**	**0.0**	299.0	51/51	0.0	299.0	51/51
66	315.1	47/40	0.1	315.5	54/46	0.0	**315.5**	**55/53**	**0.0**	315.5	55/55	0.0	315.5	55/55
62	327.9	50/42	0.8	332.0	56/48	0.0	**332.0**	**59/55**	**0.0**	332.0	59/58	0.0	332.0	59/59
58	339.2	50/45	1.7	347.7	55/50	0.0	**347.7**	**62/57**	**0.0**	347.7	63/60	0.0	347.7	63/63
54	348.5	51/47	2.1	358.9	56/52	0.6	**362.1**	**62/58**	**0.0**	362.1	65/62	0.0	362.1	67/66
52	353.1	52/46	2.1	363.8	57/51	0.9	**368.5**	**63/57**	**0.0**	368.5	66/61	0.0	368.5	68/64
50	357.8	51/47	2.2	368.8	56/52	1.2	**374.9**	**62/58**	**0.0**	374.9	65/62	0.0	374.9	68/65
48	362.4	52/48	2.3	373.8	57/53	1.5	**381.3**	**62/59**	**0.0**	381.3	66/62	0.0	381.3	69/66
46	367.1	53/48	2.3	378.7	58/54	1.8	**387.7**	**63/59**	**0.0**	387.7	66/63	0.0	387.7	70/67
44	371.7	54/49	2.4	383.5	58/55	2.1	**394.1**	**63/60**	**0.0**	394.1	67/63	0.0	394.1	70/67
42	376.6	52/50	2.6	389.4	57/55	2.2	**400.5**	**62/60**	**0.0**	400.5	65/64	0.0	400.5	68/68
40	381.5	53/51	3.1	396.8	57/56	2.0	**407.0**	**62/61**	**0.0**	407.0	66/65	0.0	407.0	69/68
38	386.4	54/52	3.1	401.7	58/56	2.2	**412.5**	**63/62**	**0.2**	414.4	66/65	0.0	414.4	69/69
36	394.4	54/52	2.5	406.7	59/57	2.2	**417.6**	**64/63**	**0.4**	421.8	67/66	0.0	421.8	70/69
34	399.7	54/52	2.3	411.4	58/58	2.2	**422.5**	**63/63**	**0.6**	428.7	65/66	0.0	428.7	69/70
32	404.0	54/53	2.4	415.8	59/59	2.2	**427.0**	**64/64**	**0.6**	433.4	66/67	0.2	435.4	69/70
30	408.8	55/54	2.4	420.7	60/59	2.3	**432.1**	**65/65**	**0.6**	438.5	67/68	0.4	442.6	70/71
28	409.9	55/54	2.4	421.8	60/60	2.3	**433.1**	**65/65**	**0.7**	439.6	67/68	0.3	442.7	70/72
26	410.8	56/54	2.4	422.8	60/60	2.3	**434.1**	**65/66**	**0.7**	440.6	68/68	0.2	442.8	71/72
24	411.8	56/55	2.4	423.8	61/60	2.3	**435.1**	**66/66**	**0.7**	441.6	68/69	0.1	442.8	71/72
22	412.8	56/55	2.4	424.8	61/61	2.3	**436.1**	**66/66**	**0.7**	442.6	68/69	0.0	442.8	72/73
20	413.9	56/55	2.4	425.9	61/61	2.3	**437.2**	**66/67**	**0.6**	442.8	69/69	0.0	442.8	72/73
18	414.9	57/56	2.4	426.9	62/61	2.3	**438.2**	**67/67**	**0.5**	442.8	69/70	0.0	442.8	73/74
16	416.0	57/56	2.4	428.0	62/61	2.3	**439.3**	**67/67**	**0.4**	442.8	70/70	0.0	442.8	73/74
14	417.0	57/56	2.4	429.1	62/62	2.3	**440.4**	**67/67**	**0.2**	442.8	70/71	0.0	442.8	74/75
12	418.1	58/56	2.4	430.2	62/62	2.2	**441.4**	**68/68**	**0.1**	442.8	71/71	0.0	442.8	74/75
10	419.2	58/57	2.4	431.3	63/62	2.2	**442.4**	**68/68**	**0.0**	442.8	71/72	0.0	442.8	75/76
8	420.3	58/57	2.4	432.3	63/63	2.1	**442.9**	**68/69**	**0.0**	442.9	72/72	0.0	442.9	75/76
6	421.4	58/57	2.4	433.5	63/63	1.9	**442.9**	**69/69**	**0.0**	442.9	72/73	0.0	442.9	76/77
4	422.5	59/58	2.4	434.6	64/63	1.7	**442.9**	**69/70**	**0.0**	442.9	73/73	0.0	442.9	76/77
2	423.6	59/58	2.4	435.7	64/64	1.4	**442.9**	**70/70**	**0.0**	442.9	73/74	0.0	442.9	77/78
0	424.8	59/58	2.4	436.9	64/64	1.2	**442.9**	**71/71**	**0.0**	442.9	74/74	0.0	442.9	77/78

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 13R ALL ENGINES INITIATE TURN AT 300FT RA. CLIMB AT V2 PLUS 10KT TO 1510FT QNH (1500FT HAA). SET CLB1 THRUST AT 1510FT QNH (1500FT HAA).

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY E) RWY 22L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2560m (8398ft)	**ED**	2560m (8398ft)	**TOD**	2560m (8398ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	240.2	20/11	1.8	249.1	25/14	1.7	**257.8**	**31/19**	**0.5**	262.9	33/22	0.5	268.3	36/26
66	248.5	22/11	1.8	257.6	27/15	1.8	**266.5**	**33/21**	**0.5**	271.8	36/24	0.6	277.6	38/27
62	257.9	24/11	1.9	267.3	30/17	1.9	**276.7**	**36/23**	**0.6**	282.3	38/26	0.6	288.4	41/29
58	266.8	26/13	2.0	276.6	31/19	2.0	**286.5**	**37/25**	**0.6**	292.4	39/28	0.6	298.7	41/32
54	274.5	26/15	2.0	284.6	32/21	2.0	**294.8**	**37/27**	**0.6**	301.0	40/30	0.6	307.4	42/33
52	278.1	27/14	2.1	288.4	33/20	2.1	**298.7**	**38/26**	**0.6**	304.9	41/29	0.7	311.5	43/33
50	281.1	27/15	2.1	291.8	32/21	2.2	**302.8**	**37/27**	**0.6**	309.1	40/30	0.7	315.7	42/33
48	284.7	28/15	2.2	295.5	33/21	2.2	**306.7**	**38/28**	**0.6**	313.0	41/31	0.7	319.8	43/34
46	288.2	28/16	2.2	299.2	34/22	2.3	**310.5**	**39/28**	**0.7**	317.0	42/32	0.7	323.8	44/35
44	291.6	29/17	2.2	302.8	34/23	2.3	**314.2**	**40/29**	**0.7**	320.8	42/32	0.7	327.7	45/36
42	294.2	29/17	2.3	305.7	34/23	2.4	**317.8**	**39/30**	**0.7**	324.5	42/33	0.7	331.5	44/37
40	297.9	29/18	2.3	309.6	35/24	2.4	**321.8**	**40/31**	**0.7**	328.6	42/34	0.7	335.5	45/37
38	297.4	30/19	3.2	313.5	35/25	2.5	**325.9**	**41/31**	**0.7**	332.6	43/35	0.7	339.7	46/38
36	296.1	31/20	4.3	317.5	36/26	2.5	**330.1**	**42/32**	**0.7**	336.8	44/35	0.7	343.8	46/39
34	294.8	30/21	5.3	321.3	35/26	2.5	**333.8**	**41/33**	**0.7**	340.7	43/36	0.7	347.8	46/40
32	294.6	31/22	6.1	324.9	36/27	2.5	**337.5**	**41/34**	**0.7**	344.3	44/37	0.7	351.6	46/40
30	293.5	32/24	7.1	328.8	37/28	2.5	**341.5**	**42/34**	**0.7**	348.4	45/38	0.7	355.7	47/41
28	297.4	32/24	6.5	329.8	37/28	2.5	**342.4**	**43/35**	**0.7**	349.4	45/38	0.7	356.7	47/41
26	301.1	32/24	5.9	330.6	37/28	2.5	**343.3**	**43/35**	**0.7**	350.3	45/38	0.7	357.7	48/42
24	304.2	32/24	5.5	331.5	38/28	2.5	**344.2**	**43/35**	**0.7**	351.2	46/38	0.7	358.6	48/42
22	307.5	33/24	5.0	332.3	38/29	2.6	**345.1**	**43/35**	**0.7**	352.1	46/39	0.8	359.6	48/42
20	310.7	33/24	4.5	333.2	38/29	2.6	**346.0**	**44/36**	**0.7**	353.0	46/39	0.8	360.6	49/42
18	313.9	33/24	4.0	334.1	38/29	2.6	**346.9**	**44/36**	**0.7**	354.0	46/39	0.8	361.6	49/43
16	317.3	33/24	3.5	335.0	39/29	2.6	**347.8**	**44/36**	**0.7**	355.0	47/39	0.8	362.6	49/43
14	323.5	34/23	2.5	336.0	39/30	2.6	**348.8**	**44/36**	**0.7**	355.9	47/40	0.8	363.6	49/43
12	324.5	34/24	2.5	336.9	39/30	2.6	**349.8**	**45/37**	**0.7**	356.9	47/40	0.8	364.6	50/44
10	325.4	34/24	2.5	337.8	40/30	2.6	**350.7**	**45/37**	**0.7**	357.9	47/40	0.8	365.7	50/44
8	326.3	34/24	2.5	338.8	40/30	2.6	**351.7**	**45/37**	**0.7**	359.0	48/41	0.8	366.7	50/44
6	327.3	35/24	2.5	339.8	40/31	2.6	**352.7**	**46/37**	**0.7**	360.0	48/41	0.8	367.8	51/44
4	328.2	35/25	2.5	340.7	40/31	2.6	**353.7**	**46/38**	**0.7**	361.1	48/41	0.8	368.9	51/45
2	329.2	35/25	2.5	341.7	41/31	2.6	**354.8**	**46/38**	**0.7**	362.1	49/41	0.8	370.1	51/45
0	330.2	36/25	2.5	342.7	41/32	2.6	**355.8**	**46/38**	**0.7**	363.2	49/42	0.8	371.2	51/45

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY E) RWY 22R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3681m (12076ft)	**ED**	3420m (11220ft)	**TOD**	3681m (12076ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	282.6	32/22	1.9	292.1	37/28	1.4	**299.0**	**42/33**	**0.0**	299.0	45/37	0.0	299.0	48/41
66	292.6	34/24	2.0	302.4	39/29	2.0	**312.6**	**44/35**	**0.3**	315.5	46/38	0.0	315.5	50/41
62	304.0	37/26	2.0	314.2	41/32	2.1	**324.9**	**46/37**	**0.6**	330.5	49/40	0.2	332.0	52/44
58	313.8	37/28	2.1	324.3	42/34	2.1	**335.0**	**47/40**	**0.6**	340.7	49/43	0.6	346.3	51/46
54	322.4	38/30	2.1	333.1	43/36	2.2	**344.0**	**48/42**	**0.6**	349.9	50/45	0.6	355.9	52/48
52	326.7	39/29	2.1	337.3	44/35	2.2	**348.4**	**48/41**	**0.6**	354.3	51/44	0.6	360.6	53/47
50	330.5	38/30	2.2	341.3	43/36	2.3	**352.8**	**48/42**	**0.6**	359.0	50/44	0.7	365.5	52/48
48	334.6	39/31	2.2	345.5	44/37	2.3	**357.2**	**49/42**	**0.6**	363.6	51/45	0.7	370.3	53/49
46	338.7	40/32	2.2	349.8	45/37	2.4	**361.7**	**50/43**	**0.7**	368.2	52/46	0.7	375.0	54/49
44	342.6	41/32	2.2	353.8	45/38	2.5	**366.1**	**50/44**	**0.7**	372.7	53/47	0.7	379.7	55/50
42	346.5	39/33	2.3	358.1	44/39	2.5	**370.7**	**49/45**	**0.7**	377.5	51/48	0.7	384.5	54/51
40	350.7	40/34	2.4	362.5	45/40	2.6	**375.4**	**50/46**	**0.7**	382.3	52/49	0.9	391.1	54/51
38	355.0	41/35	2.4	367.1	46/41	2.6	**380.3**	**51/46**	**0.7**	387.4	53/49	1.1	398.0	54/52
36	359.5	42/36	2.5	371.9	47/41	2.7	**385.2**	**52/47**	**1.1**	395.9	53/49	0.7	402.8	55/53
34	363.9	41/36	2.5	376.6	46/42	3.1	**392.3**	**51/48**	**0.8**	400.7	52/50	0.7	407.5	55/53
32	368.0	42/37	2.6	380.9	47/43	3.4	**398.1**	**51/48**	**0.7**	404.9	53/51	0.7	411.8	55/54
30	372.5	43/38	2.6	385.6	47/44	3.4	**402.7**	**52/49**	**0.7**	409.6	54/52	0.7	416.6	56/55
28	373.6	43/38	2.6	386.7	48/44	3.4	**403.7**	**52/49**	**0.7**	410.7	54/52	0.7	417.7	56/55
26	374.6	43/38	2.8	388.4	48/44	3.3	**404.8**	**52/49**	**0.7**	411.7	55/52	0.7	418.7	57/55
24	375.6	43/38	2.9	390.2	48/44	3.1	**405.8**	**53/49**	**0.7**	412.7	55/52	0.7	419.8	57/56
22	376.7	44/39	3.1	392.0	48/44	3.0	**406.9**	**53/50**	**0.7**	413.8	55/53	0.7	420.9	57/56
20	377.8	44/39	3.2	393.9	48/44	2.8	**407.9**	**53/50**	**0.7**	414.8	55/53	0.7	422.0	58/56
18	378.8	44/39	3.4	395.8	48/44	2.6	**409.0**	**53/50**	**0.7**	415.9	56/53	0.7	423.1	58/56
16	380.0	44/39	3.4	396.9	49/45	2.6	**410.1**	**54/50**	**0.7**	417.1	56/53	0.7	424.2	58/57
14	381.0	45/40	3.4	398.0	49/45	2.6	**411.2**	**54/51**	**0.7**	418.2	56/54	0.7	425.3	58/57
12	382.1	45/40	3.4	399.1	49/45	2.6	**412.3**	**54/51**	**0.7**	419.3	56/54	0.7	426.4	59/57
10	383.2	45/40	3.4	400.2	49/45	2.6	**413.4**	**54/51**	**0.7**	420.5	57/54	0.7	427.6	59/58
8	384.4	45/40	3.4	401.3	50/46	2.7	**414.6**	**55/52**	**0.7**	421.6	57/55	0.7	428.8	59/58
6	385.5	46/41	3.4	402.4	50/46	2.7	**415.7**	**55/52**	**0.7**	422.8	57/55	0.7	430.0	60/58
4	386.7	46/41	3.4	403.5	50/46	2.7	**416.9**	**55/52**	**0.7**	423.9	58/55	0.7	431.2	60/58
2	388.5	46/41	3.2	404.6	50/46	2.7	**418.1**	**56/52**	**0.7**	425.1	58/55	0.7	432.4	60/59
0	390.5	46/41	3.1	405.8	51/47	2.7	**419.3**	**56/53**	**0.7**	426.3	58/56	0.7	433.6	60/59

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY Z) RWY 31L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	4423m (14511ft)	**ED**	4423m (14511ft)	**TOD**	4423m (14511ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	291.0	48/40	1.3	297.4	50/46	0.3	**299.0**	**51/51**	**0.0**	299.0	51/51	0.0	299.0	51/51
66	303.6	50/41	1.4	310.5	53/47	1.0	**315.5**	**55/53**	**0.0**	315.5	55/55	0.0	315.5	55/55
62	316.8	52/44	1.5	324.2	57/49	1.4	**331.2**	**59/55**	**0.1**	332.0	59/58	0.0	332.0	59/59
58	329.3	52/46	1.5	337.0	57/52	1.4	**344.2**	**62/57**	**0.4**	347.7	63/60	0.0	347.7	63/63
54	340.1	53/48	1.6	348.0	58/54	1.5	**355.7**	**63/59**	**0.4**	360.0	66/62	0.2	362.1	67/66
52	345.0	54/47	1.6	353.2	59/53	1.6	**361.0**	**64/58**	**0.5**	365.6	66/61	0.3	368.5	68/64
50	350.0	53/48	1.7	358.4	58/54	1.6	**366.6**	**63/59**	**0.5**	371.3	66/62	0.4	374.9	68/65
48	355.0	54/49	1.7	363.7	59/54	1.7	**372.1**	**64/60**	**0.5**	377.0	66/63	0.4	381.3	69/66
46	359.9	54/49	1.8	368.9	60/55	1.8	**377.7**	**65/61**	**0.5**	382.6	67/64	0.5	387.7	70/67
44	364.9	55/50	1.9	374.2	60/56	1.8	**383.0**	**66/62**	**0.5**	388.2	68/64	0.6	394.1	70/67
42	370.1	54/51	1.9	379.6	59/57	1.8	**388.8**	**64/62**	**0.6**	394.9	66/65	0.5	400.1	68/68
40	375.3	55/52	1.9	384.9	60/57	2.1	**395.6**	**65/63**	**0.5**	400.4	67/66	0.5	405.6	69/68
38	380.8	55/52	2.1	391.4	60/58	2.0	**401.2**	**65/63**	**0.5**	406.2	68/66	0.5	411.4	70/69
36	386.2	56/53	2.4	398.0	61/58	1.8	**406.8**	**66/64**	**0.5**	412.0	68/67	0.5	417.3	71/70
34	392.8	55/54	2.1	403.1	60/59	1.8	**412.2**	**65/65**	**0.5**	417.5	68/68	0.5	422.8	70/71
32	398.3	55/54	1.9	408.0	61/60	1.8	**417.2**	**66/66**	**0.5**	422.5	68/69	0.5	427.9	70/72
30	403.4	56/55	2.0	413.3	61/61	1.9	**422.6**	**67/66**	**0.5**	428.0	69/69	0.6	433.5	71/72
28	404.2	56/55	2.0	414.1	62/61	1.9	**423.4**	**67/67**	**0.5**	428.8	69/70	0.6	434.3	72/73
26	405.0	57/55	2.0	414.8	62/61	1.9	**424.1**	**67/67**	**0.6**	429.6	70/70	0.5	435.0	72/73
24	405.7	57/56	2.0	415.6	62/62	1.9	**424.9**	**68/67**	**0.5**	430.3	70/70	0.5	435.7	72/73
22	406.5	57/56	2.0	416.3	63/62	1.9	**425.6**	**68/68**	**0.5**	431.0	70/71	0.5	436.4	73/74
20	407.2	58/56	2.0	417.0	63/62	1.9	**426.3**	**68/68**	**0.5**	431.7	71/71	0.6	437.2	73/74
18	408.0	58/57	2.0	417.8	63/62	1.9	**427.1**	**69/68**	**0.5**	432.4	71/71	0.6	437.9	73/74
16	408.8	58/57	2.0	418.6	64/63	1.8	**427.8**	**69/69**	**0.5**	433.2	71/72	0.5	438.6	74/75
14	409.6	59/57	2.0	419.4	64/63	1.8	**428.6**	**69/69**	**0.5**	433.9	72/72	0.6	439.4	74/75
12	410.3	59/58	2.0	420.1	64/63	1.8	**429.3**	**70/69**	**0.5**	434.6	72/72	0.6	440.1	75/76
10	411.1	59/58	2.0	420.9	65/64	1.8	**430.1**	**70/70**	**0.5**	435.4	73/73	0.6	440.9	75/76
8	411.9	60/58	1.9	421.6	65/64	1.9	**430.9**	**71/70**	**0.5**	436.1	73/73	0.6	441.6	75/76
6	412.7	60/59	1.9	422.4	65/65	1.8	**431.6**	**71/71**	**0.5**	436.9	73/74	0.6	442.4	76/77
4	413.4	61/59	2.0	423.2	66/65	1.8	**432.4**	**71/71**	**0.5**	437.6	74/74	0.5	442.9	76/77
2	414.2	61/59	2.0	424.0	66/65	1.8	**433.1**	**72/71**	**0.5**	438.4	74/74	0.5	442.9	77/78
0	415.0	61/60	2.0	424.8	67/66	1.8	**433.9**	**72/72**	**0.5**	439.1	75/75	0.4	442.9	77/78

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW YORK**

A/D Elev **14ft** **J F KENNEDY (KJFK)**

F/L (TWY FB) RWY 31R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3048m (10000ft)	**ED**	2899m (9511ft)	**TOD**	3048m (10000ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.2	25/14	1.6	268.3	31/20	1.5	**275.9**	**36/26**	**0.4**	280.2	39/29	0.4	284.6	41/32
66	269.9	27/15	1.7	278.6	33/21	1.7	**287.0**	**38/27**	**0.5**	291.7	41/30	0.5	296.3	43/33
62	280.3	30/18	2.0	290.1	35/23	1.8	**299.2**	**41/29**	**0.5**	304.1	43/32	0.5	308.9	46/36
58	289.5	31/20	2.1	299.8	36/25	2.1	**310.3**	**41/32**	**0.5**	315.6	43/35	0.5	320.8	46/38
54	297.3	32/21	2.1	307.8	37/27	2.3	**319.3**	**42/33**	**0.6**	324.9	44/37	0.6	330.4	47/40
52	301.2	32/21	2.1	311.9	38/26	2.3	**323.5**	**43/33**	**0.6**	329.5	45/36	0.5	334.8	47/39
50	304.5	32/21	2.2	315.3	37/27	2.4	**327.2**	**42/33**	**0.6**	333.4	44/36	0.6	339.0	47/40
48	308.4	33/22	2.2	319.4	38/28	2.4	**331.4**	**43/34**	**0.6**	337.6	45/37	0.6	343.5	48/41
46	312.3	33/23	2.2	323.4	39/29	2.4	**335.3**	**44/35**	**0.6**	341.7	46/38	0.6	347.9	48/41
44	316.0	34/24	2.3	327.3	39/30	2.4	**339.3**	**45/36**	**0.6**	345.6	47/39	0.6	352.0	49/42
42	319.4	33/24	2.3	330.9	39/30	2.4	**343.1**	**44/37**	**0.7**	349.7	46/40	0.7	356.2	48/43
40	323.3	34/25	2.3	334.9	39/31	2.5	**347.3**	**44/37**	**0.7**	354.0	47/40	0.7	360.7	49/44
38	327.4	35/26	2.3	339.0	40/32	2.5	**351.5**	**45/38**	**0.7**	358.4	47/41	0.7	365.2	50/45
36	331.6	36/27	2.3	343.2	41/33	2.5	**355.9**	**46/39**	**0.7**	362.9	48/42	0.7	369.9	51/45
34	335.4	35/27	2.4	347.2	40/33	2.6	**360.2**	**45/40**	**0.7**	367.4	48/43	0.7	374.5	50/46
32	339.1	36/28	2.4	351.0	41/34	2.6	**364.2**	**46/40**	**0.7**	371.5	48/43	0.7	378.8	51/47
30	343.1	36/29	2.4	355.1	42/35	2.7	**368.7**	**47/41**	**0.7**	376.1	49/44	0.7	383.5	51/48
28	344.0	37/29	2.4	356.1	42/35	2.7	**369.7**	**47/41**	**0.8**	377.2	49/44	0.7	384.6	52/48
26	344.9	37/29	2.4	357.0	42/35	2.7	**370.7**	**47/42**	**0.8**	378.3	50/45	0.7	385.6	52/48
24	345.8	37/29	2.4	358.0	42/35	2.7	**371.7**	**48/42**	**0.8**	379.3	50/45	0.7	386.7	52/48
22	346.7	37/30	2.5	359.0	43/36	2.8	**372.8**	**48/42**	**0.8**	380.4	50/45	0.8	388.3	52/49
20	347.6	38/30	2.5	359.9	43/36	2.8	**373.8**	**48/42**	**0.8**	381.4	50/45	0.9	390.2	52/49
18	348.5	38/30	2.5	360.9	43/36	2.8	**374.9**	**48/43**	**0.8**	382.5	51/46	1.0	392.0	53/49
16	349.5	38/30	2.5	361.9	43/36	2.8	**375.9**	**49/43**	**0.8**	383.6	51/46	1.0	393.9	53/49
14	350.5	38/31	2.5	362.9	44/37	2.8	**377.0**	**49/43**	**0.8**	384.7	51/46	1.1	395.9	53/49
12	351.4	39/31	2.5	364.0	44/37	2.8	**378.1**	**49/43**	**0.8**	385.8	51/47	1.1	396.9	53/49
10	352.4	39/31	2.5	365.0	44/37	2.9	**379.3**	**49/44**	**0.8**	387.0	52/47	1.1	397.8	53/50
8	353.4	39/31	2.5	366.1	45/37	2.9	**380.4**	**50/44**	**0.9**	388.9	52/47	1.0	398.7	54/50
6	354.4	40/32	2.6	367.2	45/38	2.9	**381.5**	**50/44**	**0.9**	390.9	52/47	0.9	399.7	54/50
4	355.4	40/32	2.6	368.3	45/38	2.9	**382.7**	**50/44**	**1.0**	392.8	52/47	0.8	400.6	54/50
2	356.4	40/32	2.6	369.4	45/38	2.9	**383.8**	**50/45**	**1.1**	394.6	52/47	0.7	401.5	55/51
0	357.5	40/32	2.6	370.5	46/39	2.9	**385.0**	**51/45**	**1.1**	396.1	53/48	0.6	402.5	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400** LANDING DATA **LAS VEGAS (KLAS)**

A/D Elev **2181ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	01L	01R	07L	07R
Landing Distance Available	2561m / 8402ft	2644m / 8674ft	3647m / 11965ft	3209m / 10526ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	49°	49°	49°	49°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	272.0 (250.0)	276.0 (254.0)	15kt (10kt)	9kt (3kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	200.0	206.0	284.0	252.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (267.0)	280.8 (272.0)	15kt (10kt)	9kt (3kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	223.0	228.0	280.8	276.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **LAS VEGAS (KLAS)**

A/D Elev **2181ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	19L	19R	25L	25R
Landing Distance Available	2664m / 8740ft	2560m / 8394ft	3209m / 10526ft	3888m / 12755ft
Notes	Note 1	Note 1	Notes 1,2	Notes 1,2
WAT LIMIT °C : Man / Auto	49°	49°	49°	49°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	279.0 (257.0)	272.0 (250.0)	9kt (3kt)	15kt
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	208.0	200.0	252.0	2kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (276.0)	280.8 (267.0)	9kt (3kt)	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	231.0	223.0	276.0	2kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH of airfield.
2. **Rwy 25 ILS and VOR approaches**: Missed Approach Acceleration. Do not accelerate until initial missed approach turn onto easterly heading is complete.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY D/F) RWY 01L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.024% DN
TOR	2739m (8986ft)	**ED**	2739m (8986ft)	**TOD**	2739m (8986ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	229.8	20/9	1.6	237.6	25/12	1.5	**245.1**	**30/18**	**0.5**	249.7	33/21	0.4	254.1	35/24
66	237.9	20/9	1.6	246.1	26/13	1.6	**253.9**	**31/19**	**0.5**	258.5	33/22	0.5	263.1	36/25
62	247.1	22/10	1.7	255.5	28/15	1.6	**263.5**	**33/21**	**0.5**	268.3	36/24	0.5	273.2	39/27
58	255.8	24/11	1.7	264.4	30/17	1.7	**272.8**	**36/23**	**0.5**	277.9	38/26	0.5	283.0	41/30
54	263.3	25/13	1.8	272.3	31/19	1.8	**281.1**	**36/25**	**0.5**	286.4	38/28	0.5	291.7	41/31
52	266.8	26/12	1.8	276.0	31/18	1.8	**284.9**	**37/24**	**0.5**	290.3	39/27	0.5	295.7	42/30
50	270.2	26/13	1.9	279.7	31/19	1.8	**288.9**	**37/25**	**0.6**	294.4	39/28	0.6	299.9	41/31
48	273.7	27/14	1.9	283.3	32/20	1.9	**292.7**	**37/26**	**0.6**	298.3	40/29	0.6	303.8	42/32
46	277.2	27/15	1.9	286.9	33/20	1.9	**296.5**	**38/26**	**0.6**	302.2	41/30	0.6	307.8	43/33
44	280.6	28/15	2.0	290.5	33/21	2.0	**300.3**	**39/27**	**0.6**	306.0	41/30	0.6	311.7	44/34
42	283.4	28/16	2.0	293.4	33/22	2.1	**304.1**	**38/28**	**0.6**	310.0	41/31	0.6	315.7	43/34
40	287.1	28/17	2.0	297.2	34/22	2.2	**308.1**	**39/29**	**0.6**	314.0	41/32	0.6	319.9	44/35
38	290.8	29/17	2.1	301.1	34/23	2.2	**312.2**	**40/29**	**0.6**	318.2	42/33	0.6	324.0	45/36
36	294.5	30/18	2.1	305.0	35/24	2.2	**316.2**	**41/30**	**0.6**	322.3	43/33	0.6	328.3	46/37
34	297.3	29/19	2.2	308.1	34/25	2.4	**320.0**	**40/31**	**0.6**	326.3	42/34	0.6	332.2	44/37
32	300.7	30/19	2.2	311.7	35/25	2.4	**323.6**	**40/32**	**0.6**	330.0	43/35	0.6	335.9	45/38
30	304.4	31/20	2.2	315.5	36/26	2.4	**327.7**	**41/32**	**0.6**	334.0	44/36	0.6	340.1	46/39
28	307.1	31/20	2.2	318.3	37/26	2.4	**330.5**	**42/33**	**0.6**	336.9	44/36	0.6	342.9	47/39
26	309.8	30/21	2.3	321.1	36/27	2.4	**333.3**	**41/33**	**0.7**	339.8	43/37	0.6	345.8	46/40
24	312.5	31/22	2.3	323.9	36/28	2.5	**336.2**	**41/34**	**0.7**	342.7	44/37	0.6	348.8	46/41
22	313.7	31/22	2.3	325.2	36/28	2.4	**337.4**	**42/34**	**0.7**	343.9	44/37	0.6	350.1	47/41
20	314.5	31/22	2.3	326.0	37/28	2.5	**338.3**	**42/35**	**0.7**	344.8	44/38	0.6	351.0	47/41
18	315.3	32/22	2.3	326.8	37/28	2.5	**339.2**	**42/35**	**0.6**	345.6	45/38	0.6	351.8	47/41
16	316.2	32/23	2.3	327.7	37/29	2.5	**340.0**	**43/35**	**0.7**	346.5	45/38	0.6	352.7	47/42
14	317.0	32/23	2.3	328.6	38/29	2.5	**340.9**	**43/35**	**0.6**	347.3	45/39	0.6	353.6	48/42
12	317.9	32/23	2.3	329.4	38/29	2.5	**341.7**	**43/36**	**0.7**	348.2	45/39	0.6	354.5	48/42
10	318.8	33/23	2.3	330.3	38/29	2.5	**342.6**	**43/36**	**0.7**	349.1	46/39	0.6	355.3	48/43
8	319.6	33/24	2.3	331.2	38/30	2.5	**343.5**	**44/36**	**0.7**	350.0	46/39	0.6	356.3	49/43
6	320.5	33/24	2.3	332.0	39/30	2.5	**344.4**	**44/36**	**0.7**	350.9	46/40	0.6	357.2	49/43
4	321.4	35/24	2.3	332.9	41/30	2.5	**345.3**	**46/37**	**0.7**	351.8	48/40	0.6	358.1	51/43
2	322.3	35/24	2.3	333.8	41/30	2.5	**346.2**	**46/37**	**0.7**	352.7	49/40	0.6	359.1	51/44
0	323.2	36/25	2.3	334.7	41/31	2.5	**347.2**	**46/37**	**0.6**	353.6	49/41	0.6	360.0	51/44

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 01L

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

COWBY/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO NAPSE BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE BESSY - CONTINUE ON SID TO BESSY THEN DIRECT TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER BESSY BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY D) RWY 01R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.003% DN
TOR	2978m (9770ft)	**ED**	2876m (9435ft)	**TOD**	3099m (10167ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	245.6	20/9	1.6	253.7	25/13	1.7	**262.1**	**30/19**	**0.4**	266.5	33/22	0.5	271.1	35/25
66	253.6	21/9	1.6	261.8	26/14	1.8	**270.7**	**31/20**	**0.5**	275.6	33/23	0.5	280.5	36/26
62	262.9	23/11	1.7	271.5	28/17	1.9	**281.1**	**33/22**	**0.5**	286.2	36/25	0.5	291.4	38/28
58	272.1	25/13	1.8	281.1	31/19	2.0	**291.1**	**36/25**	**0.5**	296.5	38/27	0.5	301.8	40/30
54	279.5	26/15	1.8	288.7	31/20	2.0	**298.9**	**36/26**	**0.5**	304.3	38/29	0.6	309.8	40/32
52	283.2	26/14	1.9	292.6	32/20	2.1	**302.9**	**36/25**	**0.6**	308.4	39/28	0.6	314.0	41/31
50	286.4	26/15	1.9	296.0	31/20	2.1	**306.5**	**36/26**	**0.6**	312.1	39/29	0.6	317.8	41/32
48	290.3	27/16	1.9	300.0	32/21	2.1	**310.6**	**37/27**	**0.6**	316.2	39/30	0.6	322.0	42/33
46	293.9	28/16	2.0	303.7	33/22	2.2	**314.5**	**38/28**	**0.6**	320.3	40/31	0.6	326.2	43/34
44	297.6	28/17	2.0	307.5	34/22	2.2	**318.4**	**39/29**	**0.6**	324.3	41/32	0.6	330.3	43/35
42	300.7	28/18	2.0	310.8	33/23	2.2	**321.9**	**38/29**	**0.6**	328.0	40/32	0.6	334.0	43/36
40	304.5	29/18	2.1	314.8	34/24	2.3	**326.1**	**39/30**	**0.6**	332.1	41/33	0.6	338.2	44/36
38	308.5	29/19	2.1	318.9	35/25	2.3	**330.3**	**40/31**	**0.6**	336.3	42/34	0.6	342.4	44/37
36	312.4	30/20	2.1	323.0	35/26	2.3	**334.4**	**41/32**	**0.6**	340.6	43/35	0.6	346.7	45/38
34	315.6	29/20	2.2	326.6	34/26	2.3	**338.2**	**39/32**	**0.6**	344.4	42/35	0.6	350.7	44/39
32	319.2	30/21	2.2	330.3	35/27	2.3	**341.9**	**40/33**	**0.6**	348.2	42/36	0.6	354.6	45/39
30	323.1	31/22	2.2	334.3	36/28	2.3	**346.0**	**41/34**	**0.6**	352.4	43/37	0.7	359.0	45/40
28	325.8	31/22	2.3	337.1	36/28	2.4	**348.9**	**41/34**	**0.7**	355.4	44/37	0.7	362.1	46/41
26	328.7	30/23	2.3	340.1	35/29	2.4	**352.0**	**40/35**	**0.7**	358.6	43/38	0.7	365.4	45/41
24	331.6	31/23	2.3	342.9	36/29	2.4	**355.0**	**41/35**	**0.7**	361.8	43/39	0.7	368.7	46/42
22	332.8	31/24	2.3	344.1	36/29	2.5	**356.4**	**41/36**	**0.7**	363.1	44/39	0.7	370.1	46/42
20	333.7	31/24	2.3	345.1	37/30	2.4	**357.3**	**42/36**	**0.7**	364.1	44/39	0.7	371.1	46/42
18	334.5	32/24	2.3	345.9	37/30	2.5	**358.2**	**42/36**	**0.7**	365.0	44/39	0.7	372.1	47/43
16	335.4	32/24	2.3	346.8	37/30	2.5	**359.1**	**42/37**	**0.7**	366.0	45/40	0.7	373.1	47/43
14	336.4	32/25	2.3	347.7	37/30	2.5	**360.1**	**42/37**	**0.7**	367.0	45/40	0.7	374.1	47/43
12	337.3	32/25	2.3	348.6	38/31	2.5	**361.0**	**43/37**	**0.7**	368.0	45/40	0.7	375.1	47/43
10	338.2	33/25	2.3	349.5	38/31	2.5	**362.0**	**43/37**	**0.7**	369.0	45/40	0.7	376.1	48/44
8	339.2	33/25	2.3	350.5	38/31	2.5	**363.0**	**43/38**	**0.7**	370.0	46/41	0.7	377.1	48/44
6	340.1	33/26	2.3	351.4	38/31	2.5	**364.0**	**44/38**	**0.7**	371.0	46/41	0.7	378.2	48/44
4	341.0	35/26	2.3	352.3	40/32	2.5	**364.9**	**45/38**	**0.7**	371.9	48/41	0.7	379.1	50/45
2	341.9	35/26	2.3	353.2	41/32	2.5	**365.9**	**46/38**	**0.7**	373.0	48/41	0.7	380.2	50/45
0	342.8	36/26	2.3	354.2	41/32	2.5	**366.9**	**46/39**	**0.7**	374.0	48/42	0.7	381.3	51/45

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 01R

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

COWBY/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO NAPSE BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE BESSY - CONTINUE ON SID TO BESSY THEN DIRECT TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER BESSY BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY F) RWY 07L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.006% DN
TOR	4423m (14511ft)	**ED**	4298m (14101ft)	**TOD**	4603m (15101ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	276.2	42/32	0.0	276.2	45/39	0.0	**276.2**	**45/45**	**0.0**	276.2	45/45	0.0	276.2	45/45
66	291.3	40/33	0.0	291.3	47/39	0.0	**291.3**	**49/45**	**0.0**	291.3	49/49	0.0	291.3	49/49
62	305.9	42/35	0.1	306.5	48/41	0.0	**306.5**	**53/47**	**0.0**	306.5	53/51	0.0	306.5	53/53
58	317.0	44/37	0.8	321.0	50/43	0.0	**321.0**	**57/49**	**0.0**	321.0	57/53	0.0	321.0	57/56
54	325.6	44/39	1.8	334.4	49/44	0.0	**334.4**	**55/51**	**0.0**	334.4	59/54	0.0	334.4	60/58
52	330.1	45/38	1.9	339.4	50/43	0.3	**340.7**	**56/50**	**0.0**	340.7	59/53	0.0	340.7	62/57
50	334.2	45/39	1.9	343.9	50/44	0.6	**347.0**	**55/50**	**0.0**	347.0	59/54	0.0	347.0	62/57
48	338.6	46/40	1.9	348.3	50/45	1.0	**353.2**	**56/51**	**0.0**	353.2	59/54	0.0	353.2	62/58
46	342.9	46/41	2.0	352.8	51/46	1.3	**359.3**	**57/52**	**0.0**	359.3	60/55	0.0	359.3	63/59
44	347.1	47/41	2.0	357.2	52/47	1.6	**365.4**	**57/52**	**0.0**	365.4	60/56	0.0	365.4	64/59
42	351.5	47/42	2.1	361.8	51/48	1.9	**371.5**	**56/53**	**0.0**	371.5	60/56	0.0	371.5	63/60
40	355.9	47/43	2.1	366.6	52/48	2.2	**377.5**	**57/54**	**0.0**	377.5	60/57	0.0	377.5	63/61
38	360.6	48/44	2.2	371.5	53/49	2.3	**383.2**	**58/54**	**0.1**	383.8	61/58	0.0	383.8	64/62
36	365.3	49/45	2.3	376.6	54/50	2.5	**389.2**	**59/55**	**0.1**	390.1	62/58	0.0	390.1	65/62
34	370.0	48/45	2.3	381.5	53/51	2.9	**396.2**	**57/55**	**0.0**	396.2	60/59	0.0	396.2	63/63
32	374.3	48/46	2.3	385.9	53/51	3.0	**400.8**	**57/56**	**0.1**	402.2	60/59	0.0	402.2	64/63
30	379.2	49/47	2.8	393.0	54/52	2.5	**405.6**	**58/57**	**0.3**	408.2	61/60	0.0	408.2	64/64
28	382.6	50/47	3.0	397.5	54/52	2.3	**409.1**	**59/57**	**0.4**	413.3	61/60	0.0	413.3	65/64
26	386.4	49/48	2.9	401.1	53/53	2.3	**412.7**	**58/58**	**0.5**	417.9	60/61	0.0	417.9	63/65
24	391.5	49/48	2.6	404.5	54/53	2.3	**416.2**	**59/59**	**0.6**	422.2	61/61	0.0	422.5	64/65
22	393.8	49/48	2.4	405.9	54/54	2.3	**417.6**	**59/59**	**0.6**	423.5	61/62	0.0	423.5	64/66
20	395.3	50/48	2.3	406.9	54/54	2.3	**418.6**	**59/59**	**0.5**	423.5	62/62	0.0	423.5	65/66
18	396.5	50/49	2.3	407.8	55/54	2.4	**419.6**	**59/60**	**0.4**	423.5	62/63	0.0	423.5	65/66
16	397.4	50/49	2.3	408.8	55/54	2.4	**420.6**	**60/60**	**0.3**	423.5	62/63	0.0	423.5	66/67
14	398.4	50/49	2.3	409.8	55/55	2.3	**421.5**	**60/60**	**0.2**	423.6	63/63	0.0	423.6	66/67
12	399.4	51/49	2.3	410.7	56/55	2.4	**422.5**	**60/60**	**0.1**	423.6	63/64	0.0	423.6	67/68
10	400.3	51/50	2.3	411.7	56/55	2.4	**423.5**	**61/61**	**0.0**	423.6	64/64	0.0	423.6	67/68
8	401.3	51/50	2.3	412.7	56/56	2.2	**423.6**	**61/61**	**0.0**	423.6	64/65	0.0	423.6	68/69
6	402.3	51/50	2.3	413.7	56/56	2.0	**423.6**	**62/62**	**0.0**	423.6	65/65	0.0	423.6	68/69
4	403.0	53/51	2.3	414.5	58/56	1.8	**423.6**	**64/62**	**0.0**	423.6	67/66	0.0	423.6	70/70
2	404.0	53/51	2.3	415.5	59/57	1.6	**423.6**	**64/62**	**0.0**	423.6	67/66	0.0	423.6	71/70
0	405.0	54/51	2.3	416.6	59/57	1.4	**423.6**	**65/63**	**0.0**	423.6	68/67	0.0	423.6	71/71

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 07L

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

COWBY/TRALR SIDS ENGINE FAILURE BEFORE BAKRR - CONTINUE ON SID TO LAS 18D BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER BAKRR - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO MINEY BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY A8) RWY 07R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.026% DN
TOR	3208m (10524ft)	**ED**	3208m (10524ft)	**TOD**	3208m (10524ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	253.3	26/14	1.6	261.5	31/19	1.6	**269.3**	**36/25**	**0.5**	274.0	39/28	0.2	276.2	42/31
66	260.9	27/16	1.8	269.8	32/21	1.7	**278.3**	**37/27**	**0.5**	283.2	39/29	0.5	288.6	41/32
62	270.3	29/18	1.9	279.8	34/23	1.8	**288.7**	**39/29**	**0.5**	293.9	41/32	0.6	299.5	43/35
58	279.7	31/20	2.0	289.5	36/25	1.9	**298.8**	**42/31**	**0.5**	304.2	44/34	0.6	310.0	46/37
54	286.9	32/22	2.0	296.9	36/27	2.1	**307.4**	**41/33**	**0.6**	313.1	43/36	0.6	318.8	45/39
52	290.7	32/21	2.0	300.9	37/26	2.1	**311.4**	**42/32**	**0.6**	317.2	44/35	0.6	323.0	46/38
50	294.0	32/22	2.1	304.3	37/27	2.1	**315.0**	**42/33**	**0.6**	321.0	44/36	0.6	326.9	46/39
48	297.8	33/22	2.1	308.2	38/28	2.2	**319.2**	**43/34**	**0.6**	325.1	45/37	0.6	331.1	47/40
46	301.5	34/23	2.1	312.1	39/29	2.2	**323.2**	**44/35**	**0.6**	329.3	46/38	0.6	335.1	48/41
44	305.2	35/24	2.1	315.9	40/29	2.2	**327.1**	**45/35**	**0.6**	333.1	47/38	0.6	339.1	49/42
42	308.3	34/25	2.2	319.3	39/30	2.3	**330.7**	**44/36**	**0.6**	336.8	46/39	0.6	343.0	48/42
40	312.2	35/25	2.2	323.3	40/31	2.3	**334.7**	**45/37**	**0.6**	341.0	47/40	0.6	347.1	49/43
38	316.2	36/26	2.2	327.4	41/32	2.3	**338.9**	**46/38**	**0.6**	345.1	48/41	0.6	351.4	50/44
36	320.2	36/27	2.3	331.5	41/33	2.3	**343.0**	**46/39**	**0.6**	349.4	49/42	0.6	355.8	51/45
34	323.6	36/28	2.3	335.1	40/33	2.4	**346.9**	**45/39**	**0.7**	353.4	48/42	0.7	360.0	50/46
32	327.2	36/28	2.3	338.8	41/34	2.4	**350.7**	**46/40**	**0.7**	357.2	48/43	0.7	363.9	50/46
30	331.3	37/29	2.3	342.8	42/35	2.4	**354.9**	**47/41**	**0.7**	361.6	49/44	0.7	368.5	51/47
28	334.0	38/30	2.3	345.6	43/35	2.5	**357.9**	**48/42**	**0.7**	364.7	50/45	0.7	371.8	52/48
26	336.9	37/30	2.3	348.6	42/36	2.5	**361.0**	**47/42**	**0.7**	368.0	49/45	0.7	375.1	51/48
24	339.8	37/31	2.4	351.6	42/37	2.5	**364.2**	**47/43**	**0.7**	371.3	50/46	0.7	378.5	52/49
22	341.0	38/31	2.4	352.9	42/37	2.5	**365.6**	**48/43**	**0.7**	372.7	50/46	0.7	380.0	52/49
20	341.9	38/31	2.4	353.8	43/37	2.6	**366.6**	**48/43**	**0.7**	373.8	50/46	0.7	381.0	52/50
18	342.8	38/32	2.4	354.8	43/37	2.6	**367.6**	**48/43**	**0.7**	374.8	50/47	0.7	382.1	53/50
16	343.7	38/32	2.4	355.7	43/38	2.6	**368.6**	**48/44**	**0.7**	375.9	51/47	0.7	383.1	53/50
14	344.6	39/32	2.4	356.7	44/38	2.6	**369.7**	**49/44**	**0.7**	376.9	51/47	0.7	384.2	53/50
12	345.5	39/32	2.4	357.7	44/38	2.6	**370.7**	**49/44**	**0.7**	378.0	51/47	0.7	385.3	53/51
10	346.5	39/33	2.4	358.7	44/38	2.6	**371.8**	**49/45**	**0.7**	379.1	51/48	0.7	386.4	54/51
8	347.5	39/33	2.4	359.7	44/39	2.6	**372.9**	**49/45**	**0.7**	380.3	52/48	0.8	388.0	54/51
6	348.4	40/33	2.5	360.7	45/39	2.7	**374.0**	**50/45**	**0.7**	381.4	52/48	0.9	389.9	54/51
4	349.4	42/33	2.5	361.7	46/39	2.7	**375.0**	**52/45**	**0.7**	382.4	54/48	0.9	391.7	56/51
2	350.4	42/34	2.5	362.7	47/39	2.7	**376.1**	**52/46**	**0.7**	383.5	54/49	1.0	393.6	56/52
0	351.4	42/34	2.5	363.8	47/40	2.7	**377.2**	**52/46**	**0.8**	384.7	54/49	1.1	395.6	56/52

P/C above 1013 + 0.1
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 07R

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS. COWBY/TRALR SIDS ENGINE FAILURE BEFORE BAKRR - CONTINUE ON SID TO LAS 18D BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER BAKRR - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO MINEY BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY D/E) RWY 19L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.003% UP
TOR	2978m (9770ft)	**ED**	2950m (9678ft)	**TOD**	3100m (10170ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	231.1	20/10	1.4	238.2	26/15	1.4	**245.0**	**31/21**	**0.4**	249.0	34/24	0.4	253.0	36/27
66	239.6	21/10	1.6	247.6	27/16	1.4	**254.7**	**32/22**	**0.4**	258.9	35/24	0.4	263.0	37/28
62	249.1	23/12	1.7	257.4	29/18	1.5	**265.0**	**34/24**	**0.4**	269.4	37/27	0.4	273.8	40/30
58	258.0	25/14	1.7	266.6	31/20	1.6	**274.8**	**37/26**	**0.5**	279.6	39/29	0.5	284.2	42/32
54	265.2	26/16	1.8	274.1	32/21	1.9	**283.6**	**37/28**	**0.5**	288.5	39/31	0.5	293.4	42/34
52	268.8	27/15	1.8	277.9	32/21	1.9	**287.6**	**38/27**	**0.5**	292.7	40/30	0.5	297.6	42/33
50	272.0	27/16	1.8	281.2	32/21	2.0	**291.3**	**37/28**	**0.5**	296.6	40/31	0.5	302.0	42/34
48	275.6	28/17	1.9	285.0	33/22	2.0	**295.2**	**38/28**	**0.6**	300.7	41/31	0.6	306.2	43/35
46	279.2	28/17	1.9	288.8	34/23	2.1	**299.1**	**39/29**	**0.6**	304.6	41/32	0.6	310.3	44/35
44	282.7	29/18	1.9	292.4	34/24	2.1	**302.9**	**40/30**	**0.6**	308.6	42/33	0.6	314.2	44/36
42	285.6	29/19	2.0	295.5	34/24	2.1	**306.2**	**39/31**	**0.6**	312.0	41/34	0.6	317.8	44/37
40	289.4	29/19	2.0	299.4	35/25	2.2	**310.3**	**40/31**	**0.6**	316.1	42/34	0.6	322.0	45/38
38	293.2	30/20	2.0	303.4	35/26	2.2	**314.4**	**41/32**	**0.6**	320.3	43/35	0.6	326.3	46/39
36	297.0	31/21	2.1	307.4	36/26	2.2	**318.6**	**41/33**	**0.6**	324.5	44/36	0.6	330.6	46/39
34	300.1	30/21	2.1	310.7	35/27	2.3	**322.2**	**41/34**	**0.6**	328.4	43/37	0.6	334.4	45/40
32	303.5	31/22	2.2	314.3	36/28	2.3	**325.9**	**41/34**	**0.6**	332.1	44/38	0.6	338.2	46/41
30	307.3	31/23	2.2	318.3	37/29	2.4	**330.1**	**42/35**	**0.6**	336.2	44/38	0.6	342.4	47/42
28	310.1	32/23	2.2	321.1	37/29	2.4	**332.9**	**43/36**	**0.6**	339.1	45/39	0.6	345.3	47/42
26	312.8	31/24	2.2	323.9	36/30	2.4	**335.7**	**42/36**	**0.6**	342.0	44/39	0.6	348.3	46/43
24	315.6	32/24	2.3	326.9	37/30	2.4	**338.7**	**42/37**	**0.6**	344.9	45/40	0.6	351.3	47/43
22	316.7	32/25	2.3	328.1	37/31	2.4	**339.9**	**43/37**	**0.6**	346.2	45/40	0.6	352.6	47/44
20	317.5	32/25	2.3	328.9	38/31	2.4	**340.7**	**43/37**	**0.6**	347.0	45/41	0.6	353.4	48/44
18	318.3	32/25	2.3	329.7	38/31	2.4	**341.5**	**43/38**	**0.6**	347.8	45/41	0.6	354.2	48/44
16	319.2	33/25	2.3	330.5	38/31	2.4	**342.3**	**43/38**	**0.6**	348.6	46/41	0.7	355.1	48/45
14	320.0	33/26	2.3	331.3	38/32	2.4	**343.1**	**44/38**	**0.6**	349.5	46/41	0.6	355.9	48/45
12	320.8	33/26	2.3	332.1	39/32	2.4	**343.9**	**44/38**	**0.6**	350.3	46/42	0.7	356.8	49/45
10	321.6	34/26	2.3	332.9	39/32	2.4	**344.8**	**44/39**	**0.6**	351.2	47/42	0.6	357.6	49/45
8	322.4	34/26	2.3	333.7	39/32	2.4	**345.6**	**45/39**	**0.6**	352.0	47/42	0.7	358.5	49/46
6	323.2	34/27	2.3	334.5	40/33	2.4	**346.5**	**45/39**	**0.6**	352.9	47/42	0.7	359.4	50/46
4	324.1	36/27	2.3	335.4	42/33	2.4	**347.4**	**47/40**	**0.6**	353.8	49/43	0.7	360.3	52/46
2	324.9	36/27	2.3	336.2	42/33	2.4	**348.2**	**47/40**	**0.6**	354.6	50/43	0.7	361.3	52/47
0	325.8	37/27	2.3	337.1	42/34	2.4	**349.1**	**47/40**	**0.6**	355.5	50/43	0.7	362.2	52/47

P/C above 1013 + 0.2
P/C below 1013 - 0.4

Min Acceleration Height 1700ft

PERFORMANCE RESTRICTIONS - Rwy 19L

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

COWBY/PRFUM/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR) BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY E/J) RWY 19R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.035% UP
TOR	2739m (8986ft)	**ED**	2560m (8398ft)	**TOD**	2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	220.3	14/9	1.5	227.8	19/9	1.4	**235.0**	**24/14**	**0.4**	239.1	27/17	0.4	243.2	30/20
66	228.2	15/9	1.6	236.2	20/9	1.6	**244.3**	**25/14**	**0.4**	248.7	28/17	0.4	253.0	30/20
62	237.2	16/9	1.7	245.7	22/10	1.7	**254.2**	**27/16**	**0.5**	258.7	30/19	0.5	263.3	33/23
58	245.8	18/9	1.8	254.6	24/12	1.8	**263.6**	**29/18**	**0.5**	268.3	32/21	0.5	273.2	35/25
54	253.0	19/9	1.8	261.9	25/14	1.8	**271.1**	**30/20**	**0.5**	276.2	33/23	0.5	281.5	35/27
52	256.4	20/9	1.8	265.4	25/13	1.9	**274.8**	**31/19**	**0.5**	280.1	33/22	0.5	285.4	36/26
50	259.6	20/9	1.8	268.6	25/14	1.9	**278.1**	**31/20**	**0.5**	283.4	33/23	0.6	288.9	36/26
48	259.1	20/10	2.6	272.2	26/15	1.9	**281.9**	**31/21**	**0.5**	287.3	34/24	0.6	292.8	36/27
46	258.2	21/11	3.5	275.8	27/15	2.0	**285.6**	**32/21**	**0.6**	291.1	35/25	0.6	296.7	37/28
44	257.3	22/12	4.4	279.3	28/16	2.0	**289.2**	**33/22**	**0.6**	294.8	35/25	0.6	300.6	38/29
42	256.3	22/13	5.2	282.3	27/17	2.0	**292.3**	**32/23**	**0.6**	298.0	35/26	0.6	303.8	37/29
40	255.4	22/14	6.1	286.0	28/17	2.0	**296.2**	**33/24**	**0.6**	301.9	36/27	0.6	307.8	38/30
38	254.5	23/15	7.1	289.8	28/18	2.1	**300.2**	**34/24**	**0.6**	305.9	36/27	0.6	312.0	39/31
36	253.6	24/16	8.0	293.7	29/19	2.1	**304.1**	**34/25**	**0.6**	310.0	37/28	0.6	316.1	40/32
34	252.8	23/17	8.8	296.6	28/19	2.1	**307.3**	**34/26**	**0.6**	313.4	36/29	0.6	319.8	39/33
32	252.8	24/17	9.5	300.1	29/20	2.2	**310.9**	**34/26**	**0.6**	317.1	37/30	0.6	323.5	40/33
30	252.1	24/18	10.3	303.8	30/21	2.2	**314.8**	**35/27**	**0.6**	321.1	38/30	0.6	327.5	40/34
28	252.6	25/19	10.8	306.6	30/21	2.2	**317.7**	**36/28**	**0.6**	323.9	38/31	0.7	330.5	41/34
26	253.3	24/20	11.2	309.3	29/22	2.2	**320.5**	**35/28**	**0.6**	326.8	37/31	0.7	333.3	40/35
24	253.9	25/20	11.6	312.1	30/22	2.3	**323.4**	**35/29**	**0.6**	329.8	38/32	0.6	336.2	40/36
22	256.9	25/20	11.3	313.2	30/22	2.3	**324.6**	**36/29**	**0.6**	330.9	38/32	0.7	337.4	41/36
20	260.2	25/20	10.8	314.0	31/23	2.3	**325.3**	**36/29**	**0.6**	331.7	39/33	0.7	338.3	41/36
18	263.8	25/20	10.2	314.7	31/23	2.3	**326.1**	**36/30**	**0.6**	332.5	39/33	0.7	339.1	41/36
16	267.4	26/20	9.6	315.5	31/23	2.3	**326.9**	**36/30**	**0.6**	333.3	39/33	0.7	339.9	42/37
14	271.2	26/20	9.0	316.3	31/23	2.3	**327.7**	**37/30**	**0.6**	334.1	39/33	0.7	340.6	42/37
12	275.1	26/20	8.4	317.0	32/24	2.3	**328.5**	**37/30**	**0.6**	334.9	40/34	0.7	341.4	42/37
10	279.0	26/20	7.8	317.8	32/24	2.3	**329.3**	**37/31**	**0.6**	335.7	40/34	0.7	342.2	42/38
8	283.1	27/20	7.1	318.6	32/24	2.3	**330.2**	**38/31**	**0.6**	336.5	40/34	0.7	343.0	43/38
6	287.3	27/20	6.4	319.4	33/25	2.3	**331.0**	**38/31**	**0.6**	337.3	41/34	0.7	343.9	43/38
4	291.5	29/20	5.8	320.3	34/25	2.3	**331.8**	**40/31**	**0.6**	338.2	42/35	0.7	344.7	45/38
2	295.9	29/20	5.0	321.1	35/25	2.3	**332.6**	**40/32**	**0.6**	339.0	43/35	0.7	345.5	45/39
0	300.3	29/20	4.3	321.9	35/25	2.3	**333.5**	**40/32**	**0.6**	339.8	43/35	0.7	346.4	46/39

P/C above 1013 + 0.1
P/C below 1013 - 0.4

Min Acceleration Height 1600ft

PERFORMANCE RESTRICTIONS - Rwy 19R

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

COWBY/PRFUM/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR) BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY A2) RWY 25L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.036% UP
TOR	3208m (10524ft)	**ED**	3208m (10524ft)	**TOD**	3208m (10524ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	240.9	24/14	1.7	249.5	29/19	1.5	**257.1**	**34/25**	**0.4**	261.1	37/28	0.4	264.9	39/31
66	248.6	25/15	1.8	257.4	30/21	1.6	**265.6**	**35/26**	**0.5**	270.5	38/29	0.5	275.4	40/32
62	257.5	27/17	1.8	266.6	32/23	1.7	**275.3**	**38/29**	**0.5**	280.5	40/32	0.5	285.9	42/35
58	266.2	30/20	1.9	275.8	35/25	1.8	**284.9**	**40/31**	**0.6**	290.4	42/34	0.6	295.9	45/37
54	273.1	30/21	2.0	282.9	35/27	2.1	**293.2**	**40/33**	**0.6**	298.9	42/36	0.6	304.6	44/39
52	276.7	31/21	2.0	286.6	36/26	2.1	**297.1**	**41/32**	**0.6**	302.8	43/35	0.6	308.6	45/38
50	279.7	31/22	2.0	289.8	36/27	2.2	**300.6**	**41/33**	**0.6**	306.4	43/36	0.6	312.3	45/39
48	283.3	32/22	2.0	293.5	37/28	2.2	**304.5**	**42/34**	**0.6**	310.4	44/37	0.6	316.3	46/40
46	286.8	32/23	2.1	297.2	38/29	2.2	**308.3**	**43/35**	**0.6**	314.3	45/38	0.6	320.4	47/41
44	290.3	33/24	2.1	300.8	38/29	2.3	**312.1**	**43/35**	**0.6**	318.1	46/38	0.6	324.2	48/42
42	293.1	33/24	2.1	303.8	38/30	2.3	**315.2**	**43/36**	**0.6**	321.5	45/39	0.6	327.7	47/43
40	296.8	33/25	2.2	307.6	39/31	2.3	**319.3**	**44/37**	**0.6**	325.5	46/40	0.6	331.8	48/43
38	300.6	34/26	2.2	311.6	39/32	2.3	**323.3**	**44/38**	**0.6**	329.7	47/41	0.6	335.9	49/44
36	304.4	35/27	2.2	315.5	40/33	2.4	**327.4**	**45/39**	**0.6**	333.7	48/42	0.6	340.1	50/45
34	307.4	34/27	2.3	318.9	39/33	2.4	**331.1**	**44/40**	**0.6**	337.4	47/43	0.6	343.7	49/46
32	310.8	35/28	2.3	322.4	40/34	2.4	**334.6**	**45/40**	**0.7**	341.1	47/43	0.6	347.4	49/47
30	314.6	36/29	2.4	326.4	41/35	2.5	**338.7**	**46/41**	**0.6**	345.1	48/44	0.7	351.6	50/47
28	317.3	36/29	2.4	329.2	42/35	2.5	**341.5**	**47/42**	**0.7**	348.0	49/45	0.7	354.6	51/48
26	320.1	35/30	2.4	332.0	41/36	2.4	**344.2**	**46/42**	**0.7**	350.8	48/45	0.7	357.5	50/49
24	322.9	36/31	2.4	334.8	41/37	2.5	**347.2**	**46/43**	**0.7**	353.8	48/46	0.7	360.6	51/49
22	324.2	36/31	2.4	336.0	41/37	2.5	**348.5**	**46/43**	**0.7**	355.1	49/46	0.7	362.0	51/50
20	325.0	37/31	2.4	336.9	42/37	2.5	**349.4**	**47/43**	**0.7**	356.1	49/47	0.7	363.0	51/50
18	325.9	37/31	2.4	337.8	42/37	2.5	**350.3**	**47/44**	**0.7**	357.1	49/47	0.7	363.9	52/50
16	326.8	37/32	2.4	338.8	42/38	2.5	**351.3**	**47/44**	**0.7**	358.0	50/47	0.7	365.0	52/50
14	327.8	37/32	2.4	339.7	43/38	2.5	**352.2**	**48/44**	**0.7**	359.0	50/47	0.7	366.0	52/51
12	328.7	38/32	2.4	340.6	43/38	2.5	**353.2**	**48/44**	**0.7**	360.0	50/48	0.7	367.0	52/51
10	329.6	38/32	2.4	341.5	43/38	2.5	**354.1**	**48/45**	**0.7**	361.0	50/48	0.7	368.1	53/51
8	330.6	38/33	2.4	342.5	43/39	2.5	**355.1**	**48/45**	**0.7**	362.0	51/48	0.7	369.1	53/52
6	331.5	38/33	2.4	343.4	44/39	2.5	**356.1**	**49/45**	**0.7**	363.1	51/48	0.7	370.2	53/52
4	332.4	40/33	2.4	344.4	46/39	2.6	**357.2**	**51/46**	**0.7**	364.2	53/49	0.7	371.4	55/52
2	333.3	41/33	2.4	345.4	46/39	2.6	**358.2**	**51/46**	**0.7**	365.3	53/49	0.7	372.5	55/52
0	334.3	41/34	2.4	346.3	46/40	2.6	**359.3**	**51/46**	**0.7**	366.4	53/49	0.7	373.6	56/53

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 25L

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

STAAV SID ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO STAAV BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

COWBY/PRFUM/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR)BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LAS VEGAS**

A/D Elev **2181ft** **MCCARRAN INTL (KLAS)**

F/L (TWY B) RWY 25R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	1.006% UP
TOR	4423m (14511ft)	**ED**	4315m (14156ft)	**TOD**	4619m (15154ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	260.8	39/30	1.0	266.0	41/36	0.8	**270.2**	**43/42**	**0.2**	272.1	43/43	0.2	273.8	44/44
66	273.1	40/31	1.1	278.7	45/37	1.1	**284.1**	**47/42**	**0.3**	287.0	48/45	0.2	288.9	48/48
62	285.9	42/33	1.2	291.8	47/39	1.1	**297.5**	**50/45**	**0.3**	300.6	51/48	0.3	303.6	52/51
58	297.8	44/35	1.3	304.1	49/41	1.2	**310.0**	**53/47**	**0.3**	313.2	54/50	0.3	316.4	55/53
54	307.4	43/37	1.5	314.9	48/43	1.3	**321.2**	**54/49**	**0.3**	324.6	56/52	0.3	327.9	58/55
52	312.0	44/36	1.6	319.8	49/42	1.3	**326.4**	**54/48**	**0.4**	329.9	57/51	0.3	333.2	60/54
50	316.3	44/37	1.6	324.3	49/43	1.5	**331.6**	**54/49**	**0.4**	335.1	57/52	0.3	338.5	59/55
48	320.9	44/38	1.6	329.1	49/44	1.5	**336.6**	**55/49**	**0.4**	340.2	57/52	0.4	343.8	60/55
46	325.4	45/39	1.7	333.7	50/44	1.6	**341.5**	**55/50**	**0.4**	345.3	58/53	0.4	348.9	61/56
44	329.9	46/39	1.7	338.2	51/45	1.6	**346.4**	**56/51**	**0.4**	350.3	59/54	0.4	354.1	61/57
42	334.1	45/40	1.7	342.6	50/46	1.8	**351.4**	**55/52**	**0.4**	355.4	58/55	0.4	359.4	60/58
40	338.6	46/41	1.7	347.3	51/47	1.8	**356.3**	**56/52**	**0.4**	360.6	59/55	0.4	364.8	61/59
38	343.3	47/42	1.8	352.2	52/47	1.9	**361.6**	**57/53**	**0.5**	366.2	59/56	0.4	370.6	62/59
36	347.7	48/42	1.9	357.2	52/48	1.9	**366.9**	**58/54**	**0.5**	371.9	60/57	0.5	376.6	63/60
34	351.9	46/43	2.0	362.0	51/49	2.0	**371.9**	**56/55**	**0.5**	377.1	59/58	0.5	382.1	61/61
32	355.8	47/44	2.2	366.6	52/50	2.0	**376.8**	**57/55**	**0.5**	382.0	59/58	0.5	387.0	62/62
30	360.3	48/45	2.3	371.6	53/50	2.1	**381.9**	**58/56**	**0.5**	387.1	60/59	0.6	393.1	62/62
28	363.5	48/45	2.3	375.2	53/51	2.1	**385.7**	**58/57**	**0.6**	391.9	61/60	0.6	397.5	63/62
26	366.8	48/46	2.4	378.7	52/51	2.2	**389.9**	**57/57**	**0.6**	396.3	60/60	0.5	401.1	62/63
24	370.2	48/46	2.4	382.1	53/52	2.5	**394.5**	**58/58**	**0.5**	399.9	60/60	0.5	404.9	62/64
22	371.5	48/47	2.4	383.5	53/52	2.5	**396.1**	**58/58**	**0.5**	401.1	60/61	0.5	406.1	63/64
20	372.5	49/47	2.4	384.5	53/53	2.4	**396.7**	**58/58**	**0.5**	401.7	61/61	0.5	406.8	63/64
18	373.4	49/47	2.4	385.3	54/53	2.4	**397.4**	**59/58**	**0.5**	402.4	61/61	0.5	407.3	64/65
16	374.4	49/48	2.3	386.0	54/53	2.4	**398.0**	**59/59**	**0.5**	403.0	61/62	0.5	407.8	64/65
14	375.4	50/48	2.3	386.7	54/54	2.4	**398.6**	**59/59**	**0.5**	403.6	62/62	0.5	408.3	64/65
12	376.4	50/48	2.2	387.5	55/54	2.4	**399.3**	**60/59**	**0.5**	404.2	62/62	0.5	408.8	65/66
10	377.3	50/48	2.2	388.4	55/54	2.3	**399.9**	**60/60**	**0.5**	404.7	63/63	0.5	409.3	65/66
8	378.3	50/49	2.2	389.3	55/54	2.3	**400.6**	**60/60**	**0.5**	405.2	63/63	0.5	409.8	65/67
6	379.4	51/49	2.2	390.2	56/55	2.2	**401.2**	**61/60**	**0.5**	405.8	63/64	0.4	410.2	66/67
4	380.2	53/49	2.2	391.2	58/55	2.1	**401.8**	**63/61**	**0.5**	406.3	65/64	0.4	410.7	68/67
2	380.9	53/50	2.2	392.1	58/55	2.1	**402.4**	**63/61**	**0.5**	406.9	66/64	0.4	411.2	68/68
0	381.7	53/50	2.3	393.0	58/56	2.0	**402.9**	**64/62**	**0.5**	407.4	66/65	0.4	411.7	69/68

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 25R

HOOVER/LAS VEGAS/MCCARRAN SIDS THESE ARE RADAR VECTOR SIDS SO TERRAIN CLEARANCE NOT ASSESSED. ENSURE SSAS CAN BE ACHIEVED BEFORE ACCEPTING RADAR HEADINGS.

STAAV SID ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO STAAV BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

COWBY/PRFUM/TRALR SIDS ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR)BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH/SHEAD SIDS ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400** LANDING DATA **LOS ANGELES (KLAX)**

A/D Elev **126ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	06L	06R	07L	07R
Landing Distance Available	2611m / 8566ft	2971m / 9747ft	3431m / 11257ft	3382m / 11096ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	282.0 (263.0)	6kt (1kt)	15kt (8kt)	14kt (8kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	210.0	240.0	275.0	279.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8	6kt (1kt)	15kt (8kt)	14kt (8kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	233.0	265.0	280.8	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **LOS ANGELES (KLAX)**

A/D Elev **126ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY (STATUS) Landing Distance Available Notes	**24L** 2890m / 9482ft Note 1	**24R** 2720m/8925ft Note 1	**25L** 3382m/11096ft Note 1	**25R** 3302m / 10833ft Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°/54°	54°
25F Zero HW wt or TW (Manual)	5kt (283.0)	2kt (275.0)	14kt (8kt)	12kt (5kt)
25F Zero HW wt or TW (Autoland)		2kt (275.0)	14kt (8kt)	
25F Slippery Zero HW wt or TW (Manual)	233.0	224.0	279.0	270.0
25F Slippery Zero HW wt or TW (Autoland)		224.0	279.0	
30F Zero HW wt or TW (Manual)	5kt (280.8)	2kt (280.8)	14kt (8kt)	12kt (5kt)
30F Zero HW wt or TW (Autoland)		2kt (280.8)	14kt (8kt)	
30F Slippery Zero HW wt or TW (Manual)	258.0	247.0	280.8	280.8
30F Slippery Zero HW wt or TW (Autoland)		247.0	280.8	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH WEST clockwise through NORTH of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY BB (F/L) RWY 06L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.056% UP
TOR	2720m (8923ft)	**ED**	2611m (8566ft)	**TOD**	2720m (8923ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	239.7	21/11	1.5	247.3	26/14	1.5	**254.7**	**32/21**	**0.4**	259.0	35/24	0.4	263.3	37/27
66	249.4	22/11	1.6	257.2	28/15	1.6	**265.0**	**34/22**	**0.5**	269.5	37/25	0.5	274.2	39/28
62	259.8	25/12	1.6	267.9	30/18	1.7	**276.2**	**36/24**	**0.5**	281.0	39/27	0.5	286.0	42/30
58	269.5	26/14	1.7	278.2	31/20	1.7	**286.9**	**37/26**	**0.5**	292.0	40/29	0.5	297.2	42/33
54	277.5	27/15	1.9	287.1	32/21	1.8	**296.3**	**38/28**	**0.5**	301.5	40/31	0.5	306.9	43/34
52	281.5	27/14	1.9	291.2	33/20	1.9	**300.6**	**38/27**	**0.5**	305.8	41/30	0.6	311.4	44/33
50	284.8	27/15	2.0	294.6	32/21	2.0	**304.8**	**38/27**	**0.6**	310.3	40/31	0.6	315.9	43/34
48	288.7	28/16	2.0	298.7	33/22	2.1	**309.1**	**38/28**	**0.6**	314.7	41/31	0.6	320.4	44/35
46	292.6	28/17	2.0	302.6	34/22	2.1	**313.2**	**39/29**	**0.6**	318.9	42/32	0.6	324.8	44/36
44	296.3	29/17	2.0	306.5	34/23	2.1	**317.2**	**40/30**	**0.6**	323.0	43/33	0.6	329.1	45/36
42	299.4	28/18	2.1	309.9	34/24	2.2	**321.0**	**39/30**	**0.6**	326.9	42/34	0.6	333.1	44/37
40	303.3	29/19	2.1	314.0	34/25	2.2	**325.2**	**40/31**	**0.6**	331.2	42/35	0.6	337.4	45/38
38	307.4	30/19	2.2	318.3	35/25	2.3	**329.6**	**41/32**	**0.6**	335.6	43/35	0.6	341.9	46/39
36	306.2	31/20	3.3	322.5	36/26	2.3	**334.0**	**41/33**	**0.6**	340.1	44/36	0.6	346.4	47/39
34	305.2	30/21	4.3	326.6	35/27	2.3	**338.1**	**41/33**	**0.6**	344.3	43/37	0.6	350.7	46/40
32	305.1	30/22	5.1	330.4	36/27	2.3	**342.0**	**41/34**	**0.6**	348.2	44/37	0.7	354.8	46/41
30	304.2	31/24	6.1	334.5	36/28	2.3	**346.2**	**42/35**	**0.6**	352.6	44/38	0.7	359.3	47/42
28	307.0	32/24	5.7	335.6	37/28	2.4	**347.4**	**42/35**	**0.6**	353.8	45/38	0.7	360.6	47/42
26	310.0	32/24	5.3	336.4	37/29	2.4	**348.2**	**43/35**	**0.6**	354.6	45/39	0.7	361.4	48/42
24	313.2	32/24	4.8	337.2	37/29	2.4	**349.0**	**43/36**	**0.6**	355.3	45/39	0.7	362.2	48/42
22	316.4	32/24	4.3	337.9	38/29	2.4	**349.7**	**43/36**	**0.6**	356.1	46/39	0.7	363.0	48/43
20	327.3	33/23	2.3	338.7	38/29	2.4	**350.5**	**43/36**	**0.6**	356.9	46/39	0.7	363.8	49/43
18	328.2	33/23	2.3	339.5	38/30	2.4	**351.3**	**44/36**	**0.6**	357.7	46/40	0.7	364.6	49/43
16	329.0	33/24	2.3	340.3	38/30	2.4	**352.1**	**44/37**	**0.6**	358.5	47/40	0.7	365.5	49/44
14	329.8	33/24	2.3	341.1	39/30	2.4	**352.9**	**44/37**	**0.7**	359.4	47/40	0.7	366.3	50/44
12	330.6	34/24	2.2	341.8	39/30	2.4	**353.7**	**45/37**	**0.7**	360.2	47/41	0.7	367.2	50/44
10	331.3	34/24	2.3	342.6	39/31	2.4	**354.5**	**45/37**	**0.7**	361.0	48/41	0.7	368.0	50/44
8	332.1	34/25	2.3	343.4	40/31	2.4	**355.3**	**45/38**	**0.7**	361.9	48/41	0.7	368.9	51/45
6	332.9	35/25	2.3	344.2	40/31	2.4	**356.2**	**46/38**	**0.7**	362.7	48/42	0.7	369.8	51/45
4	333.7	35/25	2.3	345.0	40/32	2.4	**357.0**	**46/38**	**0.7**	363.6	49/42	0.7	370.7	51/45
2	334.5	35/25	2.3	345.9	41/32	2.4	**357.9**	**46/39**	**0.7**	364.5	49/42	0.7	371.6	52/46
0	335.3	35/26	2.3	346.7	41/32	2.4	**358.7**	**47/39**	**0.7**	365.4	49/42	0.7	372.5	52/46

P/C above 1013 + 0.2
P/C below 1013 - 1.2

PERFORMANCE RESTRICTIONS - Rwy 06L

ALL SIDS ENGINE FAILURE BEFORE INITIAL SID TURN - CLIMB AHEAD TO LAX 8D THEN TURN RIGHT TO HDG 250M. CONTACT ATC FOR INSTRUCTION.

ENGINE FAILURE AFTER INITIAL SID TURN - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY DD (F/L) RWY 06R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.029% UP
TOR	3135m (10285ft)	**ED**	3135m (10285ft)	**TOD**	3135m (10285ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.1	30/19	1.6	267.1	35/24	1.5	**274.8**	**41/30**	**0.5**	279.5	43/33	0.5	284.1	45/37
66	268.7	32/20	1.7	277.2	37/26	1.7	**285.5**	**43/32**	**0.5**	290.4	45/35	0.5	295.3	47/38
62	279.6	34/22	1.8	288.6	40/28	1.7	**297.2**	**45/34**	**0.5**	302.4	48/37	0.5	307.5	50/40
58	290.0	35/24	1.9	299.4	40/30	1.8	**308.4**	**46/36**	**0.5**	313.7	48/39	0.5	319.1	50/43
54	298.3	36/26	2.0	308.4	41/32	1.9	**317.9**	**46/38**	**0.6**	323.4	49/41	0.6	329.1	51/45
52	302.3	36/25	2.1	312.6	42/31	1.9	**322.3**	**47/37**	**0.6**	327.9	50/40	0.6	333.5	52/44
50	305.8	36/26	2.1	316.3	41/32	2.1	**326.9**	**46/38**	**0.6**	332.5	49/41	0.6	338.1	51/44
48	309.9	37/27	2.1	320.5	42/33	2.2	**331.3**	**47/39**	**0.6**	336.9	50/42	0.6	342.6	52/45
46	313.8	37/27	2.2	324.6	43/33	2.2	**335.5**	**48/40**	**0.6**	341.2	50/43	0.6	346.9	53/46
44	317.7	38/28	2.2	328.7	44/34	2.2	**339.6**	**49/40**	**0.6**	345.3	51/43	0.6	351.2	53/47
42	321.2	37/29	2.3	332.5	43/35	2.3	**343.8**	**48/41**	**0.6**	349.7	50/44	0.6	355.7	52/48
40	325.3	38/30	2.3	336.6	43/36	2.3	**348.2**	**49/42**	**0.6**	354.2	51/45	0.6	360.3	53/49
38	329.5	39/30	2.3	340.9	44/36	2.4	**352.7**	**49/43**	**0.6**	358.8	52/46	0.6	365.1	54/49
36	333.7	40/31	2.3	345.1	45/37	2.4	**357.3**	**50/43**	**0.6**	363.6	52/47	0.7	370.1	55/50
34	337.6	39/32	2.3	349.2	44/38	2.5	**361.7**	**49/44**	**0.6**	368.1	52/47	0.7	374.8	54/51
32	341.4	40/33	2.3	353.1	45/39	2.6	**365.9**	**50/45**	**0.7**	372.5	52/48	0.7	379.3	55/52
30	345.4	40/33	2.4	357.4	46/39	2.6	**370.5**	**51/46**	**0.7**	377.3	53/49	0.7	384.1	55/52
28	346.7	41/34	2.4	358.7	46/40	2.6	**371.9**	**51/46**	**0.7**	378.8	54/49	0.7	385.6	56/53
26	347.5	41/34	2.4	359.6	46/40	2.7	**372.9**	**51/46**	**0.7**	379.7	54/50	0.7	386.5	56/53
24	348.4	41/34	2.4	360.5	47/40	2.7	**373.8**	**52/47**	**0.7**	380.6	54/50	0.7	387.7	56/53
22	349.3	42/34	2.4	361.4	47/40	2.7	**374.7**	**52/47**	**0.7**	381.5	54/50	0.8	389.1	57/53
20	350.2	42/35	2.4	362.4	47/41	2.7	**375.7**	**52/47**	**0.7**	382.5	55/50	0.8	390.6	57/54
18	351.1	42/35	2.4	363.3	47/41	2.7	**376.6**	**53/47**	**0.7**	383.4	55/51	0.9	392.0	57/54
16	352.0	42/35	2.5	364.3	48/41	2.7	**377.6**	**53/48**	**0.7**	384.4	55/51	0.9	393.5	57/54
14	352.9	43/35	2.5	365.2	48/42	2.7	**378.6**	**53/48**	**0.7**	385.3	56/51	1.0	395.0	57/54
12	353.8	43/36	2.5	366.2	48/42	2.7	**379.6**	**54/48**	**0.7**	386.3	56/51	1.0	396.2	58/54
10	354.7	43/36	2.5	367.2	49/42	2.7	**380.5**	**54/48**	**0.7**	387.5	56/52	1.0	397.2	58/55
8	355.7	44/36	2.5	368.2	49/42	2.7	**381.5**	**54/49**	**0.8**	389.0	56/52	0.9	398.1	58/55
6	356.7	44/36	2.5	369.2	49/43	2.7	**382.5**	**54/49**	**0.8**	390.5	57/52	0.9	399.1	59/55
4	357.6	44/37	2.5	370.2	50/43	2.7	**383.5**	**55/49**	**0.9**	392.1	57/52	0.8	400.0	59/56
2	358.6	44/37	2.5	371.3	50/43	2.6	**384.5**	**55/50**	**0.9**	393.6	57/53	0.7	401.0	59/56
0	359.6	45/37	2.5	372.3	50/43	2.6	**385.5**	**55/50**	**1.0**	395.1	57/53	0.7	402.0	59/56

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 06R

ALL SIDS ENGINE FAILURE BEFORE INITIAL SID TURN - CLIMB AHEAD TO LAX 8D THEN TURN RIGHT TO HDG 250M. CONTACT ATC FOR INSTRUCTION.

ENGINE FAILURE AFTER INITIAL SID TURN - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

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BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY B17 (F/L) RWY 07L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.19% DN
TOR	3685m (12089ft)	**ED**	3685m (12089ft)	**TOD**	3685m (12089ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	278.0	37/28	1.6	286.0	42/34	1.5	**293.7**	**47/39**	**0.4**	297.8	50/42	0.0	297.8	50/46
66	288.7	39/29	1.7	297.2	44/35	1.6	**305.3**	**50/40**	**0.5**	310.0	52/43	0.4	314.3	54/46
62	300.6	42/32	1.8	309.5	47/37	1.7	**317.9**	**52/43**	**0.5**	322.9	55/46	0.5	327.9	57/49
58	311.7	42/34	1.9	321.0	47/40	1.8	**330.0**	**52/45**	**0.5**	335.0	55/48	0.5	340.1	57/51
54	320.9	43/36	2.0	331.0	48/42	1.8	**340.0**	**53/47**	**0.5**	345.2	55/50	0.5	350.5	58/53
52	325.3	44/35	2.0	335.4	49/41	1.8	**344.5**	**54/46**	**0.5**	349.9	56/49	0.5	355.3	58/52
50	329.2	43/36	2.1	339.5	48/42	2.0	**349.3**	**53/47**	**0.5**	354.7	56/50	0.6	360.3	58/53
48	333.5	44/36	2.1	343.9	49/42	2.0	**353.9**	**54/48**	**0.6**	359.5	57/51	0.6	365.3	59/54
46	337.7	45/37	2.1	348.2	50/43	2.1	**358.5**	**55/49**	**0.6**	364.3	57/52	0.6	370.3	60/55
44	341.8	46/38	2.1	352.5	51/44	2.1	**363.1**	**56/50**	**0.6**	369.1	58/53	0.6	375.1	60/56
42	345.8	45/39	2.2	356.9	49/45	2.2	**367.9**	**55/50**	**0.6**	374.0	57/53	0.6	380.3	59/57
40	350.2	45/39	2.3	361.5	50/46	2.3	**372.8**	**55/51**	**0.6**	379.1	58/54	0.6	385.3	60/57
38	354.7	46/40	2.3	366.3	51/46	2.3	**377.9**	**56/52**	**0.6**	384.2	58/55	0.8	392.2	60/58
36	359.2	47/41	2.4	371.2	52/47	2.4	**383.1**	**57/53**	**0.8**	390.6	59/56	0.8	398.6	61/58
34	363.7	46/42	2.4	375.9	51/48	2.5	**388.5**	**56/54**	**0.9**	397.3	58/56	0.6	403.4	60/59
32	368.0	47/42	2.5	380.3	52/49	3.0	**395.4**	**56/54**	**0.6**	401.7	59/57	0.6	408.0	61/60
30	372.6	48/43	2.5	385.1	53/49	3.1	**400.4**	**57/54**	**0.6**	406.6	59/57	0.6	412.9	62/61
28	374.1	48/44	2.5	386.6	53/50	3.0	**401.8**	**58/55**	**0.6**	408.0	60/58	0.6	414.4	62/61
26	375.0	48/44	2.6	387.9	53/50	3.0	**402.7**	**58/55**	**0.6**	409.0	60/58	0.6	415.3	62/61
24	376.0	49/44	2.7	389.4	53/50	2.8	**403.6**	**58/55**	**0.6**	409.9	60/58	0.6	416.2	62/62
22	376.9	49/44	2.8	390.9	54/50	2.7	**404.5**	**58/56**	**0.6**	410.8	61/59	0.6	417.1	63/62
20	377.9	49/45	2.9	392.4	54/50	2.6	**405.4**	**59/56**	**0.6**	411.7	61/59	0.6	418.1	63/62
18	378.9	49/45	3.0	394.0	54/51	2.5	**406.3**	**59/56**	**0.6**	412.6	61/59	0.6	419.0	63/62
16	379.9	50/45	3.1	395.5	54/51	2.4	**407.3**	**59/56**	**0.6**	413.6	62/60	0.6	420.0	64/63
14	380.9	50/45	3.2	396.7	54/51	2.3	**408.2**	**60/57**	**0.6**	414.5	62/60	0.6	420.9	64/63
12	381.9	50/46	3.1	397.6	55/51	2.3	**409.2**	**60/57**	**0.6**	415.5	62/60	0.6	421.9	64/63
10	382.9	51/46	3.1	398.6	55/51	2.3	**410.2**	**60/57**	**0.6**	416.5	63/60	0.6	422.8	65/64
8	383.9	51/46	3.1	399.6	55/52	2.3	**411.1**	**61/58**	**0.6**	417.4	63/61	0.6	423.8	65/64
6	385.0	51/47	3.1	400.6	55/52	2.3	**412.1**	**61/58**	**0.6**	418.4	63/61	0.6	424.8	65/64
4	386.0	51/47	3.1	401.6	56/52	2.3	**413.1**	**61/58**	**0.6**	419.4	63/61	0.6	425.8	66/65
2	387.2	52/47	3.1	402.6	56/53	2.3	**414.1**	**62/59**	**0.6**	420.5	64/62	0.6	426.8	66/65
0	388.8	52/47	3.0	403.6	56/53	2.3	**415.1**	**62/59**	**0.6**	421.4	64/62	0.6	427.8	66/65

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 07L

ALL SIDS ENGINE FAILURE BEFORE INITIAL SID TURN - CLIMB AHEAD TO LAX 8D THEN TURN RIGHT TO HDG 250M. CONTACT ATC FOR INSTRUCTION.

ENGINE FAILURE AFTER INITIAL SID TURN - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

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BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY U (F/L) RWY 07R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.207% DN
TOR	3382m (11095ft)	**ED**	3382m (11095ft)	**TOD**	3382m (11095ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	273.9	32/22	1.8	283.1	37/28	1.8	**291.9**	**42/33**	**0.5**	297.1	44/36	0.1	297.8	47/40
66	283.5	35/24	1.9	293.1	39/29	1.8	**302.2**	**45/35**	**0.5**	307.5	47/38	0.6	313.3	49/41
62	294.6	37/26	2.0	304.6	42/32	1.9	**313.9**	**47/37**	**0.6**	319.6	50/40	0.6	325.6	52/43
58	304.1	38/28	2.1	314.7	43/34	2.1	**325.2**	**47/40**	**0.6**	331.1	50/43	0.6	337.0	52/46
54	312.3	39/30	2.2	323.2	43/36	2.3	**334.5**	**48/42**	**0.6**	340.5	50/45	0.6	346.6	53/48
52	316.4	39/29	2.2	327.5	44/35	2.3	**338.8**	**49/41**	**0.6**	344.7	51/44	0.6	351.0	53/47
50	320.0	39/30	2.3	331.3	44/36	2.3	**342.8**	**49/42**	**0.6**	349.0	51/45	0.6	355.4	53/48
48	324.1	40/31	2.3	335.4	45/37	2.3	**347.0**	**50/42**	**0.6**	353.4	52/45	0.7	359.9	54/49
46	328.2	41/32	2.3	339.5	45/37	2.4	**351.3**	**50/43**	**0.6**	357.7	53/46	0.7	364.4	55/49
44	332.1	41/32	2.3	343.4	46/38	2.4	**355.4**	**51/44**	**0.7**	362.0	53/47	0.7	368.9	56/50
42	335.7	40/33	2.3	347.4	45/39	2.5	**359.8**	**50/45**	**0.7**	366.6	52/48	0.7	373.6	54/51
40	339.9	41/34	2.3	351.6	46/40	2.5	**364.2**	**51/46**	**0.7**	371.3	53/49	0.7	378.5	55/52
38	344.0	42/35	2.4	355.9	47/41	2.6	**368.9**	**52/47**	**0.7**	376.0	54/50	0.7	383.3	56/53
36	348.2	43/36	2.4	360.4	48/41	2.7	**373.7**	**53/47**	**0.7**	381.0	55/50	0.8	389.2	57/53
34	352.3	42/36	2.5	364.8	47/42	2.7	**378.3**	**52/48**	**0.7**	385.5	54/51	1.1	396.6	56/54
32	356.2	43/37	2.5	368.9	48/43	2.7	**382.5**	**53/49**	**0.9**	391.9	54/52	0.9	400.8	56/54
30	360.5	43/38	2.6	373.5	48/44	2.8	**387.5**	**53/50**	**1.1**	398.3	55/52	0.7	405.4	57/55
28	361.9	44/38	2.6	375.0	49/44	3.0	**390.1**	**54/50**	**1.0**	399.8	55/52	0.7	406.9	57/56
26	362.8	44/38	2.6	376.0	49/44	3.2	**391.9**	**54/50**	**0.9**	400.8	55/52	0.7	407.9	58/56
24	363.8	44/39	2.7	377.1	49/44	3.3	**393.8**	**54/50**	**0.8**	401.8	56/53	0.7	409.0	58/56
22	364.8	45/39	2.7	378.1	50/45	3.5	**395.6**	**54/50**	**0.7**	402.8	56/53	0.7	410.1	58/56
20	365.8	45/39	2.7	379.2	50/45	3.5	**396.8**	**54/50**	**0.7**	403.9	56/53	0.7	411.1	58/57
18	366.8	45/39	2.7	380.3	50/45	3.5	**397.9**	**54/51**	**0.7**	405.0	57/54	0.7	412.2	59/57
16	367.9	45/40	2.7	381.4	50/45	3.5	**398.9**	**55/51**	**0.7**	406.0	57/54	0.7	413.3	59/57
14	368.9	46/40	2.7	382.4	51/46	3.5	**400.0**	**55/51**	**0.7**	407.1	57/54	0.7	414.4	59/57
12	370.0	46/40	2.7	383.5	51/46	3.5	**401.1**	**55/51**	**0.7**	408.3	57/54	0.7	415.5	60/58
10	371.1	46/40	2.7	384.7	51/46	3.5	**402.2**	**55/52**	**0.7**	409.4	58/55	0.7	416.6	60/58
8	372.2	46/41	2.7	385.8	51/47	3.5	**403.3**	**56/52**	**0.7**	410.5	58/55	0.7	417.8	60/58
6	373.3	47/41	2.7	387.0	52/47	3.5	**404.4**	**56/52**	**0.7**	411.6	58/55	0.7	419.0	60/59
4	374.4	47/41	2.9	388.9	52/47	3.3	**405.5**	**56/52**	**0.7**	412.8	58/55	0.7	420.2	61/59
2	375.5	47/41	3.1	390.9	52/47	3.2	**406.7**	**57/53**	**0.7**	413.9	59/56	0.7	421.3	61/59
0	376.7	48/42	3.3	393.0	52/47	3.0	**407.8**	**57/53**	**0.7**	415.1	59/56	0.7	422.5	61/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 07R

ALL SIDS ENGINE FAILURE BEFORE INITIAL SID TURN - CLIMB AHEAD TO LAX 8D THEN TURN RIGHT TO HDG 250M. CONTACT ATC FOR INSTRUCTION.

ENGINE FAILURE AFTER INITIAL SID TURN - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY E6 (F/L) RWY 24L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.01% DN
TOR	3135m (10285ft)	**ED**	3135m (10285ft)	**TOD**	3135m (10285ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.2	30/19	1.6	267.1	35/24	1.5	**274.8**	**41/30**	**0.5**	279.4	43/33	0.5	284.1	45/37
66	268.8	32/20	1.7	277.3	37/26	1.6	**285.5**	**43/32**	**0.5**	290.4	45/35	0.5	295.2	47/38
62	279.7	34/22	1.8	288.7	40/28	1.7	**297.3**	**45/34**	**0.5**	302.4	48/37	0.5	307.5	50/40
58	290.1	35/24	1.9	299.5	40/30	1.8	**308.4**	**46/36**	**0.5**	313.7	48/39	0.5	319.1	50/43
54	298.5	36/26	2.0	308.6	41/32	1.9	**318.0**	**46/38**	**0.6**	323.5	49/41	0.6	329.1	51/45
52	302.5	37/25	2.1	312.8	42/31	1.9	**322.4**	**47/37**	**0.6**	328.0	50/40	0.6	333.6	52/44
50	306.0	36/26	2.1	316.5	41/32	2.1	**327.0**	**47/38**	**0.6**	332.6	49/41	0.6	338.2	51/45
48	310.1	37/27	2.1	320.7	42/33	2.1	**331.4**	**47/39**	**0.6**	337.0	50/42	0.6	342.6	52/45
46	314.1	38/27	2.1	324.8	43/33	2.2	**335.6**	**48/40**	**0.6**	341.3	50/43	0.6	347.0	53/46
44	318.0	38/28	2.2	328.9	44/34	2.2	**339.8**	**49/40**	**0.6**	345.5	51/44	0.6	351.3	54/47
42	321.6	38/29	2.2	332.7	43/35	2.3	**344.0**	**48/41**	**0.6**	349.9	50/44	0.6	355.8	52/48
40	325.7	38/30	2.2	336.9	44/36	2.3	**348.3**	**49/42**	**0.6**	354.3	51/45	0.6	360.4	53/49
38	330.0	39/31	2.2	341.2	44/36	2.3	**352.8**	**49/43**	**0.6**	358.9	52/46	0.6	365.3	54/49
36	334.2	40/31	2.3	345.5	45/37	2.4	**357.5**	**50/43**	**0.6**	363.7	53/47	0.7	370.2	55/50
34	338.2	39/32	2.3	349.6	44/38	2.5	**361.9**	**49/44**	**0.6**	368.3	52/48	0.7	375.0	54/51
32	342.0	40/33	2.3	353.5	45/39	2.5	**366.1**	**50/45**	**0.7**	372.7	53/48	0.7	379.5	55/52
30	346.1	40/33	2.4	357.9	46/39	2.6	**370.8**	**51/46**	**0.7**	377.5	53/49	0.7	384.3	56/52
28	347.3	41/34	2.4	359.2	46/40	2.6	**372.2**	**51/46**	**0.7**	379.0	54/49	0.7	385.7	56/53
26	348.2	41/34	2.4	360.1	46/40	2.6	**373.1**	**52/46**	**0.7**	379.9	54/50	0.7	386.7	56/53
24	349.0	41/34	2.4	361.0	47/40	2.6	**374.0**	**52/47**	**0.7**	380.8	54/50	0.7	388.0	56/53
22	349.9	42/34	2.4	361.9	47/40	2.6	**375.0**	**52/47**	**0.7**	381.7	55/50	0.8	389.4	57/53
20	350.7	42/35	2.4	362.8	47/41	2.6	**375.9**	**52/47**	**0.7**	382.6	55/50	0.8	390.8	57/54
18	351.6	42/35	2.4	363.7	47/41	2.6	**376.8**	**53/47**	**0.7**	383.6	55/51	0.9	392.2	57/54
16	352.5	42/35	2.4	364.6	48/41	2.6	**377.8**	**53/48**	**0.7**	384.5	55/51	0.9	393.7	57/54
14	353.4	43/35	2.4	365.6	48/42	2.6	**378.8**	**53/48**	**0.7**	385.5	56/51	1.0	395.1	57/54
12	354.3	43/36	2.4	366.5	48/42	2.7	**379.8**	**54/48**	**0.7**	386.5	56/52	1.0	396.3	58/54
10	355.2	43/36	2.5	367.5	49/42	2.6	**380.7**	**54/49**	**0.7**	387.7	56/52	1.0	397.2	58/55
8	356.1	44/36	2.5	368.5	49/42	2.6	**381.7**	**54/49**	**0.8**	389.2	56/52	0.9	398.2	58/55
6	357.0	44/37	2.5	369.5	49/43	2.6	**382.7**	**55/49**	**0.8**	390.7	57/52	0.8	399.1	59/55
4	358.0	44/37	2.5	370.5	50/43	2.6	**383.7**	**55/49**	**0.9**	392.2	57/52	0.8	400.1	59/56
2	359.0	45/37	2.5	371.5	50/43	2.6	**384.7**	**55/50**	**0.9**	393.7	57/53	0.7	401.1	59/56
0	359.9	45/37	2.5	372.5	50/44	2.6	**385.7**	**56/50**	**1.0**	395.2	57/53	0.7	402.0	60/56

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 24L

NORTHERLY SIDS - ALL ENGINES

OSHNN SID is not authorised for any type due climb gradient restrictions. VENTURA SID AT HEAVY WTS THIS SID IS PREFERENTIAL FOR NOISE ABATEMENT AND TERRAIN CLEARANCE.

FIXIT/MUELR/GORMAN/DARRK SIDS CLIMB AHEAD FOR 8NM OR UNTIL IT IS KNOWN THE COAST CAN BE CROSSED HEADING NORTH AT 5000FT QNH OR ABOVE AND SSA ACHIEVED.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ENGINE FAILURE RESTRICTIONS

NORTHERLY DEPARTURES ENGINE FAILURE BEFORE 5000FT - TURN ONTO HEADING NOT GREATER THAN 270M. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE HIGH GROUND/SSA TO THE NORTH/NORTH EAST AND NORTH WEST.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY V (F/L) RWY 24R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.056% DN
TOR	2720m (8923ft)	**ED**	2720m (8923ft)	**TOD**	2720m (8923ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	246.7	22/11	1.8	255.6	28/16	1.7	**264.0**	**33/22**	**0.5**	269.1	36/25	0.5	274.3	38/28
66	255.2	24/12	1.8	264.2	30/17	1.8	**273.0**	**36/24**	**0.5**	278.4	38/27	0.6	283.9	40/30
62	264.8	27/14	1.9	274.3	32/20	1.8	**283.5**	**38/26**	**0.6**	289.3	41/29	0.6	294.9	43/32
58	274.0	28/16	2.0	284.0	33/22	1.9	**293.7**	**39/28**	**0.6**	299.6	41/31	0.6	305.5	44/34
54	281.5	29/18	2.1	291.9	34/24	2.1	**302.3**	**40/30**	**0.6**	308.4	42/33	0.6	314.5	44/36
52	285.2	30/17	2.1	295.7	35/23	2.1	**306.2**	**40/29**	**0.6**	312.4	43/32	0.6	318.6	45/35
50	288.3	29/18	2.1	298.9	34/24	2.3	**310.5**	**40/30**	**0.6**	316.7	42/33	0.6	323.0	45/36
48	291.9	30/19	2.2	302.7	35/24	2.3	**314.4**	**41/31**	**0.6**	320.8	43/34	0.6	327.1	45/37
46	295.5	31/19	2.2	306.5	36/25	2.4	**318.4**	**41/31**	**0.6**	324.8	44/35	0.6	331.2	46/38
44	299.1	31/20	2.2	310.2	37/26	2.4	**322.2**	**42/32**	**0.7**	328.7	45/35	0.6	335.0	47/39
42	301.9	31/21	2.3	313.3	36/27	2.5	**325.8**	**41/33**	**0.7**	332.4	44/36	0.7	339.1	46/39
40	305.7	32/21	2.3	317.3	37/27	2.5	**329.9**	**42/34**	**0.7**	336.5	45/37	0.7	343.2	47/40
38	309.6	32/22	2.4	321.4	38/28	2.5	**333.9**	**43/34**	**0.7**	340.6	45/38	0.7	347.4	48/41
36	313.6	33/23	2.4	325.4	39/29	2.5	**338.1**	**44/35**	**0.7**	344.8	46/38	0.7	351.7	49/42
34	317.3	32/23	2.4	329.4	38/30	2.5	**342.0**	**43/36**	**0.7**	348.8	45/39	0.7	355.8	48/43
32	320.9	33/24	2.4	332.9	38/30	2.5	**345.6**	**44/37**	**0.7**	352.5	46/40	0.7	359.7	49/43
30	324.8	34/25	2.4	336.9	39/31	2.6	**349.8**	**45/37**	**0.7**	356.7	47/41	0.7	364.1	49/44
28	326.0	34/25	2.4	338.1	40/31	2.6	**351.1**	**45/38**	**0.7**	358.1	47/41	0.7	365.5	50/44
26	326.9	35/25	2.4	339.0	40/31	2.6	**352.0**	**45/38**	**0.7**	359.1	48/41	0.7	366.5	50/45
24	327.8	35/26	2.4	340.0	40/32	2.6	**352.9**	**45/38**	**0.7**	360.0	48/42	0.8	367.5	50/45
22	328.7	35/26	2.4	340.8	40/32	2.6	**353.8**	**46/38**	**0.7**	361.0	48/42	0.8	368.5	50/45
20	329.6	35/26	2.4	341.7	41/32	2.6	**354.8**	**46/39**	**0.7**	362.0	48/42	0.8	369.5	51/45
18	330.5	36/26	2.4	342.6	41/32	2.6	**355.7**	**46/39**	**0.7**	363.0	49/42	0.8	370.6	51/46
16	331.4	36/27	2.4	343.5	41/33	2.6	**356.7**	**46/39**	**0.7**	364.0	49/43	0.8	371.6	51/46
14	332.3	36/27	2.4	344.5	41/33	2.6	**357.7**	**47/40**	**0.7**	365.0	49/43	0.8	372.7	52/46
12	333.2	36/27	2.4	345.4	42/33	2.7	**358.7**	**47/40**	**0.7**	366.1	49/43	0.8	373.8	52/47
10	334.1	37/27	2.5	346.4	42/33	2.7	**359.7**	**47/40**	**0.7**	367.1	50/43	0.8	374.9	52/47
8	335.0	37/28	2.5	347.3	42/34	2.7	**360.8**	**48/40**	**0.7**	368.2	50/44	0.8	376.0	52/47
6	336.0	37/28	2.5	348.3	43/34	2.7	**361.8**	**48/41**	**0.8**	369.3	50/44	0.8	377.1	53/47
4	337.0	37/28	2.5	349.3	43/34	2.7	**362.9**	**48/41**	**0.8**	370.4	51/44	0.8	378.3	53/48
2	337.9	38/28	2.5	350.3	43/35	2.7	**363.9**	**48/41**	**0.8**	371.5	51/44	0.8	379.4	53/48
0	338.9	38/29	2.5	351.4	43/35	2.7	**365.0**	**49/41**	**0.8**	372.6	51/45	0.8	380.6	54/48

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 24R

NORTHERLY SIDS - ALL ENGINES

OSHNN SID is not authorised for any type due climb gradient restrictions.

VENTURA SID AT HEAVY WTS THIS SID IS PREFERENTIAL FOR NOISE ABATEMENT AND TERRAIN CLEARANCE.

FIXIT/MUELR/GORMAN/DARRK SIDS CLIMB AHEAD FOR 8NM OR UNTIL IT IS KNOWN THE COAST CAN BE CROSSED HEADING NORTH AT 5000FT QNH OR ABOVE AND SSA ACHIEVED.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ENGINE FAILURE RESTRICTIONS

NORTHERLY DEPARTURES ENGINE FAILURE BEFORE 5000FT - TURN ONTO HEADING NOT GREATER THAN 270M. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE HIGH GROUND/SSA TO THE NORTH/NORTH EAST AND NORTH WEST.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

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BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY F (F/L) RWY 25L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.207% UP
TOR	3382m (11095ft)	**ED**	3382m (11095ft)	**TOD**	3382m (11095ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.2	32/22	1.8	280.3	37/27	1.7	**289.0**	**42/33**	**0.5**	293.8	44/36	0.4	297.5	47/39
66	280.7	34/23	1.9	290.2	39/29	1.8	**299.2**	**44/34**	**0.5**	304.6	46/37	0.6	310.4	49/40
62	291.6	37/26	2.0	301.5	42/31	1.9	**310.9**	**47/37**	**0.6**	316.5	49/40	0.6	322.5	51/43
58	301.1	37/28	2.1	311.6	42/34	2.1	**322.0**	**47/39**	**0.6**	327.9	49/42	0.6	333.9	51/45
54	309.2	38/30	2.2	320.1	43/36	2.3	**331.5**	**48/41**	**0.6**	337.3	50/44	0.6	343.4	52/47
52	313.2	39/29	2.2	324.3	44/35	2.3	**335.7**	**49/40**	**0.6**	341.6	51/43	0.6	347.8	53/47
50	316.7	39/30	2.3	328.0	44/36	2.3	**339.6**	**48/41**	**0.6**	345.8	51/44	0.6	352.2	53/47
48	320.9	39/31	2.2	332.1	44/36	2.3	**343.8**	**49/42**	**0.6**	350.2	52/45	0.6	356.6	54/48
46	324.8	40/31	2.3	336.1	45/37	2.4	**347.9**	**50/43**	**0.7**	354.4	52/46	0.7	361.1	55/49
44	328.8	41/32	2.3	340.1	46/38	2.4	**352.0**	**51/44**	**0.7**	358.6	53/47	0.7	365.4	55/50
42	332.4	40/33	2.3	344.0	45/39	2.5	**356.3**	**50/45**	**0.7**	363.1	52/48	0.7	370.1	54/51
40	336.4	41/34	2.4	348.2	46/39	2.5	**360.7**	**51/45**	**0.7**	367.7	53/48	0.7	374.8	55/52
38	340.6	42/34	2.4	352.4	47/40	2.6	**365.2**	**52/46**	**0.7**	372.4	54/49	0.7	379.6	56/53
36	344.7	43/35	2.4	356.8	48/41	2.6	**370.0**	**52/47**	**0.7**	377.2	55/50	0.7	384.5	57/53
34	348.8	42/36	2.5	361.1	47/42	2.7	**374.4**	**52/48**	**0.7**	381.8	54/51	0.9	390.7	56/54
32	352.6	42/37	2.5	365.1	47/43	2.7	**378.7**	**52/49**	**0.7**	386.1	55/52	1.1	397.2	56/54
30	356.8	43/37	2.6	369.6	48/43	2.8	**383.4**	**53/49**	**1.0**	393.6	55/52	0.8	401.8	57/55
28	358.1	44/38	2.6	371.1	49/44	2.8	**384.9**	**54/50**	**1.1**	396.1	55/52	0.7	403.2	57/55
26	359.1	44/38	2.6	372.1	49/44	2.8	**385.9**	**54/50**	**1.1**	397.1	55/52	0.7	404.3	57/56
24	360.1	44/38	2.6	373.1	49/44	2.8	**387.1**	**54/50**	**1.1**	398.2	56/53	0.7	405.3	58/56
22	361.0	44/38	2.6	374.1	49/44	3.0	**388.9**	**54/50**	**1.0**	399.2	56/53	0.7	406.4	58/56
20	362.0	45/39	2.6	375.2	50/45	3.1	**390.7**	**54/50**	**1.0**	400.3	56/53	0.7	407.4	58/56
18	363.0	45/39	2.7	376.3	50/45	3.3	**392.6**	**54/51**	**0.9**	401.3	56/53	0.7	408.5	59/57
16	364.0	45/39	2.7	377.4	50/45	3.4	**394.5**	**55/51**	**0.8**	402.3	57/54	0.7	409.6	59/57
14	365.1	45/39	2.7	378.5	50/45	3.5	**396.2**	**55/51**	**0.7**	403.4	57/54	0.7	410.7	59/57
12	366.1	46/40	2.7	379.6	51/46	3.5	**397.3**	**55/51**	**0.7**	404.5	57/54	0.7	411.8	59/57
10	367.2	46/40	2.7	380.7	51/46	3.5	**398.4**	**55/51**	**0.7**	405.6	57/54	0.7	412.9	60/58
8	368.2	46/40	2.7	381.8	51/46	3.5	**399.5**	**56/52**	**0.7**	406.7	58/55	0.7	414.0	60/58
6	369.3	47/41	2.7	382.9	52/47	3.5	**400.6**	**56/52**	**0.7**	407.9	58/55	0.7	415.2	60/58
4	370.4	47/41	2.7	384.1	52/47	3.5	**401.7**	**56/52**	**0.7**	409.1	58/55	0.7	416.4	61/59
2	371.6	47/41	2.7	385.2	52/47	3.5	**402.8**	**56/52**	**0.7**	410.2	59/56	0.7	417.6	61/59
0	372.7	47/41	2.7	386.4	52/47	3.5	**404.0**	**57/53**	**0.7**	411.4	59/56	0.7	418.8	61/59

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 25L

NORTHERLY SIDS - ALL ENGINES

OSHNN SID is not authorised for any type due climb gradient restrictions.

VENTURA SID AT HEAVY WTS THIS SID IS PREFERENTIAL FOR NOISE ABATEMENT AND TERRAIN CLEARANCE.

FIXIT/MUELR/GORMAN/DARRK SIDS CLIMB AHEAD FOR 8NM OR UNTIL IT IS KNOWN THE COAST CAN BE CROSSED HEADING NORTH AT 5000FT QNH OR ABOVE AND SSA ACHIEVED.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ENGINE FAILURE RESTRICTIONS

NORTHERLY DEPARTURES ENGINE FAILURE BEFORE 5000FT - TURN ONTO HEADING NOT GREATER THAN 270M. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE HIGH GROUND/SSA TO THE NORTH/NORTH EAST AND NORTH WEST.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **LOS ANGELES**

A/D Elev **126ft** **INTL (KLAX)**

TWY B1(F/L) RWY 25R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.223% UP
TOR	3685m (12089ft)	**ED**	3685m (12089ft)	**TOD**	3685m (12089ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	281.9	36/27	1.7	290.3	41/32	1.3	**296.6**	**46/38**	**0.1**	297.8	49/41	0.0	297.8	50/45
66	291.8	38/28	1.9	301.4	43/34	1.7	**309.8**	**48/39**	**0.4**	313.5	50/42	0.1	314.3	53/46
62	303.2	40/31	2.0	313.1	45/36	1.9	**322.8**	**50/42**	**0.5**	327.6	53/45	0.3	330.7	55/48
58	312.9	41/33	2.1	323.4	46/39	2.2	**334.2**	**50/44**	**0.6**	339.9	53/47	0.5	344.6	55/50
54	321.5	42/35	2.1	332.2	47/41	2.2	**343.4**	**51/46**	**0.6**	349.3	54/49	0.6	355.3	56/52
52	325.7	43/34	2.1	336.4	47/40	2.3	**347.7**	**52/45**	**0.6**	353.7	54/48	0.6	359.9	57/51
50	329.5	42/35	2.2	340.4	47/41	2.3	**352.0**	**52/46**	**0.6**	358.3	54/49	0.6	364.7	56/52
48	333.6	43/36	2.2	344.6	48/41	2.4	**356.5**	**53/47**	**0.6**	362.9	55/50	0.7	369.5	57/53
46	337.6	44/36	2.2	348.8	49/42	2.4	**360.9**	**54/48**	**0.7**	367.5	56/51	0.7	374.2	58/54
44	341.6	45/37	2.2	352.8	49/43	2.5	**365.3**	**54/49**	**0.7**	372.0	57/52	0.7	378.9	59/55
42	345.5	44/38	2.3	357.1	48/44	2.6	**370.0**	**53/49**	**0.7**	376.8	55/52	0.7	383.7	57/55
40	349.7	44/39	2.4	361.6	49/45	2.6	**374.7**	**54/50**	**0.7**	381.6	56/53	0.8	389.7	58/56
38	354.0	45/40	2.4	366.1	50/46	2.7	**379.5**	**55/51**	**0.7**	386.5	57/54	1.1	397.2	58/56
36	358.4	46/40	2.5	370.9	51/46	2.7	**384.4**	**56/52**	**1.0**	394.6	57/54	0.7	402.0	59/57
34	362.8	45/41	2.5	375.4	50/47	3.0	**390.5**	**55/52**	**0.9**	399.7	56/55	0.7	406.5	59/58
32	366.8	46/42	2.6	379.8	51/48	3.5	**397.1**	**55/53**	**0.7**	403.9	57/56	0.7	410.8	59/59
30	371.4	47/43	2.6	384.4	52/49	3.5	**401.7**	**56/53**	**0.7**	408.6	58/56	0.7	415.5	60/60
28	372.8	47/43	2.6	386.0	52/49	3.4	**403.1**	**56/54**	**0.7**	410.1	58/57	0.7	417.0	60/60
26	373.8	47/43	2.7	387.1	52/49	3.4	**404.2**	**56/54**	**0.7**	411.1	59/57	0.7	418.1	61/60
24	374.9	48/43	2.8	388.9	52/49	3.3	**405.2**	**57/54**	**0.7**	412.1	59/57	0.7	419.2	61/60
22	375.9	48/44	3.0	390.7	53/49	3.1	**406.3**	**57/55**	**0.7**	413.2	59/58	0.7	420.3	61/61
20	377.0	48/44	3.1	392.6	53/50	2.9	**407.3**	**57/55**	**0.7**	414.3	59/58	0.7	421.3	62/61
18	378.1	48/44	3.3	394.5	53/50	2.8	**408.4**	**58/55**	**0.7**	415.4	60/58	0.7	422.4	62/61
16	379.2	49/44	3.4	396.2	53/50	2.7	**409.5**	**58/55**	**0.7**	416.5	60/58	0.7	423.5	62/62
14	380.3	49/45	3.4	397.3	53/50	2.7	**410.6**	**58/56**	**0.7**	417.6	60/59	0.7	424.6	62/62
12	381.4	49/45	3.4	398.3	53/50	2.7	**411.7**	**58/56**	**0.7**	418.7	61/59	0.7	425.8	63/62
10	382.5	50/45	3.4	399.4	54/51	2.7	**412.8**	**59/56**	**0.7**	419.9	61/59	0.7	426.9	63/62
8	383.6	50/46	3.4	400.5	54/51	2.7	**413.9**	**59/57**	**0.7**	421.0	61/60	0.7	428.1	63/63
6	384.7	50/46	3.4	401.6	54/51	2.7	**415.1**	**59/57**	**0.7**	422.2	61/60	0.7	429.3	64/63
4	385.9	50/46	3.4	402.8	55/51	2.7	**416.3**	**60/57**	**0.7**	423.3	62/60	0.7	430.5	64/63
2	387.2	51/46	3.3	403.9	55/52	2.7	**417.4**	**60/57**	**0.7**	424.5	62/60	0.7	431.7	64/64
0	389.2	51/46	3.2	405.0	55/52	2.7	**418.7**	**60/58**	**0.7**	425.7	62/61	0.7	432.9	64/64

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 25R

NORTHERLY SIDS - ALL ENGINES

OSHNN SID is not authorised for any type due climb gradient restrictions.

VENTURA SID AT HEAVY WTS THIS SID IS PREFERENTIAL FOR NOISE ABATEMENT AND TERRAIN CLEARANCE.

FIXIT/MUELR/GORMAN/DARRK SIDS CLIMB AHEAD FOR 8NM OR UNTIL IT IS KNOWN THE COAST CAN BE CROSSED HEADING NORTH AT 5000FT QNH OR ABOVE AND SSA ACHIEVED.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

ENGINE FAILURE RESTRICTIONS

NORTHERLY DEPARTURES ENGINE FAILURE BEFORE 5000FT - TURN ONTO HEADING NOT GREATER THAN 270M. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE HIGH GROUND/SSA TO THE NORTH/NORTH EAST AND NORTH WEST.

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

BRITISH AIRWAYS **B747-400** LANDING DATA **ORLANDO (KMCO)**

A/D Elev **96ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**17L**	**17R**	**18L**	**18R**
Landing Distance Available	2743m / 9000ft	3048m / 10000ft	3659m / 12005ft	3659m / 12005ft
Slope	NIL	.01DN	.01DN	.01DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°	54°
25F Zero HW wt or TW (Manual)	2kt (278.0)	9kt (3kt)	15kt (13kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)	2kt (278.0)	9kt (3kt)		
25F Slippery Zero HW wt or TW (Manual)	227.0	254.0	1kt	1kt
25F Slippery Zero HW wt or TW (Autoland)	227.0	254.0		
30F Zero HW wt or TW (Manual)	2kt (280.8)	9kt (3kt)	15kt (13kt)	15kt (13kt)
30F Zero HW wt or TW (Autoland)	2kt (280.8)	9kt (3kt)		
30F Slippery Zero HW wt or TW (Manual)	250.0	278.0	1kt	1kt
30F Slippery Zero HW wt or TW (Autoland)	250.0	278.0		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ORLANDO (KMCO)**

A/D Elev **96ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**35L**	**35R**	**36L**	**36R**
Landing Distance Available	3048m / 10000ft	2743m / 9000ft	3542m / 11621ft	3536m / 11601ft
Slope	.01UP	NIL	.01UP	.01UP
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt(3kt)	2kt (278.0)	15kt (11kt)	15kt (11kt)
25F Zero HW wt or TW (Autoland)	9kt(3kt)	2kt (278.0)		15kt (11kt)
25F Slippery Zero HW wt or TW (Manual)	254.0	227.0	0kt	0kt
25F Slippery Zero HW wt or TW (Autoland)	254.0	227.0		0kt
30F Zero HW wt or TW (Manual)	9kt (3kt)	2kt (280.8)	15kt (11kt)	15kt (11kt)
30F Zero HW wt or TW (Autoland)	9kt(3kt)	2kt (280.8)		15kt (11kt)
30F Slippery Zero HW wt or TW (Manual)	278.0	250.0	0kt	0kt
30F Slippery Zero HW wt or TW (Autoland)	278.0	250.0		0kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MEMPHIS (KMEM)**

A/D Elev **341ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	09	18L	18C	18R
Landing Distance Available	2726m / 8946ft	2743m / 9000ft	3389m / 11120ft	2840m / 9320ft
Slope	.44UP	.63UP	.63 UP	.35UP
Notes				Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	2kt (273.9)	2kt (275.2)	14kt (8kt)	4kt (281.6)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	228.7	230.0	283.0	238.3
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (2kt)	7kt (2kt)	15kt (14kt)	10kt (5kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	249.1	250.6	3kt	259.6
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 18R:** Unuseable from MM inbound.

BRITISH AIRWAYS **B747-400** LANDING DATA **MEMPHIS (KMEM)**

A/D Elev **341ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	27	36L	36C	36R
Landing Distance Available	2726m / 8946ft	2840m / 9318ft	3265m / 10712ft	2743m / 9000ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°/54°	54°
25F Zero HW wt or TW (Manual)	2kt (273.9)	4kt (281.6)	11kt (5kt)	2kt (275.2)
25F Zero HW wt or TW (Autoland)		4kt (281.6)	11kt (5kt)	2kt (275.2)
25F Slippery Zero HW wt or TW (Manual)	2kt	238.3	267.0	230.0
25F Slippery Zero HW wt or TW (Autoland)		238.3	267.0	
30F Zero HW wt or TW (Manual)	7kt (2kt)	10kt (5kt)	11kt (5kt)	7kt (2kt)
30F Zero HW wt or TW (Autoland)		10kt (5kt)	11kt (5kt)	7kt (2kt)
30F Slippery Zero HW wt or TW (Manual)	249.1	259.6	280.8	250.6
30F Slippery Zero HW wt or TW (Autoland)		259.6	280.8	250.6
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MIAMI (KMIA)**

A/D Elev **8ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**08L**	**08R**	**09**	**12**
Landing Distance Available	2621m / 8600ft	3201m / 10506ft	3473m / 11397ft	2615m / 8579ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	0kt	12kt (6kt)	15kt (10kt)	0kt (280.8)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	215.0	267.0	0kt	215.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	0kt	12kt (6kt)	15kt (10kt)	0kt (280.8)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	238.0	280.8	0kt	238.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MIAMI (KMIA)**

A/D Elev **8ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	26L	26R	27	30
Landing Distance Available	3115m / 10219ft	2621m / 8600ft	3887m / 12755ft	2411m / 7911ft
Notes	Note 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	9kt (3kt)	0kt	15kt	270.0 (247.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	255.0	215.0	4kt	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	0kt	15kt	280.8 (263.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	279.9	238.0	4kt	219.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Runway 26L GS. Glideslope is unuseable for coupled approaches below 400ft amsl.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

TWY L1/M1 (F/L) RWY 08R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	267.3	30/20	1.8	276.2	35/25	1.6	**284.3**	**41/31**	**0.4**	288.6	43/34	0.4	292.9	45/37
66	276.5	33/21	1.9	285.9	38/26	1.8	**294.9**	**43/32**	**0.6**	300.5	45/35	0.5	305.1	47/38
62	287.3	35/23	1.9	297.0	40/29	1.9	**306.5**	**46/35**	**0.6**	312.2	48/38	0.6	318.1	50/41
58	296.9	36/25	2.1	307.2	41/31	2.0	**317.4**	**46/37**	**0.6**	323.4	48/40	0.6	329.6	50/43
54	304.9	37/27	2.1	315.5	42/33	2.3	**326.8**	**47/39**	**0.6**	332.8	49/42	0.6	339.0	51/45
52	308.9	37/26	2.2	319.7	43/32	2.3	**331.1**	**48/38**	**0.6**	337.0	50/41	0.6	343.2	52/44
50	312.3	37/27	2.2	323.2	42/33	2.4	**335.1**	**47/39**	**0.6**	341.5	49/42	0.6	347.7	51/45
48	316.3	38/28	2.2	327.4	43/34	2.4	**339.3**	**48/40**	**0.6**	345.7	50/43	0.6	352.1	52/46
46	320.3	39/29	2.2	331.4	44/35	2.4	**343.4**	**49/41**	**0.7**	349.9	51/44	0.7	356.4	53/47
44	324.1	39/30	2.2	335.3	44/35	2.4	**347.4**	**49/41**	**0.7**	354.0	52/44	0.7	360.7	54/48
42	327.7	38/30	2.3	339.1	43/36	2.5	**351.5**	**48/42**	**0.7**	358.3	51/45	0.7	365.2	53/49
40	331.7	39/31	2.3	343.2	44/37	2.5	**355.8**	**49/43**	**0.7**	362.7	51/46	0.7	369.8	54/50
38	335.8	40/32	2.3	347.4	45/38	2.6	**360.3**	**50/44**	**0.7**	367.3	52/47	0.7	374.5	54/50
36	340.0	41/33	2.3	351.7	46/39	2.6	**364.8**	**51/45**	**0.7**	372.1	53/48	0.7	379.5	55/51
34	343.9	40/33	2.4	355.8	45/39	2.7	**369.2**	**50/45**	**0.7**	376.6	52/49	0.7	384.0	55/52
32	347.6	41/34	2.4	359.8	46/40	2.7	**373.4**	**51/46**	**0.8**	380.9	53/49	0.8	389.3	55/53
30	351.7	42/35	2.5	364.1	47/41	2.8	**378.1**	**52/47**	**0.8**	385.6	54/50	1.1	396.8	55/53
28	352.7	42/35	2.5	365.1	47/41	2.8	**379.1**	**52/47**	**0.8**	386.7	54/50	1.1	397.9	56/53
26	353.6	42/35	2.5	366.1	47/41	2.8	**380.2**	**52/47**	**0.8**	388.3	54/50	1.1	398.9	56/53
24	354.5	42/35	2.5	367.1	47/42	2.8	**381.2**	**52/48**	**0.9**	390.1	55/51	1.0	399.9	56/53
22	355.5	43/36	2.5	368.1	48/42	2.8	**382.3**	**53/48**	**1.0**	391.9	55/51	0.9	400.9	56/54
20	356.4	43/36	2.5	369.1	48/42	2.8	**383.3**	**53/48**	**1.1**	393.8	55/51	0.8	402.0	57/54
18	357.4	43/36	2.6	370.2	48/42	2.8	**384.4**	**53/48**	**1.1**	395.7	55/51	0.7	403.0	57/54
16	358.4	43/36	2.6	371.2	49/43	2.9	**385.5**	**54/49**	**1.1**	396.9	55/51	0.7	404.1	57/55
14	359.4	44/37	2.6	372.3	49/43	2.9	**386.6**	**54/49**	**1.1**	397.9	55/51	0.7	405.2	57/55
12	360.4	44/37	2.6	373.4	49/43	3.0	**388.3**	**54/49**	**1.1**	399.0	56/52	0.7	406.3	58/55
10	361.4	44/37	2.6	374.5	49/43	3.1	**390.2**	**54/49**	**1.0**	400.1	56/52	0.7	407.4	58/55
8	362.5	44/38	2.6	375.6	50/44	3.3	**392.2**	**54/49**	**0.9**	401.2	56/52	0.7	408.6	58/56
6	363.5	45/38	2.6	376.7	50/44	3.5	**394.2**	**54/50**	**0.8**	402.3	56/52	0.7	409.7	59/56
4	364.6	45/38	2.7	377.9	50/44	3.6	**396.1**	**55/50**	**0.7**	403.4	57/53	0.8	410.9	59/56
2	365.7	45/38	2.7	379.0	51/44	3.6	**397.2**	**55/50**	**0.7**	404.6	57/53	0.7	412.0	59/57
0	366.8	46/39	2.7	380.2	51/45	3.6	**398.4**	**55/50**	**0.7**	405.7	57/53	0.8	413.2	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

Performance Restrictions - Rwy 08R

EONNS, JONZI, MNATE, SKIPS and SOUBY SIDs Engine failure BEFORE initial SID turn. Continue on rwy hdg and ctc ATC for hold and return. Engine failure AFTER initial SID turn and BELOW 1100ft. Turn to intercept the DHP R092 and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

HEDLY, HITAG, PADUS, POTTR, VALLY and WINCO SIDs No restrictions if SID track followed. If vectored off SID track and engine failure occurs BELOW 1100ft. Turn to intercept the DHP R092 and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

TWY S (F/L) RWY 09

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.008% UP
TOR	3967m (13015ft)	**ED**	3887m (12752ft)	**TOD**	3967m (13015ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	279.3	41/32	0.9	283.6	45/38	0.8	**287.8**	**47/44**	**0.2**	289.9	48/47	0.2	292.1	48/48
66	294.2	43/33	0.9	298.7	48/39	0.9	**303.2**	**51/45**	**0.2**	305.4	52/48	0.2	307.6	52/52
62	308.9	45/35	0.9	313.6	50/41	0.9	**318.3**	**55/47**	**0.2**	320.6	56/51	0.2	323.0	56/54
58	322.6	44/37	1.0	327.5	50/43	1.0	**332.4**	**56/49**	**0.3**	335.0	59/53	0.2	337.4	60/56
54	334.6	45/38	1.1	340.0	50/45	1.0	**345.2**	**56/51**	**0.3**	347.8	59/54	0.3	350.4	62/58
52	339.6	45/37	1.2	345.8	51/43	1.1	**351.1**	**57/50**	**0.3**	353.9	60/53	0.3	356.6	62/57
50	343.6	45/38	1.6	351.6	50/44	1.1	**357.2**	**56/51**	**0.3**	360.0	59/54	0.3	362.8	62/57
48	347.8	46/39	1.9	357.4	51/45	1.2	**363.3**	**57/51**	**0.3**	366.3	59/55	0.3	369.1	62/58
46	352.1	46/40	2.2	363.3	51/46	1.2	**369.5**	**57/52**	**0.3**	372.5	60/55	0.3	375.5	63/59
44	356.2	47/41	2.4	368.1	52/46	1.5	**375.8**	**58/52**	**0.3**	378.9	61/56	0.3	381.9	63/59
42	360.5	46/41	2.4	372.7	51/47	1.9	**382.1**	**56/53**	**0.3**	385.0	59/57	0.3	387.9	62/60
40	365.0	47/42	2.5	377.5	52/48	2.1	**388.0**	**57/54**	**0.3**	390.8	60/57	0.3	393.6	63/61
38	369.7	48/43	2.5	382.4	52/49	2.3	**394.1**	**58/54**	**0.3**	397.0	60/58	0.3	399.9	63/61
36	374.5	49/44	2.6	387.6	53/49	2.6	**400.4**	**58/55**	**0.3**	403.7	61/58	0.3	406.8	64/62
34	379.3	48/45	3.3	395.9	52/50	2.2	**406.7**	**57/55**	**0.3**	410.1	60/59	0.3	413.3	63/62
32	383.6	49/45	3.3	400.1	53/50	2.5	**412.6**	**58/56**	**0.4**	416.1	60/59	0.3	419.4	63/63
30	389.3	49/46	3.1	404.7	53/51	2.6	**417.7**	**58/57**	**0.5**	422.5	61/60	0.3	425.9	64/63
28	391.1	49/46	2.9	405.8	54/51	2.6	**418.8**	**58/57**	**0.4**	422.8	61/60	0.3	426.1	64/64
26	392.9	49/46	2.8	406.8	54/52	2.5	**419.4**	**59/57**	**0.4**	423.0	62/61	0.3	426.3	64/64
24	394.7	49/46	2.6	407.9	54/52	2.4	**419.7**	**59/58**	**0.4**	423.2	62/61	0.3	426.5	65/65
22	396.3	50/46	2.5	408.9	54/52	2.2	**419.9**	**60/58**	**0.4**	423.4	62/61	0.3	426.6	65/65
20	397.4	50/47	2.5	410.0	55/52	2.0	**420.1**	**60/58**	**0.4**	423.6	63/62	0.3	426.8	66/65
18	398.4	50/47	2.5	411.1	55/53	1.9	**420.4**	**61/59**	**0.3**	423.7	63/62	0.3	427.0	66/66
16	399.5	50/47	2.5	412.2	55/53	1.7	**420.6**	**61/59**	**0.3**	423.9	64/63	0.3	427.2	67/66
14	400.6	51/47	2.5	413.3	55/53	1.5	**420.8**	**61/60**	**0.3**	424.1	64/63	0.3	427.3	67/67
12	401.6	51/48	2.5	414.0	56/53	1.4	**421.0**	**62/60**	**0.3**	424.3	65/64	0.3	427.5	68/67
10	402.7	51/48	2.3	414.3	56/54	1.4	**421.2**	**62/60**	**0.3**	424.5	65/64	0.3	427.7	68/68
8	403.8	51/48	2.2	414.6	57/54	1.4	**421.4**	**63/61**	**0.3**	424.7	66/64	0.3	427.9	69/68
6	404.9	52/48	2.0	414.8	57/55	1.4	**421.6**	**63/61**	**0.3**	424.9	66/65	0.3	428.1	69/69
4	406.1	52/49	1.8	415.1	58/55	1.3	**421.7**	**64/62**	**0.3**	425.1	67/65	0.3	428.3	70/69
2	407.2	52/49	1.6	415.3	58/55	1.3	**421.9**	**64/62**	**0.3**	425.3	67/66	0.3	428.4	70/69
0	408.4	53/49	1.4	415.6	59/56	1.3	**422.1**	**65/63**	**0.3**	425.5	68/66	0.3	428.6	71/70

P/C above 1013 + 0.2
P/C below 1013 - 0.7

Min Acceleration Height 1100ft

PERFORMANCE RESTRICTIONS - Rwy 09 EONNS, JONZI, MNATE, SKIPS and SOUBY SIDs Engine failure BEFORE initial SID turn. Continue on rwy hdg and ctc ATC for hold and return. Engine failure AFTER initial SID turn and BELOW 1100ft. Turn IMMEDIATELY to RIKEE. At RIKEE turn to HDG 092 and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

HEDLY, HITAG, PADUS, POTTR, VALLY and WINCO SIDs No restrictions if SID track followed. If vectored off SID track and engine failure occurs BELOW 1100ft. Proceed IMMEDIATELY to RIKEE. At RIKEE turn to HDG 092 and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

TWY Q1 (F/L) RWY 12

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2851m (9353ft)	**ED**	2615m (8579ft)	**TOD**	2851m (9353ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	248.4	20/11	1.7	256.9	25/14	1.7	**265.5**	**31/20**	**0.5**	270.3	33/23	0.5	275.2	36/26
66	257.1	22/11	1.8	266.0	27/15	1.8	**275.2**	**33/21**	**0.5**	280.4	35/24	0.5	285.5	38/27
62	267.0	24/12	1.9	276.3	30/17	2.0	**286.2**	**35/23**	**0.6**	291.7	38/27	0.5	297.0	41/30
58	276.1	25/14	1.9	285.7	31/19	2.1	**296.4**	**36/26**	**0.6**	302.1	38/29	0.6	307.9	41/32
54	283.7	26/15	2.0	293.6	32/21	2.2	**304.6**	**37/27**	**0.6**	310.5	39/31	0.6	316.6	42/34
52	287.4	27/14	2.0	297.5	32/20	2.2	**308.7**	**38/26**	**0.6**	314.7	40/30	0.6	320.9	43/33
50	290.7	27/15	2.0	300.9	32/21	2.3	**312.2**	**37/27**	**0.6**	318.3	40/31	0.6	324.6	42/34
48	294.4	27/16	2.1	304.8	33/22	2.3	**316.3**	**38/28**	**0.6**	322.5	40/31	0.6	328.9	43/35
46	298.2	28/17	2.1	308.7	33/23	2.3	**320.4**	**39/29**	**0.6**	326.6	41/32	0.6	333.0	44/35
44	301.8	29/17	2.1	312.5	34/23	2.4	**324.3**	**39/30**	**0.6**	330.6	42/33	0.6	336.9	44/36
42	304.8	28/18	2.2	315.7	33/24	2.4	**327.9**	**39/30**	**0.6**	334.3	41/34	0.7	340.9	44/37
40	308.7	29/19	2.2	319.8	34/25	2.4	**332.0**	**39/31**	**0.7**	338.5	42/34	0.7	345.1	44/38
38	310.3	30/20	2.7	323.9	35/25	2.5	**336.2**	**40/32**	**0.7**	342.7	43/35	0.7	349.4	45/38
36	309.2	30/21	3.8	328.2	36/26	2.4	**340.4**	**41/33**	**0.7**	347.0	43/36	0.7	353.8	46/39
34	308.1	30/22	4.8	332.1	35/27	2.5	**344.4**	**40/33**	**0.7**	351.2	43/37	0.7	358.1	45/40
32	308.0	30/23	5.5	335.7	36/28	2.5	**348.2**	**41/34**	**0.7**	355.0	43/37	0.7	362.2	46/41
30	307.1	31/24	6.5	339.8	36/28	2.5	**352.4**	**42/35**	**0.7**	359.3	44/38	0.7	366.6	47/41
28	310.3	31/24	6.1	340.7	37/28	2.5	**353.3**	**42/35**	**0.7**	360.3	44/38	0.7	367.6	47/42
26	313.4	32/24	5.6	341.5	37/29	2.5	**354.2**	**42/35**	**0.7**	361.2	45/39	0.7	368.6	47/42
24	316.7	32/24	5.1	342.3	37/29	2.6	**355.1**	**42/35**	**0.7**	362.1	45/39	0.7	369.5	47/42
22	319.9	32/24	4.7	343.2	37/29	2.6	**356.0**	**43/36**	**0.7**	363.1	45/39	0.7	370.5	48/42
20	332.5	32/23	2.3	344.0	38/29	2.6	**356.9**	**43/36**	**0.7**	364.0	45/39	0.8	371.5	48/43
18	333.3	33/23	2.3	344.9	38/30	2.6	**357.8**	**43/36**	**0.7**	365.0	46/40	0.8	372.5	48/43
16	334.2	33/24	2.3	345.8	38/30	2.6	**358.8**	**44/36**	**0.7**	366.0	46/40	0.8	373.5	49/43
14	335.1	33/24	2.3	346.7	38/30	2.6	**359.7**	**44/37**	**0.7**	366.9	46/40	0.8	374.5	49/44
12	335.9	33/24	2.3	347.6	39/30	2.6	**360.7**	**44/37**	**0.7**	367.9	47/40	0.8	375.5	49/44
10	336.8	34/24	2.3	348.5	39/31	2.6	**361.7**	**44/37**	**0.7**	369.0	47/41	0.8	376.6	49/44
8	337.7	34/25	2.4	349.5	39/31	2.6	**362.7**	**45/38**	**0.7**	370.0	47/41	0.8	377.6	50/44
6	338.7	34/25	2.3	350.4	40/31	2.7	**363.7**	**45/38**	**0.7**	371.0	47/41	0.8	378.7	50/45
4	339.6	35/25	2.4	351.4	40/31	2.7	**364.7**	**45/38**	**0.7**	372.1	48/41	0.8	379.8	50/45
2	340.5	35/25	2.4	352.3	40/32	2.7	**365.7**	**46/38**	**0.7**	373.1	48/42	0.8	380.9	51/45
0	341.5	35/26	2.4	353.3	40/32	2.7	**366.8**	**46/39**	**0.7**	374.2	48/42	0.8	382.0	51/45

P/C above 1013 + 0.2
P/C below 1013 - 1.3

PERFORMANCE RESTRICTIONS - Rwy 12 EONNS, MNATE and SKIPS SIDs No restrictions if SID track followed. If vectored off SID track and engine failure occurs BELOW 1100ft. Proceed IMMEDIATELY to SABRA and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

HEDLY, HITAG, JONZI, PADUS, POTTR, SOUBY, VALLY and WINCO SIDs Engine failure BEFORE initial SID turn. Continue on rwy hdg and ctc ATC for hold and return. Engine failure AFTER initial SID turn and BELOW 1100ft. Proceed IMMEDIATELY to SABRA and ctc ATC for hold and return. Engine failure ABOVE 1100ft. No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

L11/M11 (F/L) RWY 26L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.01% DN
TOR	3201m (10501ft)	**ED**	3201m (10501ft)	**TOD**	3201m (10501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	267.4	30/20	1.5	275.1	36/25	1.4	**282.2**	**41/31**	**0.4**	286.3	44/34	0.4	290.4	46/38
66	276.6	33/21	1.9	285.9	38/26	1.6	**294.1**	**43/32**	**0.4**	298.5	46/35	0.4	302.8	48/39
62	287.3	35/23	2.0	297.1	40/29	1.9	**306.5**	**46/35**	**0.5**	311.4	48/38	0.5	316.0	50/41
58	297.0	36/25	2.1	307.3	41/31	2.0	**317.5**	**46/37**	**0.6**	323.4	48/40	0.5	328.4	50/44
54	304.9	37/27	2.1	315.5	42/33	2.3	**326.9**	**47/39**	**0.6**	332.9	49/42	0.6	339.0	51/45
52	309.0	37/26	2.1	319.7	42/32	2.3	**331.1**	**48/38**	**0.6**	337.1	50/41	0.6	343.3	52/44
50	312.3	37/27	2.2	323.3	42/33	2.4	**335.2**	**47/39**	**0.6**	341.5	49/42	0.6	347.8	51/45
48	316.3	38/28	2.2	327.4	43/34	2.4	**339.4**	**48/40**	**0.6**	345.7	50/43	0.6	352.1	52/46
46	320.4	39/29	2.2	331.5	44/35	2.4	**343.4**	**49/41**	**0.7**	349.9	51/44	0.7	356.4	53/47
44	324.2	39/30	2.2	335.3	44/35	2.4	**347.4**	**49/41**	**0.7**	354.0	52/44	0.7	360.7	54/48
42	327.7	38/30	2.3	339.2	43/36	2.5	**351.6**	**48/42**	**0.7**	358.3	51/45	0.7	365.2	53/49
40	331.8	39/31	2.3	343.3	44/37	2.5	**355.9**	**49/43**	**0.7**	362.8	51/46	0.7	369.9	54/50
38	335.8	40/32	2.3	347.5	45/38	2.6	**360.3**	**50/44**	**0.7**	367.4	52/47	0.7	374.6	54/50
36	340.1	41/33	2.3	351.8	46/39	2.6	**364.9**	**51/45**	**0.7**	372.2	53/48	0.7	379.5	55/51
34	344.0	40/33	2.4	355.9	45/39	2.7	**369.3**	**50/45**	**0.7**	376.7	52/49	0.7	384.0	55/52
32	347.7	41/34	2.4	359.8	46/40	2.7	**373.5**	**51/46**	**0.8**	381.0	53/49	0.8	389.4	55/52
30	351.8	42/35	2.5	364.2	47/41	2.8	**378.1**	**52/47**	**0.8**	385.7	54/50	1.1	396.9	55/53
28	352.7	42/35	2.5	365.2	47/41	2.8	**379.2**	**52/47**	**0.8**	386.7	54/50	1.1	397.9	56/53
26	353.7	42/35	2.5	366.2	47/41	2.8	**380.3**	**52/47**	**0.8**	388.4	54/50	1.1	399.0	56/53
24	354.6	42/35	2.5	367.2	47/42	2.8	**381.3**	**52/48**	**0.9**	390.2	55/51	1.0	400.0	56/53
22	355.5	43/36	2.5	368.2	48/42	2.8	**382.3**	**53/48**	**1.0**	392.1	55/51	0.9	401.0	56/54
20	356.5	43/36	2.5	369.2	48/42	2.8	**383.4**	**53/48**	**1.1**	393.9	55/51	0.8	402.0	57/54
18	357.5	43/36	2.5	370.2	48/42	2.9	**384.5**	**53/48**	**1.1**	395.8	55/51	0.7	403.1	57/54
16	358.5	43/36	2.6	371.3	49/43	2.9	**385.6**	**54/49**	**1.1**	396.9	55/51	0.7	404.2	57/55
14	359.5	44/37	2.6	372.4	49/43	2.9	**386.7**	**54/49**	**1.1**	398.0	55/51	0.7	405.2	57/55
12	360.5	44/37	2.6	373.4	49/43	3.0	**388.4**	**54/49**	**1.1**	399.1	56/52	0.7	406.3	58/55
10	361.5	44/37	2.6	374.5	49/43	3.2	**390.3**	**54/49**	**1.0**	400.2	56/52	0.7	407.5	58/55
8	362.5	44/38	2.6	375.6	50/44	3.3	**392.3**	**54/49**	**0.9**	401.3	56/52	0.7	408.6	58/56
6	363.6	45/38	2.6	376.8	50/44	3.5	**394.3**	**54/50**	**0.8**	402.4	56/52	0.7	409.8	59/56
4	364.7	45/38	2.6	377.9	50/44	3.7	**396.2**	**55/50**	**0.7**	403.5	57/53	0.7	410.9	59/56
2	365.8	45/38	2.7	379.1	50/44	3.6	**397.3**	**55/50**	**0.7**	404.7	57/53	0.7	412.1	59/56
0	366.9	46/39	2.7	380.3	51/45	3.6	**398.4**	**55/50**	**0.7**	405.8	57/53	0.7	413.2	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

TWY Q8 (F/L) RWY 27

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	3967m (13015ft)	**ED**	3967m (13015ft)	**TOD**	3967m (13015ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	284.2	42/33	1.4	291.3	47/38	1.3	**298.0**	**50/44**	**0.1**	299.1	51/48	0.0	299.1	51/51
66	296.2	44/34	1.5	303.6	49/40	1.4	**310.8**	**53/45**	**0.4**	314.8	55/48	0.1	315.6	55/52
62	309.1	46/36	1.5	316.8	51/42	1.5	**324.4**	**57/48**	**0.4**	328.6	58/51	0.4	332.1	59/54
58	321.1	46/39	1.6	329.3	51/44	1.6	**337.1**	**57/50**	**0.4**	341.4	59/53	0.4	345.7	61/56
54	331.4	47/40	1.7	339.9	52/46	1.6	**348.0**	**57/52**	**0.5**	352.5	60/55	0.5	357.1	62/58
52	336.0	48/39	1.7	344.7	53/45	1.7	**353.0**	**58/51**	**0.5**	357.7	60/54	0.5	362.5	63/57
50	340.3	47/40	1.9	349.7	52/46	1.7	**358.2**	**57/52**	**0.5**	363.1	60/55	0.5	368.1	62/58
48	344.9	48/41	1.9	354.6	53/47	1.8	**363.4**	**58/53**	**0.5**	368.4	61/56	0.5	373.6	63/59
46	349.4	49/42	2.0	359.4	53/48	1.8	**368.5**	**59/54**	**0.5**	373.8	61/57	0.5	379.1	64/60
44	353.8	49/43	2.1	364.1	54/48	1.9	**373.7**	**60/54**	**0.5**	379.1	62/57	0.5	384.4	64/61
42	358.4	48/43	2.1	369.1	53/49	2.0	**379.0**	**58/55**	**0.5**	384.4	61/58	0.6	390.6	63/61
40	363.2	49/44	2.2	374.1	54/50	2.0	**384.2**	**59/56**	**0.6**	390.5	61/59	0.7	397.0	63/62
38	368.2	50/45	2.3	379.5	54/51	2.2	**390.6**	**60/57**	**0.7**	397.3	62/59	0.5	402.6	64/62
36	373.3	50/46	2.3	384.7	55/51	2.5	**397.4**	**60/57**	**0.5**	402.7	62/60	0.6	408.3	65/63
34	378.3	50/46	2.5	390.8	54/52	2.3	**402.4**	**59/58**	**0.6**	407.9	62/61	0.6	413.6	64/64
32	382.9	50/47	2.8	397.0	55/52	2.0	**407.2**	**60/58**	**0.6**	412.8	62/62	0.6	418.6	65/65
30	388.2	51/48	2.7	401.9	55/53	2.1	**412.4**	**61/59**	**0.6**	418.1	63/62	0.6	424.0	65/65
28	389.5	51/48	2.7	402.8	56/53	2.1	**413.3**	**61/59**	**0.6**	418.9	63/63	0.6	424.8	66/66
26	390.8	51/48	2.6	403.6	56/54	2.1	**414.0**	**61/60**	**0.6**	419.7	64/63	0.6	425.5	66/66
24	392.1	52/48	2.5	404.4	56/54	2.1	**414.8**	**62/60**	**0.6**	420.5	64/63	0.6	426.3	66/66
22	393.3	52/49	2.4	405.2	57/54	2.1	**415.6**	**62/60**	**0.6**	421.2	64/64	0.6	427.0	67/67
20	394.6	52/49	2.3	406.1	57/54	2.1	**416.4**	**62/61**	**0.6**	422.0	65/64	0.6	427.8	67/67
18	395.9	52/49	2.2	407.0	57/55	2.0	**417.2**	**63/61**	**0.6**	422.8	65/64	0.6	428.5	67/67
16	396.8	53/49	2.2	407.8	58/55	2.0	**418.0**	**63/61**	**0.6**	423.6	65/64	0.6	429.3	68/68
14	397.6	53/49	2.2	408.7	58/55	2.0	**418.8**	**63/62**	**0.6**	424.4	66/65	0.6	430.1	68/68
12	398.5	53/50	2.2	409.6	58/56	2.0	**419.6**	**64/62**	**0.6**	425.2	66/65	0.6	430.8	69/68
10	399.4	54/50	2.2	410.5	58/56	2.0	**420.4**	**64/62**	**0.6**	426.0	66/65	0.6	431.6	69/69
8	400.2	54/50	2.2	411.4	59/56	2.0	**421.2**	**64/63**	**0.6**	426.8	67/66	0.6	432.4	69/69
6	401.1	54/51	2.2	412.2	59/57	2.0	**422.1**	**65/63**	**0.6**	427.6	67/66	0.6	433.2	70/70
4	402.0	54/51	2.2	413.0	60/57	2.0	**422.9**	**65/63**	**0.6**	428.5	68/67	0.6	434.0	70/70
2	402.9	55/51	2.2	413.9	60/57	2.0	**423.7**	**65/64**	**0.6**	429.3	68/67	0.6	434.8	70/70
0	403.8	55/52	2.2	414.7	60/58	2.0	**424.6**	**66/64**	**0.6**	430.1	68/67	0.6	435.6	71/71

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MIAMI**

A/D Elev **9ft** **(KMIA)**

TWY Q8 (F/L) RWY 30

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2851m (9353ft)	**ED**	2698m (8851ft)	**TOD**	2851m (9353ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	253.2	22/11	1.8	262.2	27/16	1.9	**271.5**	**32/22**	**0.5**	276.7	35/25	0.5	281.6	37/28
66	261.8	24/12	1.9	271.1	29/17	2.0	**281.0**	**35/23**	**0.5**	286.4	37/26	0.6	292.0	39/29
62	271.7	26/14	2.0	281.6	32/19	2.1	**291.9**	**37/25**	**0.6**	297.6	40/28	0.6	303.4	42/32
58	280.7	27/16	2.0	290.8	33/22	2.2	**301.8**	**38/28**	**0.6**	307.7	40/31	0.6	313.7	42/34
54	288.2	28/18	2.1	298.6	33/23	2.3	**309.9**	**39/30**	**0.6**	316.0	41/33	0.6	322.2	43/36
52	292.0	29/17	2.1	302.5	34/22	2.3	**313.9**	**39/29**	**0.6**	320.2	42/32	0.6	326.5	44/35
50	295.1	29/18	2.1	305.8	34/23	2.3	**317.4**	**39/30**	**0.6**	323.7	41/33	0.7	330.2	44/36
48	299.0	29/18	2.2	309.8	35/24	2.3	**321.5**	**40/30**	**0.6**	327.9	42/33	0.6	334.3	45/37
46	302.7	30/19	2.2	313.6	35/25	2.4	**325.5**	**41/31**	**0.6**	331.9	43/34	0.7	338.4	45/37
44	306.3	31/20	2.2	317.4	36/25	2.4	**329.5**	**41/32**	**0.6**	335.8	44/35	0.7	342.3	46/38
42	309.3	30/20	2.3	320.8	35/26	2.5	**333.1**	**41/33**	**0.7**	339.7	43/36	0.7	346.3	45/39
40	313.2	31/21	2.3	324.8	36/27	2.5	**337.1**	**41/33**	**0.7**	343.7	44/37	0.7	350.5	46/40
38	317.2	32/22	2.3	328.9	37/28	2.5	**341.3**	**42/34**	**0.7**	347.9	44/37	0.7	354.8	47/41
36	321.3	32/23	2.3	333.0	38/29	2.5	**345.5**	**43/35**	**0.7**	352.2	45/38	0.7	359.2	48/41
34	325.1	32/23	2.4	336.9	37/29	2.5	**349.5**	**42/36**	**0.7**	356.4	44/39	0.7	363.6	47/42
32	328.7	32/24	2.4	340.6	38/30	2.5	**353.3**	**43/36**	**0.7**	360.3	45/40	0.7	367.7	48/43
30	332.6	33/25	2.4	344.6	38/31	2.6	**357.5**	**44/37**	**0.7**	364.7	46/40	0.8	372.2	48/44
28	333.5	33/25	2.4	345.5	39/31	2.6	**358.5**	**44/37**	**0.7**	365.7	46/41	0.8	373.2	49/44
26	334.4	34/25	2.4	346.4	39/31	2.6	**359.4**	**44/38**	**0.7**	366.7	46/41	0.8	374.3	49/44
24	335.3	34/25	2.4	347.3	39/31	2.6	**360.4**	**44/38**	**0.7**	367.7	47/41	0.8	375.3	49/44
22	336.1	34/25	2.4	348.2	39/32	2.6	**361.4**	**45/38**	**0.7**	368.7	47/41	0.8	376.3	49/45
20	337.0	34/26	2.4	349.1	40/32	2.7	**362.4**	**45/38**	**0.7**	369.7	47/42	0.8	377.4	50/45
18	338.0	35/26	2.4	350.1	40/32	2.7	**363.4**	**45/39**	**0.7**	370.8	48/42	0.8	378.5	50/45
16	338.9	35/26	2.4	351.0	40/32	2.7	**364.4**	**45/39**	**0.7**	371.8	48/42	0.8	379.6	50/45
14	339.9	35/26	2.4	352.0	40/33	2.7	**365.4**	**46/39**	**0.8**	372.9	48/42	0.8	380.7	51/46
12	340.8	35/27	2.4	352.9	41/33	2.7	**366.5**	**46/39**	**0.8**	374.0	48/43	0.8	381.8	51/46
10	341.7	36/27	2.4	353.9	41/33	2.7	**367.5**	**46/40**	**0.8**	375.1	49/43	0.8	382.9	51/46
8	342.6	36/27	2.5	354.9	41/33	2.7	**368.6**	**47/40**	**0.8**	376.2	49/43	0.8	384.0	51/47
6	343.6	36/27	2.5	355.9	41/34	2.8	**369.7**	**47/40**	**0.8**	377.3	49/43	0.8	385.2	52/47
4	344.6	36/28	2.5	357.0	42/34	2.8	**370.8**	**47/40**	**0.8**	378.5	49/44	0.8	386.3	52/47
2	345.6	37/28	2.5	358.0	42/34	2.8	**371.9**	**47/41**	**0.8**	379.6	50/44	0.8	387.9	52/47
0	346.6	37/28	2.5	359.1	42/34	2.8	**373.1**	**48/41**	**0.8**	380.8	50/44	0.9	389.9	52/47

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400** LANDING DATA **MILWAUKEE (KMKE)**

A/D Elev **729ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	01L	07R	19R	25L
Landing Distance Available	2768m / 9081ft	2442m / 8012ft	2806m / 9206ft	2398m / 7868ft
Slope	.34DN	.74DN	.34UP	.75UP
Notes				
WAT LIMIT °C : Man / Auto	53°	53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	3kt (273.0)	265.0 (240.0)	3kt (277.0)	260.0 (240.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	278.0	NOT AUTH	284.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (2kt)	1kt (256.0)	9kt (4kt)	281.0 (255.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	255.0	227.0	270.0	NOT AUTH
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MINNEAPOLIS**

A/D Elev **841ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **ST. PAUL (KMSP)**

RUNWAY	**04**	**12L**	**12R**	**17**
Landing Distance Available	2882m / 9456ft	2322m / 7620ft	3048m / 10000ft	2438m / 8000ft
Slope	.04 DN	.24 DN	.28DN	.09 DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°/53°	53°
25F Zero HW wt or TW (Manual)	5kt (283.0)	256.0 (230.0)	8kt (2kt)	270.0 (244.0)
25F Zero HW wt or TW (Autoland)		256.0 (230.0)	8kt (2kt)	
25F Slippery Zero HW wt or TW (Manual)	233.0	NOT AUTH	249.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)		NOT AUTH	249.0	
30F Zero HW wt or TW (Manual)	5kt (280.8)	272.0 (248.0)	8kt (2kt)	280.8 (259.0)
30F Zero HW wt or TW (Autoland)		272.0 (248.0)	8kt (2kt)	
30F Slippery Zero HW wt or TW (Manual)	258.0	208.0	274.0	218.0
30F Slippery Zero HW wt or TW (Autoland)		208.0	274.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MINNEAPOLIS ST. PAUL (KMSP)**

A/D Elev **841ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	22	30L	30R	35
Landing Distance Available	3049m / 10003ft	3048m / 10000ft	2438m / 8000ft	2438m / 8000ft
Slope	.04 UP	.28UP	.24UP	.09 UP
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°	53°/53°
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	270.0 (244.0)	270.0 (244.0)
25F Zero HW wt or TW (Autoland)		8kt (2kt)		270.0 (244.0)
25F Slippery Zero HW wt or TW (Manual)	250.0	249.0	NOT AUTH	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)		249.0		NOT AUTH
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	280.8 (259.0)	280.8 (259.0)
30F Zero HW wt or TW (Autoland)		8kt (2kt)		280.8 (259.0)
30F Slippery Zero HW wt or TW (Manual)	274.0	274.0	218.0	218.0
30F Slippery Zero HW wt or TW (Autoland)		274.0		218.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **NEW ORLEANS (KMSY)**

A/D Elev **4ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	02	11	20	29
Landing Distance Available	2134m / 7000ft	3079m / 10104ft	2134m / 7000ft	2988m / 9803ft
Slope	.06DN	.02UP	.06UP	.02DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	237.0 (217.0)	9kt (3kt)	237.0 (217.0)	7kt (2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	255.0	NOT AUTH	247.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	253.0 (231.0)	9kt (3kt)	253.0 (231.0)	7kt (2kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	NOT AUTH	279.0	NOT AUTH	273.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW ORLEANS**

A/D Elev **4ft** **INTL (KMSY)**

F/L (TWY S) RWY 02

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.057% DN
TOR	2134m (7001ft)	**ED**	2134m (7001ft)	**TOD**	2134m (7001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		12/		228.1	17/11	1.8	**237.1**	**22/11**	**0.5**	242.5	25/14	0.6	248.0	28/17
66		13/		235.9	19/11	1.9	**245.3**	**24/11**	**0.6**	251.0	27/15	0.5	256.4	30/18
62		15/		245.1	21/11	1.9	**254.7**	**26/14**	**0.6**	260.5	29/17	0.6	266.1	32/20
58		17/		253.7	22/11	2.0	**263.5**	**28/16**	**0.6**	269.5	31/19	0.6	275.4	34/22
54		18/		255.3	23/12	3.2	**271.1**	**29/17**	**0.6**	277.2	32/21	0.6	283.4	34/24
52		18/		254.1	24/13	4.1	**274.5**	**30/17**	**0.6**	280.8	33/20	0.6	287.1	35/23
50		18/		252.9	24/14	5.1	**278.2**	**29/17**	**0.6**	284.6	32/21	0.6	291.0	35/24
48		19/		251.8	25/15	6.0	**281.8**	**30/18**	**0.6**	288.2	33/21	0.7	294.7	35/25
46		20/		250.6	25/15	6.9	**285.2**	**31/19**	**0.7**	291.8	34/22	0.7	298.3	36/25
44		20/		249.5	26/16	7.8	**288.6**	**32/19**	**0.7**	295.3	34/23	0.7	301.9	37/26
42		20/		248.2	26/17	8.7	**291.9**	**31/20**	**0.7**	298.6	34/23	0.7	305.3	36/27
40		21/		247.0	26/18	9.7	**295.6**	**32/21**	**0.7**	302.3	34/24	0.7	309.2	37/28
38		21/		245.8	27/19	10.7	**299.3**	**33/21**	**0.7**	306.2	35/25	0.7	313.1	38/28
36		22/		244.7	28/20	11.7	**303.1**	**33/22**	**0.7**	310.2	36/26	0.7	317.1	39/29
34		22/		243.6	27/21	12.6	**306.8**	**33/23**	**0.7**	313.8	35/26	0.7	320.9	38/30
32		22/		243.4	28/22	13.4	**310.3**	**33/23**	**0.7**	317.4	36/27	0.7	324.5	39/30
30		23/		242.5	28/23	14.3	**314.0**	**34/24**	**0.7**	321.3	37/28	0.7	328.4	39/31
28		23/		245.8	29/23	13.8	**314.9**	**34/24**	**0.7**	322.1	37/28	0.7	329.3	40/31
26		24/		249.2	29/23	13.3	**315.7**	**35/25**	**0.7**	323.0	37/28	0.7	330.2	40/32
24		24/		252.7	29/23	12.8	**316.6**	**35/25**	**0.7**	323.8	38/28	0.7	331.0	40/32
22		24/		256.3	30/23	12.2	**317.5**	**35/25**	**0.7**	324.7	38/29	0.7	331.9	40/32
20		24/		259.9	30/23	11.7	**318.4**	**35/25**	**0.7**	325.6	38/29	0.7	332.8	41/32
18		24/		263.6	30/23	11.1	**319.3**	**36/26**	**0.7**	326.5	38/29	0.7	333.7	41/33
16		25/		267.5	30/23	10.5	**320.2**	**36/26**	**0.7**	327.4	39/29	0.7	334.6	41/33
14	203.4	25/23	13.6	271.5	31/23	9.9	**321.1**	**36/26**	**0.7**	328.3	39/30	0.7	335.5	41/33
12	206.9	25/23	13.7	275.6	31/23	9.3	**322.0**	**36/26**	**0.7**	329.3	39/30	0.7	336.4	42/33
10	210.4	26/23	13.9	279.8	31/23	8.6	**322.9**	**37/27**	**0.7**	330.2	39/30	0.7	337.4	42/34
8	214.0	26/23	14.0	284.0	31/23	8.0	**323.8**	**37/27**	**0.7**	331.1	40/31	0.7	338.3	42/34
6	217.6	26/23	14.1	288.3	32/23	7.3	**324.7**	**37/27**	**0.7**	332.1	40/31	0.7	339.3	43/34
4	221.3	26/23	14.3	292.7	32/23	6.6	**325.7**	**38/27**	**0.7**	333.0	40/31	0.7	340.3	43/35
2	225.2	27/23	14.4	297.1	32/23	5.9	**326.6**	**38/28**	**0.7**	333.9	41/31	0.7	341.3	43/35
0	229.0	27/23	14.5	301.3	33/23	5.3	**327.6**	**38/28**	**0.7**	334.9	41/32	0.7	342.2	43/35

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW ORLEANS**

A/D Elev **4ft** **INTL (KMSY)**

F/L (TWY E) RWY 11

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.03% DN
TOR	3079m (10101ft)	**ED**	3079m (10101ft)	**TOD**	3079m (10101ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	259.7	29/18	1.5	267.0	35/24	1.4	**274.0**	**40/30**	**0.4**	278.1	43/33	0.4	282.1	45/36
66	270.3	31/19	1.6	278.1	37/25	1.5	**285.6**	**42/31**	**0.4**	290.0	45/34	0.4	294.3	47/37
62	281.9	33/21	1.6	290.1	39/27	1.6	**298.0**	**45/33**	**0.5**	302.6	47/36	0.5	307.2	49/40
58	291.7	34/23	1.9	301.4	39/29	1.7	**309.7**	**45/35**	**0.5**	314.5	47/38	0.5	319.3	50/42
54	299.5	35/25	2.1	310.2	40/31	1.9	**319.9**	**45/37**	**0.5**	324.8	48/40	0.5	329.8	50/44
52	303.4	36/24	2.2	314.2	41/30	2.1	**324.5**	**46/36**	**0.5**	329.6	49/39	0.5	334.5	51/43
50	306.7	35/25	2.2	317.7	40/31	2.3	**329.3**	**45/37**	**0.5**	334.3	48/40	0.5	339.4	50/44
48	310.7	36/26	2.2	321.9	41/32	2.4	**333.7**	**46/38**	**0.5**	339.0	49/41	0.5	344.1	51/44
46	314.6	37/27	2.3	325.9	42/32	2.4	**337.9**	**47/39**	**0.6**	343.5	49/42	0.5	348.8	52/45
44	318.4	37/27	2.3	329.8	43/33	2.4	**341.8**	**48/39**	**0.6**	348.0	50/42	0.5	353.4	53/46
42	321.8	37/28	2.3	333.4	42/34	2.5	**345.8**	**47/40**	**0.7**	352.4	49/43	0.6	358.2	51/47
40	325.8	38/29	2.3	337.5	43/35	2.5	**350.0**	**48/41**	**0.7**	356.7	50/44	0.6	363.1	52/47
38	330.0	38/30	2.3	341.6	44/36	2.5	**354.3**	**49/42**	**0.7**	361.2	51/45	0.7	368.1	53/48
36	334.0	39/30	2.4	345.8	44/36	2.6	**358.8**	**49/42**	**0.7**	365.8	52/46	0.7	372.8	54/49
34	337.9	38/31	2.4	349.9	44/37	2.6	**363.0**	**49/43**	**0.7**	370.2	51/46	0.7	377.4	53/50
32	341.6	39/32	2.4	353.6	44/38	2.7	**367.0**	**49/44**	**0.7**	374.4	52/47	0.7	381.7	54/51
30	345.6	40/32	2.5	357.9	45/38	2.7	**371.6**	**50/45**	**0.7**	379.0	52/48	0.7	386.4	55/51
28	346.5	40/33	2.5	358.8	45/39	2.8	**372.6**	**50/45**	**0.8**	380.1	53/48	0.8	387.8	55/51
26	347.4	40/33	2.5	359.8	46/39	2.8	**373.6**	**51/45**	**0.8**	381.1	53/48	0.9	389.6	55/52
24	348.3	41/33	2.5	360.7	46/39	2.8	**374.6**	**51/46**	**0.8**	382.2	53/49	0.9	391.4	55/52
22	349.2	41/33	2.5	361.7	46/39	2.8	**375.7**	**51/46**	**0.8**	383.2	53/49	1.0	393.0	55/52
20	350.2	41/34	2.5	362.7	46/40	2.8	**376.7**	**51/46**	**0.8**	384.3	54/49	1.0	394.2	55/52
18	351.1	41/34	2.5	363.7	47/40	2.8	**377.8**	**52/46**	**0.8**	385.4	54/49	1.0	395.3	56/52
16	352.0	42/34	2.5	364.7	47/40	2.8	**378.9**	**52/47**	**0.8**	386.5	54/50	1.0	396.2	56/53
14	353.0	42/34	2.6	365.8	47/41	2.8	**380.0**	**52/47**	**0.8**	388.1	54/50	0.9	397.0	56/53
12	354.0	42/35	2.6	366.8	47/41	2.9	**381.1**	**53/47**	**0.9**	390.0	55/50	0.8	397.7	57/53
10	355.0	42/35	2.6	367.9	48/41	2.9	**382.2**	**53/47**	**0.9**	391.2	55/50	0.7	398.5	57/54
8	356.0	43/35	2.6	369.0	48/41	2.9	**383.3**	**53/48**	**0.9**	392.4	55/51	0.7	399.2	57/54
6	357.0	43/35	2.6	370.1	48/42	2.9	**384.5**	**53/48**	**0.9**	393.5	55/51	0.7	400.0	58/54
4	358.0	43/36	2.6	371.2	49/42	2.9	**385.6**	**54/48**	**0.9**	394.6	56/51	0.6	400.8	58/55
2	359.1	44/36	2.6	372.3	49/42	2.9	**386.8**	**54/48**	**0.9**	395.7	56/51	0.6	401.6	58/55
0	360.2	44/36	2.6	373.4	49/42	3.0	**388.3**	**54/49**	**0.8**	396.5	56/52	0.6	402.4	59/55

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW ORLEANS**

A/D Elev **4ft** **INTL (KMSY)**

F/L (TWY S) RWY 20

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.057% UP
TOR	2134m (7001ft)	**ED**	2134m (7001ft)	**TOD**	2134m (7001ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		12/		227.6	17/11	1.8	**236.6**	**22/11**	**0.6**	242.1	25/14	0.5	247.5	27/17
66		13/		235.4	18/11	1.9	**244.8**	**24/12**	**0.6**	250.6	27/15	0.5	256.0	29/18
62		15/		244.6	21/11	1.9	**254.2**	**26/14**	**0.6**	260.0	29/17	0.6	265.6	32/20
58		16/		253.2	22/11	2.0	**263.0**	**28/16**	**0.6**	268.9	31/19	0.6	274.9	33/22
54		17/		255.1	23/12	3.1	**270.5**	**29/17**	**0.6**	276.7	32/21	0.6	282.9	34/24
52		18/		253.9	24/13	4.0	**274.0**	**30/17**	**0.6**	280.3	33/20	0.6	286.5	35/23
50		18/		252.6	24/14	5.0	**277.7**	**29/17**	**0.6**	284.0	32/21	0.6	290.4	35/24
48		19/		251.5	25/15	5.9	**281.2**	**30/18**	**0.7**	287.7	33/21	0.6	294.1	35/25
46		19/		250.4	25/15	6.9	**284.7**	**31/19**	**0.7**	291.2	34/22	0.7	297.8	36/25
44		20/		249.2	26/16	7.8	**288.1**	**32/19**	**0.7**	294.7	34/23	0.7	301.4	37/26
42		20/		248.0	25/17	8.7	**291.4**	**31/20**	**0.7**	298.0	34/23	0.7	304.7	36/27
40		21/		246.7	26/18	9.7	**295.0**	**32/21**	**0.7**	301.8	34/24	0.7	308.6	37/28
38		21/		245.6	27/19	10.6	**298.7**	**32/21**	**0.7**	305.6	35/25	0.7	312.5	38/28
36		22/		244.4	28/20	11.6	**302.5**	**33/22**	**0.7**	309.6	36/26	0.7	316.5	39/29
34		22/		243.3	27/21	12.6	**306.2**	**33/23**	**0.7**	313.2	35/26	0.7	320.3	38/30
32		22/		243.2	28/22	13.3	**309.7**	**33/24**	**0.7**	316.7	36/27	0.7	323.8	39/30
30		23/		242.3	28/23	14.2	**313.4**	**34/24**	**0.7**	320.6	37/28	0.7	327.8	39/31
28		23/		245.6	29/23	13.7	**314.3**	**34/24**	**0.7**	321.5	37/28	0.7	328.7	40/31
26		23/		249.0	29/23	13.2	**315.1**	**35/25**	**0.7**	322.3	37/28	0.7	329.6	40/32
24		24/		252.5	29/23	12.7	**316.0**	**35/25**	**0.7**	323.2	37/29	0.7	330.4	40/32
22		24/		256.1	29/23	12.1	**316.8**	**35/25**	**0.7**	324.1	38/29	0.7	331.3	40/32
20		24/		259.7	30/23	11.6	**317.7**	**35/25**	**0.7**	325.0	38/29	0.7	332.2	41/32
18		24/		263.3	30/23	11.1	**318.6**	**36/26**	**0.7**	325.9	38/29	0.7	333.1	41/33
16		25/		267.3	30/23	10.4	**319.5**	**36/26**	**0.7**	326.8	39/30	0.7	334.0	41/33
14	203.2	25/23	13.6	271.3	31/23	9.8	**320.4**	**36/26**	**0.7**	327.7	39/30	0.7	334.9	41/33
12	206.6	25/23	13.8	275.4	31/23	9.2	**321.3**	**36/26**	**0.7**	328.6	39/30	0.7	335.8	42/34
10	210.1	25/23	13.9	279.5	31/23	8.5	**322.2**	**37/27**	**0.7**	329.6	39/30	0.7	336.7	42/34
8	213.7	26/23	14.0	283.8	31/23	7.9	**323.2**	**37/27**	**0.7**	330.5	40/31	0.7	337.7	42/34
6	217.4	26/23	14.1	288.1	32/23	7.2	**324.1**	**37/27**	**0.7**	331.4	40/31	0.7	338.7	43/34
4	221.1	26/23	14.3	292.4	32/23	6.5	**325.0**	**38/27**	**0.7**	332.4	40/31	0.7	339.7	43/35
2	224.9	27/23	14.4	296.9	32/23	5.8	**326.0**	**38/28**	**0.7**	333.3	41/31	0.7	340.6	43/35
0	228.8	27/23	14.5	301.1	32/23	5.2	**327.0**	**38/28**	**0.7**	334.3	41/32	0.7	341.6	43/35

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **NEW ORLEANS**

A/D Elev **4ft** **INTL (KMSY)**

F/L (TWY S) RWY 29

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.03% UP
TOR	3079m (10101ft)	**ED**	3079m (10101ft)	**TOD**	3079m (10101ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	262.4	28/17	1.7	271.1	34/23	1.5	**278.8**	**39/29**	**0.5**	283.4	42/32	0.5	288.0	44/35
66	271.3	31/19	1.9	280.6	36/24	1.8	**289.7**	**41/30**	**0.5**	294.5	44/33	0.5	299.5	46/36
62	281.8	33/21	1.9	291.5	38/27	1.9	**301.0**	**44/33**	**0.6**	306.6	46/36	0.5	311.9	48/39
58	291.3	34/23	2.1	301.7	39/29	2.0	**311.7**	**44/35**	**0.6**	317.6	46/38	0.6	323.6	49/41
54	299.1	35/25	2.1	309.8	40/31	2.2	**320.9**	**45/37**	**0.6**	327.0	47/40	0.6	333.1	49/43
52	303.0	36/24	2.2	313.8	41/30	2.3	**325.1**	**46/36**	**0.6**	331.2	48/39	0.6	337.3	50/42
50	306.3	35/25	2.2	317.3	40/31	2.4	**329.3**	**45/37**	**0.6**	335.5	47/40	0.6	341.7	50/43
48	310.3	36/26	2.2	321.4	41/32	2.4	**333.4**	**46/38**	**0.6**	339.8	48/41	0.6	345.9	51/44
46	314.1	37/27	2.3	325.4	42/32	2.4	**337.5**	**47/38**	**0.6**	343.8	49/42	0.6	350.1	51/45
44	317.9	37/27	2.3	329.4	43/33	2.4	**341.4**	**48/39**	**0.6**	347.8	50/42	0.6	354.2	52/46
42	321.3	37/28	2.3	333.0	42/34	2.5	**345.3**	**47/40**	**0.7**	351.9	49/43	0.7	358.5	51/46
40	325.3	38/29	2.3	337.0	43/35	2.5	**349.6**	**48/41**	**0.7**	356.2	50/44	0.7	362.9	52/47
38	329.5	38/30	2.3	341.2	44/35	2.5	**353.8**	**48/42**	**0.7**	360.7	51/45	0.7	367.6	53/48
36	333.5	39/30	2.4	345.3	44/36	2.6	**358.3**	**49/42**	**0.7**	365.3	52/46	0.7	372.3	54/49
34	337.4	38/31	2.4	349.4	44/37	2.6	**362.5**	**49/43**	**0.7**	369.7	51/46	0.7	376.8	53/50
32	341.1	39/32	2.4	353.2	44/38	2.7	**366.5**	**49/44**	**0.7**	373.8	52/47	0.7	381.1	54/50
30	345.1	40/32	2.5	357.4	45/38	2.7	**371.1**	**50/45**	**0.7**	378.5	52/48	0.7	385.8	55/51
28	346.0	40/33	2.5	358.3	45/39	2.8	**372.1**	**50/45**	**0.8**	379.6	53/48	0.7	386.9	55/52
26	346.9	40/33	2.5	359.3	46/39	2.8	**373.1**	**51/45**	**0.8**	380.6	53/48	0.8	388.7	55/52
24	347.8	41/33	2.5	360.2	46/39	2.8	**374.1**	**51/45**	**0.8**	381.7	53/49	0.9	390.5	55/52
22	348.7	41/33	2.5	361.2	46/39	2.8	**375.2**	**51/46**	**0.8**	382.7	53/49	1.0	392.3	55/52
20	349.6	41/34	2.5	362.2	46/40	2.8	**376.2**	**51/46**	**0.8**	383.8	54/49	1.0	394.2	55/52
18	350.6	41/34	2.5	363.2	47/40	2.8	**377.3**	**52/46**	**0.8**	384.8	54/49	1.1	396.0	55/52
16	351.5	42/34	2.5	364.2	47/40	2.8	**378.4**	**52/47**	**0.8**	385.9	54/50	1.1	397.1	56/52
14	352.5	42/34	2.5	365.2	47/40	2.9	**379.5**	**52/47**	**0.8**	387.2	54/50	1.1	398.2	56/53
12	353.5	42/35	2.6	366.3	47/41	2.9	**380.6**	**53/47**	**0.9**	389.1	55/50	1.0	399.2	56/53
10	354.4	42/35	2.6	367.3	48/41	2.9	**381.7**	**53/47**	**0.9**	391.0	55/50	0.9	400.3	56/53
8	355.4	43/35	2.6	368.4	48/41	2.9	**382.8**	**53/48**	**1.0**	393.0	55/50	0.8	401.4	57/53
6	356.5	43/35	2.6	369.5	48/42	2.9	**383.9**	**53/48**	**1.1**	394.9	55/50	0.8	402.5	57/54
4	357.5	43/36	2.6	370.6	49/42	2.9	**385.1**	**54/48**	**1.1**	396.5	55/51	0.7	403.7	57/54
2	358.6	44/36	2.6	371.7	49/42	2.9	**386.3**	**54/48**	**1.1**	397.7	55/51	0.7	404.8	58/54
0	359.6	44/36	2.7	372.9	49/42	3.0	**387.8**	**54/49**	**1.1**	398.8	56/51	0.7	406.0	58/55

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400** LANDING DATA **OAKLAND (KOAK)**

A/D Elev **9ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	12	30		
Landing Distance Available	3048m/10000ft	3048m/10000ft		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)		8kt (2kt)		
25F Slippery Zero HW wt or TW (Manual)	257.6	257.6		
25F Slippery Zero HW wt or TW (Autoland)		257.6		
30F Zero HW wt or TW (Manual)	14kt (9kt)	14kt (9kt)		
30F Zero HW wt or TW (Autoland)		14kt (9kt)		
30F Slippery Zero HW wt or TW (Manual)	280.6	280.6		
30F Slippery Zero HW wt or TW (Autoland)		280.6		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ONTARIO (KONT)**

A/D Elev **944ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	08L	08R	26L	26R
Landing Distance Available	3414m / 11201ft	3109m / 10200ft	3109m / 10200ft	3719m / 12201ft
Slope	.11DN	.11DN	.11UP	.11UP
Notes	Notes 1,4	Notes 2,4	Notes 3,4	Notes 3,4
WAT LIMIT °C : Man / Auto	52°	52°	52°	52°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (8kt)	9kt (3kt)	9kt (3kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	251.0	251.0	2kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (8kt)	9kt (3kt)	9kt (3kt)	15kt (13kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	276.0	276.0	2kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS 08L:** Glideslope gives only 22ft wheel height at displaced threshold.
2. **ILS SIDE-STEP Rwy 08R:** Based on an ILS Rwy 08L approach with a side-step manoeuvre to land on Rwy 08R.
3. **ILS SIDE-STEP Rwy 26L/R:** Based on an ILS approach to the other Rwy 26L/R with a side-step manoeuvre to land on intended Rwy 26L/R.
4. **WARNING**: Terrain located NORTH WEST and NORTH EAST clockwise through EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHICAGO**

A/D Elev **672ft** Max wt Permitted (For pre flt planning) **285,760kg** **O'HARE (KORD)**

RUNWAY	04L	04R	09L	09R
Landing Distance Available	2286m / 7500ft	2460m / 8071ft	2286m / 7500ft	2349m / 7707ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53°/53°	53°
25F Zero HW wt or TW (Manual)	252.0 (228.2)	271.2 (246.2)	252.0 (228.2)	259.8 (232.6)
25F Zero HW wt or TW (Autoland)			252.0 (228.2)	
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	202.3	NOT AUTH	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)			NOT AUTH	
30F Zero HW wt or TW (Manual)	268.4 (246.2)	0kt (267.1)	268.4 (246.2)	276.9 (253.1)
30F Zero HW wt or TW (Autoland)			268.4 (246.2)	
30F Slippery Zero HW wt or TW (Manual)	206.5	222.8	206.5	212.6
30F Slippery Zero HW wt or TW (Autoland)			206.5	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHICAGO O'HARE (KORD)**

A/D Elev **672ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**10L**	**10C**		**14R**
Landing Distance Available	3731m / 12246ft	3213m / 10540ft		2636m / 8650ft
	.			
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°/53°		53°/53°
25F Zero HW wt or TW (Manual)	15kt (13kt)	10kt (4kt)		0kt (262.8)
25F Zero HW wt or TW (Autoland)	15kt (13kt)	10kt (4kt)		0kt (262.8)
25F Slippery Zero HW wt or TW (Manual)	2kt	269.2		217.6
25F Slippery Zero HW wt or TW (Autoland)	2kt	269.2		217.6
30F Zero HW wt or TW (Manual)	15kt	15kt (11kt)		4kt (284.4)
30F Zero HW wt or TW (Autoland)	15kt	15kt (11kt)		4kt (284.4)
30F Slippery Zero HW wt or TW (Manual)	5kt	0kt		238.9
30F Slippery Zero HW wt or TW (Autoland)	5kt	0kt		238.9
Red'n per extra kt TW kg	5300kg	5300kg		5300kg
Inc per kt HW kg		750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHICAGO**

A/D Elev **672ft** Max wt Permitted (For pre flt planning) **285,760kg** **O'HARE (KORD)**

RUNWAY	22L	22R	27L	27R
Landing Distance Available	2460m / 8071ft	2286m / 7500ft	2372m / 7782ft	2286m / 7500ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ º above Max Temp	53°	53°/53°	53°/53°	53°/53°
25F Zero HW wt or TW (Manual)	271.2 (246.2)	252.0 (228.2)	262.5 (234.8)	252.0 (228.2)
25F Zero HW wt or TW (Autoland)		252.0 (228.2)	262.5 (234.8)	252.0 (228.2)
25F Slippery Zero HW wt or TW (Manual)	202.3	NOT AUTH	NOT AUTH	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)		NOT AUTH	NOT AUTH	NOT AUTH
30F Zero HW wt or TW (Manual)	0kt (267.1)	268.4 (246.2)	0kt (255.9)	268.4 (246.2)
30F Zero HW wt or TW (Autoland)		268.4 (246.2)	0kt (255.9)	268.4 (246.2)
30F Slippery Zero HW wt or TW (Manual)	222.8	206.5	214.8	206.5
30F Slippery Zero HW wt or TW (Autoland)		206.5	214.8	206.5
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHICAGO O'HARE (KORD)**

A/D Elev **672ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**28C**	**28R**		
Landing Distance Available	3292m / 10800ft	3962m / 13000ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°		
25F Zero HW wt or TW (Manual)	12kt (6kt)	15kt (15kt)		
25F Zero HW wt or TW (Autoland)	12kt (6kt)	15kt (15kt)		
25F Slippery Zero HW wt or TW (Manual)	275.6	5kt		
25F Slippery Zero HW wt or TW (Autoland)	275.6	5kt		
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (15kt)		
30F Zero HW wt or TW (Autoland)	15kt (12kt)	15kt (15kt)		
30F Slippery Zero HW wt or TW (Manual)	1kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)	1kt	5kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY H1 (F/L) RWY 04L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.107% DN
TOR	2286m (7500ft)	**ED**	2286m (7500ft)	**TOD**	2286m (7500ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	222.1	14/11	1.7	230.4	19/11	1.8	**239.2**	**24/12**	**0.5**	244.3	27/15	0.6	249.8	30/18
66	224.1	15/11	2.9	238.4	20/11	1.8	**247.5**	**26/13**	**0.5**	252.7	28/16	0.6	258.2	31/19
62	224.1	17/11	4.7	247.6	22/11	1.8	**256.8**	**28/15**	**0.5**	262.2	31/19	0.6	267.9	34/22
58	224.1	18/11	6.4	256.2	24/11	1.9	**265.7**	**30/18**	**0.6**	271.4	32/21	0.6	277.3	35/24
54	224.1	19/11	7.9	263.5	25/13	2.0	**273.3**	**31/19**	**0.6**	279.2	33/23	0.6	285.4	36/26
52	223.5	20/11	8.7	266.9	26/12	2.0	**276.9**	**31/19**	**0.6**	282.8	34/22	0.6	289.2	36/25
50	222.5	21/12	9.6	270.5	27/13	2.0	**280.6**	**32/19**	**0.6**	286.7	35/23	0.6	293.1	37/26
48	221.6	21/13	10.5	273.9	26/14	2.1	**284.2**	**32/20**	**0.6**	290.4	34/23	0.7	296.9	37/27
46	220.7	21/14	11.3	277.3	27/14	2.1	**287.8**	**32/21**	**0.6**	294.0	35/24	0.7	300.6	37/27
44	219.7	22/15	12.2	280.6	28/15	2.1	**291.2**	**33/21**	**0.6**	297.5	36/25	0.7	304.2	38/28
42	218.6	23/16	13.1	284.0	28/16	2.2	**294.8**	**34/22**	**0.6**	301.2	36/25	0.7	308.0	39/29
40	217.6	22/17	13.4	284.8	28/17	2.6	**298.0**	**33/23**	**0.7**	304.6	36/26	0.7	311.5	38/30
38	216.6	23/18	13.4	283.6	28/18	3.6	**301.8**	**34/24**	**0.7**	308.5	37/27	0.7	315.5	39/30
36	215.6	24/19	13.4	282.4	29/19	4.6	**305.6**	**35/24**	**0.7**	312.4	37/28	0.7	319.6	40/31
34	214.7	25/20	13.3	281.3	30/20	5.6	**309.4**	**36/25**	**0.7**	316.2	38/28	0.7	323.4	41/32
32	214.7	24/21	13.3	281.2	29/21	6.3	**312.8**	**35/26**	**0.7**	319.8	37/29	0.7	327.0	40/33
30	213.9	25/22	13.3	280.2	30/22	7.3	**316.6**	**35/26**	**0.7**	323.7	38/30	0.7	331.0	41/33
28	215.1	25/22	13.3	281.8	31/23	7.5	**319.5**	**36/27**	**0.7**	326.5	39/30	0.7	333.8	41/34
26	217.3	25/22	13.4	284.5	31/23	7.2	**320.4**	**36/27**	**0.7**	327.4	39/31	0.7	334.7	42/34
24	220.3	26/22	13.6	288.3	31/23	6.6	**321.2**	**37/27**	**0.7**	328.3	39/31	0.7	335.6	42/34
22	223.4	26/22	13.8	292.2	31/23	6.0	**322.1**	**37/28**	**0.7**	329.2	40/31	0.7	336.5	42/35
20	226.6	26/22	13.9	296.1	32/22	5.4	**323.0**	**37/28**	**0.7**	330.1	40/31	0.7	337.4	42/35
18	229.9	26/22	14.0	300.1	32/22	4.7	**323.8**	**37/28**	**0.7**	331.0	40/32	0.7	338.3	43/35
16	233.3	27/22	14.0	303.4	32/22	4.3	**324.7**	**38/28**	**0.7**	331.9	40/32	0.7	339.2	43/35
14	236.7	27/22	14.0	306.7	32/22	3.8	**325.6**	**38/29**	**0.7**	332.8	41/32	0.7	340.2	43/36
12	240.3	27/22	14.0	310.1	33/22	3.3	**326.6**	**38/29**	**0.7**	333.7	41/32	0.7	341.1	43/36
10	244.2	28/22	14.2	315.0	33/22	2.5	**327.5**	**39/29**	**0.7**	334.6	41/33	0.7	342.0	44/36
8	248.1	28/22	13.6	315.9	33/23	2.5	**328.5**	**39/29**	**0.7**	335.6	41/33	0.7	342.9	44/36
6	252.1	28/22	13.0	316.9	33/23	2.5	**329.4**	**39/30**	**0.7**	336.5	42/33	0.7	343.9	44/37
4	256.1	28/22	12.3	317.8	34/23	2.5	**330.4**	**39/30**	**0.7**	337.5	42/33	0.7	344.9	45/37
2	260.2	29/22	11.7	318.8	34/23	2.5	**331.3**	**40/30**	**0.7**	338.5	42/34	0.7	345.8	45/37
0	264.4	29/22	11.1	319.7	34/24	2.5	**332.3**	**40/31**	**0.7**	339.5	43/34	0.7	346.8	45/37

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY Y1 (F/L) RWY 04R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.087% DN
TOR	2461m (8074ft)	**ED**	2461m (8074ft)	**TOD**	2461m (8074ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	230.2	17/11	1.8	239.0	23/11	1.7	**247.5**	**28/16**	**0.5**	252.6	30/19	0.5	257.9	33/22
66	238.1	18/11	1.8	247.3	24/11	1.7	**255.9**	**29/17**	**0.5**	261.2	32/20	0.5	266.6	34/23
62	247.3	20/11	1.9	256.7	26/13	1.8	**265.5**	**32/19**	**0.6**	271.1	35/22	0.6	276.8	37/26
58	256.0	22/11	1.9	265.5	28/15	1.9	**274.8**	**33/22**	**0.6**	280.7	36/25	0.6	286.7	38/28
54	263.3	23/11	2.0	273.2	28/17	1.9	**282.8**	**34/23**	**0.6**	288.9	36/26	0.6	295.1	39/30
52	266.6	24/11	2.0	276.7	29/16	2.0	**286.5**	**35/22**	**0.6**	292.6	37/25	0.6	299.0	40/29
50	269.6	25/12	2.2	280.5	30/17	2.0	**290.4**	**35/23**	**0.6**	296.6	38/26	0.6	303.0	40/30
48	268.5	24/13	2.9	283.2	30/18	2.2	**294.1**	**35/24**	**0.6**	300.5	37/27	0.7	307.0	40/30
46	267.4	25/14	3.9	286.7	30/18	2.2	**297.8**	**36/25**	**0.6**	304.2	38/28	0.7	310.8	41/31
44	266.2	26/15	4.8	290.2	31/19	2.2	**301.4**	**36/25**	**0.7**	307.9	39/28	0.7	314.6	41/32
42	265.0	26/16	5.7	293.7	32/20	2.3	**305.1**	**37/26**	**0.7**	311.7	40/29	0.7	318.5	42/33
40	263.8	26/17	6.5	296.5	31/20	2.4	**308.6**	**36/27**	**0.7**	315.3	39/30	0.7	322.2	41/34
38	262.6	27/18	7.5	300.2	32/21	2.5	**312.5**	**37/28**	**0.7**	319.3	40/31	0.7	326.2	42/34
36	261.5	27/19	8.5	304.0	33/22	2.5	**316.5**	**38/28**	**0.7**	323.4	41/32	0.7	330.4	43/35
34	260.4	28/20	9.5	307.7	34/23	2.5	**320.4**	**39/29**	**0.7**	327.3	41/32	0.7	334.2	44/36
32	260.3	27/21	10.2	311.1	33/23	2.6	**323.9**	**38/30**	**0.7**	330.9	41/33	0.7	337.9	43/37
30	259.4	28/22	11.1	315.0	34/24	2.6	**327.9**	**39/30**	**0.7**	334.8	41/34	0.7	341.9	44/37
28	260.9	29/22	11.4	317.8	34/24	2.6	**330.8**	**39/31**	**0.7**	337.7	42/34	0.7	344.8	44/38
26	263.4	29/22	11.1	318.7	34/25	2.6	**331.6**	**40/31**	**0.7**	338.6	42/35	0.7	345.7	45/38
24	267.0	29/22	10.5	319.6	35/25	2.6	**332.5**	**40/32**	**0.7**	339.5	42/35	0.7	346.6	45/38
22	270.7	29/23	9.9	320.4	35/25	2.6	**333.3**	**40/32**	**0.7**	340.4	43/35	0.7	347.5	45/39
20	274.4	30/22	9.4	321.3	35/25	2.6	**334.2**	**40/32**	**0.7**	341.3	43/35	0.7	348.4	45/39
18	278.2	30/22	8.8	322.2	36/26	2.6	**335.1**	**41/32**	**0.7**	342.2	43/36	0.7	349.4	46/39
16	282.1	30/22	8.2	323.1	36/26	2.6	**336.0**	**41/33**	**0.7**	343.1	43/36	0.7	350.3	46/39
14	286.2	30/22	7.6	324.0	36/26	2.6	**337.0**	**41/33**	**0.7**	344.0	44/36	0.7	351.3	46/40
12	290.4	31/22	6.9	324.9	36/26	2.6	**337.9**	**42/33**	**0.7**	345.0	44/36	0.7	352.2	47/40
10	294.7	31/22	6.2	325.8	37/27	2.6	**338.9**	**42/33**	**0.7**	345.9	44/37	0.7	353.2	47/40
8	299.0	31/22	5.5	326.7	37/27	2.6	**339.8**	**42/34**	**0.7**	346.9	45/37	0.7	354.2	47/40
6	302.6	32/22	5.0	327.7	37/27	2.6	**340.8**	**42/34**	**0.7**	347.9	45/37	0.7	355.2	47/41
4	306.1	32/22	4.5	328.7	37/27	2.6	**341.7**	**43/34**	**0.7**	348.9	45/37	0.7	356.2	48/41
2	309.6	32/22	4.0	329.6	38/28	2.6	**342.7**	**43/34**	**0.7**	349.9	45/38	0.7	357.3	48/41
0	313.1	32/22	3.5	330.6	38/28	2.6	**343.7**	**43/35**	**0.7**	350.9	46/38	0.7	358.3	48/42

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY Z (F/L) RWY 09L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.053% DN
TOR	2286m (7500ft)	**ED**	2286m (7500ft)	**TOD**	2286m (7500ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	221.9	14/11	1.7	230.2	19/11	1.7	**238.9**	**24/12**	**0.5**	244.1	27/15	0.6	249.6	30/18
66	224.5	15/11	2.7	238.1	20/11	1.8	**247.2**	**26/13**	**0.5**	252.5	28/16	0.6	258.0	31/20
62	224.5	17/11	4.6	247.3	22/11	1.9	**256.6**	**28/15**	**0.5**	262.0	31/19	0.6	267.7	34/22
58	224.5	18/11	6.3	256.0	24/11	1.9	**265.5**	**30/18**	**0.6**	271.1	32/21	0.6	277.1	35/24
54	224.5	19/11	7.8	263.3	25/13	2.0	**273.1**	**31/19**	**0.6**	279.0	33/23	0.6	285.2	36/26
52	224.0	20/11	8.5	266.6	26/12	2.0	**276.6**	**31/19**	**0.6**	282.6	34/22	0.6	288.9	36/25
50	222.9	21/12	9.5	270.2	27/13	2.0	**280.4**	**32/19**	**0.6**	286.4	35/23	0.6	292.8	37/26
48	222.0	21/13	10.3	273.6	26/14	2.1	**283.9**	**32/20**	**0.6**	290.1	34/23	0.7	296.6	37/27
46	221.1	21/14	11.2	277.0	27/14	2.1	**287.5**	**32/21**	**0.6**	293.7	35/24	0.7	300.3	38/27
44	220.1	22/15	12.0	280.3	28/15	2.1	**290.9**	**33/21**	**0.6**	297.2	36/25	0.7	303.9	38/28
42	219.0	23/16	12.9	283.7	28/16	2.2	**294.5**	**34/22**	**0.6**	300.9	37/25	0.7	307.7	39/29
40	218.0	22/17	13.5	285.3	28/17	2.5	**297.8**	**33/23**	**0.7**	304.4	36/26	0.7	311.3	38/30
38	217.0	23/18	13.4	284.1	29/18	3.5	**301.6**	**34/24**	**0.7**	308.3	37/27	0.7	315.3	39/30
36	216.0	24/19	13.4	282.9	29/19	4.5	**305.4**	**35/24**	**0.7**	312.3	37/28	0.7	319.4	40/31
34	215.1	25/20	13.3	281.7	30/20	5.5	**309.2**	**36/25**	**0.7**	316.0	38/28	0.7	323.2	41/32
32	215.1	24/21	13.3	281.7	29/21	6.2	**312.5**	**35/26**	**0.7**	319.6	37/29	0.7	326.7	40/33
30	214.3	25/22	13.3	280.7	30/22	7.1	**316.4**	**36/26**	**0.7**	323.5	38/30	0.7	330.8	41/33
28	215.5	25/22	13.4	282.3	31/23	7.4	**319.3**	**36/27**	**0.7**	326.3	39/30	0.7	333.6	41/34
26	217.7	25/22	13.4	284.9	31/23	7.1	**320.2**	**36/27**	**0.7**	327.2	39/31	0.7	334.5	42/34
24	220.7	26/22	13.6	288.7	31/23	6.5	**321.0**	**37/27**	**0.7**	328.1	39/31	0.7	335.4	42/34
22	223.9	26/22	13.7	292.6	31/23	5.9	**321.9**	**37/28**	**0.7**	329.0	40/31	0.7	336.2	42/35
20	227.0	26/22	13.9	296.6	32/22	5.2	**322.7**	**37/28**	**0.7**	329.9	40/31	0.7	337.2	42/35
18	230.3	27/22	14.0	300.5	32/22	4.6	**323.6**	**37/28**	**0.7**	330.8	40/32	0.7	338.1	43/35
16	233.7	27/22	14.0	303.8	32/22	4.1	**324.5**	**38/28**	**0.7**	331.7	40/32	0.7	339.0	43/35
14	237.2	27/22	14.0	307.1	32/22	3.7	**325.4**	**38/29**	**0.7**	332.6	41/32	0.7	340.0	43/36
12	240.8	27/22	13.9	310.5	33/23	3.2	**326.4**	**38/29**	**0.7**	333.5	41/32	0.7	340.9	43/36
10	244.6	28/22	14.0	314.8	33/22	2.5	**327.3**	**39/29**	**0.7**	334.4	41/33	0.7	341.8	44/36
8	248.5	28/22	13.4	315.7	33/23	2.5	**328.2**	**39/30**	**0.7**	335.4	41/33	0.7	342.7	44/36
6	252.5	28/22	12.8	316.6	34/23	2.5	**329.2**	**39/30**	**0.7**	336.3	42/33	0.7	343.7	44/37
4	256.6	28/22	12.2	317.6	34/23	2.5	**330.2**	**39/30**	**0.7**	337.3	42/33	0.7	344.6	45/37
2	260.7	29/22	11.6	318.5	34/23	2.5	**331.1**	**40/30**	**0.7**	338.3	42/34	0.7	345.6	45/37
0	264.9	29/22	10.9	319.5	34/24	2.5	**332.0**	**40/31**	**0.7**	339.3	43/34	0.7	346.6	45/38

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY R (F/L) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.126% DN
TOR	2428m (7965ft)	**ED**	2349m (7706ft)	**TOD**	2428m (7965ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	228.8	15/11	1.7	237.5	20/11	1.7	**246.0**	**25/13**	**0.5**	251.3	28/16	0.5	256.5	30/19
66	236.7	16/11	1.8	245.8	21/11	1.7	**254.5**	**26/14**	**0.5**	259.8	29/17	0.5	265.2	32/20
62	240.6	18/11	2.9	255.1	23/11	1.8	**264.1**	**29/16**	**0.6**	269.6	32/20	0.6	275.3	34/23
58	240.6	19/11	4.6	263.6	24/12	1.9	**273.3**	**30/19**	**0.6**	279.1	33/22	0.6	285.1	35/25
54	240.6	20/11	6.0	270.6	26/14	2.1	**281.2**	**31/20**	**0.6**	287.2	33/23	0.6	293.3	36/27
52	240.0	21/11	6.8	274.0	26/13	2.2	**284.9**	**32/19**	**0.6**	290.9	34/23	0.6	297.1	37/26
50	238.9	22/12	7.8	277.8	27/14	2.2	**288.8**	**33/20**	**0.6**	294.9	35/23	0.6	301.2	38/27
48	237.9	21/13	8.5	280.6	27/15	2.2	**291.7**	**32/21**	**0.6**	297.9	35/24	0.6	304.2	37/28
46	236.9	22/14	9.4	284.0	27/15	2.3	**295.3**	**33/22**	**0.6**	301.6	35/25	0.7	308.1	38/28
44	235.9	23/15	10.3	287.4	28/16	2.3	**298.9**	**34/22**	**0.6**	305.2	36/26	0.7	311.8	39/29
42	234.8	24/16	11.2	291.0	29/17	2.3	**302.6**	**34/23**	**0.6**	309.0	37/26	0.7	315.7	39/30
40	233.6	23/17	12.0	293.6	28/18	2.4	**305.5**	**34/24**	**0.7**	312.2	36/27	0.7	319.1	39/31
38	232.6	24/18	12.9	297.3	29/18	2.4	**309.5**	**34/25**	**0.7**	316.2	37/28	0.7	323.2	40/31
36	231.6	25/19	13.8	300.5	30/19	2.6	**313.4**	**35/25**	**0.7**	320.3	38/29	0.7	327.3	40/32
34	230.6	25/20	13.8	299.4	31/20	3.6	**317.2**	**36/26**	**0.7**	324.1	39/29	0.7	331.2	41/33
32	230.6	25/21	13.7	299.3	30/21	4.3	**320.7**	**35/27**	**0.7**	327.7	38/30	0.7	334.7	40/34
30	229.7	25/22	13.7	298.3	31/22	5.3	**324.6**	**36/27**	**0.7**	331.7	39/31	0.7	338.8	41/34
28	231.1	26/22	13.8	299.9	31/23	5.5	**327.5**	**37/28**	**0.7**	334.5	39/31	0.7	341.7	42/35
26	233.3	26/22	13.8	302.2	31/23	5.2	**328.4**	**37/28**	**0.7**	335.4	39/32	0.7	342.6	42/35
24	236.6	26/22	13.7	305.3	32/23	4.8	**329.3**	**37/29**	**0.7**	336.3	40/32	0.7	343.4	42/35
22	239.9	27/22	13.7	308.5	32/23	4.3	**330.2**	**37/29**	**0.7**	337.2	40/32	0.7	344.3	42/36
20	243.3	27/22	15.0	318.2	32/22	2.6	**331.1**	**38/29**	**0.7**	338.1	40/32	0.7	345.2	43/36
18	246.7	27/22	14.5	319.1	32/23	2.6	**332.0**	**38/29**	**0.7**	339.0	40/33	0.7	346.2	43/36
16	250.3	27/22	13.9	320.0	33/23	2.6	**332.9**	**38/30**	**0.7**	340.0	41/33	0.7	347.1	43/36
14	254.0	28/22	13.4	320.9	33/23	2.6	**333.8**	**38/30**	**0.7**	340.9	41/33	0.7	348.1	44/37
12	257.8	28/22	12.8	321.8	33/23	2.6	**334.7**	**39/30**	**0.7**	341.8	41/33	0.7	349.0	44/37
10	261.8	28/22	12.2	322.7	34/24	2.6	**335.6**	**39/30**	**0.7**	342.7	42/34	0.7	350.0	44/37
8	265.9	28/22	11.5	323.6	34/24	2.6	**336.6**	**39/31**	**0.7**	343.7	42/34	0.7	351.0	44/37
6	270.0	29/22	10.9	324.5	34/24	2.6	**337.5**	**40/31**	**0.7**	344.6	42/34	0.7	352.0	45/38
4	274.2	29/22	10.3	325.5	34/24	2.6	**338.5**	**40/31**	**0.7**	345.6	42/34	0.7	353.0	45/38
2	278.5	29/22	9.6	326.4	35/25	2.6	**339.5**	**40/31**	**0.7**	346.6	43/35	0.7	354.0	45/38
0	282.8	30/22	8.9	327.4	35/25	2.6	**340.5**	**40/32**	**0.7**	347.6	43/35	0.7	355.0	45/39

P/C above 1013 + 0.1
P/C below 1013 - 1.0

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY AA (F/L) RWY 10C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.185% DN
TOR	3292m (10800ft)	**ED**	3213m (10541ft)	**TOD**	3292m (10800ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.1	29/18	1.8	273.9	35/23	1.7	**282.3**	**40/29**	**0.5**	287.5	42/32	0.4	291.9	45/35
66	273.5	30/19	1.9	283.1	35/25	1.8	**292.3**	**40/30**	**0.5**	297.6	43/33	0.6	303.3	45/36
62	284.1	33/22	2.0	294.1	38/27	1.9	**303.7**	**43/33**	**0.6**	309.3	45/36	0.6	315.1	47/39
58	293.4	34/24	2.0	303.6	38/29	2.2	**314.4**	**43/35**	**0.6**	320.3	46/38	0.6	326.2	48/41
54	301.3	34/26	2.1	311.9	39/31	2.2	**323.0**	**44/37**	**0.6**	329.2	47/40	0.6	335.1	49/43
52	305.3	35/25	2.1	315.9	40/30	2.3	**327.3**	**45/36**	**0.6**	333.4	47/39	0.6	339.4	49/42
50	309.5	36/25	2.2	320.3	41/31	2.3	**331.7**	**46/37**	**0.6**	337.8	48/40	0.6	343.8	50/43
48	312.7	36/26	2.2	323.7	41/32	2.3	**335.3**	**45/38**	**0.6**	341.6	48/41	0.6	347.8	50/44
46	316.6	36/27	2.2	327.8	41/33	2.3	**339.4**	**46/39**	**0.6**	345.7	49/42	0.6	352.0	51/45
44	320.5	37/28	2.2	331.7	42/34	2.3	**343.3**	**47/39**	**0.6**	349.7	49/42	0.7	356.2	52/46
42	324.4	38/29	2.3	335.7	43/34	2.3	**347.4**	**48/40**	**0.7**	353.9	50/43	0.7	360.6	52/47
40	328.1	37/29	2.3	339.6	42/35	2.4	**351.6**	**47/41**	**0.7**	358.3	49/44	0.7	365.1	51/47
38	332.2	38/30	2.3	343.7	43/36	2.5	**356.0**	**48/42**	**0.7**	362.8	50/45	0.7	369.9	52/48
36	336.3	39/31	2.3	347.9	44/37	2.5	**360.5**	**49/43**	**0.7**	367.5	51/46	0.7	374.6	53/49
34	340.3	39/32	2.3	352.0	44/37	2.6	**364.8**	**49/44**	**0.7**	372.0	52/47	0.7	379.2	54/50
32	343.9	39/32	2.4	355.9	44/38	2.6	**369.0**	**49/44**	**0.7**	376.2	51/47	0.7	383.5	53/51
30	348.0	39/33	2.4	360.2	44/39	2.7	**373.6**	**49/45**	**0.7**	381.0	52/48	0.8	389.3	54/51
28	351.0	40/34	2.5	363.4	45/39	2.7	**377.0**	**50/46**	**0.7**	384.4	52/49	1.1	395.2	54/51
26	351.9	40/34	2.5	364.4	45/40	2.7	**378.0**	**50/46**	**0.7**	385.4	53/49	1.1	396.6	54/52
24	352.8	40/34	2.5	365.4	45/40	2.7	**379.1**	**51/46**	**0.7**	386.5	53/49	1.1	397.6	54/52
22	353.8	41/34	2.5	366.4	46/40	2.7	**380.1**	**51/46**	**0.8**	388.0	53/49	1.1	398.6	54/52
20	354.7	41/34	2.5	367.4	46/40	2.8	**381.2**	**51/47**	**0.9**	389.9	53/49	1.0	399.7	55/52
18	355.7	41/35	2.5	368.4	46/41	2.8	**382.2**	**51/47**	**1.0**	391.7	53/50	0.9	400.7	55/53
16	356.6	41/35	2.6	369.5	47/41	2.8	**383.3**	**52/47**	**1.0**	393.6	53/50	0.8	401.8	55/53
14	357.6	42/35	2.6	370.5	47/41	2.8	**384.4**	**52/47**	**1.1**	395.5	53/50	0.7	402.8	55/53
12	358.6	42/36	2.6	371.6	47/41	2.8	**385.5**	**52/48**	**1.1**	396.8	54/50	0.7	403.9	56/53
10	359.7	42/36	2.6	372.7	47/42	2.8	**386.7**	**52/48**	**1.1**	397.9	54/50	0.7	405.0	56/54
8	360.7	43/36	2.6	373.8	48/42	2.9	**388.4**	**53/48**	**1.1**	399.0	54/51	0.7	406.1	56/54
6	361.7	43/36	2.6	374.9	48/42	3.1	**390.3**	**53/48**	**1.0**	400.1	54/51	0.7	407.3	57/54
4	362.8	43/37	2.6	376.0	48/43	3.3	**392.3**	**53/48**	**0.9**	401.2	55/51	0.7	408.4	57/55
2	363.9	43/37	2.7	377.2	48/43	3.4	**394.3**	**53/48**	**0.8**	402.3	55/51	0.7	409.6	57/55
0	364.9	44/37	2.7	378.3	49/43	3.6	**396.2**	**53/49**	**0.7**	403.4	55/52	0.7	410.7	58/55

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY AA (F/L) RWY 10L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.162% DN
TOR	3962m (12998ft)	**ED**	3962m (12998ft)	**TOD**	3962m (12998ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	286.8	40/30	1.0	291.9	46/35	0.0	**291.9**	**49/42**	**0.0**	291.9	49/46	0.0	291.9	49/49
66	298.3	40/31	1.6	306.1	45/36	0.4	**308.0**	**51/43**	**0.0**	308.0	53/46	0.0	308.0	53/50
62	310.1	43/34	1.8	319.3	47/39	1.0	**324.2**	**53/45**	**0.0**	324.2	56/49	0.0	324.2	57/52
58	320.0	43/36	2.1	330.3	47/41	1.8	**339.3**	**52/47**	**0.0**	339.5	56/51	0.0	339.5	59/54
54	328.8	44/38	2.1	339.2	48/43	2.1	**349.8**	**53/49**	**0.4**	353.7	56/52	0.0	353.7	59/56
52	333.0	45/37	2.1	343.5	49/42	2.2	**354.7**	**54/48**	**0.5**	359.9	56/51	0.0	360.2	60/55
50	337.4	46/38	2.1	348.0	50/43	2.3	**359.4**	**55/49**	**0.6**	365.3	57/52	0.1	366.7	60/55
48	341.3	45/39	2.2	352.2	50/44	2.4	**364.0**	**54/50**	**0.6**	370.4	57/53	0.3	372.9	59/56
46	345.4	46/40	2.2	356.5	50/45	2.4	**368.7**	**55/51**	**0.7**	375.3	57/53	0.4	379.2	60/57
44	349.4	47/40	2.3	360.8	51/46	2.5	**373.2**	**56/51**	**0.7**	380.0	58/54	0.5	385.4	61/57
42	353.6	47/41	2.3	365.3	52/47	2.5	**378.0**	**57/52**	**0.7**	384.8	59/55	0.7	391.5	61/58
40	357.9	46/42	2.4	370.0	51/48	2.6	**382.9**	**56/53**	**0.9**	391.7	58/56	0.6	397.6	60/58
38	362.5	47/43	2.5	374.8	52/48	2.7	**388.5**	**56/54**	**1.0**	398.4	58/56	0.6	404.6	60/59
36	367.1	48/44	2.5	379.7	53/49	3.4	**396.5**	**57/54**	**0.7**	403.2	59/57	0.7	409.9	61/60
34	371.6	49/44	2.5	384.2	53/50	3.4	**401.0**	**57/55**	**0.7**	407.7	60/58	0.7	414.4	62/61
32	375.9	48/45	2.8	390.0	52/50	3.0	**405.2**	**57/56**	**0.7**	412.0	59/58	0.7	418.8	61/61
30	380.7	49/46	3.3	397.2	53/51	2.6	**410.0**	**58/56**	**0.7**	416.8	60/59	0.7	423.6	62/62
28	384.1	49/46	3.3	400.6	53/51	2.6	**413.4**	**58/57**	**0.7**	420.3	60/60	0.7	427.1	62/63
26	385.2	50/47	3.3	401.6	54/52	2.6	**414.4**	**59/57**	**0.7**	421.3	61/60	0.7	428.2	63/63
24	386.2	50/47	3.3	402.6	54/52	2.6	**415.5**	**59/58**	**0.7**	422.4	61/60	0.7	429.3	63/63
22	387.6	50/47	3.2	403.7	54/52	2.6	**416.6**	**59/58**	**0.7**	423.5	61/61	0.7	430.4	63/64
20	389.4	50/47	3.1	404.7	54/52	2.6	**417.7**	**59/58**	**0.7**	424.5	61/61	0.7	431.5	64/64
18	391.2	50/47	2.9	405.8	55/53	2.6	**418.8**	**60/58**	**0.7**	425.6	62/61	0.7	432.6	64/64
16	393.1	51/47	2.8	406.9	55/53	2.6	**419.9**	**60/59**	**0.7**	426.8	62/61	0.7	433.7	64/64
14	395.0	51/48	2.6	408.0	55/53	2.6	**421.0**	**60/59**	**0.7**	427.9	62/62	0.7	434.8	64/65
12	396.5	51/48	2.5	409.1	55/53	2.6	**422.1**	**60/59**	**0.7**	429.1	63/62	0.7	435.9	65/65
10	397.6	51/48	2.5	410.2	56/54	2.6	**423.2**	**61/59**	**0.7**	430.2	63/62	0.7	436.8	65/65
8	398.7	51/48	2.5	411.3	56/54	2.6	**424.4**	**61/60**	**0.7**	431.4	63/63	0.6	437.2	65/66
6	399.8	52/49	2.5	412.4	56/54	2.6	**425.5**	**61/60**	**0.7**	432.5	63/63	0.5	437.2	66/66
4	400.9	52/49	2.5	413.6	57/55	2.6	**426.7**	**62/60**	**0.7**	433.6	64/63	0.4	437.2	67/67
2	402.0	52/49	2.5	414.7	57/55	2.6	**427.9**	**62/61**	**0.7**	434.6	64/64	0.3	437.2	67/67
0	403.2	52/49	2.5	415.9	57/55	2.6	**429.1**	**62/61**	**0.6**	435.5	64/64	0.2	437.2	68/68

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY T1 (F/L) RWY 15

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.124% DN
TOR	2952m (9685ft)	**ED**	2945m (9662ft)	**TOD**	2952m (9685ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	251.9	26/13	1.7	260.5	31/19	1.6	**268.6**	**37/25**	**0.5**	273.6	39/28	0.5	278.9	42/31
66	260.5	27/15	1.8	269.3	32/20	1.7	**277.9**	**37/26**	**0.5**	283.2	40/29	0.6	288.7	42/32
62	270.3	29/17	1.9	279.7	35/23	1.8	**288.8**	**40/29**	**0.6**	294.3	42/32	0.6	300.0	45/35
58	279.5	30/19	2.0	289.5	35/25	1.9	**299.1**	**41/31**	**0.6**	304.9	43/34	0.6	310.8	45/37
54	286.9	31/21	2.1	297.2	36/27	2.1	**307.9**	**41/33**	**0.6**	313.8	44/36	0.6	320.0	46/39
52	290.6	32/20	2.1	301.1	37/26	2.2	**311.9**	**42/32**	**0.6**	318.0	44/35	0.6	324.1	47/38
50	294.6	33/21	2.1	305.2	38/26	2.2	**316.2**	**43/33**	**0.6**	322.3	45/36	0.6	328.6	48/39
48	297.6	32/22	2.2	308.4	37/27	2.3	**320.0**	**42/34**	**0.6**	326.3	45/37	0.6	332.5	47/40
46	301.3	33/22	2.2	312.2	38/28	2.4	**324.0**	**43/34**	**0.6**	330.4	46/37	0.6	336.6	48/41
44	304.9	34/23	2.2	316.0	39/29	2.4	**327.9**	**44/35**	**0.6**	334.2	46/38	0.6	340.5	49/41
42	308.7	35/24	2.3	320.0	40/30	2.4	**331.9**	**45/36**	**0.6**	338.3	47/39	0.6	344.6	49/42
40	311.9	34/24	2.3	323.5	39/30	2.4	**335.7**	**44/37**	**0.7**	342.2	46/40	0.7	348.7	48/43
38	315.9	35/25	2.3	327.6	40/31	2.5	**339.9**	**45/37**	**0.7**	346.4	47/40	0.7	353.0	49/44
36	320.0	36/26	2.3	331.7	41/32	2.5	**344.0**	**46/38**	**0.7**	350.7	48/41	0.7	357.4	50/45
34	323.8	36/27	2.4	335.6	41/33	2.5	**348.0**	**46/39**	**0.7**	354.8	49/42	0.7	361.6	51/45
32	327.4	35/27	2.4	339.3	41/33	2.5	**351.8**	**46/40**	**0.7**	358.6	48/43	0.7	365.6	50/46
30	331.4	36/28	2.4	343.3	41/34	2.5	**356.0**	**46/40**	**0.7**	363.0	49/44	0.7	370.2	51/47
28	334.2	37/29	2.4	346.2	42/35	2.6	**359.1**	**47/41**	**0.7**	366.2	49/44	0.7	373.5	52/48
26	335.1	37/29	2.4	347.1	42/35	2.6	**360.1**	**47/41**	**0.7**	367.2	50/44	0.7	374.5	52/48
24	336.0	37/29	2.4	348.0	42/35	2.6	**361.0**	**48/42**	**0.7**	368.2	50/45	0.7	375.6	52/48
22	336.9	37/29	2.4	349.0	43/35	2.6	**362.0**	**48/42**	**0.7**	369.3	50/45	0.7	376.6	52/48
20	337.8	38/30	2.4	349.9	43/36	2.6	**363.0**	**48/42**	**0.7**	370.3	50/45	0.7	377.7	53/49
18	338.7	38/30	2.4	350.8	43/36	2.6	**364.0**	**48/42**	**0.7**	371.3	51/46	0.8	378.8	53/49
16	339.6	38/30	2.4	351.8	43/36	2.6	**365.0**	**49/43**	**0.7**	372.4	51/46	0.8	379.9	53/49
14	340.6	39/30	2.4	352.7	44/36	2.7	**366.0**	**49/43**	**0.7**	373.4	51/46	0.8	381.0	53/49
12	341.5	39/31	2.4	353.7	44/37	2.7	**367.1**	**49/43**	**0.7**	374.5	51/46	0.8	382.0	54/50
10	342.4	39/31	2.5	354.7	44/37	2.7	**368.2**	**49/43**	**0.7**	375.6	52/47	0.8	383.1	54/50
8	343.3	39/31	2.5	355.7	45/37	2.7	**369.2**	**50/44**	**0.8**	376.7	52/47	0.8	384.3	54/50
6	344.3	40/31	2.5	356.7	45/37	2.7	**370.3**	**50/44**	**0.8**	377.9	52/47	0.8	385.4	55/51
4	345.3	40/32	2.5	357.7	45/38	2.7	**371.4**	**50/44**	**0.8**	379.0	53/47	0.8	386.6	55/51
2	346.3	40/32	2.5	358.8	45/38	2.7	**372.5**	**51/45**	**0.8**	380.2	53/48	0.8	388.3	55/51
0	347.3	40/32	2.5	359.8	46/38	2.8	**373.7**	**51/45**	**0.8**	381.3	53/48	0.9	390.3	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY V (F/L) RWY 22L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.087% UP
TOR	2461m (8074ft)	**ED**	2461m (8074ft)	**TOD**	2461m (8074ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	229.3	17/11	1.8	238.1	22/11	1.7	**246.6**	**28/16**	**0.5**	251.8	30/19	0.5	257.1	33/22
66	237.3	18/11	1.8	246.4	24/11	1.7	**255.1**	**29/17**	**0.5**	260.4	32/20	0.5	265.8	34/23
62	246.4	20/11	1.9	255.8	26/13	1.8	**264.6**	**32/19**	**0.6**	270.2	35/22	0.6	275.9	37/26
58	255.1	22/11	1.9	264.6	27/15	1.9	**273.9**	**33/22**	**0.6**	279.7	36/25	0.6	285.7	38/28
54	262.4	23/11	2.0	272.2	28/17	1.9	**281.9**	**34/23**	**0.6**	287.9	36/26	0.6	294.1	39/30
52	265.7	23/11	2.0	275.7	29/16	2.0	**285.5**	**35/22**	**0.6**	291.6	37/25	0.6	298.0	39/29
50	268.6	24/12	2.2	279.5	30/17	2.0	**289.4**	**35/23**	**0.6**	295.6	38/26	0.6	302.0	40/30
48	267.5	24/13	2.9	282.2	30/18	2.2	**293.1**	**35/24**	**0.6**	299.4	37/27	0.7	305.9	40/30
46	266.4	25/14	3.9	285.7	30/18	2.2	**296.8**	**36/25**	**0.6**	303.2	38/28	0.7	309.8	40/31
44	265.2	26/15	4.8	289.2	31/19	2.2	**300.4**	**36/25**	**0.6**	306.8	39/28	0.7	313.5	41/32
42	264.0	26/16	5.7	292.7	32/20	2.3	**304.1**	**37/26**	**0.7**	310.7	40/29	0.7	317.4	42/33
40	262.8	26/17	6.5	295.4	31/20	2.4	**307.4**	**36/27**	**0.7**	314.2	39/30	0.7	321.1	41/34
38	261.6	26/18	7.5	299.1	32/21	2.5	**311.4**	**37/28**	**0.7**	318.2	40/31	0.7	325.1	42/34
36	260.5	27/19	8.5	302.9	33/22	2.5	**315.3**	**38/28**	**0.7**	322.2	41/32	0.7	329.3	43/35
34	259.4	28/20	9.4	306.6	33/23	2.5	**319.2**	**39/29**	**0.7**	326.1	41/32	0.7	333.1	44/36
32	259.4	27/21	10.1	310.0	33/23	2.5	**322.7**	**38/30**	**0.7**	329.8	40/33	0.7	336.7	43/37
30	258.4	28/22	11.1	313.8	33/24	2.6	**326.7**	**39/30**	**0.7**	333.7	41/34	0.7	340.8	44/37
28	259.9	29/22	11.3	316.6	34/24	2.6	**329.6**	**39/31**	**0.7**	336.6	42/34	0.7	343.6	44/38
26	262.4	29/22	11.0	317.5	34/25	2.6	**330.5**	**40/31**	**0.7**	337.4	42/35	0.7	344.5	45/38
24	266.0	29/22	10.5	318.4	35/25	2.6	**331.3**	**40/32**	**0.7**	338.3	42/35	0.7	345.4	45/38
22	269.6	29/23	9.9	319.3	35/25	2.6	**332.2**	**40/32**	**0.7**	339.3	43/35	0.7	346.3	45/39
20	273.4	30/22	9.4	320.2	35/25	2.6	**333.1**	**40/32**	**0.7**	340.2	43/35	0.7	347.3	45/39
18	277.1	30/22	8.8	321.0	35/26	2.6	**334.0**	**41/32**	**0.7**	341.1	43/36	0.7	348.2	46/39
16	281.1	30/22	8.2	321.9	36/26	2.6	**334.9**	**41/33**	**0.7**	342.0	43/36	0.7	349.2	46/39
14	285.1	30/22	7.5	322.8	36/26	2.6	**335.8**	**41/33**	**0.7**	342.9	44/36	0.7	350.1	46/40
12	289.3	31/22	6.9	323.7	36/26	2.6	**336.7**	**41/33**	**0.7**	343.8	44/36	0.7	351.1	46/40
10	293.6	31/22	6.2	324.6	36/27	2.6	**337.7**	**42/33**	**0.7**	344.8	44/37	0.7	352.0	47/40
8	297.9	31/22	5.5	325.5	37/27	2.6	**338.6**	**42/34**	**0.7**	345.7	45/37	0.7	353.0	47/41
6	301.8	31/22	4.9	326.5	37/27	2.6	**339.6**	**42/34**	**0.7**	346.7	45/37	0.7	354.0	47/41
4	305.2	32/22	4.5	327.5	37/27	2.6	**340.6**	**43/34**	**0.7**	347.7	45/37	0.7	355.0	48/41
2	308.7	32/22	3.9	328.4	38/28	2.6	**341.5**	**43/34**	**0.7**	348.7	45/38	0.7	356.1	48/41
0	312.2	32/22	3.4	329.4	38/28	2.6	**342.5**	**43/35**	**0.7**	349.7	46/38	0.7	357.1	48/42

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY NN (F/L) RWY 22R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.107% UP
TOR	2286m (7500ft)	**ED**	2286m (7500ft)	**TOD**	2286m (7500ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	221.2	14/11	1.6	229.4	19/11	1.8	**238.2**	**24/12**	**0.5**	243.3	27/15	0.6	248.8	29/18
66	223.2	15/11	2.8	237.4	20/11	1.8	**246.5**	**26/13**	**0.5**	251.8	28/16	0.5	257.2	31/19
62	223.2	17/11	4.7	246.5	22/11	1.9	**255.8**	**28/15**	**0.5**	261.3	31/19	0.6	266.9	34/22
58	223.2	18/11	6.4	255.2	24/11	1.9	**264.7**	**29/18**	**0.6**	270.3	32/21	0.6	276.3	35/24
54	223.2	19/11	7.9	262.5	25/13	2.0	**272.3**	**30/19**	**0.6**	278.1	33/23	0.6	284.3	36/26
52	222.7	20/11	8.6	265.8	25/12	2.0	**275.7**	**31/19**	**0.6**	281.7	34/22	0.6	288.0	36/25
50	221.7	21/12	9.5	269.4	26/13	2.0	**279.5**	**32/19**	**0.6**	285.5	35/23	0.6	291.9	37/26
48	220.8	20/13	10.4	272.7	26/14	2.1	**283.1**	**32/20**	**0.6**	289.3	34/23	0.6	295.7	37/27
46	219.8	21/14	11.3	276.1	27/14	2.1	**286.6**	**32/21**	**0.6**	292.8	35/24	0.7	299.4	37/27
44	218.8	22/15	12.1	279.4	27/15	2.1	**290.1**	**33/21**	**0.6**	296.3	36/25	0.7	303.0	38/28
42	217.8	23/16	13.0	282.8	28/16	2.2	**293.6**	**34/22**	**0.6**	300.0	36/25	0.7	306.8	39/29
40	216.7	22/17	13.4	283.9	28/17	2.6	**296.8**	**33/23**	**0.7**	303.4	36/26	0.7	310.4	38/30
38	215.8	23/18	13.4	282.7	28/18	3.6	**300.6**	**34/24**	**0.7**	307.3	36/27	0.7	314.3	39/30
36	214.8	24/19	13.3	281.5	29/19	4.6	**304.4**	**35/24**	**0.7**	311.3	37/28	0.7	318.3	40/31
34	213.9	24/20	13.3	280.3	30/20	5.6	**308.1**	**35/25**	**0.7**	315.0	38/28	0.7	322.1	41/32
32	213.8	24/21	13.3	280.3	29/21	6.2	**311.5**	**35/26**	**0.7**	318.5	37/29	0.7	325.7	40/33
30	213.0	25/22	13.3	279.3	30/22	7.2	**315.4**	**35/26**	**0.7**	322.4	38/30	0.7	329.7	41/33
28	214.3	25/22	13.3	280.9	30/23	7.5	**318.2**	**36/27**	**0.7**	325.3	39/30	0.7	332.5	41/34
26	216.4	25/22	13.4	283.5	31/23	7.1	**319.1**	**36/27**	**0.7**	326.1	39/31	0.7	333.4	41/34
24	219.5	26/22	13.6	287.3	31/23	6.5	**320.0**	**37/27**	**0.7**	327.0	39/31	0.7	334.3	42/34
22	222.6	26/22	13.7	291.2	31/23	5.9	**320.8**	**37/28**	**0.7**	327.9	39/31	0.7	335.2	42/35
20	225.8	26/22	13.9	295.2	32/22	5.3	**321.7**	**37/28**	**0.7**	328.8	40/31	0.7	336.1	42/35
18	229.0	26/22	14.0	299.2	32/22	4.7	**322.6**	**37/28**	**0.7**	329.8	40/32	0.7	337.0	43/35
16	232.4	27/22	14.0	302.6	32/22	4.2	**323.5**	**38/28**	**0.7**	330.7	40/32	0.7	337.9	43/35
14	235.8	27/22	14.0	306.0	32/22	3.7	**324.4**	**38/29**	**0.7**	331.5	41/32	0.7	338.8	43/36
12	239.4	27/22	14.0	309.3	33/22	3.2	**325.3**	**38/29**	**0.7**	332.4	41/32	0.7	339.8	43/36
10	243.3	27/22	14.1	313.8	33/22	2.5	**326.2**	**38/29**	**0.7**	333.4	41/33	0.7	340.7	44/36
8	247.2	28/22	13.5	314.7	33/23	2.5	**327.1**	**39/29**	**0.7**	334.3	41/33	0.7	341.6	44/36
6	251.1	28/22	12.9	315.6	33/23	2.5	**328.1**	**39/30**	**0.7**	335.2	42/33	0.7	342.6	44/37
4	255.2	28/22	12.3	316.5	34/23	2.5	**329.1**	**39/30**	**0.7**	336.2	42/33	0.7	343.6	44/37
2	259.3	28/22	11.6	317.5	34/23	2.5	**330.1**	**40/30**	**0.7**	337.2	42/34	0.7	344.5	45/37
0	263.5	29/22	11.0	318.5	34/24	2.5	**331.0**	**40/31**	**0.7**	338.2	42/34	0.7	345.5	45/38

P/C above 1013 + 0.1
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY PP (F/L) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.226% UP
TOR	2428m (7965ft)	**ED**	2372m (7782ft)	**TOD**	2428m (7965ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	227.1	15/11	1.7	235.7	20/11	1.7	**244.3**	**25/14**	**0.5**	249.5	28/17	0.5	254.8	31/20
66	234.9	16/11	1.8	243.9	21/11	1.8	**252.7**	**27/15**	**0.5**	258.0	29/18	0.5	263.4	32/21
62	243.8	18/11	1.9	253.2	23/11	1.8	**262.2**	**29/17**	**0.6**	267.7	32/20	0.6	273.4	35/23
58	243.8	19/11	3.6	262.0	25/13	1.9	**271.4**	**31/19**	**0.6**	277.1	33/22	0.6	283.1	36/26
54	243.8	20/11	5.0	268.9	26/15	2.1	**279.2**	**31/21**	**0.6**	285.1	34/24	0.6	291.4	36/27
52	243.3	21/11	5.8	272.4	27/14	2.1	**282.8**	**32/20**	**0.6**	288.9	35/23	0.6	295.2	37/26
50	242.2	22/12	6.8	276.0	27/15	2.1	**286.7**	**33/21**	**0.6**	292.8	35/24	0.7	299.3	38/27
48	241.2	22/13	7.5	278.8	27/15	2.2	**289.8**	**32/22**	**0.6**	296.0	35/25	0.6	302.4	37/28
46	240.2	22/14	8.4	282.3	28/16	2.2	**293.4**	**33/22**	**0.6**	299.7	36/25	0.7	306.2	38/29
44	239.1	23/15	9.3	285.6	28/17	2.3	**296.9**	**34/23**	**0.6**	303.3	36/26	0.7	309.9	39/30
42	238.0	24/16	10.2	289.2	29/17	2.3	**300.6**	**35/24**	**0.6**	307.0	37/27	0.7	313.7	40/30
40	236.8	23/17	11.0	291.7	29/18	2.4	**303.5**	**34/24**	**0.7**	310.2	37/28	0.7	317.1	39/31
38	235.8	24/18	11.9	295.4	29/19	2.4	**307.4**	**35/25**	**0.7**	314.1	37/28	0.7	321.2	40/32
36	234.8	25/19	12.9	299.2	30/19	2.4	**311.3**	**36/26**	**0.7**	318.2	38/29	0.7	325.2	41/33
34	233.8	26/20	13.8	302.7	31/20	2.5	**315.1**	**36/27**	**0.7**	322.0	39/30	0.7	329.2	42/33
32	233.7	25/21	13.7	302.2	30/21	3.3	**318.6**	**36/27**	**0.7**	325.6	38/31	0.7	332.7	41/34
30	232.9	26/22	13.7	301.3	31/22	4.2	**322.5**	**36/28**	**0.7**	329.6	39/31	0.7	336.7	42/35
28	234.2	26/22	13.7	302.7	32/23	4.5	**325.4**	**37/29**	**0.7**	332.4	40/32	0.7	339.6	42/35
26	236.5	26/22	13.7	304.9	32/23	4.3	**326.2**	**37/29**	**0.7**	333.3	40/32	0.7	340.5	42/36
24	239.8	27/22	14.9	314.4	32/22	2.5	**327.1**	**38/29**	**0.7**	334.2	40/32	0.7	341.4	43/36
22	243.2	27/22	14.4	315.2	32/23	2.6	**328.0**	**38/29**	**0.7**	335.1	40/33	0.7	342.3	43/36
20	246.6	27/22	13.9	316.1	33/23	2.6	**328.9**	**38/30**	**0.7**	335.9	41/33	0.7	343.2	43/36
18	250.0	27/22	13.4	317.0	33/23	2.6	**329.9**	**38/30**	**0.7**	336.9	41/33	0.7	344.1	43/37
16	253.7	28/22	12.8	317.9	33/23	2.6	**330.8**	**39/30**	**0.7**	337.8	41/33	0.7	345.0	44/37
14	257.4	28/22	12.3	318.8	33/24	2.6	**331.6**	**39/30**	**0.7**	338.7	41/34	0.7	345.9	44/37
12	261.2	28/22	11.7	319.7	34/24	2.6	**332.5**	**39/31**	**0.7**	339.7	42/34	0.7	346.9	44/37
10	265.3	29/22	11.1	320.6	34/24	2.6	**333.5**	**39/31**	**0.7**	340.6	42/34	0.7	347.9	45/38
8	269.4	29/22	10.4	321.6	34/24	2.6	**334.4**	**40/31**	**0.7**	341.5	42/34	0.7	348.8	45/38
6	273.6	29/22	9.8	322.5	34/25	2.6	**335.3**	**40/31**	**0.7**	342.5	43/35	0.7	349.8	45/38
4	277.8	29/22	9.1	323.4	35/25	2.6	**336.3**	**40/32**	**0.7**	343.4	43/35	0.7	350.8	45/39
2	282.1	30/22	8.5	324.4	35/25	2.6	**337.3**	**41/32**	**0.7**	344.4	43/35	0.7	351.8	46/39
0	286.5	30/22	7.8	325.3	35/25	2.6	**338.3**	**41/32**	**0.7**	345.4	43/36	0.7	352.8	46/39

P/C above 1013 + 0.1
P/C below 1013 - 1.0

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY M (F/L) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.053% UP
TOR	2286m (7500ft)	**ED**	2286m (7500ft)	**TOD**	2286m (7500ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	221.5	14/11	1.7	229.8	19/11	1.7	**238.5**	**24/12**	**0.5**	243.6	27/15	0.6	249.1	30/18
66	224.1	15/11	2.7	237.7	20/11	1.8	**246.8**	**26/13**	**0.5**	252.1	28/16	0.6	257.6	31/20
62	224.1	17/11	4.6	246.9	22/11	1.8	**256.1**	**28/16**	**0.6**	261.6	31/19	0.6	267.2	34/22
58	224.1	18/11	6.3	255.5	24/11	1.9	**265.0**	**30/18**	**0.6**	270.7	32/21	0.6	276.6	35/24
54	224.1	19/11	7.7	262.8	25/13	2.0	**272.6**	**30/19**	**0.6**	278.5	33/23	0.6	284.7	36/26
52	223.6	20/11	8.5	266.1	26/12	2.0	**276.1**	**31/19**	**0.6**	282.1	34/22	0.6	288.4	36/25
50	222.6	21/12	9.4	269.7	26/13	2.0	**279.9**	**32/19**	**0.6**	285.9	35/23	0.6	292.3	37/26
48	221.6	20/13	10.3	273.1	26/14	2.1	**283.4**	**32/20**	**0.6**	289.6	34/23	0.7	296.1	37/27
46	220.7	21/14	11.2	276.5	27/14	2.1	**287.0**	**32/21**	**0.6**	293.2	35/24	0.7	299.8	37/27
44	219.7	22/15	12.0	279.8	28/15	2.1	**290.4**	**33/21**	**0.6**	296.7	36/25	0.7	303.4	38/28
42	218.6	23/16	12.9	283.2	28/16	2.2	**294.0**	**34/22**	**0.6**	300.4	36/25	0.7	307.1	39/29
40	217.6	22/17	13.5	284.9	28/17	2.5	**297.3**	**33/23**	**0.7**	303.9	36/26	0.7	310.8	38/30
38	216.6	23/18	13.4	283.6	28/18	3.5	**301.1**	**34/24**	**0.7**	307.8	37/27	0.7	314.7	39/30
36	215.6	24/19	13.4	282.4	29/19	4.5	**304.9**	**35/24**	**0.7**	311.7	37/28	0.7	318.8	40/31
34	214.7	24/20	13.3	281.3	30/20	5.5	**308.6**	**35/25**	**0.7**	315.5	38/28	0.7	322.6	41/32
32	214.7	24/21	13.3	281.2	29/21	6.2	**312.0**	**35/26**	**0.7**	319.0	37/29	0.7	326.2	40/33
30	213.9	25/22	13.3	280.2	30/22	7.1	**315.8**	**35/26**	**0.7**	322.9	38/30	0.7	330.2	41/33
28	215.2	25/22	13.3	281.8	31/23	7.4	**318.7**	**36/27**	**0.7**	325.8	39/30	0.7	333.0	41/34
26	217.3	25/22	13.4	284.5	31/23	7.0	**319.6**	**36/27**	**0.7**	326.6	39/31	0.7	333.9	42/34
24	220.3	26/22	13.6	288.3	31/23	6.4	**320.5**	**37/27**	**0.7**	327.5	39/31	0.7	334.8	42/34
22	223.5	26/22	13.7	292.2	31/23	5.8	**321.3**	**37/28**	**0.7**	328.4	40/31	0.7	335.7	42/35
20	226.7	26/22	13.9	296.2	32/22	5.2	**322.2**	**37/28**	**0.7**	329.3	40/31	0.7	336.6	42/35
18	229.9	26/22	14.1	300.2	32/22	4.6	**323.1**	**37/28**	**0.7**	330.3	40/32	0.7	337.5	43/35
16	233.3	27/22	14.0	303.4	32/22	4.1	**323.9**	**38/28**	**0.7**	331.1	40/32	0.7	338.4	43/35
14	236.8	27/22	14.0	306.8	32/22	3.6	**324.9**	**38/29**	**0.7**	332.0	41/32	0.7	339.3	43/36
12	240.3	27/22	14.0	310.1	33/22	3.1	**325.8**	**38/29**	**0.7**	332.9	41/32	0.7	340.3	43/36
10	244.2	27/22	14.0	314.2	33/22	2.5	**326.7**	**38/29**	**0.7**	333.8	41/33	0.7	341.2	44/36
8	248.1	28/22	13.4	315.2	33/23	2.5	**327.6**	**39/30**	**0.7**	334.8	41/33	0.7	342.1	44/36
6	252.1	28/22	12.8	316.1	33/23	2.5	**328.6**	**39/30**	**0.7**	335.7	42/33	0.7	343.1	44/37
4	256.2	28/22	12.2	317.0	34/23	2.5	**329.6**	**39/30**	**0.7**	336.7	42/33	0.7	344.1	45/37
2	260.3	29/22	11.5	318.0	34/23	2.5	**330.5**	**40/30**	**0.7**	337.7	42/34	0.7	345.0	45/37
0	264.5	29/22	10.9	318.9	34/24	2.5	**331.5**	**40/31**	**0.7**	338.7	43/34	0.7	346.0	45/38

P/C above 1013 + 0.1
P/C below 1013 - 0.5

Min Acceleration Height 1100ft

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY GG (F/L) RWY 28C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.185% UP
TOR	3292m (10800ft)	**ED**	3292m (10800ft)	**TOD**	3292m (10800ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	262.3	31/19	1.6	270.1	36/25	1.5	**277.6**	**42/31**	**0.5**	282.1	44/34	0.5	286.6	47/37
66	271.8	32/21	1.7	280.5	37/26	1.6	**288.5**	**42/32**	**0.5**	293.2	44/35	0.5	298.1	47/38
62	282.3	34/23	1.9	291.9	39/28	1.7	**300.5**	**45/34**	**0.5**	305.4	47/37	0.5	310.5	49/41
58	291.7	35/25	2.0	301.8	40/31	2.0	**311.8**	**45/37**	**0.5**	317.0	47/40	0.5	322.3	49/43
54	299.5	36/27	2.1	309.9	41/33	2.2	**321.1**	**46/39**	**0.6**	326.9	48/42	0.6	332.4	50/45
52	303.4	37/26	2.1	314.0	42/32	2.3	**325.3**	**46/38**	**0.6**	331.3	49/41	0.6	336.9	51/44
50	307.6	37/27	2.1	318.3	42/33	2.3	**329.8**	**47/39**	**0.6**	335.7	50/41	0.6	341.6	52/45
48	310.8	37/28	2.2	321.7	42/33	2.4	**333.5**	**47/39**	**0.6**	339.8	49/42	0.6	346.0	51/46
46	314.7	38/28	2.2	325.7	43/34	2.4	**337.5**	**48/40**	**0.6**	343.8	50/43	0.6	350.2	52/46
44	318.5	38/29	2.2	329.7	44/35	2.4	**341.5**	**48/41**	**0.6**	347.8	51/44	0.7	354.3	53/47
42	322.5	39/30	2.2	333.6	44/36	2.4	**345.5**	**49/42**	**0.7**	352.1	52/45	0.7	358.7	54/48
40	326.0	38/31	2.3	337.5	43/37	2.4	**349.7**	**48/43**	**0.7**	356.4	50/46	0.7	363.1	53/49
38	330.2	39/32	2.3	341.6	44/37	2.5	**354.0**	**49/43**	**0.7**	360.9	51/46	0.7	367.8	53/50
36	334.3	40/32	2.3	345.8	45/38	2.5	**358.5**	**50/44**	**0.7**	365.4	52/47	0.7	372.6	54/51
34	338.2	41/33	2.3	349.8	46/39	2.6	**362.7**	**51/45**	**0.7**	369.9	53/48	0.7	377.1	55/51
32	341.9	40/34	2.3	353.6	45/40	2.6	**366.7**	**50/46**	**0.7**	374.0	52/49	0.7	381.3	54/52
30	345.9	41/34	2.4	357.9	46/40	2.7	**371.3**	**51/47**	**0.7**	378.7	53/50	0.7	386.1	55/53
28	348.9	41/35	2.4	361.0	46/41	2.7	**374.6**	**51/47**	**0.8**	382.1	54/50	0.9	391.4	55/53
26	349.8	42/35	2.4	362.0	47/41	2.7	**375.7**	**52/47**	**0.8**	383.2	54/50	1.0	393.2	56/53
24	350.7	42/35	2.5	363.0	47/42	2.7	**376.7**	**52/48**	**0.8**	384.2	54/51	1.1	395.1	56/53
22	351.6	42/36	2.5	363.9	47/42	2.8	**377.8**	**52/48**	**0.8**	385.3	54/51	1.1	396.5	56/54
20	352.6	42/36	2.5	365.0	47/42	2.8	**378.8**	**52/48**	**0.8**	386.4	55/51	1.1	397.5	56/54
18	353.5	43/36	2.5	366.0	48/42	2.8	**379.9**	**53/48**	**0.8**	387.8	55/51	1.1	398.6	56/54
16	354.5	43/36	2.5	367.0	48/43	2.8	**381.0**	**53/49**	**0.9**	389.7	55/52	1.0	399.7	57/54
14	355.4	43/37	2.5	368.1	48/43	2.8	**382.1**	**53/49**	**1.0**	391.6	55/52	0.9	400.7	57/55
12	356.4	43/37	2.5	369.1	49/43	2.8	**383.2**	**54/49**	**1.0**	393.5	55/52	0.8	401.8	57/55
10	357.4	44/37	2.6	370.2	49/43	2.8	**384.3**	**54/49**	**1.1**	395.4	55/52	0.8	402.9	57/55
8	358.5	44/38	2.6	371.3	49/44	2.8	**385.4**	**54/50**	**1.1**	396.8	56/52	0.7	404.0	58/56
6	359.5	44/38	2.6	372.4	49/44	2.8	**386.6**	**54/50**	**1.1**	397.9	56/52	0.7	405.1	58/56
4	360.5	45/38	2.6	373.5	50/44	3.0	**388.3**	**55/50**	**1.1**	399.0	56/53	0.7	406.1	58/56
2	361.6	45/38	2.6	374.6	50/44	3.1	**390.3**	**55/50**	**1.0**	400.1	56/53	0.7	407.1	59/56
0	362.7	45/39	2.6	375.7	50/45	3.3	**392.3**	**55/50**	**0.9**	401.2	57/53	0.7	408.2	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY Y (F/L) RWY 28R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.162% UP
TOR	3962m (12998ft)	**ED**	3962m (12998ft)	**TOD**	3962m (12998ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	284.1	40/29	1.4	291.1	45/35	0.2	**291.9**	**49/42**	**0.0**	291.9	49/45	0.0	291.9	49/48
66	295.6	40/31	1.5	303.3	45/36	0.9	**308.0**	**50/42**	**0.0**	308.0	53/46	0.0	308.0	53/49
62	307.6	42/33	1.7	316.3	47/39	1.5	**323.8**	**52/44**	**0.0**	324.2	56/48	0.0	324.2	57/52
58	317.4	43/36	2.0	327.5	47/41	1.8	**336.3**	**52/47**	**0.3**	339.5	55/50	0.0	339.5	58/54
54	326.1	44/38	2.1	336.6	48/43	2.1	**346.9**	**53/49**	**0.5**	351.6	55/52	0.2	353.7	58/55
52	330.5	45/37	2.1	340.9	49/42	2.2	**351.7**	**54/48**	**0.5**	356.7	56/51	0.4	360.2	59/54
50	334.8	45/38	2.1	345.3	50/43	2.3	**356.6**	**55/49**	**0.5**	362.0	57/52	0.5	366.7	60/55
48	338.5	45/38	2.2	349.4	49/44	2.4	**361.2**	**54/50**	**0.6**	367.0	56/52	0.6	372.6	59/55
46	342.6	46/39	2.2	353.7	50/45	2.4	**365.7**	**55/50**	**0.6**	372.1	57/53	0.6	377.9	60/56
44	346.6	46/40	2.2	357.8	51/46	2.5	**370.2**	**56/51**	**0.7**	376.8	58/54	0.6	382.9	60/57
42	350.8	47/41	2.3	362.3	52/46	2.5	**374.9**	**57/52**	**0.7**	381.7	59/55	0.7	388.6	61/58
40	355.0	46/42	2.4	366.9	51/47	2.6	**379.8**	**56/53**	**0.7**	386.6	58/56	0.9	395.8	59/58
38	359.4	47/43	2.4	371.6	52/48	2.6	**384.7**	**56/54**	**1.0**	394.8	58/56	0.6	401.2	60/59
36	364.0	48/43	2.5	376.4	52/49	3.0	**391.6**	**57/54**	**0.9**	400.1	59/57	0.6	406.5	61/60
34	368.4	49/44	2.5	381.1	53/50	3.4	**398.0**	**57/55**	**0.7**	404.6	59/57	0.7	411.3	62/60
32	372.7	48/45	2.5	385.4	53/50	3.3	**402.1**	**57/55**	**0.7**	408.8	59/58	0.7	415.6	61/61
30	377.4	49/46	3.0	392.6	53/51	2.8	**406.8**	**57/56**	**0.7**	413.6	60/59	0.7	420.4	62/62
28	380.8	49/46	3.3	397.4	53/51	2.6	**410.3**	**58/57**	**0.7**	417.0	60/60	0.7	423.9	62/63
26	381.9	49/46	3.3	398.4	54/51	2.6	**411.3**	**58/57**	**0.7**	418.1	61/60	0.7	424.9	63/63
24	382.9	50/47	3.3	399.5	54/52	2.6	**412.3**	**59/57**	**0.7**	419.2	61/60	0.7	426.0	63/63
22	384.0	50/47	3.3	400.5	54/52	2.6	**413.4**	**59/58**	**0.7**	420.3	61/60	0.7	427.1	63/63
20	385.0	50/47	3.3	401.5	54/52	2.6	**414.5**	**59/58**	**0.7**	421.3	61/61	0.7	428.2	63/64
18	386.1	51/47	3.3	402.6	55/52	2.6	**415.5**	**59/58**	**0.7**	422.4	62/61	0.7	429.3	64/64
16	387.4	51/48	3.2	403.6	55/53	2.6	**416.7**	**60/58**	**0.7**	423.5	62/61	0.7	430.4	64/64
14	389.3	51/48	3.1	404.7	55/53	2.6	**417.8**	**60/59**	**0.7**	424.6	62/62	0.7	431.3	64/65
12	391.2	51/48	2.9	405.8	55/53	2.6	**418.9**	**60/59**	**0.7**	425.7	62/62	0.7	432.2	65/65
10	393.1	51/48	2.8	406.9	56/53	2.6	**420.1**	**61/59**	**0.7**	426.9	63/62	0.6	433.1	65/65
8	395.1	51/48	2.6	408.0	56/54	2.6	**421.2**	**61/59**	**0.7**	428.1	63/62	0.6	434.1	65/66
6	396.6	51/48	2.5	409.2	56/54	2.6	**422.3**	**61/60**	**0.7**	429.0	63/63	0.6	435.0	66/66
4	397.7	52/49	2.5	410.3	57/54	2.6	**423.5**	**61/60**	**0.7**	430.0	64/63	0.6	435.9	66/66
2	398.8	52/49	2.5	411.5	57/55	2.6	**424.7**	**62/60**	**0.6**	430.9	64/63	0.6	436.9	66/67
0	400.0	52/49	2.5	412.6	57/55	2.6	**425.8**	**62/61**	**0.6**	431.8	64/64	0.5	437.2	67/67

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **CHICAGO**

A/D Elev **672ft** **O HARE INTL (KORD)**

TWY N (F/L) RWY 33

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.114% UP
TOR	2952m (9685ft)	**ED**	2952m (9685ft)	**TOD**	2952m (9685ft)

FLAP 20 ## RB211-524G/PACKS ON/DRY or WET RWY **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	250.6	25/14	1.7	259.2	31/19	1.6	**267.3**	**36/25**	**0.5**	272.3	39/28	0.5	277.5	41/31
66	259.1	27/15	1.8	267.9	32/20	1.7	**276.5**	**37/26**	**0.5**	281.9	40/29	0.5	287.3	42/32
62	268.8	29/17	1.9	278.2	35/23	1.8	**287.3**	**40/29**	**0.6**	292.8	42/32	0.6	298.6	45/35
58	278.1	30/19	2.0	288.2	35/25	1.9	**297.6**	**41/31**	**0.6**	303.4	43/34	0.6	309.3	45/37
54	285.5	31/21	2.1	295.9	36/27	2.1	**306.3**	**41/33**	**0.6**	312.3	44/36	0.6	318.4	46/39
52	289.3	32/20	2.1	299.8	37/26	2.1	**310.4**	**42/32**	**0.6**	316.4	45/35	0.6	322.6	47/38
50	293.2	33/21	2.1	303.8	38/27	2.2	**314.6**	**43/33**	**0.6**	320.8	45/36	0.6	327.0	48/39
48	296.1	32/22	2.2	306.9	37/27	2.3	**318.5**	**42/34**	**0.6**	324.8	45/37	0.6	331.2	47/40
46	299.9	33/22	2.2	310.8	38/28	2.3	**322.5**	**43/34**	**0.6**	328.9	46/37	0.6	335.2	48/41
44	303.4	34/23	2.2	314.5	39/29	2.4	**326.4**	**44/35**	**0.6**	332.8	46/38	0.6	339.1	49/41
42	307.2	35/24	2.3	318.5	40/30	2.4	**330.5**	**45/36**	**0.6**	336.8	47/39	0.6	343.2	49/42
40	310.4	34/25	2.3	322.0	39/30	2.4	**334.2**	**44/37**	**0.7**	340.7	46/40	0.7	347.2	48/43
38	314.3	35/25	2.4	326.1	40/31	2.5	**338.4**	**45/38**	**0.7**	344.9	47/41	0.7	351.5	49/44
36	318.4	36/26	2.4	330.3	41/32	2.4	**342.5**	**46/38**	**0.7**	349.1	48/41	0.7	355.8	50/45
34	322.2	36/27	2.4	334.1	41/33	2.5	**346.5**	**46/39**	**0.7**	353.2	49/42	0.7	360.1	51/46
32	325.7	35/27	2.4	337.7	41/33	2.5	**350.2**	**46/40**	**0.7**	357.0	48/43	0.7	364.0	50/46
30	329.8	36/28	2.4	341.7	41/34	2.5	**354.3**	**46/41**	**0.7**	361.3	49/44	0.7	368.5	51/47
28	332.6	37/29	2.4	344.6	42/35	2.6	**357.4**	**47/41**	**0.7**	364.5	49/44	0.7	371.8	52/48
26	333.5	37/29	2.4	345.5	42/35	2.6	**358.4**	**47/41**	**0.7**	365.5	50/45	0.7	372.8	52/48
24	334.4	37/29	2.4	346.4	42/35	2.6	**359.4**	**48/42**	**0.7**	366.5	50/45	0.7	373.9	52/48
22	335.2	38/29	2.4	347.4	43/35	2.6	**360.3**	**48/42**	**0.7**	367.5	50/45	0.7	374.9	52/48
20	336.1	38/30	2.4	348.3	43/36	2.6	**361.3**	**48/42**	**0.7**	368.6	50/45	0.7	376.0	53/49
18	337.1	38/30	2.4	349.2	43/36	2.6	**362.3**	**48/42**	**0.7**	369.6	51/46	0.7	377.0	53/49
16	338.0	38/30	2.4	350.2	44/36	2.6	**363.3**	**49/43**	**0.7**	370.6	51/46	0.8	378.1	53/49
14	338.9	39/30	2.4	351.1	44/36	2.6	**364.3**	**49/43**	**0.7**	371.7	51/46	0.8	379.2	54/50
12	339.9	39/31	2.4	352.1	44/37	2.7	**365.4**	**49/43**	**0.7**	372.8	52/46	0.8	380.3	54/50
10	340.8	39/31	2.5	353.1	44/37	2.7	**366.4**	**50/44**	**0.7**	373.8	52/47	0.8	381.4	54/50
8	341.7	39/31	2.5	354.1	45/37	2.7	**367.5**	**50/44**	**0.7**	374.9	52/47	0.8	382.5	54/50
6	342.7	40/31	2.5	355.1	45/38	2.7	**368.6**	**50/44**	**0.8**	376.1	52/47	0.8	383.7	55/51
4	343.6	40/32	2.5	356.1	45/38	2.7	**369.7**	**50/44**	**0.8**	377.2	53/47	0.8	384.8	55/51
2	344.6	40/32	2.5	357.1	46/38	2.7	**370.8**	**51/45**	**0.8**	378.4	53/48	0.8	386.0	55/51
0	345.6	41/32	2.5	358.2	46/38	2.7	**371.9**	**51/45**	**0.8**	379.5	53/48	0.8	387.3	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.4

WEST PALM BEACH

PALM BEACH INT **(KPBI)**

WEST PALM BEACH/PALM BEACH INT and runways 10L, 28R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **PORTLAND (KPDX)**

A/D Elev **31ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**10L**	**10R**	**28L**	**28R**
Landing Distance Available	2602m / 8535ft	3356mm / 11010ft	3356m / 11010ft	2832m / 9290ft
Slope	NIL	NIL	NIL	NIL
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	285.2 (267.9)	14kt (8kt)	14kt (8kt)	4kt (282.6)
25F Zero HW wt or TW (Autoland)		14kt (8kt)		
25F Slippery Zero HW wt or TW (Manual)	218.3	283.9	283.9	239.3
25F Slippery Zero HW wt or TW (Autoland)		283.9		
30F Zero HW wt or TW (Manual)	5kt (0kt)	15kt (14kt)	15kt (14kt)	10kt (5kt)
30F Zero HW wt or TW (Autoland)		15kt (14kt)		
30F Slippery Zero HW wt or TW (Manual)	239.7	3kt	3kt	260.7
30F Slippery Zero HW wt or TW (Autoland)		3kt		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH and SOUTH EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **PHILADELPHIA**

A/D Elev **36ft** Max wt Permitted (For pre flt planning) **285,760kg** **(KPHL)**

RUNWAY	09L	09R	27L	27R
Landing Distance Available	2896m / 9500ft	3202m / 10506ft	3149m / 10331ft	2701m / 8861ft
Notes				
WAT LIMIT °C : Man / Auto	54°	54°/54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	6kt (1kt)	12kt (6kt)	10kt (4kt)	2kt (271.0)
25F Zero HW wt or TW (Autoland)	6kt (1kt)	12kt (6kt)		2kt (271.0)
25F Slippery Zero HW wt or TW (Manual)	238.0	267.0	260.0	223.0
25F Slippery Zero HW wt or TW (Autoland)	238.0	267.0		223.0
30F Zero HW wt or TW (Manual)	6kt (1kt)	12kt (6kt)	10kt (4kt)	2kt (280.8)
30F Zero HW wt or TW (Autoland)	6kt (1kt)	12kt (6kt)		2kt (280.8)
30F Slippery Zero HW wt or TW (Manual)	264.0	280.8	280.8	245.0
30F Slippery Zero HW wt or TW (Autoland)	264.0	280.8		245.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHILADELPHIA**

A/D Elev **36ft** **(KPHL)**

F/L (TWY W) RWY 09L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.021% DN
TOR	2896m (9501ft)	**ED**	2896m (9501ft)	**TOD**	2896m (9501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	255.0	26/14	1.8	263.8	31/20	1.7	**272.2**	**36/26**	**0.5**	277.4	39/29	0.5	282.8	41/32
66	263.6	28/15	1.8	272.8	33/21	1.8	**281.7**	**39/27**	**0.6**	287.2	41/30	0.6	292.7	43/33
62	273.6	30/18	1.9	283.3	36/23	1.9	**292.6**	**41/29**	**0.6**	298.4	44/32	0.6	304.2	46/36
58	283.2	31/20	2.0	293.4	36/25	1.9	**303.1**	**42/32**	**0.6**	309.1	44/35	0.6	315.0	46/38
54	290.8	32/21	2.1	301.4	37/27	2.1	**312.0**	**42/34**	**0.6**	318.2	45/37	0.6	324.3	47/40
52	294.5	33/21	2.2	305.3	38/26	2.2	**316.1**	**43/33**	**0.6**	322.3	46/36	0.6	328.6	48/39
50	297.7	32/21	2.2	308.6	38/27	2.3	**320.3**	**43/33**	**0.6**	326.7	45/37	0.6	333.0	47/40
48	301.6	33/22	2.2	312.6	38/28	2.4	**324.4**	**44/34**	**0.7**	330.9	46/37	0.6	337.1	48/41
46	305.3	34/23	2.2	316.5	39/29	2.4	**328.5**	**44/35**	**0.6**	334.8	47/38	0.6	341.2	49/41
44	309.0	35/24	2.3	320.4	40/29	2.4	**332.4**	**45/36**	**0.6**	338.8	48/39	0.6	345.2	50/42
42	312.1	34/24	2.3	323.8	39/30	2.5	**336.1**	**44/37**	**0.7**	342.7	47/40	0.7	349.3	49/43
40	316.0	35/25	2.4	327.9	40/31	2.5	**340.3**	**45/37**	**0.7**	346.8	47/40	0.7	353.5	50/44
38	320.1	36/26	2.4	332.0	41/32	2.5	**344.3**	**46/38**	**0.7**	351.0	48/41	0.7	357.9	50/45
36	324.1	36/27	2.4	336.1	42/33	2.5	**348.6**	**47/39**	**0.7**	355.4	49/42	0.7	362.4	51/45
34	328.0	36/27	2.4	340.1	41/33	2.5	**352.6**	**46/40**	**0.7**	359.6	48/43	0.7	366.7	51/46
32	331.6	36/28	2.4	343.7	42/34	2.6	**356.5**	**47/40**	**0.7**	363.5	49/44	0.7	370.9	51/47
30	335.5	37/29	2.4	347.7	42/35	2.6	**360.8**	**47/41**	**0.7**	368.0	50/44	0.8	375.5	52/48
28	336.5	37/29	2.4	348.7	43/35	2.6	**361.8**	**48/41**	**0.7**	369.1	50/45	0.8	376.6	52/48
26	337.4	38/29	2.4	349.6	43/35	2.6	**362.8**	**48/42**	**0.7**	370.1	50/45	0.8	377.7	53/48
24	338.3	38/29	2.5	350.6	43/35	2.6	**363.8**	**48/42**	**0.7**	371.2	51/45	0.8	378.7	53/49
22	339.2	38/30	2.5	351.5	43/36	2.7	**364.8**	**49/42**	**0.7**	372.2	51/45	0.8	379.8	53/49
20	340.1	38/30	2.5	352.4	44/36	2.7	**365.8**	**49/43**	**0.7**	373.2	51/46	0.8	380.9	53/49
18	341.0	39/30	2.5	353.4	44/36	2.7	**366.8**	**49/43**	**0.8**	374.3	51/46	0.8	381.9	54/49
16	341.9	39/30	2.5	354.3	44/36	2.7	**367.8**	**49/43**	**0.8**	375.3	52/46	0.8	383.0	54/50
14	342.9	39/31	2.5	355.3	44/37	2.7	**368.9**	**50/43**	**0.8**	376.4	52/46	0.8	384.1	54/50
12	343.8	39/31	2.5	356.3	45/37	2.7	**370.0**	**50/44**	**0.8**	377.5	52/47	0.8	385.2	55/50
10	344.7	40/31	2.5	357.3	45/37	2.7	**371.0**	**50/44**	**0.8**	378.7	53/47	0.8	386.3	55/50
8	345.7	40/31	2.5	358.3	45/38	2.8	**372.1**	**51/44**	**0.8**	379.8	53/47	0.8	387.9	55/51
6	346.7	40/32	2.5	359.4	46/38	2.8	**373.2**	**51/44**	**0.8**	380.9	53/48	0.9	389.9	55/51
4	347.7	41/32	2.5	360.4	46/38	2.8	**374.4**	**51/45**	**0.8**	382.1	53/48	1.0	391.8	55/51
2	348.7	41/32	2.6	361.5	46/38	2.8	**375.5**	**51/45**	**0.8**	383.2	54/48	1.1	393.9	55/51
0	349.7	41/32	2.6	362.5	46/39	2.8	**376.7**	**52/45**	**0.8**	384.4	54/48	1.2	395.9	56/51

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHILADELPHIA**

A/D Elev **36ft** **(KPHL)**

F/L (TWY S) RWY 09R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.114% DN
TOR	3202m (10505ft)	**ED**	3202m (10505ft)	**TOD**	3202m (10505ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	267.6	30/20	1.8	276.5	35/25	1.5	**283.8**	**41/31**	**0.4**	287.4	43/34	0.4	290.9	46/37
66	276.9	32/21	1.9	286.2	37/26	1.8	**295.3**	**43/32**	**0.5**	300.5	45/35	0.4	304.3	47/38
62	287.6	35/23	2.0	297.4	40/29	1.9	**306.8**	**45/35**	**0.6**	312.5	48/38	0.6	318.1	50/41
58	297.2	36/25	2.1	307.5	41/31	2.1	**317.8**	**46/37**	**0.6**	323.8	48/40	0.6	330.0	50/43
54	305.2	36/27	2.1	315.8	41/33	2.3	**327.2**	**47/39**	**0.6**	333.2	49/42	0.6	339.4	51/45
52	309.2	37/26	2.2	320.0	42/32	2.3	**331.5**	**47/38**	**0.6**	337.4	50/41	0.6	343.6	52/44
50	312.6	37/27	2.2	323.5	42/33	2.4	**335.4**	**47/39**	**0.6**	341.7	49/42	0.6	348.1	51/45
48	316.6	38/28	2.2	327.7	43/34	2.4	**339.6**	**48/40**	**0.6**	346.0	50/43	0.6	352.4	52/46
46	320.6	38/29	2.2	331.7	44/35	2.4	**343.7**	**48/41**	**0.7**	350.2	51/44	0.7	356.7	53/47
44	324.5	39/29	2.2	335.6	44/35	2.4	**347.7**	**49/41**	**0.7**	354.3	52/44	0.7	361.0	54/48
42	328.0	38/30	2.3	339.5	43/36	2.5	**351.8**	**48/42**	**0.7**	358.6	50/45	0.7	365.5	53/48
40	332.1	39/31	2.3	343.5	44/37	2.5	**356.1**	**49/43**	**0.7**	363.1	51/46	0.7	370.2	53/49
38	336.1	40/32	2.3	347.7	45/38	2.6	**360.6**	**50/44**	**0.7**	367.7	52/47	0.7	374.9	54/50
36	340.4	41/33	2.3	352.0	46/38	2.6	**365.2**	**51/45**	**0.7**	372.5	53/48	0.7	379.9	55/51
34	344.3	40/33	2.4	356.2	45/39	2.7	**369.6**	**50/45**	**0.7**	376.9	52/48	0.8	384.4	54/52
32	348.0	41/34	2.4	360.1	46/40	2.7	**373.7**	**51/46**	**0.8**	381.3	53/49	0.9	390.0	55/52
30	352.1	41/35	2.5	364.5	47/41	2.8	**378.4**	**52/47**	**0.8**	385.9	54/50	1.1	397.2	55/53
28	353.1	42/35	2.5	365.6	47/41	2.8	**379.6**	**52/47**	**0.8**	387.3	54/50	1.1	398.3	55/53
26	354.1	42/35	2.5	366.5	47/41	2.8	**380.6**	**52/47**	**0.9**	389.1	54/50	1.0	399.4	56/53
24	355.0	42/35	2.5	367.6	47/41	2.8	**381.7**	**52/48**	**0.9**	390.9	54/50	1.0	400.4	56/53
22	355.9	42/36	2.5	368.6	48/42	2.8	**382.7**	**53/48**	**1.0**	392.7	54/51	0.9	401.4	56/54
20	356.9	43/36	2.5	369.6	48/42	2.8	**383.8**	**53/48**	**1.1**	394.6	55/51	0.8	402.4	56/54
18	357.9	43/36	2.5	370.6	48/42	2.9	**384.9**	**53/48**	**1.1**	396.3	55/51	0.7	403.5	57/54
16	358.9	43/36	2.6	371.7	48/42	2.9	**386.0**	**53/49**	**1.1**	397.3	55/51	0.7	404.6	57/54
14	359.9	44/37	2.6	372.8	49/43	2.9	**387.2**	**54/49**	**1.1**	398.4	55/51	0.7	405.6	57/55
12	360.9	44/37	2.6	373.8	49/43	3.1	**389.1**	**54/49**	**1.0**	399.5	55/52	0.7	406.8	58/55
10	361.9	44/37	2.6	374.9	49/43	3.2	**391.0**	**54/49**	**1.0**	400.6	56/52	0.7	407.9	58/55
8	363.0	44/37	2.6	376.0	50/43	3.4	**393.0**	**54/49**	**0.9**	401.7	56/52	0.7	409.0	58/56
6	364.0	45/38	2.6	377.2	50/44	3.6	**395.0**	**54/49**	**0.8**	402.8	56/52	0.7	410.2	58/56
4	365.1	45/38	2.6	378.3	50/44	3.6	**396.5**	**54/50**	**0.7**	403.9	57/53	0.7	411.3	59/56
2	366.2	45/38	2.7	379.5	50/44	3.6	**397.7**	**55/50**	**0.7**	405.0	57/53	0.8	412.5	59/56
0	367.3	45/39	2.7	380.7	51/45	3.6	**398.8**	**55/50**	**0.7**	406.2	57/53	0.7	413.6	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHILADELPHIA**

A/D Elev **36ft** **(KPHL)**

F/L (TWY S1) RWY 27L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.114% UP
TOR	3202m (10505ft)	**ED**	3149m (10331ft)	**TOD**	3202m (10505ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.9	29/18	1.8	275.1	34/24	1.6	**283.2**	**39/30**	**0.5**	288.0	42/32	0.5	292.9	44/36
66	275.0	31/20	1.9	284.7	36/25	1.8	**293.8**	**41/31**	**0.5**	299.0	44/34	0.5	304.1	46/37
62	285.7	34/22	2.0	295.8	39/27	1.9	**305.2**	**44/33**	**0.6**	311.0	46/36	0.6	316.6	49/40
58	295.0	34/24	2.1	305.3	39/30	2.2	**316.2**	**44/36**	**0.6**	322.1	47/39	0.6	328.3	49/42
54	303.0	35/26	2.1	313.6	40/32	2.3	**325.2**	**45/38**	**0.6**	331.4	48/41	0.6	337.4	50/44
52	306.9	36/25	2.2	317.7	41/31	2.4	**329.5**	**46/37**	**0.6**	335.5	48/40	0.6	341.7	51/43
50	310.4	35/26	2.2	321.3	41/32	2.4	**333.1**	**46/38**	**0.6**	339.5	48/41	0.6	345.7	50/44
48	314.3	36/27	2.2	325.4	41/32	2.4	**337.3**	**46/38**	**0.6**	343.6	49/41	0.6	350.0	51/45
46	318.3	37/27	2.2	329.5	42/33	2.4	**341.4**	**47/39**	**0.6**	347.8	49/42	0.7	354.3	52/46
44	322.1	38/28	2.2	333.3	43/34	2.4	**345.3**	**48/40**	**0.7**	351.9	50/43	0.7	358.5	53/46
42	325.6	37/29	2.3	337.1	42/35	2.5	**349.5**	**47/41**	**0.7**	356.1	49/44	0.7	363.0	51/47
40	329.7	38/30	2.3	341.2	43/36	2.5	**353.7**	**48/42**	**0.7**	360.5	50/45	0.7	367.5	52/48
38	333.7	39/30	2.3	345.3	44/36	2.6	**358.1**	**49/42**	**0.7**	365.1	51/46	0.7	372.2	53/49
36	337.9	39/31	2.3	349.6	45/37	2.6	**362.6**	**50/43**	**0.7**	369.8	52/46	0.7	377.1	54/50
34	341.8	39/32	2.4	353.7	44/38	2.7	**367.0**	**49/44**	**0.7**	374.3	51/47	0.7	381.7	53/50
32	345.5	39/33	2.4	357.6	45/39	2.7	**371.1**	**50/45**	**0.8**	378.6	52/48	0.7	386.0	54/51
30	349.6	40/33	2.5	361.9	45/39	2.8	**375.7**	**50/46**	**0.8**	383.2	53/49	1.0	393.4	54/52
28	350.6	40/34	2.5	363.0	46/40	2.8	**376.9**	**51/46**	**0.8**	384.4	53/49	1.1	395.4	54/52
26	351.5	41/34	2.5	363.9	46/40	2.8	**377.9**	**51/46**	**0.8**	385.5	53/49	1.1	396.7	55/52
24	352.4	41/34	2.5	364.9	46/40	2.8	**379.0**	**51/46**	**0.8**	386.5	53/49	1.1	397.7	55/52
22	353.4	41/34	2.5	365.9	46/40	2.8	**380.1**	**51/47**	**0.8**	388.1	54/50	1.1	398.8	55/52
20	354.3	41/35	2.5	366.9	47/41	2.8	**381.1**	**52/47**	**0.9**	389.9	54/50	1.0	399.8	55/53
18	355.3	42/35	2.5	368.0	47/41	2.8	**382.2**	**52/47**	**1.0**	391.8	54/50	0.9	400.9	56/53
16	356.2	42/35	2.6	369.0	47/41	2.9	**383.3**	**52/47**	**1.0**	393.7	54/50	0.8	401.9	56/53
14	357.2	42/35	2.6	370.1	47/41	2.8	**384.3**	**52/48**	**1.1**	395.6	54/50	0.7	403.0	56/53
12	358.2	42/36	2.6	371.1	48/42	2.9	**385.5**	**53/48**	**1.1**	396.8	54/50	0.7	404.1	56/54
10	359.3	43/36	2.6	372.2	48/42	2.9	**386.6**	**53/48**	**1.1**	397.9	55/51	0.7	405.2	57/54
8	360.3	43/36	2.6	373.3	48/42	3.0	**388.3**	**53/48**	**1.1**	399.0	55/51	0.7	406.3	57/54
6	361.3	43/36	2.6	374.4	49/42	3.2	**390.3**	**53/48**	**1.0**	400.2	55/51	0.7	407.4	57/54
4	362.4	44/37	2.6	375.6	49/43	3.3	**392.3**	**54/49**	**0.9**	401.3	55/51	0.7	408.6	58/55
2	363.5	44/37	2.6	376.7	49/43	3.5	**394.3**	**54/49**	**0.8**	402.4	56/52	0.7	409.8	58/55
0	364.5	44/37	2.7	377.9	49/43	3.7	**396.2**	**54/49**	**0.7**	403.5	56/52	0.7	410.9	58/55

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHILADELPHIA**

A/D Elev **36ft** **(KPHL)**

F/L (TWY H/S) RWY 27R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.021% UP
TOR	2896m (9501ft)	**ED**	2896m (9501ft)	**TOD**	2896m (9501ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	254.8	25/14	1.8	263.6	31/20	1.7	**272.0**	**36/26**	**0.5**	277.2	39/29	0.5	282.5	41/32
66	263.4	28/15	1.8	272.6	33/21	1.8	**281.4**	**39/27**	**0.6**	286.9	41/30	0.6	292.5	43/33
62	273.4	30/18	1.9	283.1	36/23	1.9	**292.4**	**41/29**	**0.6**	298.1	44/32	0.6	303.9	46/36
58	283.0	31/20	2.0	293.2	36/25	1.9	**302.8**	**42/32**	**0.6**	308.8	44/35	0.6	314.8	46/38
54	290.5	32/21	2.1	301.1	37/27	2.1	**311.8**	**42/34**	**0.6**	317.9	45/37	0.6	324.1	47/40
52	294.3	33/21	2.1	305.0	38/26	2.2	**315.8**	**43/33**	**0.6**	322.1	46/36	0.6	328.3	48/39
50	297.5	32/21	2.2	308.4	38/27	2.3	**320.1**	**43/33**	**0.6**	326.4	45/37	0.6	332.7	47/40
48	301.3	33/22	2.2	312.3	38/28	2.4	**324.2**	**44/34**	**0.6**	330.6	46/37	0.6	336.8	48/41
46	305.0	34/23	2.2	316.2	39/29	2.4	**328.2**	**44/35**	**0.6**	334.6	47/38	0.6	340.9	49/41
44	308.7	35/24	2.3	320.1	40/29	2.4	**332.1**	**45/36**	**0.6**	338.5	47/39	0.6	344.9	50/42
42	311.8	34/24	2.3	323.5	39/30	2.5	**335.8**	**44/37**	**0.7**	342.4	46/40	0.7	349.0	49/43
40	315.7	35/25	2.4	327.6	40/31	2.5	**340.0**	**45/37**	**0.7**	346.5	47/40	0.7	353.2	50/44
38	319.8	36/26	2.4	331.7	41/32	2.5	**344.1**	**46/38**	**0.7**	350.8	48/41	0.7	357.6	50/45
36	323.9	36/27	2.4	335.8	42/33	2.5	**348.3**	**47/39**	**0.7**	355.1	49/42	0.7	362.1	51/45
34	327.7	36/27	2.4	339.8	41/33	2.5	**352.3**	**46/40**	**0.7**	359.3	48/43	0.7	366.4	51/46
32	331.3	36/28	2.4	343.4	42/34	2.6	**356.2**	**47/40**	**0.7**	363.3	49/44	0.7	370.6	51/47
30	335.2	37/29	2.4	347.4	42/35	2.6	**360.5**	**47/41**	**0.7**	367.7	50/44	0.8	375.2	52/48
28	336.2	37/29	2.4	348.4	43/35	2.6	**361.5**	**48/41**	**0.7**	368.8	50/45	0.8	376.3	52/48
26	337.1	38/29	2.4	349.3	43/35	2.6	**362.5**	**48/42**	**0.7**	369.8	50/45	0.8	377.4	53/48
24	338.0	38/29	2.5	350.3	43/35	2.6	**363.5**	**48/42**	**0.7**	370.9	51/45	0.8	378.4	53/49
22	338.9	38/30	2.5	351.2	43/36	2.7	**364.5**	**49/42**	**0.7**	371.9	51/45	0.8	379.5	53/49
20	339.8	38/30	2.5	352.1	44/36	2.7	**365.5**	**49/42**	**0.7**	372.9	51/46	0.8	380.6	53/49
18	340.7	39/30	2.5	353.0	44/36	2.7	**366.5**	**49/43**	**0.8**	374.0	51/46	0.8	381.6	54/49
16	341.6	39/30	2.5	354.0	44/36	2.7	**367.5**	**49/43**	**0.8**	375.0	52/46	0.8	382.7	54/50
14	342.6	39/31	2.5	355.0	44/37	2.7	**368.6**	**50/43**	**0.8**	376.1	52/46	0.8	383.8	54/50
12	343.5	39/31	2.5	356.0	45/37	2.7	**369.7**	**50/44**	**0.8**	377.2	52/47	0.8	384.9	54/50
10	344.4	40/31	2.5	357.0	45/37	2.7	**370.7**	**50/44**	**0.8**	378.3	53/47	0.8	386.0	55/50
8	345.4	40/31	2.5	358.0	45/38	2.8	**371.8**	**50/44**	**0.8**	379.5	53/47	0.8	387.4	55/51
6	346.4	40/32	2.5	359.0	46/38	2.8	**372.9**	**51/44**	**0.8**	380.6	53/48	0.9	389.3	55/51
4	347.4	40/32	2.5	360.1	46/38	2.8	**374.0**	**51/45**	**0.8**	381.7	53/48	1.0	391.3	55/51
2	348.4	41/32	2.5	361.1	46/38	2.8	**375.2**	**51/45**	**0.8**	382.9	54/48	1.0	393.3	55/51
0	349.4	41/32	2.6	362.2	46/39	2.8	**376.3**	**52/45**	**0.8**	384.1	54/48	1.1	395.4	56/51

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400** LANDING DATA **PHOENIX**

A/D Elev **1135ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **SKY HARBOR (KPHX)**

RUNWAY	07L	07R	08	25L
Landing Distance Available	3140m / 10302ft	2377m/7800ft	3228m / 10590ft	2377m/7800ft
Slope	.22 UP	.09 UP	.23 UP	.09 DN
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	258.0 (233.0)	11kt (5kt)	258.0 (233.0)
25F Zero HW wt or TW (Autoland)	7kt (2kt)			
25F Slippery Zero HW wt or TW (Manual)	253.0	NOT AUTH	262.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)	253.0			
30F Zero HW wt or TW (Manual)	8kt (3kt)	275.0 (247.0)	11kt (5kt)	275.0 (247.0)
30F Zero HW wt or TW (Autoland)	7kt (2kt)			
30F Slippery Zero HW wt or TW (Manual)	277.0	209.0	280.8	209.0
30F Slippery Zero HW wt or TW (Autoland)	277.0			
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain/Obstacles located **NORTH WEST** and **NORTH EAST** of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **PHOENIX**

A/D Elev **1135ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **SKY HARBOR (KPHX)**

RUNWAY	**25R**	**26**		
Landing Distance Available	3140m / 10302ft	3502m / 11489ft		
Slope	.22 DN	.23 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	15kt (9kt)		
25F Zero HW wt or TW (Autoland)		15kt (9kt)		
25F Slippery Zero HW wt or TW (Manual)	253.0	284.0		
25F Slippery Zero HW wt or TW (Autoland)		284.0		
30F Zero HW wt or TW (Manual)	8kt (3kt)	15kt (9kt)		
30F Zero HW wt or TW (Autoland)		15kt (9kt)		
30F Slippery Zero HW wt or TW (Manual)	277.0	280.8		
30F Slippery Zero HW wt or TW (Autoland)		280.8		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain/Obstacles located **NORTH WEST** and **NORTH EAST** of the airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHOENIX**

A/D Elev **1135ft** **SKY HARBOR (KPHX)**

F/L (TWY E3) RWY 07L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.233% UP
TOR	3139m (10298ft)	**ED**	3139m (10298ft)	**TOD**	3139m (10298ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.9	27/16	1.7	261.3	32/21	1.6	**269.4**	**38/27**	**0.5**	274.3	40/30	0.5	279.2	43/33
66	261.4	28/17	1.7	270.1	33/22	1.7	**278.7**	**39/28**	**0.5**	283.8	41/31	0.6	289.3	43/34
62	271.3	31/19	1.8	280.5	36/25	1.8	**289.5**	**41/31**	**0.5**	294.9	43/34	0.6	300.6	46/37
58	280.2	32/21	2.0	290.1	37/27	2.0	**299.9**	**42/33**	**0.6**	305.5	44/36	0.6	311.3	46/39
54	287.6	32/23	2.1	297.9	37/29	2.2	**308.7**	**42/35**	**0.6**	314.5	45/38	0.6	320.5	47/41
52	291.4	33/22	2.1	301.8	38/28	2.2	**312.8**	**43/34**	**0.6**	318.7	45/37	0.6	324.7	48/40
50	295.3	34/23	2.1	305.8	39/29	2.2	**317.0**	**44/35**	**0.6**	323.0	46/38	0.6	329.2	49/41
48	299.2	35/24	2.1	309.9	40/30	2.3	**321.2**	**45/36**	**0.6**	327.2	47/39	0.6	333.3	50/42
46	302.1	34/25	2.2	312.9	39/30	2.4	**324.8**	**44/36**	**0.6**	331.1	47/39	0.6	337.2	49/43
44	305.7	35/25	2.2	316.7	40/31	2.4	**328.7**	**45/37**	**0.6**	334.9	47/40	0.6	341.1	50/43
42	309.6	36/26	2.2	320.7	41/32	2.4	**332.7**	**46/38**	**0.6**	339.0	48/41	0.6	345.2	51/44
40	313.5	37/27	2.2	324.7	42/33	2.4	**336.8**	**47/39**	**0.6**	343.1	49/42	0.6	349.4	51/45
38	316.9	36/28	2.3	328.5	41/34	2.5	**340.8**	**46/40**	**0.6**	347.2	48/43	0.6	353.6	50/46
36	321.0	37/28	2.3	332.6	42/34	2.5	**344.9**	**47/40**	**0.7**	351.5	49/43	0.7	358.0	51/47
34	324.8	38/29	2.3	336.5	43/35	2.5	**348.9**	**48/41**	**0.7**	355.6	50/44	0.7	362.3	52/48
32	328.4	38/30	2.4	340.2	43/36	2.5	**352.7**	**48/42**	**0.7**	359.5	51/45	0.7	366.3	53/48
30	332.4	37/31	2.4	344.2	43/36	2.5	**356.9**	**48/43**	**0.7**	363.9	50/46	0.7	370.9	52/49
28	335.1	38/31	2.4	347.0	43/37	2.6	**359.9**	**48/43**	**0.7**	367.0	50/46	0.7	374.1	53/50
26	337.5	38/32	2.4	349.4	44/38	2.6	**362.5**	**49/44**	**0.7**	369.7	51/47	0.7	376.8	53/50
24	338.4	39/32	2.4	350.3	44/38	2.6	**363.5**	**49/44**	**0.7**	370.7	51/47	0.7	377.9	53/51
22	339.3	39/32	2.4	351.3	44/38	2.6	**364.4**	**49/44**	**0.7**	371.7	51/47	0.7	378.9	54/51
20	340.2	39/32	2.4	352.2	44/38	2.7	**365.5**	**50/45**	**0.7**	372.7	52/48	0.7	380.0	54/51
18	341.1	40/33	2.4	353.1	45/39	2.7	**366.5**	**50/45**	**0.7**	373.8	52/48	0.7	381.1	54/51
16	342.0	40/33	2.4	354.1	45/39	2.7	**367.5**	**50/45**	**0.7**	374.8	52/48	0.7	382.1	55/52
14	342.9	40/33	2.4	355.1	45/39	2.7	**368.6**	**50/45**	**0.7**	375.9	53/48	0.7	383.2	55/52
12	343.8	40/33	2.4	356.0	46/39	2.7	**369.6**	**51/46**	**0.7**	377.0	53/49	0.7	384.3	55/52
10	344.8	41/34	2.4	357.0	46/40	2.7	**370.7**	**51/46**	**0.7**	378.1	53/49	0.7	385.4	55/52
8	345.7	41/34	2.5	358.0	46/40	2.8	**371.8**	**51/46**	**0.7**	379.2	53/49	0.7	386.6	56/53
6	346.7	41/34	2.5	359.1	46/40	2.8	**372.9**	**51/46**	**0.8**	380.4	54/50	0.8	388.3	56/53
4	347.7	41/34	2.5	360.1	47/40	2.8	**374.0**	**52/47**	**0.8**	381.5	54/50	0.9	390.2	56/53
2	348.7	42/35	2.5	361.2	47/41	2.8	**375.1**	**52/47**	**0.8**	382.6	54/50	1.0	392.2	56/53
0	349.7	42/35	2.5	362.2	47/41	2.8	**376.2**	**52/47**	**0.8**	383.8	55/50	1.0	394.2	56/53

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 07L

EMERGENCY TURN PROCEDURE - Rwy 07L

BXK CHILY BALDY MOBIE SILOW SJN and TFD SIDs Engine Failure BEFORE PXR 4d - Follow SID to PXR 4d. Direct IWA. Hold at IWA. Engine Failure AFTER PXR 4d and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

STRRM BROAK ECLPS FORPE QUAKY ZEPER SNOBL and MRBIL SIDs Engine Failure BEFORE SPRKY - Follow SID to SPRKY. Direct IWA. Hold at IWA. Engine Failure AFTER SPRKY and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

IZZZO and FYBRD SIDs Engine Failure BEFORE FUTEP - Follow SID to FUTEP. Direct IWA. Hold at IWA. Engine Failure AFTER FUTEP and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

KEENS SID No restrictions - ensure MSA is reached before continuing past IZZZO

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHOENIX**

A/D Elev **1135ft** **SKY HARBOR (KPHX)**

F/L (TWY B1) RWY 08

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.209% UP
TOR	3502m (11489ft)	**ED**	3502m (11489ft)	**TOD**	3502m (11489ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.8	32/21	1.4	272.6	38/27	1.2	**278.8**	**44/33**	**0.4**	282.3	46/36	0.4	285.8	47/39
66	274.8	33/23	1.8	283.9	38/28	1.5	**291.2**	**43/34**	**0.4**	295.0	46/37	0.4	298.8	48/40
62	285.4	36/25	1.9	295.0	41/31	1.8	**304.1**	**46/36**	**0.4**	308.2	48/39	0.4	312.2	51/42
58	294.6	36/28	2.0	304.8	41/33	2.0	**314.9**	**46/39**	**0.6**	320.6	48/42	0.4	324.8	50/45
54	302.6	37/29	2.1	313.1	42/35	2.2	**324.2**	**47/41**	**0.6**	330.1	49/44	0.6	335.7	51/47
52	306.6	38/29	2.1	317.2	43/34	2.3	**328.5**	**48/40**	**0.6**	334.3	50/43	0.6	340.3	52/46
50	310.8	39/29	2.2	321.6	44/35	2.3	**332.9**	**49/41**	**0.6**	338.7	51/44	0.6	344.7	53/47
48	314.8	40/30	2.2	325.7	45/36	2.3	**337.0**	**50/41**	**0.6**	342.9	52/44	0.6	349.0	54/48
46	318.0	39/31	2.2	329.2	44/37	2.3	**340.7**	**49/42**	**0.6**	346.8	51/45	0.6	353.1	53/48
44	321.9	40/32	2.2	333.0	45/37	2.3	**344.6**	**50/43**	**0.6**	350.9	52/46	0.6	357.3	54/49
42	325.9	41/33	2.2	337.1	46/38	2.3	**348.8**	**51/44**	**0.6**	355.1	53/47	0.7	361.7	55/50
40	330.0	42/33	2.2	341.2	47/39	2.4	**353.1**	**51/45**	**0.7**	359.6	54/48	0.7	366.3	56/51
38	333.8	41/34	2.3	345.2	45/40	2.5	**357.5**	**50/46**	**0.7**	364.1	52/49	0.7	371.0	55/52
36	337.9	42/35	2.3	349.5	46/41	2.5	**362.0**	**51/46**	**0.7**	368.9	53/50	0.7	375.9	55/53
34	341.8	42/36	2.4	353.6	47/41	2.6	**366.4**	**52/47**	**0.7**	373.4	54/50	0.7	380.5	56/53
32	345.5	43/36	2.4	357.4	48/42	2.6	**370.5**	**53/48**	**0.7**	377.6	55/51	0.7	384.8	57/54
30	349.7	42/37	2.4	361.8	47/43	2.7	**375.1**	**52/49**	**0.7**	382.3	54/52	0.9	391.3	56/55
28	352.5	43/38	2.5	364.9	48/43	2.7	**378.3**	**53/49**	**0.7**	385.5	55/52	1.1	396.6	56/55
26	355.0	43/38	2.5	367.6	48/44	2.7	**381.1**	**53/50**	**0.8**	389.4	55/53	1.0	399.3	57/55
24	356.0	44/38	2.5	368.6	49/44	2.7	**382.2**	**53/50**	**0.9**	391.2	55/53	0.9	400.3	57/56
22	356.9	44/39	2.5	369.6	49/45	2.7	**383.2**	**54/50**	**1.0**	393.0	55/53	0.8	401.3	57/56
20	357.9	44/39	2.5	370.6	49/45	2.7	**384.3**	**54/51**	**1.1**	394.8	56/53	0.8	402.3	58/56
18	358.9	44/39	2.6	371.7	49/45	2.7	**385.3**	**54/51**	**1.1**	396.4	56/53	0.7	403.4	58/56
16	359.9	45/39	2.6	372.7	50/45	2.7	**386.4**	**55/51**	**1.1**	397.4	56/54	0.7	404.4	58/57
14	360.8	45/40	2.6	373.8	50/46	2.8	**388.0**	**55/51**	**1.1**	398.5	56/54	0.7	405.5	58/57
12	361.9	45/40	2.6	374.8	50/46	3.0	**389.9**	**55/52**	**1.0**	399.6	56/54	0.7	406.6	59/57
10	362.9	45/40	2.6	375.9	50/46	3.2	**391.8**	**55/52**	**0.9**	400.7	57/54	0.7	407.7	59/58
8	363.9	46/40	2.6	377.1	51/46	3.3	**393.7**	**55/52**	**0.8**	401.7	57/55	0.7	408.9	59/58
6	365.0	46/41	2.6	378.2	51/47	3.5	**395.7**	**55/52**	**0.7**	402.8	57/55	0.7	410.0	60/58
4	366.1	46/41	2.6	379.3	51/47	3.5	**396.9**	**55/52**	**0.7**	403.9	58/55	0.7	411.1	60/58
2	367.2	47/41	2.7	380.5	52/47	3.5	**398.0**	**56/52**	**0.7**	405.1	58/55	0.7	412.3	60/59
0	368.3	47/42	2.7	381.6	52/47	3.5	**399.2**	**56/53**	**0.7**	406.2	58/56	0.7	413.4	60/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 08

EMERGENCY TURN PROCEDURE - Rwy 08

BXK CHILY BALDY MOBIE SILOW SJN and TFD SIDs Engine Failure BEFORE PXR 4d - Follow SID to PXR 4d. Direct IWA. Hold at IWA. Engine Failure AFTER PXR 4d and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

STRRM BROAK ECLPS FORPE QUAKY ZEPER SNOBL and MRBIL SIDs Engine Failure BEFORE SPRKY - Follow SID to SPRKY. Direct IWA. Hold at IWA. Engine Failure AFTER SPRKY and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

IZZZO and FYBRD SIDs Engine Failure BEFORE FUTEP - Follow SID to FUTEP. Direct IWA. Hold at IWA. Engine Failure AFTER FUTEP and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

KEENS SID No restriction - ensure MSA is met before continuing past IZZZO

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHOENIX**

A/D Elev **1135ft** **SKY HARBOR (KPHX)**

F/L (TWY E13) RWY 25R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.233% DN
TOR	3139m (10298ft)	**ED**	3139m (10298ft)	**TOD**	3139m (10298ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	255.6	27/16	1.7	264.0	33/21	1.6	**272.1**	**38/27**	**0.5**	277.1	41/30	0.5	282.4	43/33
66	264.2	28/17	1.8	273.0	34/23	1.7	**281.6**	**39/28**	**0.5**	286.8	41/31	0.6	292.3	43/34
62	274.3	31/20	1.8	283.5	36/25	1.8	**292.6**	**42/31**	**0.6**	298.1	44/34	0.6	303.7	46/37
58	283.2	32/22	2.0	293.1	37/27	2.0	**303.0**	**42/33**	**0.6**	308.7	44/36	0.6	314.6	46/39
54	290.9	33/23	2.0	301.0	38/29	2.2	**312.0**	**43/35**	**0.6**	317.8	45/38	0.6	323.9	47/41
52	294.6	34/23	2.1	304.9	39/28	2.2	**316.1**	**44/34**	**0.6**	322.0	46/37	0.6	328.2	48/40
50	298.7	34/23	2.1	309.1	39/29	2.3	**320.4**	**44/35**	**0.6**	326.4	47/38	0.6	332.6	49/41
48	302.5	35/24	2.1	313.1	40/30	2.3	**324.6**	**45/36**	**0.6**	330.7	48/39	0.6	336.7	50/42
46	305.5	35/25	2.2	316.3	40/31	2.4	**328.2**	**45/37**	**0.6**	334.4	47/40	0.6	340.6	49/43
44	309.3	35/26	2.2	320.2	41/31	2.4	**332.1**	**46/37**	**0.6**	338.3	48/40	0.6	344.6	50/44
42	313.1	36/26	2.2	324.1	41/32	2.4	**336.0**	**46/38**	**0.6**	342.4	49/41	0.6	348.7	51/44
40	317.0	37/27	2.2	328.2	42/33	2.4	**340.2**	**47/39**	**0.6**	346.5	49/42	0.7	353.0	52/45
38	320.6	36/28	2.3	332.0	41/34	2.4	**344.2**	**46/40**	**0.7**	350.8	48/43	0.7	357.4	50/46
36	324.6	37/29	2.3	336.1	42/35	2.5	**348.5**	**47/41**	**0.7**	355.1	49/44	0.7	361.9	51/47
34	328.5	38/29	2.3	340.1	43/35	2.5	**352.5**	**48/41**	**0.7**	359.3	50/44	0.7	366.3	52/48
32	332.1	39/30	2.3	343.7	44/36	2.5	**356.3**	**49/42**	**0.7**	363.3	51/45	0.7	370.4	53/49
30	336.1	38/31	2.3	347.8	43/37	2.6	**360.7**	**48/43**	**0.7**	367.7	50/46	0.7	374.9	52/49
28	338.9	38/31	2.4	350.7	43/37	2.6	**363.7**	**48/43**	**0.7**	370.9	51/47	0.7	378.2	53/50
26	341.3	39/32	2.4	353.1	44/38	2.6	**366.3**	**49/44**	**0.7**	373.6	51/47	0.7	381.0	53/50
24	342.2	39/32	2.4	354.0	44/38	2.7	**367.3**	**49/44**	**0.7**	374.6	51/47	0.7	382.0	54/51
22	343.1	39/32	2.4	355.0	44/38	2.7	**368.4**	**49/44**	**0.7**	375.7	52/48	0.7	383.1	54/51
20	344.0	39/33	2.4	355.9	45/39	2.7	**369.4**	**50/45**	**0.7**	376.7	52/48	0.7	384.1	54/51
18	344.9	40/33	2.4	356.9	45/39	2.7	**370.4**	**50/45**	**0.7**	377.8	52/48	0.7	385.2	54/51
16	345.8	40/33	2.4	357.9	45/39	2.7	**371.5**	**50/45**	**0.7**	378.9	53/48	0.7	386.3	55/52
14	346.7	40/33	2.4	358.9	46/39	2.7	**372.5**	**51/46**	**0.8**	380.0	53/49	0.8	387.8	55/52
12	347.7	41/34	2.4	359.9	46/40	2.7	**373.6**	**51/46**	**0.8**	381.1	53/49	0.9	389.7	55/52
10	348.7	41/34	2.4	360.9	46/40	2.8	**374.7**	**51/46**	**0.8**	382.2	53/49	0.9	391.6	55/52
8	349.6	41/34	2.5	361.9	46/40	2.8	**375.8**	**51/46**	**0.8**	383.3	54/49	1.0	393.5	55/52
6	350.6	41/34	2.5	363.0	47/40	2.8	**376.9**	**52/47**	**0.8**	384.4	54/50	1.1	395.5	55/52
4	351.6	42/35	2.5	364.0	47/41	2.8	**378.0**	**52/47**	**0.8**	385.6	54/50	1.1	396.8	56/53
2	352.6	42/35	2.5	365.1	47/41	2.8	**379.2**	**52/47**	**0.8**	386.7	54/50	1.1	397.9	56/53
0	353.6	42/35	2.5	366.2	47/41	2.8	**380.4**	**53/47**	**0.8**	388.6	55/50	1.1	399.1	56/53

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 25R

EMERGENCY TURN PROCEDURE - Rwy 25R

BXK CHILY BALDY MOBIE SILOW SJN and TFD SIDs Engine Failure BEFORE PXR 9d - Follow SID to PXR 9d. Turn left hdg 180. Intercept PXR 12d ARC to EAST. Track PXR 12d ARC until crossing PXR R180. Direct IWA. Hold at IWA. Engine Failure AFTER PXR 9d and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

BROAK and ECLPS SIDs Engine Failure BEFORE WETAL - Follow SID to RIICH. Direct IWA. Hold at IWA. Engine Failure AFTER WETAL and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

FYBRD and STRRM SIDs Engine failure before WETAL Continue on SID to WETAL and DCT to IWA. Hold at IWA. After WETAL and below MSA - DCT to IWA for hold. Above MSA - no restrictions.

WETAL SID Engine Failure BELOW MSA - Follow SID to JUTAK. Direct BUNEE. Direct IWA. Hold at IWA.Engine Failure ABOVE MSA - No restrictions.

FORPE SNOBL and MRBIL SIDs. Engine Failure BEFORE ZILUB - Follow SID to ZILUB. Direct IWA. Hold at IWA. Engine Failure AFTER ZILUB and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

QUAKY and ZEPER SIDs Engine Failure BEFORE TWSND - Follow SID to TWSND. Direct ZILUB. 2nm prior ZILUB turn direct IWA. Hold at IWA. Engine Failure AFTER TWSND and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

IZZZO and KEENS SIDs. No restrictions. Ensure MSA achieved before continuing past IZZZO.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **PHOENIX**

A/D Elev **1135ft** **SKY HARBOR (KPHX)**

F/L (TWY B13) RWY 26

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.209% DN
TOR	3502m (11489ft)	**ED**	3502m (11489ft)	**TOD**	3502m (11489ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	266.6	33/22	1.4	273.7	38/28	1.4	**280.5**	**44/33**	**0.4**	284.3	47/36	0.3	286.9	48/40
66	277.3	34/23	1.5	285.0	39/29	1.4	**292.2**	**44/34**	**0.4**	296.3	46/37	0.4	300.6	49/41
62	288.5	36/26	1.7	297.2	41/31	1.5	**304.8**	**46/37**	**0.4**	309.2	49/40	0.4	313.6	51/43
58	297.8	37/28	2.0	307.8	41/33	1.8	**316.6**	**46/39**	**0.5**	321.2	49/42	0.5	325.9	51/45
54	305.8	37/30	2.1	316.2	42/35	2.1	**326.9**	**47/41**	**0.5**	331.7	49/44	0.5	336.4	52/47
52	309.9	38/29	2.1	320.4	43/34	2.2	**331.5**	**48/40**	**0.5**	336.4	50/43	0.5	341.2	52/46
50	314.1	39/30	2.1	324.7	44/35	2.3	**336.0**	**49/41**	**0.5**	341.3	51/44	0.5	346.1	53/47
48	318.2	40/31	2.2	329.0	45/36	2.3	**340.3**	**50/42**	**0.6**	345.9	52/45	0.5	351.0	54/48
46	321.5	39/31	2.2	332.4	44/37	2.3	**344.0**	**49/43**	**0.6**	350.2	51/46	0.6	355.7	53/49
44	325.4	40/32	2.2	336.3	45/38	2.3	**348.0**	**50/43**	**0.6**	354.2	52/46	0.6	360.3	54/50
42	329.5	41/33	2.2	340.4	46/39	2.4	**352.2**	**51/44**	**0.6**	358.6	53/47	0.7	365.2	55/50
40	333.5	42/34	2.2	344.5	47/39	2.4	**356.6**	**52/45**	**0.7**	363.1	54/48	0.7	369.9	56/51
38	337.3	41/35	2.3	348.6	46/40	2.5	**361.1**	**51/46**	**0.7**	367.8	53/49	0.7	374.7	55/52
36	341.5	42/35	2.3	352.9	47/41	2.6	**365.7**	**51/47**	**0.7**	372.6	54/50	0.7	379.7	56/53
34	345.4	42/36	2.3	357.1	47/42	2.6	**370.2**	**52/48**	**0.7**	377.1	54/51	0.7	384.3	56/54
32	349.2	43/37	2.4	361.0	48/42	2.7	**374.3**	**53/48**	**0.7**	381.4	55/51	0.8	389.7	57/54
30	353.4	42/37	2.4	365.5	47/43	2.7	**379.1**	**52/49**	**0.7**	386.2	54/52	1.1	397.1	56/55
28	356.3	43/38	2.5	368.7	48/44	2.7	**382.3**	**53/50**	**0.9**	391.3	55/52	0.9	400.3	56/55
26	358.9	44/39	2.5	371.4	48/44	2.7	**385.1**	**53/50**	**1.1**	396.0	55/52	0.7	402.9	57/56
24	359.8	44/39	2.5	372.4	49/45	2.8	**386.2**	**54/50**	**1.1**	397.1	55/53	0.7	404.0	57/56
22	360.8	44/39	2.5	373.4	49/45	2.8	**387.5**	**54/51**	**1.1**	398.1	55/53	0.7	405.0	57/56
20	361.8	44/39	2.5	374.5	49/45	3.0	**389.3**	**54/51**	**1.0**	399.1	56/53	0.7	406.1	58/56
18	362.8	45/40	2.5	375.5	49/45	3.1	**391.1**	**54/51**	**0.9**	400.2	56/53	0.7	407.1	58/57
16	363.8	45/40	2.6	376.6	50/46	3.3	**393.0**	**54/51**	**0.8**	401.2	56/54	0.7	408.2	58/57
14	364.8	45/40	2.6	377.7	50/46	3.4	**394.9**	**54/51**	**0.7**	402.3	56/54	0.7	409.3	59/57
12	365.8	45/40	2.6	378.8	50/46	3.5	**396.4**	**55/51**	**0.7**	403.3	57/54	0.7	410.3	59/58
10	366.9	46/41	2.6	379.9	51/46	3.5	**397.5**	**55/52**	**0.7**	404.4	57/55	0.7	411.2	59/58
8	368.0	46/41	2.6	381.0	51/47	3.5	**398.6**	**55/52**	**0.7**	405.5	57/55	0.7	412.0	59/58
6	369.1	46/41	2.6	382.1	51/47	3.5	**399.7**	**55/52**	**0.7**	406.7	57/55	0.6	412.9	60/58
4	370.2	46/41	2.6	383.3	51/47	3.5	**400.8**	**56/52**	**0.7**	407.7	58/55	0.6	413.8	60/59
2	371.3	47/42	2.6	384.4	52/47	3.5	**401.9**	**56/53**	**0.7**	408.6	58/56	0.6	414.7	60/59
0	372.4	47/42	2.6	385.6	52/48	3.5	**403.0**	**56/53**	**0.7**	409.5	59/56	0.6	415.5	61/59

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 26

EMERGENCY TURN PROCEDURE - Rwy 26

BXK CHILY BALDY MOBIE SILOW SJN and TFD SIDs Engine Failure BEFORE PXR 9d - Follow SID to PXR 9d. Turn left hdg 180. Intercept PXR 12d ARC to EAST. Track PXR 12d ARC until crossing PXR R180. Direct IWA. Hold at IWA. Engine Failure AFTER PXR 9d and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

BROAK and ECLPS SIDs Engine Failure BEFORE WETAL - Follow SID to RIICH. Direct IWA. Hold at IWA. Engine Failure AFTER WETAL and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

FYBRD and STRRM SIDs Engine Failure before WETAL Follow SID to WETAL turn DCT to IWA. Hold at IWA. After WETAL and before MSA Turn DCT to IWA for hold and return. Above MSA - no restrictions

WETAL SID Engine Failure BELOW MSA - Follow SID to JUTAK. Direct BUNEE. Direct IWA. Hold at IWA.Engine Failure ABOVE MSA - No restrictions.

FORPE SNOBL and MRBIL SIDs. Engine Failure BEFORE ZILUB - Follow SID to ZILUB. Direct IWA. Hold at IWA. Engine Failure AFTER ZILUB and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

QUAKY and ZEPER SIDs. Engine Failure BEFORE TWSND - Follow SID to TWSND. Direct ZILUB. 2nm prior ZILUB turn direct IWA. Hold at IWA. Engine Failure AFTER TWSND and BELOW MSA - Direct IWA. Hold at IWA. Engine Failure ABOVE MSA - No restrictions.

IZZZO and KEENS SIDs. No restrictions. Ensure MSA achieved before continuing past IZZZO.

PITTSBURGH INTL

(KPIT)

PITTSBURGH INTL and runways 10L, 10C, 10R, 14, 28L, 28C, 28R, 32 authorised for enroute diversion.

Use QRH data to calculate landing performance.

PORTSMOUTH INTL AT PEASE (KPSM)

PORTSMOUTH INTL AT PEASE and runways 16, 34 authorised for enroute diversion.

Use QRH data to calculate landing performance.

RALEIGH-DURHAM INTL (KRDU)

RALEIGH-DURHAM INTL and runways 05L, 23R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHICAGO**

A/D Elev **742ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **ROCKFORD (KRFD)**

RUNWAY	01	07	19	25
Landing Distance Available	2499m / 8199ft	3049m / 10002ft	2469m / 8099ft	3049m / 10002ft
Slope	.33UP	.06DN	.33DN	.06UP
Notes				
WAT LIMIT °C : Man / Auto	53°	53°/53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	273.8 (250.9)	7kt (2kt)	271.5 (246.9)	7kt (2kt)
25F Zero HW wt or TW (Autoland)		7kt (2kt)		
25F Slippery Zero HW wt or TW (Manual)	205.4	252.5	202.7	252.5
25F Slippery Zero HW wt or TW (Autoland)		252.5		
30F Zero HW wt or TW (Manual)	1kt (270.4)	14kt (8kt)	1kt (267.4)	14kt (8kt)
30F Zero HW wt or TW (Autoland)		14kt (8kt)		
30F Slippery Zero HW wt or TW (Manual)	226.2	275.6	223.3	275.6
30F Slippery Zero HW wt or TW (Autoland)		275.6		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAN DIEGO (KSAN)**

A/D Elev **17ft** Max wt Permitted (For pre flt planning) **262,610kg**

RUNWAY	**09**	**27**		
Landing Distance Available	2218m / 7277ft	2313m / 7589ft		
		.		
Notes	Notes 1,2,3	Notes 1,2		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	245.0 (222.0)	259.0 (234.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	261.0 (238.0)	274.0 (252.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	200.0	213.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Engine power after clearing Runway after Landing:** Outboard Engine power MUST not exceed Idle power after clearing the Runway. Do not Shut-down Number 3 engine.
2. **Braking Action:** The centre of the runway is ungroved, therfore it may have degraded braking action when wet.
3. **MACG:** 4.5% minima can be used up to 54°C and up to 285760kg.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN DIEGO**

A/D Elev **17ft** **LINDBERGH FIELD (KSAN)**

F/L (TWY B10) RWY 09

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.024% UP
TOR	2523m (8277ft)	**ED**	2523m (8277ft)	**TOD**	2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	221.4	22/11	1.2	227.6	24/16	1.3	**234.0**	**27/22**	**0.4**	237.6	28/26	0.4	241.1	30/29
66	231.0	23/11	1.4	238.2	27/16	1.4	**245.1**	**30/22**	**0.4**	248.9	31/25	0.4	252.7	33/29
62	239.9	25/12	1.9	249.2	30/18	1.5	**256.6**	**33/24**	**0.4**	260.6	35/28	0.4	264.6	36/31
58	248.4	27/14	1.9	257.8	33/20	1.9	**267.4**	**36/26**	**0.4**	271.7	38/30	0.4	275.9	40/33
54	255.5	28/15	2.2	266.6	34/21	1.7	**275.2**	**38/28**	**0.6**	281.4	41/31	0.5	285.9	42/35
52	258.9	29/15	2.4	270.9	35/21	1.6	**278.9**	**39/27**	**0.6**	285.0	41/31	0.6	290.6	43/34
50	262.3	29/15	2.6	275.3	34/21	1.6	**283.5**	**40/28**	**0.5**	288.9	42/31	0.6	295.3	45/35
48	265.5	30/16	2.8	279.6	35/22	1.7	**287.9**	**41/29**	**0.5**	292.6	43/32	0.7	299.2	45/36
46	268.8	31/17	3.0	283.9	36/23	1.7	**292.3**	**42/29**	**0.5**	297.1	44/33	0.6	302.9	46/36
44	272.0	31/18	3.2	288.1	36/23	1.7	**296.6**	**42/30**	**0.5**	301.5	45/33	0.5	306.5	47/37
42	275.3	31/18	3.3	292.0	35/24	1.8	**301.0**	**41/31**	**0.5**	305.9	44/34	0.5	310.8	47/38
40	278.8	32/19	3.4	295.6	36/25	2.0	**305.4**	**42/31**	**0.5**	310.4	45/35	0.5	315.3	48/39
38	282.2	33/20	3.4	299.4	37/25	2.2	**310.2**	**43/32**	**0.5**	315.2	46/36	0.5	320.2	49/39
36	285.2	33/20	3.6	303.2	38/26	2.3	**314.9**	**43/33**	**0.5**	320.0	46/36	0.5	325.1	49/40
34	283.9	33/21	4.6	306.8	37/27	2.5	**319.3**	**43/33**	**0.5**	324.5	45/37	0.5	329.7	48/41
32	283.8	33/22	5.3	310.3	38/27	2.6	**323.5**	**43/34**	**0.5**	328.8	46/38	0.5	334.0	49/41
30	282.7	34/24	6.3	314.1	39/28	2.8	**328.0**	**44/35**	**0.5**	333.3	47/38	0.5	338.6	49/42
28	286.5	34/24	5.7	315.0	39/28	2.7	**328.5**	**44/35**	**0.5**	333.8	47/39	0.5	339.1	50/42
26	290.3	35/23	5.1	315.8	39/29	2.6	**329.0**	**45/35**	**0.5**	334.2	47/39	0.5	339.5	50/43
24	294.3	35/23	4.5	316.7	39/29	2.5	**329.4**	**45/36**	**0.5**	334.6	48/39	0.5	339.9	51/43
22	299.2	35/23	3.7	317.5	40/29	2.5	**329.8**	**45/36**	**0.5**	335.1	48/40	0.5	340.3	51/43
20	300.0	36/23	3.7	318.4	40/29	2.4	**330.2**	**46/36**	**0.5**	335.5	48/40	0.5	340.8	51/44
18	300.8	36/24	3.7	319.3	40/30	2.3	**330.7**	**46/37**	**0.5**	335.9	49/40	0.5	341.2	52/44
16	301.7	36/24	3.7	320.2	41/30	2.2	**331.1**	**46/37**	**0.5**	336.3	49/41	0.5	341.6	52/44
14	302.5	36/24	3.7	321.1	41/30	2.1	**331.5**	**47/37**	**0.5**	336.8	50/41	0.5	342.0	53/45
12	303.4	37/24	3.7	322.0	41/30	2.0	**331.9**	**47/38**	**0.5**	337.2	50/41	0.5	342.5	53/45
10	304.2	37/25	3.7	322.9	41/31	1.9	**332.4**	**48/38**	**0.5**	337.6	50/42	0.5	342.9	53/46
8	305.1	37/25	3.7	323.4	42/31	1.9	**332.8**	**48/38**	**0.5**	338.1	51/42	0.6	343.8	54/46
6	306.0	38/25	3.6	323.9	42/31	1.9	**333.2**	**48/39**	**0.5**	338.5	51/42	0.6	344.7	54/46
4	306.9	38/25	3.5	324.3	43/32	1.9	**333.7**	**49/39**	**0.5**	339.0	52/43	0.7	345.7	54/46
2	307.9	38/26	3.4	324.7	43/32	1.9	**334.1**	**49/39**	**0.5**	339.4	52/43	0.7	346.7	55/47
0	308.8	38/26	3.3	325.2	43/32	1.9	**334.6**	**50/40**	**0.6**	340.4	53/43	0.7	347.7	55/47

P/C above 1013 + 0.1
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 09

BORDER SID ENG FAILURE BEFORE 5000FT QNH - TURN RIGHT TO VOR PGY. AT PGY TURN RIGHT TO TRACK 258M AND CONTACT ATC FOR INSTRUCTIONS. ENG FAILURE AFTER 5000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. FALCC/MMOTO SIDs ENGINE FAILURE BEFORE 4000FT QNH - TURN RIGHT TO VOR PGY. AT PGY TURN RIGHT TO TRACK 258M AND CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 4000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN DIEGO**

A/D Elev **17ft** **LINDBERGH FIELD (KSAN)**

F/L (TWY C1/B1) RWY 27

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.021% DN
TOR	2865m (9399ft)	**ED**	2865m (9399ft)	**TOD**	2865m (9399ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	247.9	26/14	1.6	255.8	32/20	1.3	**262.1**	**37/26**	**0.4**	265.6	39/30	0.4	269.2	40/33
66	257.2	28/15	1.7	265.6	34/21	1.6	**273.8**	**39/27**	**0.4**	278.0	42/30	0.4	281.8	44/34
62	267.5	30/18	1.8	276.4	36/23	1.7	**285.0**	**42/30**	**0.5**	290.2	44/33	0.5	294.9	47/36
58	277.3	32/20	1.9	286.7	37/26	1.8	**295.7**	**43/32**	**0.5**	301.1	45/35	0.5	306.5	47/38
54	285.8	32/21	1.9	295.5	38/27	1.9	**304.9**	**43/34**	**0.6**	310.5	46/37	0.6	316.0	48/40
52	289.7	33/20	2.0	299.7	39/26	1.9	**309.1**	**44/33**	**0.6**	314.8	47/36	0.6	320.5	49/39
50	293.3	32/21	2.1	303.6	38/27	2.0	**313.5**	**43/34**	**0.6**	319.3	46/37	0.6	325.0	48/40
48	297.2	33/22	2.1	307.7	39/28	2.0	**317.8**	**44/34**	**0.6**	323.6	47/38	0.6	329.4	49/41
46	301.1	34/23	2.1	311.7	39/29	2.0	**321.9**	**45/35**	**0.6**	327.9	48/38	0.6	333.6	50/42
44	304.8	35/23	2.2	315.6	40/29	2.1	**326.0**	**46/36**	**0.6**	332.0	48/39	0.6	337.8	51/42
42	308.0	34/24	2.2	319.1	39/30	2.2	**330.2**	**45/37**	**0.6**	336.2	47/40	0.6	342.0	50/43
40	311.9	35/25	2.3	323.2	40/31	2.2	**334.4**	**46/37**	**0.6**	340.5	48/41	0.6	346.3	50/44
38	316.0	36/26	2.3	327.4	41/32	2.3	**338.7**	**46/38**	**0.6**	344.8	49/41	0.6	350.8	51/45
36	320.3	36/26	2.3	331.7	42/32	2.3	**343.1**	**47/39**	**0.6**	349.3	50/42	0.6	355.4	52/46
34	324.1	36/27	2.3	335.6	41/33	2.3	**347.2**	**46/40**	**0.6**	353.6	49/43	0.6	359.8	51/46
32	327.9	36/28	2.3	339.5	42/34	2.3	**351.2**	**47/40**	**0.6**	357.6	49/44	0.6	364.0	52/47
30	331.9	37/28	2.3	343.5	42/34	2.4	**355.5**	**48/41**	**0.7**	362.1	50/44	0.7	368.7	53/48
28	332.7	37/29	2.3	344.4	43/35	2.4	**356.4**	**48/41**	**0.7**	363.0	51/45	0.7	369.6	53/48
26	333.5	38/29	2.3	345.2	43/35	2.4	**357.2**	**48/42**	**0.7**	363.9	51/45	0.7	370.5	53/48
24	334.3	38/29	2.3	346.0	43/35	2.4	**358.1**	**49/42**	**0.7**	364.8	51/45	0.7	371.4	54/49
22	335.1	38/29	2.4	346.9	44/35	2.4	**358.9**	**49/42**	**0.7**	365.6	51/45	0.7	372.3	54/49
20	336.0	38/30	2.3	347.7	44/36	2.4	**359.8**	**49/42**	**0.7**	366.5	52/46	0.7	373.2	54/49
18	336.8	39/30	2.4	348.6	44/36	2.4	**360.7**	**50/43**	**0.7**	367.4	52/46	0.7	374.1	54/50
16	337.6	39/30	2.4	349.4	44/36	2.4	**361.5**	**50/43**	**0.7**	368.3	52/46	0.7	375.1	55/50
14	338.5	39/30	2.4	350.3	45/37	2.4	**362.4**	**50/43**	**0.7**	369.3	53/47	0.7	376.0	55/50
12	339.4	40/31	2.4	351.2	45/37	2.4	**363.3**	**50/44**	**0.7**	370.2	53/47	0.7	377.0	55/50
10	340.2	40/31	2.4	352.1	45/37	2.4	**364.3**	**51/44**	**0.7**	371.1	53/47	0.7	377.9	56/51
8	341.1	40/31	2.4	353.0	46/37	2.4	**365.2**	**51/44**	**0.7**	372.1	54/47	0.7	378.9	56/51
6	342.0	40/31	2.4	353.9	46/38	2.4	**366.1**	**51/44**	**0.7**	373.0	54/48	0.7	379.9	56/51
4	342.8	41/32	2.4	354.8	46/38	2.5	**367.1**	**52/45**	**0.7**	374.0	54/48	0.7	380.9	57/52
2	343.7	41/32	2.4	355.8	47/38	2.4	**368.0**	**52/45**	**0.7**	375.0	54/48	0.7	381.9	57/52
0	344.6	41/32	2.4	356.7	47/38	2.5	**369.0**	**52/45**	**0.7**	376.0	55/49	0.7	382.9	57/52

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 27

FALCC/PEBLE/MMOTO/PADRZ SIDS NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

ZZOOO/BORDER/POGGI SIDS ENGINE FAILURE BEFORE PGY 19D/JETTI - CONTINUE ON DEPARTURE HEADING AND CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER PGY 19D/JETTI BUT BEFORE 5000FT QNH - TURN TO TRACK 168M AND CONTACT ATC FOR INSTRUCTIONS. ENGINE FAILURE AFTER 5000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAN ANTONIO (KSAT)**

A/D Elev **809ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	13R	31L		
Landing Distance Available	2591m / 8500ft	2591m / 8500ft		
Slope	.36DN	.36UP		
Notes				
WAT LIMIT °C : Man / Auto	53°/53°	53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	281.0 (260.0)	281.0 (260.0)		
25F Zero HW wt or TW (Autoland)	281.0 (260.0)			
25F Slippery Zero HW wt or TW (Manual)	208.0	208.0		
25F Slippery Zero HW wt or TW (Autoland)	208.0			
30F Zero HW wt or TW (Manual)	281.0 (280.8)	281.0 (280.8)		
30F Zero HW wt or TW (Autoland)	281.0 (280.8)			
30F Slippery Zero HW wt or TW (Manual)	231.0	231.0		
30F Slippery Zero HW wt or TW (Autoland)	231.0			
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SEATTLE**

A/D Elev **433ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **TACOMA (KSEA)**

RUNWAY	16L	16C	16R	34L
Landing Distance Available	3627m / 11900ft	2872m/9423ft	2590m / 8500ft	2590m / 8500ft
Slope	.72DN	.71DN	.70 DN	.70 UP
Notes	Notes 1,2	Notes 1,2	Notes 1,3	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°/53°		
25F Zero HW wt or TW (Manual)	15kt (12kt)	5kt (282.0)	283.0 (262.0)	283.0 (262.0)
25F Zero HW wt or TW (Autoland)	15kt (12kt)	5kt (282.0)	283.0 (262.0)	283.0 (262.0)
25F Slippery Zero HW wt or TW (Manual)	2kt	236.0	212.0	212.0
25F Slippery Zero HW wt or TW (Autoland)	2kt	236.0	212.0	212.0
30F Zero HW wt or TW (Manual)	15kt	11kt (5kt)	5kt (281.0)	5kt (281.0)
30F Zero HW wt or TW (Autoland)	15kt	11kt (5kt)	5kt (281.0)	5kt (281.0)
30F Slippery Zero HW wt or TW (Manual)	5kt	261.0	235.0	235.0
30F Slippery Zero HW wt or TW (Autoland)	5kt	261.0	235.0	235.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Warning : Terrain located WEST and NORTH EAST clockwise through SOUTH EAST of airfield.
2. Rwy 16L/C Final Approach Terrain:- Ground rises rapidly to threshold and will cause the radio altimeter to ramp up quickly. For 16L at approx 100ft above airfield RA will read 120R.
3. Rwy 16R Final Approach Terrain:- Ground rises rapidly to threshold and will cause the radio altimeter to ramp up quickly.

BRITISH AIRWAYS **B747-400** LANDING DATA **SEATTLE**

A/D Elev **433ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **TACOMA (KSEA)**

RUNWAY	**34C**	**34R**		
Landing Distance Available	2872m / 9423ft	3627m / 11900ft		
Slope	.71UP	.72UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	53° / 53°	53°/53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	5kt (282.0)	15kt (12kt)		
25F Zero HW wt or TW (Autoland)	5kt (282.0)	15kt (12kt)		
25F Slippery Zero HW wt or TW (Manual)	236.0	2kt		
25F Slippery Zero HW wt or TW (Autoland)	236.0	2kt		
30F Zero HW wt or TW (Manual)	11kt (5kt)	15kt		
30F Zero HW wt or TW (Autoland)	11kt (5kt)	15kt		
30F Slippery Zero HW wt or TW (Manual)	261.0	5kt		
30F Slippery Zero HW wt or TW (Autoland)	261.0	5kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Warning :** Terrain located WEST and NORTH EAST clockwise through SOUTH EAST of airfield.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY C) RWY 16C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.711% DN
TOR	2873m (9425ft)	**ED**	2873m (9425ft)	**TOD**	2873m (9425ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	252.7	24/12	1.7	261.0	29/18	1.6	**269.0**	**35/24**	**0.5**	273.8	37/27	0.5	278.8	39/30
66	261.6	26/14	1.7	270.3	32/19	1.7	**278.7**	**37/25**	**0.5**	283.9	39/28	0.5	289.1	42/31
62	271.7	29/16	1.9	281.0	34/22	1.8	**289.9**	**39/28**	**0.5**	295.2	42/31	0.6	300.7	44/34
58	280.9	30/18	2.0	290.8	35/24	1.9	**300.4**	**40/30**	**0.6**	306.0	42/33	0.6	311.7	45/36
54	288.5	30/20	2.1	298.8	36/25	2.1	**309.5**	**41/32**	**0.6**	315.3	43/35	0.6	321.2	45/38
52	292.3	31/19	2.1	302.8	36/25	2.2	**313.6**	**41/31**	**0.6**	319.6	44/34	0.6	325.5	46/37
50	295.4	31/20	2.1	306.1	36/25	2.3	**317.4**	**41/32**	**0.6**	323.5	43/35	0.6	329.7	46/38
48	299.3	31/20	2.2	310.1	37/26	2.3	**321.6**	**42/32**	**0.6**	327.8	44/35	0.6	333.8	46/39
46	303.0	32/21	2.2	314.0	37/27	2.3	**325.7**	**43/33**	**0.6**	331.9	45/36	0.6	338.0	47/40
44	306.6	33/22	2.2	317.8	38/28	2.4	**329.7**	**43/34**	**0.6**	335.8	46/37	0.6	342.0	48/40
42	309.8	32/23	2.3	321.3	37/28	2.4	**333.4**	**42/35**	**0.6**	339.8	45/38	0.6	346.1	47/41
40	313.6	33/23	2.3	325.3	38/29	2.4	**337.5**	**43/35**	**0.7**	344.0	46/39	0.6	350.4	48/42
38	317.6	34/24	2.4	329.4	39/30	2.5	**341.7**	**44/36**	**0.7**	348.3	46/39	0.7	354.8	49/43
36	321.7	35/25	2.4	333.5	40/31	2.5	**345.8**	**45/37**	**0.7**	352.6	47/40	0.7	359.3	49/43
34	325.5	34/25	2.4	337.4	39/31	2.5	**349.9**	**44/38**	**0.7**	356.7	46/41	0.7	363.6	49/44
32	329.2	35/26	2.4	341.1	40/32	2.5	**353.7**	**45/38**	**0.7**	360.6	47/42	0.7	367.7	49/45
30	333.1	35/27	2.4	345.1	40/33	2.6	**357.9**	**46/39**	**0.7**	365.0	48/42	0.7	372.3	50/46
28	335.3	36/27	2.4	347.3	41/33	2.6	**360.3**	**46/40**	**0.7**	367.5	48/43	0.7	374.8	51/46
26	336.2	36/27	2.4	348.2	41/33	2.6	**361.3**	**46/40**	**0.7**	368.5	49/43	0.7	375.9	51/46
24	337.1	36/28	2.4	349.2	41/34	2.6	**362.2**	**47/40**	**0.7**	369.5	49/43	0.7	376.9	51/47
22	338.0	36/28	2.4	350.1	42/34	2.6	**363.2**	**47/40**	**0.7**	370.5	49/44	0.8	378.0	51/47
20	338.9	37/28	2.4	351.0	42/34	2.6	**364.2**	**47/41**	**0.7**	371.6	50/44	0.7	379.0	52/47
18	339.8	37/28	2.4	352.0	42/34	2.6	**365.2**	**47/41**	**0.7**	372.6	50/44	0.8	380.1	52/48
16	340.7	37/29	2.4	352.9	43/35	2.7	**366.3**	**48/41**	**0.7**	373.7	50/44	0.7	381.1	52/48
14	341.6	38/29	2.5	353.9	43/35	2.7	**367.3**	**48/41**	**0.7**	374.7	50/45	0.7	382.1	53/48
12	342.5	38/29	2.5	354.9	43/35	2.7	**368.4**	**48/42**	**0.7**	375.8	51/45	0.7	383.2	53/48
10	343.5	38/29	2.5	355.8	43/35	2.7	**369.4**	**49/42**	**0.8**	376.9	51/45	0.7	384.2	53/49
8	344.4	38/30	2.5	356.9	44/36	2.7	**370.5**	**49/42**	**0.7**	377.9	51/45	0.7	385.3	53/49
6	345.4	39/30	2.5	357.9	44/36	2.7	**371.6**	**49/43**	**0.7**	379.0	51/46	0.7	386.4	54/49
4	346.4	39/30	2.5	358.9	44/36	2.8	**372.7**	**49/43**	**0.7**	380.1	52/46	0.8	387.9	54/49
2	347.4	39/30	2.5	360.0	45/37	2.7	**373.7**	**50/43**	**0.8**	381.2	52/46	0.9	389.7	54/50
0	348.4	39/31	2.5	361.1	45/37	2.7	**374.8**	**50/43**	**0.8**	382.3	52/47	0.9	391.5	54/50

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 16C.

MOUNTAIN / SEATTLE SIDs. Engine failure before initial turn - Continue on SEA 161R until SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 161R to SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to TOMRE. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

ELMAA / HAROB SIDs - No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY C) RWY 16L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.723% DN
TOR	3627m (11899ft)	**ED**	3627m (11899ft)	**TOD**	3627m (11899ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	279.9	35/25	2.2	291.1	39/30	0.7	**294.5**	**45/37**	**0.0**	294.5	48/40	0.0	294.5	50/44
66	289.9	37/27	1.8	299.1	42/32	2.3	**310.6**	**46/37**	**0.0**	310.8	49/41	0.0	310.8	52/44
62	301.4	39/29	1.9	310.9	44/35	1.9	**320.2**	**49/40**	**0.7**	327.0	51/43	0.0	327.0	54/47
58	311.4	40/32	2.0	321.6	44/37	2.0	**331.8**	**49/43**	**0.6**	337.3	51/46	0.5	342.5	54/49
54	320.0	41/34	2.1	330.6	45/39	2.2	**341.4**	**50/45**	**0.6**	347.0	52/48	0.6	352.7	55/51
52	324.2	42/33	2.1	334.8	46/38	2.2	**345.7**	**51/44**	**0.6**	351.5	53/47	0.6	357.3	55/50
50	328.1	41/34	2.2	338.9	46/39	2.2	**350.1**	**51/45**	**0.6**	356.1	53/48	0.6	362.2	55/51
48	332.3	42/34	2.2	343.1	47/40	2.3	**354.5**	**52/46**	**0.6**	360.7	54/48	0.6	367.0	56/51
46	336.3	43/35	2.2	347.3	47/41	2.3	**359.0**	**52/46**	**0.6**	365.3	55/49	0.7	371.8	57/52
44	340.3	43/36	2.2	351.4	48/42	2.4	**363.3**	**53/47**	**0.7**	369.8	55/50	0.7	376.4	57/53
42	344.2	42/37	2.3	355.6	47/42	2.5	**367.9**	**52/48**	**0.7**	374.5	54/51	0.7	381.3	56/54
40	348.5	43/37	2.3	360.1	48/43	2.5	**372.7**	**53/49**	**0.7**	379.5	55/52	0.7	386.2	57/55
38	352.8	44/38	2.4	364.6	49/44	2.6	**377.6**	**54/50**	**0.7**	384.4	56/53	1.0	394.1	57/55
36	357.2	45/39	2.4	369.4	50/45	2.6	**382.5**	**55/50**	**0.9**	391.0	56/53	0.9	399.7	58/56
34	361.6	44/40	2.5	374.0	49/46	2.7	**387.5**	**54/51**	**1.0**	397.6	55/53	0.7	404.3	57/56
32	365.6	45/40	2.5	378.3	50/46	3.3	**394.8**	**54/51**	**0.7**	401.9	56/54	0.7	408.6	58/57
30	370.2	46/41	2.6	383.1	50/47	3.4	**399.9**	**55/52**	**0.7**	406.6	57/55	0.7	413.3	59/58
28	372.7	46/42	2.6	385.7	51/48	3.4	**402.5**	**55/52**	**0.7**	409.2	57/56	0.7	416.0	59/59
26	373.7	46/42	2.6	386.7	51/48	3.4	**403.5**	**55/53**	**0.7**	410.2	58/56	0.7	417.0	60/59
24	374.8	47/42	2.7	388.3	51/48	3.2	**404.5**	**56/53**	**0.7**	411.3	58/56	0.7	418.1	60/59
22	375.8	47/42	2.9	390.1	51/48	3.1	**405.5**	**56/53**	**0.7**	412.3	58/56	0.7	419.1	60/59
20	376.8	47/43	3.0	391.9	52/48	2.9	**406.6**	**56/54**	**0.7**	413.3	58/57	0.7	420.2	61/60
18	377.9	47/43	3.2	393.7	52/48	2.8	**407.6**	**57/54**	**0.7**	414.4	59/57	0.7	421.3	61/60
16	379.0	48/43	3.3	395.5	52/48	2.6	**408.7**	**57/54**	**0.7**	415.5	59/57	0.7	422.3	61/60
14	380.1	48/43	3.3	396.7	52/49	2.6	**409.8**	**57/54**	**0.7**	416.5	59/57	0.7	423.4	61/60
12	381.1	48/44	3.3	397.8	52/49	2.6	**410.9**	**57/55**	**0.7**	417.6	60/58	0.7	424.5	62/61
10	382.2	48/44	3.3	398.9	53/49	2.6	**411.9**	**58/55**	**0.7**	418.8	60/58	0.7	425.6	62/61
8	383.3	49/44	3.3	400.0	53/49	2.6	**413.0**	**58/55**	**0.7**	419.9	60/58	0.7	426.7	62/61
6	384.4	49/44	3.3	401.0	53/50	2.6	**414.1**	**58/55**	**0.7**	421.0	60/58	0.7	427.9	63/62
4	385.5	49/45	3.3	402.1	53/50	2.6	**415.3**	**58/56**	**0.7**	422.1	61/59	0.7	429.0	63/62
2	386.7	50/45	3.3	403.2	54/50	2.6	**416.4**	**59/56**	**0.7**	423.3	61/59	0.7	430.2	63/62
0	388.5	50/45	3.2	404.3	54/51	2.7	**417.6**	**59/56**	**0.7**	424.4	61/59	0.7	431.3	63/63

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 16L.

MOUNTAIN / SEATTLE SIDs. Engine failure before initial turn - Continue on SEA 161R until SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 161R to SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to TOMRE. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

ELMAA / HAROB SIDs - No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY C) RWY 16R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.694% DN
TOR	2590m (8497ft)	**ED**	2590m (8497ft)	**TOD**	2590m (8497ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	240.6	19/11	1.8	249.4	24/13	1.7	**257.9**	**30/18**	**0.5**	262.9	32/21	0.5	268.1	35/24
66	249.0	21/11	1.8	257.9	26/14	1.7	**266.6**	**32/20**	**0.5**	271.9	35/23	0.6	277.4	37/26
62	258.4	23/11	1.8	267.5	29/16	1.9	**276.8**	**35/22**	**0.6**	282.4	37/25	0.6	288.2	40/28
58	267.3	25/12	1.9	277.0	30/18	1.9	**286.7**	**36/24**	**0.6**	292.5	38/27	0.6	298.5	40/31
54	274.6	26/14	2.0	284.8	31/20	2.0	**295.0**	**36/26**	**0.6**	301.0	39/29	0.6	307.3	41/32
52	278.2	26/13	2.1	288.6	32/19	2.1	**299.0**	**37/25**	**0.6**	305.0	39/28	0.6	311.4	42/31
50	281.2	26/14	2.1	291.7	31/20	2.2	**302.7**	**36/26**	**0.6**	308.9	39/29	0.7	315.4	41/32
48	284.8	27/15	2.1	295.4	32/20	2.2	**306.6**	**37/27**	**0.6**	312.9	40/30	0.7	319.5	42/33
46	288.3	28/15	2.2	299.1	33/21	2.3	**310.5**	**38/27**	**0.6**	316.8	40/31	0.7	323.5	43/34
44	291.8	28/16	2.2	302.7	33/22	2.3	**314.2**	**39/28**	**0.7**	320.7	41/31	0.7	327.4	44/35
42	294.4	28/17	2.3	305.7	33/23	2.4	**317.6**	**38/29**	**0.7**	324.2	40/32	0.7	331.2	43/35
40	298.1	28/17	2.3	309.6	34/23	2.4	**321.6**	**39/30**	**0.7**	328.3	41/33	0.7	335.2	44/36
38	298.3	29/18	3.0	313.5	34/24	2.4	**325.7**	**40/30**	**0.7**	332.4	42/34	0.7	339.3	45/37
36	297.0	30/19	4.1	317.5	35/25	2.5	**329.9**	**41/31**	**0.7**	336.5	43/34	0.7	343.5	45/38
34	295.8	29/21	5.1	321.3	34/25	2.5	**333.7**	**40/32**	**0.7**	340.4	42/35	0.7	347.4	45/39
32	295.7	30/21	5.8	324.9	35/26	2.5	**337.3**	**40/33**	**0.7**	344.0	43/36	0.7	351.2	45/39
30	294.6	31/23	6.9	328.9	36/27	2.5	**341.3**	**41/33**	**0.7**	348.1	44/37	0.7	355.4	46/40
28	297.0	31/23	6.8	331.1	36/27	2.5	**343.5**	**42/34**	**0.7**	350.4	44/37	0.7	357.7	47/40
26	300.2	31/23	6.3	331.9	37/27	2.5	**344.4**	**42/34**	**0.7**	351.3	44/37	0.7	358.7	47/41
24	303.3	32/23	5.9	332.8	37/28	2.5	**345.3**	**42/34**	**0.7**	352.2	45/38	0.7	359.6	47/41
22	306.5	32/23	5.4	333.6	37/28	2.5	**346.2**	**42/34**	**0.7**	353.2	45/38	0.7	360.6	47/41
20	309.8	32/23	4.9	334.5	37/28	2.5	**347.1**	**43/35**	**0.7**	354.1	45/38	0.8	361.6	48/42
18	313.0	32/23	4.5	335.4	38/28	2.5	**348.1**	**43/35**	**0.7**	355.1	45/38	0.8	362.6	48/42
16	316.3	33/23	4.0	336.4	38/29	2.5	**349.0**	**43/35**	**0.7**	356.0	46/39	0.8	363.6	48/42
14	325.0	33/23	2.5	337.3	38/29	2.5	**350.0**	**44/36**	**0.7**	357.0	46/39	0.8	364.6	49/42
12	325.9	33/23	2.5	338.2	38/29	2.6	**351.0**	**44/36**	**0.7**	358.0	46/39	0.8	365.7	49/43
10	326.9	33/23	2.5	339.2	39/29	2.5	**351.9**	**44/36**	**0.7**	359.0	47/39	0.8	366.7	49/43
8	327.8	34/23	2.5	340.1	39/30	2.6	**352.9**	**44/36**	**0.7**	360.1	47/40	0.8	367.8	49/43
6	328.8	34/24	2.5	341.1	39/30	2.6	**353.9**	**45/37**	**0.7**	361.1	47/40	0.8	368.9	50/43
4	329.8	34/24	2.4	342.0	40/30	2.6	**354.9**	**45/37**	**0.7**	362.2	47/40	0.8	370.0	50/44
2	330.7	35/24	2.5	343.0	40/30	2.6	**355.9**	**45/37**	**0.7**	363.2	48/40	0.8	371.1	50/44
0	331.7	35/24	2.5	344.0	40/31	2.6	**357.0**	**46/37**	**0.7**	364.3	48/41	0.8	372.2	51/44

P/C above 1013 + 0.2
P/C below 1013 - 0.9

PERFORMANCE RESTRICTIONS - Rwy 16R.

MOUNTAIN / SEATTLE SIDs. Engine failure before initial turn - Continue on SEA 161R until SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 161R to SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to TOMRE. Turn right to SEA. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

ELMAA / HAROB SIDs - No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY Q) RWY 34C

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.711% UP
TOR	2873m (9425ft)	**ED**	2873m (9425ft)	**TOD**	2873m (9425ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	245.5	23/12	1.8	254.3	28/17	1.6	**262.5**	**33/23**	**0.5**	267.6	36/26	0.5	272.6	38/29
66	253.9	25/13	1.8	262.9	30/18	1.7	**271.5**	**36/25**	**0.5**	276.8	38/28	0.5	282.1	41/31
62	263.5	27/15	1.9	272.9	33/21	1.8	**282.0**	**38/27**	**0.6**	287.6	41/30	0.6	293.1	43/33
58	272.2	28/17	2.0	282.2	34/23	2.0	**292.0**	**39/29**	**0.6**	297.9	41/32	0.6	303.6	44/35
54	279.4	29/19	2.1	289.7	35/25	2.2	**300.6**	**40/31**	**0.6**	306.6	42/34	0.6	312.6	44/37
52	283.0	30/18	2.1	293.5	35/24	2.2	**304.5**	**41/30**	**0.6**	310.7	43/33	0.6	316.7	45/36
50	286.0	30/19	2.1	296.6	35/25	2.3	**308.1**	**40/31**	**0.6**	314.3	42/34	0.7	320.8	45/37
48	289.8	30/20	2.1	300.5	36/26	2.3	**312.1**	**41/32**	**0.6**	318.4	43/35	0.7	325.0	46/38
46	293.3	31/21	2.2	304.2	37/26	2.4	**316.0**	**42/33**	**0.6**	322.4	44/36	0.7	329.1	46/39
44	296.8	32/21	2.2	307.9	37/27	2.4	**319.9**	**43/33**	**0.6**	326.3	45/36	0.7	332.9	47/40
42	299.7	31/22	2.3	311.0	37/28	2.5	**323.4**	**42/34**	**0.7**	330.1	44/37	0.7	336.7	46/41
40	303.4	32/23	2.3	314.9	37/29	2.5	**327.4**	**43/35**	**0.7**	334.0	45/38	0.7	340.8	47/41
38	307.2	33/23	2.4	319.0	38/29	2.5	**331.6**	**43/36**	**0.7**	338.2	46/39	0.7	344.9	48/42
36	311.2	34/24	2.4	323.0	39/30	2.5	**335.6**	**44/37**	**0.7**	342.3	47/40	0.7	349.2	49/43
34	314.9	33/25	2.4	326.9	38/31	2.5	**339.6**	**43/37**	**0.7**	346.3	46/40	0.7	353.2	48/44
32	318.5	34/25	2.4	330.6	39/32	2.5	**343.2**	**44/38**	**0.7**	350.0	46/41	0.7	357.0	49/45
30	322.4	34/26	2.4	334.4	40/32	2.6	**347.3**	**45/39**	**0.7**	354.2	47/42	0.7	361.4	50/45
28	324.5	35/27	2.4	336.7	40/33	2.6	**349.5**	**45/39**	**0.7**	356.5	48/42	0.7	363.8	50/46
26	325.4	35/27	2.4	337.5	40/33	2.6	**350.5**	**46/39**	**0.7**	357.5	48/43	0.7	364.8	50/46
24	326.3	35/27	2.4	338.4	41/33	2.6	**351.4**	**46/40**	**0.7**	358.4	48/43	0.7	365.8	51/46
22	327.2	36/27	2.4	339.4	41/33	2.6	**352.3**	**46/40**	**0.7**	359.4	49/43	0.7	366.8	51/47
20	328.1	36/28	2.4	340.3	41/34	2.6	**353.2**	**47/40**	**0.7**	360.4	49/44	0.7	367.8	51/47
18	329.0	36/28	2.4	341.2	42/34	2.6	**354.2**	**47/40**	**0.7**	361.3	49/44	0.8	368.8	51/47
16	329.9	36/28	2.4	342.1	42/34	2.6	**355.1**	**47/41**	**0.7**	362.3	49/44	0.8	369.9	52/47
14	330.8	37/28	2.4	343.0	42/34	2.6	**356.1**	**47/41**	**0.7**	363.4	50/44	0.8	370.9	52/48
12	331.7	37/29	2.4	343.9	42/35	2.6	**357.1**	**48/41**	**0.7**	364.4	50/45	0.8	372.0	52/48
10	332.6	37/29	2.5	344.9	43/35	2.6	**358.1**	**48/42**	**0.7**	365.4	50/45	0.8	373.1	53/48
8	333.5	37/29	2.5	345.8	43/35	2.7	**359.2**	**48/42**	**0.7**	366.5	51/45	0.8	374.2	53/49
6	334.5	38/29	2.5	346.8	43/35	2.7	**360.2**	**49/42**	**0.7**	367.6	51/45	0.8	375.3	53/49
4	335.4	38/30	2.5	347.8	43/36	2.7	**361.3**	**49/42**	**0.7**	368.7	51/46	0.8	376.4	53/49
2	336.4	38/30	2.5	348.8	44/36	2.7	**362.3**	**49/43**	**0.8**	369.8	51/46	0.8	377.6	54/49
0	337.4	39/30	2.5	349.8	44/36	2.7	**363.4**	**49/43**	**0.8**	370.9	52/46	0.8	378.7	54/50

P/C above 1013 + 0.2

P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 34C.

MOUNTAIN / SEATTLE SIDS. Engine failure before initial turn - Continue on SEA 341R until SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 341R to SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to BREMM. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

KTSAP / KMORE SIDS Engine failure below 8000ft - Continue on SID to CENEX. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

HAROB SID - No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY R) RWY 34L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.694% UP
TOR	2590m (8497ft)	**ED**	2590m (8497ft)	**TOD**	2590m (8497ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	233.6	18/11	1.8	242.5	24/12	1.7	**251.1**	**29/18**	**0.5**	256.2	31/21	0.5	261.5	34/24
66	241.8	20/11	1.8	251.0	25/13	1.7	**259.7**	**31/19**	**0.5**	264.9	34/22	0.6	270.4	36/26
62	251.1	22/11	1.9	260.4	28/15	1.8	**269.4**	**34/22**	**0.6**	274.9	36/25	0.6	280.9	39/28
58	259.8	24/12	1.9	269.4	29/18	1.9	**278.9**	**35/24**	**0.6**	284.7	37/27	0.6	290.9	40/30
54	266.6	25/13	2.0	276.7	30/19	2.1	**287.0**	**35/26**	**0.6**	293.0	38/29	0.6	299.4	40/32
52	270.1	25/13	2.0	280.3	31/19	2.1	**290.8**	**36/25**	**0.6**	296.9	39/28	0.6	303.3	41/31
50	272.9	25/14	2.1	283.3	31/19	2.2	**294.5**	**36/26**	**0.6**	300.7	38/29	0.6	307.1	41/32
48	276.4	26/14	2.1	286.9	31/20	2.3	**298.3**	**37/26**	**0.6**	304.6	39/30	0.7	311.1	41/33
46	279.9	27/15	2.1	290.5	32/21	2.3	**302.0**	**37/27**	**0.6**	308.4	40/30	0.7	315.0	42/34
44	283.2	27/16	2.1	293.9	33/22	2.3	**305.6**	**38/28**	**0.7**	312.1	41/31	0.7	318.8	43/34
42	285.6	27/17	2.2	296.6	32/22	2.4	**308.7**	**37/29**	**0.7**	315.4	40/32	0.7	322.3	42/35
40	287.9	28/17	2.5	300.4	33/23	2.4	**312.6**	**38/29**	**0.7**	319.4	41/33	0.7	326.3	43/36
38	286.6	28/18	3.5	304.1	34/24	2.5	**316.6**	**39/30**	**0.7**	323.4	42/33	0.7	330.5	44/37
36	285.4	29/19	4.5	308.1	35/24	2.5	**320.7**	**40/31**	**0.7**	327.6	42/34	0.7	334.5	45/38
34	284.2	29/21	5.5	311.7	34/25	2.6	**324.5**	**39/32**	**0.7**	331.4	42/35	0.7	338.4	44/38
32	284.1	29/21	6.2	315.2	35/26	2.6	**328.1**	**40/32**	**0.7**	335.0	42/36	0.7	342.0	45/39
30	283.1	30/23	7.2	319.2	35/27	2.6	**332.1**	**41/33**	**0.7**	339.0	43/36	0.7	346.0	46/40
28	285.5	30/23	7.2	321.3	36/27	2.6	**334.2**	**41/34**	**0.7**	341.2	44/37	0.7	348.3	46/40
26	288.6	31/23	6.7	322.2	36/27	2.6	**335.1**	**41/34**	**0.7**	342.1	44/37	0.7	349.2	46/41
24	292.4	31/23	6.1	323.0	36/27	2.6	**336.0**	**42/34**	**0.7**	343.0	44/37	0.7	350.2	47/41
22	296.4	31/23	5.5	323.9	37/28	2.6	**336.9**	**42/34**	**0.7**	343.9	44/38	0.7	351.1	47/41
20	300.3	31/23	4.9	324.8	37/28	2.6	**337.8**	**42/35**	**0.7**	344.8	45/38	0.7	352.0	47/41
18	303.5	32/23	4.4	325.7	37/28	2.6	**338.7**	**42/35**	**0.7**	345.7	45/38	0.7	353.0	47/42
16	306.8	32/23	4.0	326.6	37/28	2.6	**339.7**	**43/35**	**0.7**	346.7	45/38	0.7	353.9	48/42
14	310.2	32/23	3.5	327.5	38/29	2.6	**340.6**	**43/35**	**0.7**	347.6	45/39	0.7	354.9	48/42
12	313.5	32/23	3.0	328.4	38/29	2.6	**341.5**	**43/36**	**0.7**	348.6	46/39	0.7	355.9	48/43
10	317.1	33/23	2.5	329.4	38/29	2.6	**342.4**	**44/36**	**0.7**	349.5	46/39	0.7	356.9	48/43
8	318.0	33/23	2.5	330.3	39/30	2.6	**343.4**	**44/36**	**0.7**	350.5	46/40	0.7	357.9	49/43
6	319.0	33/23	2.4	331.2	39/30	2.6	**344.3**	**44/36**	**0.7**	351.5	47/40	0.7	358.9	49/43
4	319.9	34/24	2.5	332.2	39/30	2.6	**345.3**	**44/37**	**0.7**	352.5	47/40	0.8	360.0	49/44
2	320.8	34/24	2.5	333.1	39/30	2.6	**346.3**	**45/37**	**0.7**	353.5	47/40	0.8	361.0	50/44
0	321.8	34/24	2.5	334.1	40/31	2.6	**347.3**	**45/37**	**0.7**	354.5	47/41	0.8	362.1	50/44

P/C above 1013 + 0.2

P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 34L.

MOUNTAIN / SEATTLE SIDS. Engine failure before initial turn - Continue on SEA 341R until SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 341R to SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to BREMM. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

KTSAP / KMORE SIDS Engine failure below 8000ft - Continue on SID to CENEX. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

HAROB SID - No restrictions.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SEATTLE**

A/D Elev **433ft** **TACOMA (KSEA)**

F/L (TWY B) RWY 34R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.723% UP
TOR	3627m (11899ft)	**ED**	3627m (11899ft)	**TOD**	3627m (11899ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	270.9	33/24	1.7	279.3	38/30	1.5	**287.0**	**43/35**	**0.5**	291.5	46/38	0.3	294.5	48/42
66	280.9	35/26	1.8	290.0	40/31	1.6	**298.2**	**46/37**	**0.5**	302.9	48/40	0.5	307.9	50/43
62	292.1	38/28	1.9	301.8	43/33	1.7	**310.4**	**48/39**	**0.5**	315.4	50/42	0.5	320.7	53/45
58	301.9	39/30	2.0	311.9	43/36	2.0	**322.0**	**48/42**	**0.5**	327.2	51/45	0.6	332.7	53/48
54	310.1	39/32	2.1	320.7	44/38	2.2	**331.5**	**49/44**	**0.6**	337.1	51/46	0.6	342.7	53/50
52	314.1	40/31	2.2	325.0	45/37	2.2	**335.8**	**50/43**	**0.6**	341.5	52/46	0.6	347.2	54/49
50	317.7	40/32	2.2	328.9	45/38	2.2	**340.0**	**50/44**	**0.6**	345.8	52/46	0.6	351.7	54/50
48	321.8	41/33	2.2	333.0	45/39	2.3	**344.3**	**50/44**	**0.6**	350.3	53/47	0.6	356.3	55/50
46	325.8	41/34	2.2	337.0	46/39	2.3	**348.6**	**51/45**	**0.6**	354.6	53/48	0.6	360.9	56/51
44	329.8	42/35	2.2	341.0	47/40	2.4	**352.8**	**52/46**	**0.6**	359.0	54/49	0.6	365.4	56/52
42	333.4	41/35	2.3	345.0	46/41	2.4	**357.1**	**51/47**	**0.6**	363.5	53/50	0.7	370.1	55/53
40	337.5	42/36	2.3	349.2	47/42	2.5	**361.6**	**52/48**	**0.7**	368.3	54/51	0.7	375.0	56/54
38	341.7	43/37	2.4	353.5	48/43	2.5	**366.2**	**53/48**	**0.7**	373.2	55/51	0.7	380.1	57/55
36	345.8	44/38	2.4	357.9	49/43	2.6	**370.9**	**53/49**	**0.7**	378.1	56/52	0.7	385.0	58/55
34	349.9	43/38	2.4	362.1	48/44	2.7	**375.4**	**53/50**	**0.7**	382.6	55/53	0.9	391.4	57/56
32	353.7	44/39	2.5	366.2	49/45	2.7	**379.7**	**53/51**	**0.7**	386.9	56/54	1.1	397.5	57/56
30	357.9	44/40	2.6	370.7	49/46	2.7	**384.4**	**54/52**	**1.1**	395.1	56/54	0.7	402.3	58/57
28	360.3	45/40	2.6	373.3	50/46	2.8	**387.1**	**55/52**	**1.1**	398.0	56/54	0.7	404.9	58/58
26	361.3	45/41	2.6	374.3	50/46	2.9	**388.9**	**55/52**	**1.0**	399.0	56/55	0.7	405.8	59/58
24	362.3	45/41	2.6	375.3	50/47	3.1	**390.7**	**55/52**	**0.9**	400.0	57/55	0.7	406.8	59/58
22	363.3	46/41	2.6	376.4	51/47	3.2	**392.5**	**55/52**	**0.9**	401.0	57/55	0.7	407.8	59/58
20	364.2	46/41	2.7	377.5	51/47	3.4	**394.4**	**55/53**	**0.8**	401.9	57/55	0.7	408.8	60/59
18	365.3	46/42	2.6	378.5	51/47	3.5	**396.1**	**55/53**	**0.7**	402.9	58/56	0.7	409.8	60/59
16	366.3	47/42	2.7	379.6	51/48	3.5	**397.2**	**56/53**	**0.7**	403.9	58/56	0.7	410.8	60/59
14	367.3	47/42	2.7	380.7	52/48	3.5	**398.1**	**56/53**	**0.7**	404.9	58/56	0.7	411.8	60/60
12	368.4	47/42	2.7	381.8	52/48	3.5	**399.2**	**56/54**	**0.7**	405.9	58/57	0.7	412.8	61/60
10	369.5	47/43	2.7	382.9	52/49	3.5	**400.2**	**57/54**	**0.7**	407.0	59/57	0.7	413.8	61/60
8	370.6	48/43	2.7	384.0	53/49	3.4	**401.2**	**57/54**	**0.7**	408.0	59/57	0.7	414.9	61/60
6	371.6	48/43	2.7	385.2	53/49	3.4	**402.2**	**57/54**	**0.7**	409.1	59/57	0.7	415.9	62/61
4	372.8	48/43	2.7	386.3	53/49	3.4	**403.2**	**57/55**	**0.7**	410.1	60/58	0.7	417.0	62/61
2	373.9	48/44	2.8	387.9	53/50	3.3	**404.3**	**58/55**	**0.7**	411.2	60/58	0.7	418.1	62/61
0	375.0	49/44	3.0	389.9	53/50	3.1	**405.4**	**58/55**	**0.7**	412.2	60/58	0.7	419.2	63/62

P/C above 1013 + 0.2

P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 34R.

MOUNTAIN / SEATTLE SIDS. Engine failure before initial turn - Continue on SEA 341R until SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID. Engine failure below 5000ft - Continue on SEA 341R to SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA. Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID. Engine failure below 8000ft - Continue on SID to BREMM. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

KTSAP / KMORE SIDS Engine failure below 8000ft - Continue on SID to CENEX. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA. Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

HAROB SID - No restrictions.

ORLANDO SANFORD INTL

(KSFB)

ORLANDO SANFORD INTL and runways 09L, 27R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAN FRANCISCO (KSFO)**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	01L	01R	10L	10R
Landing Distance Available			3411m / 11191ft	3262m / 10702ft
Slope	NOT AUTH FOR LANDING	NOT AUTH FOR LANDING	.07UP	.06UP
Notes			Note 1	Note 1
WAT LIMIT °C : Man / Auto			54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)			15kt (9kt)	11kt (5kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)			283.0	270.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)			15kt	11kt (5kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)			4kt	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg			5300kg	5300kg
Inc per kt HW kg				750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Final Approach**: ATC may turn aircraft onto final approach early - to avoid this request a 10nm final on initial contact.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAN FRANCISCO (KSFO)**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	19L	19R	28L	28R
Landing Distance Available	2636m / 8648ft	2286m / 7500ft	3131m / 10275ft	3424m / 11236ft
Slope	.01UP	.01UP	.06DN	.07DN
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	0kt (269.0)	257.0 (230.0)	9kt (3kt)	13kt (7kt)
25F Zero HW wt or TW (Autoland)			9kt (3kt)	13kt (7kt)
25F Slippery Zero HW wt or TW (Manual)	218.0	NOT AUTH	253.0	270.0
25F Slippery Zero HW wt or TW (Autoland)			253.0	270.0
30F Zero HW wt or TW (Manual)	0kt (280.8)	273.0 (245.0)	9kt (3kt)	13kt (7kt)
30F Zero HW wt or TW (Autoland)			9kt (3kt)	13kt (7kt)
30F Slippery Zero HW wt or TW (Manual)	242.0	209.0	277.0	280.8
30F Slippery Zero HW wt or TW (Autoland)			277.0	280.8
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Final Approach**: ATC may turn aircraft onto final approach early - to avoid this request a 10nm final on initial contact.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY A2/M1 (F/L) RWY 01L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.013% DN
TOR	2331m (7647ft)	**ED**	2331m (7647ft)	**TOD**	2331m (7647ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	229.5	16/11	1.7	238.0	21/11	1.8	**247.0**	**26/15**	**0.5**	252.2	29/18	0.6	257.7	32/21
66	237.4	17/11	1.8	246.3	23/11	1.8	**255.4**	**28/16**	**0.5**	260.8	31/19	0.6	266.4	34/22
62	243.9	19/11	2.4	255.7	25/12	1.9	**265.0**	**31/18**	**0.6**	270.6	34/21	0.6	276.5	37/25
58	243.9	21/11	4.1	264.5	26/14	2.0	**274.3**	**32/20**	**0.6**	280.2	35/24	0.6	286.3	38/27
54	243.6	22/12	5.7	272.1	27/16	2.0	**282.3**	**33/22**	**0.6**	288.3	36/25	0.6	294.7	38/29
52	242.5	23/13	6.6	275.6	28/15	2.1	**285.9**	**34/21**	**0.6**	292.1	37/24	0.7	298.6	39/28
50	241.3	22/14	7.6	279.4	28/16	2.1	**289.8**	**33/22**	**0.6**	296.0	36/25	0.7	302.6	38/28
48	240.2	23/14	8.5	282.9	29/16	2.1	**293.5**	**34/23**	**0.6**	299.8	37/26	0.7	306.5	39/29
46	239.1	24/15	9.5	286.4	29/17	2.1	**297.1**	**35/23**	**0.6**	303.5	38/27	0.7	310.4	40/30
44	238.0	25/16	10.4	289.8	30/18	2.2	**300.7**	**36/24**	**0.7**	307.2	38/27	0.7	314.1	41/31
42	236.8	24/17	11.1	292.4	29/18	2.3	**304.1**	**35/25**	**0.7**	310.8	38/28	0.7	317.9	40/32
40	235.6	25/18	12.1	296.0	30/19	2.4	**307.9**	**36/26**	**0.7**	314.7	38/29	0.7	321.9	41/32
38	234.5	26/19	13.1	299.8	31/20	2.4	**311.9**	**37/26**	**0.7**	318.8	39/30	0.7	325.9	42/33
36	233.4	26/20	14.0	303.6	32/20	2.5	**315.9**	**37/27**	**0.7**	322.8	40/30	0.7	330.1	43/34
34	232.3	26/21	13.9	301.6	31/22	3.6	**319.7**	**37/28**	**0.7**	326.7	39/31	0.7	333.9	42/35
32	232.2	26/22	13.9	301.5	32/23	4.3	**323.2**	**37/28**	**0.7**	330.4	40/32	0.7	337.6	42/35
30	231.3	27/23	13.9	300.6	33/24	5.3	**327.1**	**38/29**	**0.7**	334.2	41/32	0.7	341.5	43/36
28	234.5	27/23	13.8	303.7	33/24	4.9	**328.0**	**38/29**	**0.7**	335.1	41/33	0.7	342.5	44/36
26	237.8	28/23	13.8	306.9	33/24	4.4	**328.9**	**39/30**	**0.7**	336.0	41/33	0.7	343.3	44/37
24	241.1	28/23	13.8	310.1	33/24	3.9	**329.8**	**39/30**	**0.7**	336.9	41/33	0.7	344.2	44/37
22	244.5	28/23	14.7	318.0	34/23	2.5	**330.7**	**39/30**	**0.7**	337.8	42/33	0.7	345.1	44/37
20	248.0	28/23	14.2	318.9	34/24	2.5	**331.6**	**39/30**	**0.7**	338.7	42/34	0.7	346.0	45/37
18	251.5	29/23	13.7	319.8	34/24	2.5	**332.4**	**40/31**	**0.7**	339.6	42/34	0.7	347.0	45/38
16	255.4	29/23	13.1	320.7	34/24	2.5	**333.3**	**40/31**	**0.7**	340.5	43/34	0.7	347.9	45/38
14	259.3	29/23	12.5	321.6	35/24	2.5	**334.2**	**40/31**	**0.7**	341.5	43/34	0.7	348.9	45/38
12	263.3	30/23	11.8	322.5	35/25	2.5	**335.2**	**40/31**	**0.7**	342.4	43/35	0.8	349.9	46/38
10	267.3	30/23	11.2	323.4	35/25	2.5	**336.1**	**41/32**	**0.7**	343.3	43/35	0.8	350.8	46/39
8	271.5	30/23	10.6	324.3	35/25	2.6	**337.1**	**41/32**	**0.7**	344.3	44/35	0.8	351.8	46/39
6	275.7	30/23	9.9	325.2	36/25	2.6	**338.0**	**41/32**	**0.7**	345.2	44/36	0.8	352.8	47/39
4	279.9	31/23	9.3	326.2	36/26	2.6	**339.0**	**42/32**	**0.7**	346.2	44/36	0.8	353.8	47/39
2	284.3	31/23	8.6	327.2	36/26	2.6	**340.0**	**42/33**	**0.7**	347.2	45/36	0.8	354.8	47/40
0	288.7	31/23	7.9	328.1	37/26	2.6	**341.0**	**42/33**	**0.7**	348.2	45/36	0.8	355.9	47/40

P/C above 1013 + 0.1
P/C below 1013 - 0.9

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 01L - Rwy 01L

ALL ENGINES SAN FRANCISCO and RNAV TRUKN SIDs To achieve 3000FT height requirement at SFO 6D or TYDYE.

EO ACCEL HT - 1000FT. ACCEL HT - 3000FT.

THR RED HT - 3000FT.

ENGINE FAILURE SAN FRANCISCO and RNAV TRUKN SIDs Engine Failure BEFORE SFO 6D/TYDYE - Turn LEFT on to SFO 342R. Engine Failure AFTER SFO 6D/TYDYE - no restrictions provided SSA achieved.

OFFSHORE SID Engine Failure BEFORE 1600ft QNH/SFO 4D-AHEAD on SFO 350R using standard Accel Alt.

RNAV NIITE SID Engine Failure BEFORE REBAS - Continue AHEAD on SFO 348R and request instructions. Engine Failure AFTER REBAS - No restrictions provided SSA achieved.

GAP and SSTIK SIDs NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY A1/L2 (F/L) RWY 01R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.012% DN
TOR	2635m (8645ft)	**ED**	2635m (8645ft)	**TOD**	2635m (8645ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	244.8	22/11	1.8	253.6	27/15	1.7	**262.2**	**32/21**	**0.5**	267.3	35/24	0.5	272.7	38/28
66	253.2	24/11	1.8	262.2	29/17	1.8	**271.2**	**35/23**	**0.5**	276.5	37/26	0.6	282.2	40/29
62	262.7	26/13	1.9	272.1	32/19	1.9	**281.6**	**37/25**	**0.6**	287.3	40/28	0.6	293.2	42/31
58	271.9	27/15	2.0	281.7	33/21	2.0	**291.6**	**38/27**	**0.6**	297.5	41/30	0.6	303.6	43/34
54	279.6	28/17	2.1	290.0	33/23	2.0	**300.2**	**39/29**	**0.6**	306.2	41/32	0.6	312.6	44/35
52	283.2	29/16	2.1	293.7	34/22	2.1	**304.1**	**40/28**	**0.6**	310.3	42/31	0.6	316.7	45/34
50	286.3	29/17	2.1	297.0	34/23	2.2	**308.2**	**39/29**	**0.6**	314.5	41/32	0.7	321.0	44/35
48	290.0	29/18	2.2	300.8	35/23	2.3	**312.2**	**40/30**	**0.6**	318.6	42/33	0.7	325.1	45/36
46	293.5	30/18	2.2	304.5	35/24	2.3	**316.1**	**41/30**	**0.6**	322.5	43/34	0.7	329.2	46/37
44	297.0	31/19	2.2	308.2	36/25	2.4	**320.0**	**42/31**	**0.6**	326.4	44/34	0.7	333.1	46/38
42	299.8	30/20	2.3	311.3	35/26	2.4	**323.5**	**41/32**	**0.7**	330.2	43/35	0.7	337.1	46/39
40	303.5	31/20	2.3	315.2	36/26	2.5	**327.6**	**42/33**	**0.7**	334.2	44/36	0.7	341.2	46/39
38	307.4	32/21	2.4	319.3	37/27	2.5	**331.7**	**42/34**	**0.7**	338.3	45/37	0.7	345.3	47/40
36	311.3	33/22	2.4	323.3	38/28	2.5	**335.8**	**43/34**	**0.7**	342.5	46/38	0.7	349.6	48/41
34	315.0	32/22	2.4	327.2	37/29	2.5	**339.7**	**42/35**	**0.7**	346.4	45/38	0.7	353.6	47/42
32	318.6	33/23	2.4	330.8	38/29	2.5	**343.4**	**43/36**	**0.7**	350.2	45/39	0.7	357.5	48/42
30	322.5	33/24	2.4	334.7	38/30	2.5	**347.4**	**44/36**	**0.7**	354.3	46/40	0.8	361.8	49/43
28	323.4	34/24	2.4	335.6	39/30	2.5	**348.3**	**44/37**	**0.7**	355.3	47/40	0.8	362.8	49/43
26	324.2	34/24	2.5	336.5	39/30	2.5	**349.2**	**44/37**	**0.7**	356.2	47/40	0.8	363.8	49/44
24	325.1	34/24	2.5	337.4	39/31	2.6	**350.2**	**45/37**	**0.7**	357.2	47/41	0.8	364.8	50/44
22	326.0	34/25	2.5	338.3	40/31	2.6	**351.1**	**45/37**	**0.7**	358.1	47/41	0.8	365.8	50/44
20	326.9	35/25	2.5	339.2	40/31	2.6	**352.0**	**45/38**	**0.7**	359.1	48/41	0.8	366.8	50/44
18	327.8	35/25	2.5	340.1	40/31	2.6	**353.0**	**45/38**	**0.7**	360.1	48/41	0.8	367.8	50/45
16	328.7	35/25	2.5	341.0	40/32	2.6	**353.9**	**46/38**	**0.7**	361.1	48/42	0.8	368.9	51/45
14	329.6	35/26	2.5	341.9	41/32	2.6	**354.9**	**46/38**	**0.7**	362.1	48/42	0.8	369.9	51/45
12	330.6	36/26	2.5	342.9	41/32	2.6	**355.9**	**46/39**	**0.7**	363.1	49/42	0.8	371.0	51/46
10	331.5	36/26	2.5	343.8	41/32	2.6	**356.9**	**47/39**	**0.7**	364.2	49/42	0.8	372.1	52/46
8	332.4	36/26	2.5	344.8	41/33	2.6	**357.9**	**47/39**	**0.7**	365.2	49/43	0.8	373.2	52/46
6	333.3	36/27	2.5	345.7	42/33	2.6	**358.9**	**47/40**	**0.7**	366.3	50/43	0.8	374.3	52/46
4	334.3	37/27	2.5	346.7	42/33	2.7	**360.0**	**48/40**	**0.7**	367.4	50/43	0.8	375.4	52/47
2	335.2	37/27	2.5	347.7	42/33	2.7	**361.1**	**48/40**	**0.7**	368.5	50/44	0.8	376.6	53/47
0	336.2	37/27	2.5	348.7	43/34	2.7	**362.1**	**48/40**	**0.8**	369.6	51/44	0.8	377.7	53/47

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 01R - Rwy 01R

ALL ENGINES SAN FRANCISCO and RNAV TRUKN SIDs To achieve 3000FT height requirement at SFO 6D or TYDYE.

EO ACCEL HT - 1000FT. ACCEL HT - 3000FT.

THR RED HT - 3000FT.

ENGINE FAILURE SAN FRANCISCO and RNAV TRUKN SIDs Engine Failure BEFORE SFO 6D/TYDYE - Turn LEFT on to SFO 342R. Engine Failure AFTER SFO 6D/TYDYE - no restrictions provided SSA achieved.

OFFSHORE SID Engine Failure BEFORE 1600ft QNH/SFO 4D-AHEAD on SFO 350R using standard Accel Alt.

RNAV NIITE SID Engine Failure BEFORE REBAS - Continue AHEAD on SFO 348R and request instructions. Engine Failure AFTER REBAS - No restrictions provided SSA achieved.

GAP and SSTIK SIDs NOT APPROVED.

TAKE-OFF POINT Max Taxi Thrust should not be exceeded until reaching the Take-Off

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY S3 (F/L) RWY 10L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.067% UP
TOR	3618m (11870ft)	**ED**	3411m (11190ft)	**TOD**	3618m (11870ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	279.8	32/22	1.9	289.1	37/28	2.0	**299.0**	**42/33**	**0.0**	299.0	45/37	0.0	299.0	48/40
66	289.7	34/24	1.9	299.4	39/29	2.2	**310.3**	**44/35**	**0.5**	315.5	46/37	0.0	315.5	49/41
62	301.0	37/26	2.0	311.1	42/32	2.2	**321.9**	**47/37**	**0.6**	328.1	49/40	0.4	332.0	51/43
58	310.8	37/28	2.1	321.1	42/34	2.2	**332.1**	**47/40**	**0.6**	337.8	49/43	0.6	343.5	51/46
54	319.3	38/30	2.1	330.0	43/36	2.2	**341.1**	**48/42**	**0.6**	346.9	50/45	0.6	352.9	52/48
52	323.5	39/29	2.1	334.2	44/35	2.2	**345.4**	**49/41**	**0.6**	351.3	51/44	0.6	357.4	53/47
50	327.2	38/30	2.2	338.1	43/36	2.3	**349.6**	**48/42**	**0.6**	355.8	50/44	0.7	362.3	53/48
48	331.4	39/31	2.2	342.3	44/37	2.3	**354.0**	**49/42**	**0.6**	360.4	51/45	0.7	367.0	53/49
46	335.4	40/32	2.2	346.4	45/37	2.4	**358.4**	**50/43**	**0.7**	364.9	52/46	0.7	371.7	54/49
44	339.4	41/32	2.2	350.5	46/38	2.4	**362.7**	**51/44**	**0.7**	369.4	53/47	0.7	376.3	55/50
42	343.2	40/33	2.3	354.6	45/39	2.5	**367.3**	**49/45**	**0.7**	374.1	52/48	0.7	381.2	54/51
40	347.3	40/34	2.3	359.0	45/40	2.6	**371.9**	**50/46**	**0.7**	378.9	52/49	0.7	386.0	55/52
38	351.6	41/35	2.4	363.5	46/41	2.6	**376.7**	**51/46**	**0.7**	383.8	53/49	1.0	393.7	55/52
36	356.0	42/36	2.4	368.2	47/41	2.7	**381.7**	**52/47**	**0.8**	390.0	54/50	1.0	399.5	56/53
34	360.4	41/36	2.5	372.9	46/42	2.7	**386.5**	**51/48**	**1.1**	397.3	53/50	0.7	404.2	55/53
32	364.4	42/37	2.5	377.1	47/43	3.3	**393.6**	**51/48**	**0.8**	401.5	53/51	0.7	408.5	56/54
30	368.8	43/38	2.6	381.8	48/44	3.5	**399.2**	**52/49**	**0.7**	406.1	54/52	0.7	413.2	56/55
28	369.9	43/38	2.6	382.9	48/44	3.5	**400.3**	**52/49**	**0.7**	407.2	54/52	0.7	414.2	57/55
26	370.9	43/38	2.6	383.9	48/44	3.5	**401.3**	**52/49**	**0.7**	408.2	55/52	0.7	415.3	57/56
24	371.9	43/38	2.6	385.0	48/44	3.5	**402.3**	**53/49**	**0.7**	409.3	55/53	0.7	416.4	57/56
22	372.9	44/39	2.6	386.0	49/45	3.5	**403.3**	**53/50**	**0.7**	410.4	55/53	0.7	417.4	58/56
20	373.9	44/39	2.7	387.3	49/45	3.4	**404.3**	**53/50**	**0.7**	411.4	56/53	0.7	418.5	58/56
18	375.0	44/39	2.8	389.1	49/45	3.3	**405.4**	**54/50**	**0.7**	412.5	56/53	0.7	419.6	58/57
16	376.1	45/39	3.0	391.0	49/45	3.1	**406.5**	**54/50**	**0.7**	413.5	56/54	0.7	420.7	58/57
14	377.2	45/40	3.1	392.8	49/45	3.0	**407.6**	**54/51**	**0.7**	414.6	56/54	0.7	421.8	59/57
12	378.3	45/40	3.3	394.7	50/45	2.8	**408.7**	**54/51**	**0.7**	415.7	57/54	0.7	422.9	59/57
10	379.4	45/40	3.4	396.4	50/45	2.7	**409.8**	**55/51**	**0.7**	416.9	57/54	0.7	424.0	59/58
8	380.5	46/40	3.4	397.5	50/46	2.7	**410.9**	**55/52**	**0.7**	418.0	57/55	0.7	425.2	59/58
6	381.6	46/41	3.4	398.6	50/46	2.7	**412.0**	**55/52**	**0.7**	419.2	57/55	0.7	426.4	60/58
4	382.7	46/41	3.4	399.7	50/46	2.7	**413.2**	**55/52**	**0.7**	420.4	58/55	0.7	427.6	60/59
2	383.9	46/41	3.4	400.8	51/46	2.7	**414.3**	**56/52**	**0.7**	421.5	58/56	0.7	428.8	60/59
0	385.0	47/42	3.4	401.9	51/47	2.7	**415.5**	**56/53**	**0.7**	422.7	58/56	0.7	430.0	61/59

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 10L- Rwy 10L

EMERGENCY TURN PROCEDURE

RNAV CIITY SID Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions. Eng Fail after CIITY - No restrictions provided SSA achieved.

RNAV SAHEY SID. Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions. Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

GAP and MOLEN SIDs NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY Z1 RWY 10R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.053% UP
TOR	3469m (11381ft)	**ED**	3262m (10702ft)	**TOD**	3469m (11381ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	274.9	30/20	1.9	284.4	35/25	2.0	**294.4**	**40/31**	**0.5**	299.0	42/33	0.0	299.0	45/37
66	284.6	32/21	2.0	294.4	37/27	2.1	**304.8**	**42/32**	**0.6**	310.5	44/35	0.5	315.5	46/38
62	295.7	35/23	2.0	305.9	40/29	2.2	**316.7**	**45/35**	**0.6**	322.6	47/38	0.6	328.4	49/41
58	305.3	35/26	2.1	315.7	40/31	2.2	**326.8**	**45/37**	**0.6**	332.7	47/40	0.6	338.5	49/43
54	313.6	36/28	2.2	324.4	41/33	2.2	**335.6**	**46/39**	**0.6**	341.6	48/42	0.6	347.6	50/45
52	317.7	37/27	2.2	328.6	42/32	2.3	**339.9**	**47/38**	**0.6**	345.9	49/41	0.6	352.0	51/44
50	321.3	36/28	2.2	332.4	41/33	2.3	**343.9**	**46/39**	**0.6**	350.2	48/42	0.6	356.5	51/45
48	325.4	37/28	2.2	336.5	42/34	2.3	**348.2**	**47/40**	**0.6**	354.6	49/43	0.7	361.1	52/46
46	329.6	38/29	2.2	340.6	43/35	2.4	**352.4**	**48/41**	**0.7**	359.0	50/44	0.7	365.6	52/47
44	333.4	39/30	2.2	344.5	44/35	2.4	**356.6**	**49/41**	**0.7**	363.3	51/44	0.7	370.1	53/48
42	337.1	38/31	2.3	348.5	43/36	2.5	**360.9**	**48/42**	**0.7**	367.8	50/45	0.7	374.8	52/49
40	341.2	39/31	2.3	352.8	43/37	2.5	**365.4**	**48/43**	**0.7**	372.5	51/46	0.7	379.7	53/49
38	345.3	39/32	2.4	357.1	44/38	2.6	**370.1**	**49/44**	**0.7**	377.3	51/47	0.7	384.5	54/50
36	349.6	40/33	2.4	361.6	45/39	2.7	**374.9**	**50/45**	**0.7**	382.2	52/48	0.9	391.2	54/51
34	353.7	39/34	2.5	366.1	44/39	2.7	**379.7**	**49/45**	**0.7**	387.1	52/48	1.1	398.0	53/51
32	357.6	40/34	2.5	370.2	45/40	2.8	**384.0**	**50/46**	**1.1**	394.5	52/49	0.8	402.2	54/52
30	361.9	41/35	2.6	374.8	46/41	3.0	**390.0**	**51/47**	**1.0**	399.8	52/49	0.7	406.8	55/53
28	362.9	41/35	2.6	375.9	46/41	3.2	**391.8**	**51/47**	**0.9**	400.8	53/49	0.7	407.9	55/53
26	363.9	41/35	2.6	376.9	46/41	3.4	**393.7**	**51/47**	**0.8**	401.8	53/50	0.7	408.9	55/53
24	364.9	42/36	2.6	378.0	47/42	3.5	**395.5**	**51/47**	**0.7**	402.8	53/50	0.7	410.0	55/53
22	365.9	42/36	2.6	379.0	47/42	3.5	**396.7**	**51/47**	**0.7**	403.9	53/50	0.7	411.0	56/54
20	366.9	42/36	2.6	380.1	47/42	3.5	**397.8**	**51/47**	**0.7**	404.9	54/50	0.7	412.1	56/54
18	367.9	42/36	2.7	381.2	47/42	3.5	**398.8**	**52/48**	**0.7**	406.0	54/51	0.7	413.2	56/54
16	369.0	43/37	2.6	382.2	48/43	3.5	**399.9**	**52/48**	**0.7**	407.1	54/51	0.7	414.3	56/54
14	370.0	43/37	2.7	383.3	48/43	3.5	**401.0**	**52/48**	**0.7**	408.2	54/51	0.7	415.4	57/55
12	371.1	43/37	2.7	384.4	48/43	3.5	**402.0**	**52/48**	**0.7**	409.3	55/52	0.7	416.5	57/55
10	372.2	43/37	2.7	385.6	48/43	3.5	**403.1**	**53/49**	**0.7**	410.4	55/52	0.7	417.6	57/55
8	373.3	44/38	2.7	386.7	49/44	3.5	**404.2**	**53/49**	**0.7**	411.6	55/52	0.7	418.8	57/56
6	374.4	44/38	2.8	388.5	49/44	3.4	**405.4**	**53/49**	**0.7**	412.7	56/52	0.7	420.0	58/56
4	375.5	44/38	3.0	390.5	49/44	3.2	**406.5**	**54/50**	**0.7**	413.8	56/53	0.7	421.2	58/56
2	376.6	44/38	3.2	392.5	49/44	3.0	**407.7**	**54/50**	**0.7**	415.0	56/53	0.7	422.3	58/56
0	377.8	45/39	3.4	394.6	49/44	2.9	**408.9**	**54/50**	**0.7**	416.2	56/53	0.7	423.5	59/57

P/C above 1013 + 0.1
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 10R - Rwy 10R

EMERGENCY TURN PROCEDURE

RNAV CIITY SID Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions. Eng Fail after CIITY - No restrictions provided SSA achieved.

RNAV SAHEY SID. Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions. Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

GAP and MOLEN SIDs NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY L (F/L) RWY 19L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.012% UP
TOR	2636m (8648ft)	**ED**	2636m (8648ft)	**TOD**	2636m (8648ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

MIN ACCEL HT 1500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/		217.9	21/21	1.1	**223.5**	**23/23**	**0.3**	226.5	24/24	0.3	229.3	25/25
66		/		229.0	24/20	1.2	**235.0**	**26/26**	**0.3**	238.2	27/27	0.3	241.4	28/28
62	206.2	14/14	6.9	240.5	27/22	1.3	**246.9**	**29/29**	**0.3**	250.3	31/31	0.3	253.7	32/32
58	213.8	16/16	7.1	249.1	29/24	1.8	**258.1**	**33/30**	**0.4**	261.7	34/34	0.4	265.3	35/35
54	220.1	18/17	7.2	256.2	31/26	2.4	**268.3**	**36/32**	**0.4**	272.1	37/36	0.4	275.8	39/39
52	222.8	18/18	7.4	259.6	32/25	2.7	**273.1**	**37/31**	**0.4**	277.0	39/35	0.4	280.7	40/39
50	225.8	19/19	7.4	262.9	33/26	3.0	**278.0**	**38/32**	**0.4**	281.9	40/36	0.4	285.6	41/39
48	228.8	19/19	7.5	266.2	34/27	3.3	**282.7**	**40/33**	**0.4**	286.7	41/36	0.4	290.5	42/40
46	231.6	20/20	7.6	269.6	34/28	3.6	**287.4**	**41/33**	**0.4**	291.4	42/37	0.4	295.3	44/41
44	234.4	21/21	7.7	272.7	35/28	3.9	**292.0**	**42/34**	**0.4**	296.2	44/38	0.4	300.1	45/41
42	237.4	21/21	7.7	276.0	36/29	4.2	**296.8**	**43/34**	**0.4**	300.9	45/38	0.4	304.9	46/42
40	240.4	22/22	7.8	279.5	37/30	4.4	**301.4**	**44/35**	**0.4**	305.6	46/39	0.4	309.7	47/43
38	243.4	23/23	7.9	283.0	38/31	4.7	**306.5**	**46/36**	**0.4**	310.7	47/40	0.4	314.9	49/43
36	246.6	23/23	8.0	286.5	38/31	5.0	**311.6**	**47/36**	**0.4**	315.9	48/40	0.4	320.0	50/44
34	249.7	24/24	8.1	290.0	39/32	5.3	**316.3**	**46/37**	**0.4**	320.6	49/41	0.4	324.9	51/45
32	252.4	25/25	8.2	293.2	40/33	5.5	**320.7**	**47/38**	**0.5**	325.2	50/42	0.4	329.4	52/45
30	255.5	25/25	8.2	296.7	41/33	5.8	**325.6**	**48/38**	**0.4**	330.0	51/42	0.4	334.4	53/46
28	256.3	26/26	8.2	297.5	41/34	5.7	**325.8**	**48/39**	**0.4**	330.2	51/43	0.4	334.6	53/46
26	257.0	26/26	8.3	298.3	41/34	5.5	**326.0**	**49/39**	**0.4**	330.4	51/43	0.4	334.8	53/47
24	257.7	26/26	8.3	299.2	41/34	5.4	**326.2**	**49/39**	**0.4**	330.6	52/43	0.4	335.0	53/47
22	258.4	26/26	8.3	300.0	42/34	5.3	**326.4**	**49/40**	**0.4**	330.8	52/44	0.4	335.2	53/48
20	259.2	27/27	8.3	300.8	42/35	5.2	**326.6**	**50/40**	**0.4**	331.0	52/44	0.4	335.4	54/48
18	259.9	27/27	8.3	301.6	42/35	5.0	**326.8**	**50/40**	**0.4**	331.2	52/44	0.4	335.5	54/48
16	260.7	27/27	8.4	302.5	43/35	4.9	**327.0**	**51/41**	**0.4**	331.4	52/45	0.4	335.7	54/49
14	261.4	27/27	8.4	303.3	43/36	4.8	**327.1**	**51/41**	**0.5**	331.6	52/45	0.4	335.9	54/49
12	262.1	28/28	8.4	304.2	43/36	4.6	**327.3**	**51/42**	**0.5**	331.8	52/46	0.4	336.1	54/49
10	262.9	28/28	8.4	305.0	43/36	4.5	**327.5**	**51/42**	**0.5**	332.0	52/46	0.4	336.3	54/50
8	263.7	28/28	8.4	305.9	44/36	4.4	**327.7**	**51/42**	**0.5**	332.2	52/46	0.4	336.5	54/50
6	264.4	29/29	8.5	306.8	44/37	4.2	**327.9**	**51/43**	**0.5**	332.4	53/47	0.4	336.7	54/51
4	265.2	29/29	8.5	307.7	44/37	4.1	**328.1**	**51/43**	**0.5**	332.6	53/47	0.4	336.9	54/51
2	266.0	29/29	8.5	308.7	45/37	3.9	**328.3**	**51/44**	**0.5**	332.8	53/48	0.4	337.1	54/52
0	266.8	30/30	8.6	309.6	45/38	3.8	**328.5**	**51/44**	**0.5**	333.0	53/48	0.4	337.3	54/52

P/C above 1013 + 0.1
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 19L - Rwy 19L

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1513ft QNH (1500ft HAA).

LUVVE GAP and MOLEN SIDS NOT APPROVED. ALL ENGINES PROCEDURE REMAINING SIDs TURN LEFT at 520ft QNH due to rising terrain south of airfield.

ENGINE FAILURE Turn LEFT at 520ft QNH/SFO 2d (whichever earlier) and follow SID.

RNAV CIITY SID Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions. Eng Fail after CIITY - No restrictions provided SSA achieved.

RNAV SAHEY SID. Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions. Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY E (F/L) RWY 19R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0% UP
TOR	2331m (7647ft)	**ED**	2331m (7647ft)	**TOD**	2331m (7647ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

MIN ACCEL HT 1500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/		**215.6**	**20/20**	**0.4**	219.5	21/21	0.3	222.6	23/23
66		/			/		**223.0**	**22/20**	**0.6**	228.7	24/23	0.5	234.0	26/26
62		/			/		**231.5**	**24/22**	**0.6**	237.5	26/25	0.6	243.5	28/28
58		/			/		**239.8**	**26/24**	**0.6**	245.9	28/27	0.6	252.1	30/30
54		/			/		**246.8**	**27/26**	**0.6**	253.0	30/29	0.6	259.4	32/32
52		/			/		**250.1**	**28/25**	**0.6**	256.3	30/29	0.6	262.6	33/32
50		/			/		**253.3**	**29/26**	**0.6**	259.8	31/29	0.6	266.1	34/33
48		/			/		**256.5**	**30/27**	**0.7**	263.0	32/30	0.7	269.5	35/34
46		/			/		**259.8**	**30/28**	**0.6**	266.2	33/31	0.7	272.8	36/35
44		/			/		**262.8**	**31/28**	**0.7**	269.4	34/32	0.7	276.0	36/36
42		/			/		**266.0**	**32/29**	**0.7**	272.6	35/33	0.7	279.4	37/36
40		/			/		**269.3**	**33/30**	**0.7**	276.0	36/34	0.7	282.8	38/37
38		/			/		**272.6**	**34/31**	**0.7**	279.5	36/34	0.7	286.4	39/38
36		/			/		**276.1**	**35/32**	**0.7**	283.0	37/35	0.7	290.1	40/39
34		/			/		**279.4**	**35/32**	**0.7**	286.4	38/36	0.7	293.5	40/40
32		/			/		**282.5**	**36/33**	**0.7**	289.6	39/37	0.7	296.7	41/40
30		/			/		**285.9**	**37/34**	**0.7**	293.0	39/37	0.7	300.4	42/41
28		/			/		**286.7**	**37/34**	**0.7**	293.8	40/38	0.7	301.2	42/41
26		/			/		**287.4**	**37/34**	**0.7**	294.6	40/38	0.7	302.0	42/42
24		/			/		**288.2**	**38/35**	**0.7**	295.4	40/38	0.7	302.8	43/42
22		/			/		**289.0**	**38/35**	**0.7**	296.2	40/38	0.7	303.6	43/42
20		/			/		**289.8**	**38/35**	**0.7**	297.0	41/39	0.7	304.4	43/42
18		/			/		**290.6**	**38/35**	**0.7**	297.8	41/39	0.8	305.3	44/43
16		/			/		**291.4**	**39/36**	**0.7**	298.7	41/39	0.8	306.2	44/43
14		/			/		**292.2**	**39/36**	**0.7**	299.5	42/40	0.8	307.0	44/43
12		/			/		**293.0**	**39/36**	**0.7**	300.4	42/40	0.8	307.9	44/44
10		/			/		**293.8**	**40/37**	**0.7**	301.2	42/40	0.8	308.8	45/44
8		/			/		**294.6**	**40/37**	**0.8**	302.1	42/40	0.8	309.7	45/44
6		/			/		**295.5**	**40/37**	**0.8**	303.0	43/41	0.8	310.6	45/45
4		/			/		**296.4**	**40/37**	**0.7**	303.8	43/41	0.8	311.5	46/45
2		/			/		**297.2**	**41/38**	**0.8**	304.7	43/41	0.8	312.5	46/45
0		/			/		**298.1**	**41/38**	**0.8**	305.7	44/42	0.8	313.4	46/45

P/C above 1013 + 0.0
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 19R - Rwy 19R

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1513ft QNH (1500ft HAA).

LUVVE GAP and MOLEN SIDS NOT APPROVED. ALL ENGINES PROCEDURE REMAINING SIDs TURN LEFT at 520ft QNH due to rising terrain south of airfield.

ENGINE FAILURE Turn LEFT at 520ft QNH/SFO 2d (whichever earlier) and follow SID.

RNAV CIITY SID Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions. Eng Fail after CIITY - No restrictions provided SSA achieved.

RNAV SAHEY SID. Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions. Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY F/C (F/L) RWY 28L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.053% DN
TOR	3469m (11381ft)	**ED**	3347m (10980ft)	**TOD**	3469m (11381ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

MIN ACCEL HT 1500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	264.9	34/23	0.9	269.5	40/29	1.0	**274.3**	**42/36**	**0.3**	276.8	43/39	0.2	279.2	44/42
66	278.9	35/24	1.0	283.9	41/30	1.0	**288.9**	**46/36**	**0.3**	291.5	47/39	0.3	294.1	48/43
62	293.1	37/26	1.1	298.4	43/32	1.0	**303.6**	**49/38**	**0.3**	306.3	51/42	0.3	308.9	52/45
58	303.6	38/28	1.6	311.7	43/34	1.1	**317.0**	**49/40**	**0.3**	319.8	52/44	0.3	322.6	55/47
54	312.1	38/30	2.1	322.7	43/36	1.3	**329.2**	**49/42**	**0.3**	332.1	52/45	0.3	335.0	55/49
52	316.3	39/29	2.1	327.0	44/35	1.6	**334.8**	**50/41**	**0.3**	337.8	53/44	0.3	340.7	56/48
50	320.0	39/30	2.2	330.9	44/36	1.9	**340.4**	**49/42**	**0.3**	343.5	52/45	0.3	346.5	55/49
48	324.1	39/31	2.2	335.1	44/36	2.2	**346.0**	**50/42**	**0.3**	349.2	52/46	0.3	352.3	55/49
46	328.3	40/31	2.2	339.3	45/37	2.3	**350.6**	**50/43**	**0.4**	354.9	53/46	0.3	358.1	56/50
44	332.2	41/32	2.2	343.3	46/38	2.3	**354.9**	**51/44**	**0.6**	360.6	54/47	0.3	364.0	56/51
42	336.0	40/33	2.3	347.4	45/39	2.4	**359.3**	**50/45**	**0.7**	366.0	52/48	0.4	369.9	55/51
40	340.2	41/34	2.3	351.7	46/39	2.4	**363.9**	**51/45**	**0.7**	370.7	53/48	0.5	376.1	56/52
38	344.4	42/34	2.3	356.1	47/40	2.5	**368.7**	**52/46**	**0.7**	375.6	54/49	0.7	382.6	56/53
36	348.7	42/35	2.4	360.7	47/41	2.6	**373.5**	**52/47**	**0.7**	380.7	55/50	0.7	388.1	57/53
34	352.9	42/36	2.5	365.2	47/42	2.6	**378.2**	**52/48**	**0.7**	385.3	54/51	0.9	394.6	56/54
32	356.8	42/36	2.5	369.4	47/42	2.6	**382.6**	**52/48**	**0.9**	391.4	54/51	0.9	400.0	56/54
30	361.2	43/37	2.6	374.0	48/43	2.7	**387.7**	**53/49**	**1.0**	397.9	55/52	0.7	404.8	57/55
28	362.2	43/37	2.6	375.0	48/43	2.9	**389.4**	**53/49**	**1.0**	399.0	55/52	0.7	405.8	57/55
26	363.1	44/38	2.6	376.0	49/44	3.0	**391.0**	**53/50**	**0.9**	399.9	55/52	0.7	406.7	58/56
24	364.0	44/38	2.6	377.0	49/44	3.1	**392.6**	**54/50**	**0.8**	400.9	56/52	0.6	406.9	58/56
22	365.0	44/38	2.6	378.0	49/44	3.3	**394.3**	**54/50**	**0.8**	401.8	56/53	0.5	407.1	58/56
20	365.9	44/38	2.6	379.0	49/44	3.4	**395.9**	**54/50**	**0.7**	402.8	56/53	0.5	407.3	59/57
18	366.9	45/39	2.6	380.1	50/45	3.4	**396.9**	**54/50**	**0.7**	403.8	56/53	0.4	407.5	59/57
16	367.9	45/39	2.6	381.1	50/45	3.4	**397.9**	**54/50**	**0.6**	404.1	57/54	0.4	407.7	60/57
14	368.9	45/39	2.6	382.1	50/45	3.4	**398.9**	**55/51**	**0.5**	404.3	57/54	0.4	407.9	60/58
12	369.9	46/40	2.7	383.2	51/46	3.3	**399.9**	**55/51**	**0.5**	404.5	58/54	0.4	408.2	61/58
10	370.9	46/40	2.7	384.2	51/46	3.3	**400.8**	**55/51**	**0.4**	404.7	58/55	0.4	408.4	61/59
8	372.0	46/40	2.7	385.3	51/46	3.2	**401.1**	**56/52**	**0.4**	404.9	59/55	0.4	408.6	62/59
6	373.0	46/40	2.7	386.4	51/46	3.0	**401.4**	**56/52**	**0.4**	405.1	59/56	0.4	408.8	62/60
4	374.1	47/41	2.7	387.8	52/47	2.8	**401.6**	**57/52**	**0.4**	405.4	60/56	0.4	409.0	63/60
2	375.2	47/41	2.9	389.6	52/47	2.4	**401.8**	**57/53**	**0.4**	405.6	60/56	0.4	409.2	63/60
0	376.3	47/41	3.0	391.4	52/47	2.1	**402.1**	**58/53**	**0.4**	405.8	61/57	0.4	409.4	64/61

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 28L - Rwy 28L

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1513FT QNH (1500FT HAA).

EMERGENCY TURN PROCEDURE OFFSHORE/MOLEN/SAN FRANCISCO SIDS

Eng fail BEFORE SFO 6d - continue ahead on SFO 281R and request instructions. Eng fail AFTER SFO 6d - No restrictions provided SSA achieved.

RNAV SNTNA SID Eng Fail before KYNNG - Continue ahead on SFO 284R and request instructions. Eng fail AFTER KYNNG - No restrictions provided SSA achieved.

GAP SHORELINE RNAV GNNRR NIITE RNAV TRUKN and RNAV WESLA SIDs NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SAN FRANCISCO**

A/D Elev **13ft** **INTL (KSFO)**

TWY C (F/L) RWY 28R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.067% DN
TOR	3618m (11870ft)	**ED**	3618m (11870ft)	**TOD**	3618m (11870ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

MIN ACCEL HT 1500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	264.9	39/29	0.9	269.5	40/35	1.0	**274.3**	**42/41**	**0.3**	276.8	43/43	0.2	279.1	44/44
66	278.9	41/30	1.0	283.9	45/36	1.0	**288.9**	**46/42**	**0.3**	291.5	47/45	0.3	294.1	48/48
62	293.1	43/32	1.0	298.3	48/38	1.0	**303.5**	**50/44**	**0.3**	306.2	51/47	0.3	308.8	52/51
58	306.2	43/34	1.1	311.6	49/40	1.1	**317.0**	**54/46**	**0.3**	319.8	54/50	0.3	322.6	55/53
54	317.9	43/35	1.1	323.6	49/41	1.1	**329.1**	**55/48**	**0.3**	332.1	58/51	0.3	335.0	58/55
52	323.3	43/34	1.2	329.1	49/40	1.1	**334.8**	**56/47**	**0.3**	337.8	58/50	0.3	340.7	60/54
50	328.5	43/35	1.2	334.7	48/41	1.1	**340.4**	**55/48**	**0.3**	343.5	57/51	0.3	346.5	60/54
48	333.8	43/35	1.3	340.1	49/42	1.2	**346.0**	**55/48**	**0.3**	349.1	58/52	0.3	352.3	61/55
46	338.9	44/36	1.3	345.5	50/42	1.2	**351.6**	**56/49**	**0.3**	354.9	58/52	0.3	358.0	61/56
44	342.8	45/37	1.6	350.8	50/43	1.3	**357.3**	**56/49**	**0.3**	360.6	59/53	0.3	363.9	62/56
42	346.7	44/38	1.9	356.3	49/44	1.4	**363.1**	**55/50**	**0.3**	366.5	58/54	0.3	369.9	60/57
40	351.0	44/38	2.2	361.9	49/44	1.4	**368.9**	**55/51**	**0.4**	372.5	58/54	0.4	376.1	61/58
38	355.3	45/39	2.4	367.5	50/45	1.6	**375.5**	**56/51**	**0.4**	379.2	59/55	0.3	382.6	61/58
36	359.8	46/40	2.5	372.3	51/46	1.9	**381.9**	**57/52**	**0.4**	385.5	59/55	0.3	388.9	62/59
34	364.2	45/41	2.5	376.9	50/47	2.2	**387.7**	**56/53**	**0.4**	391.2	58/56	0.3	394.6	61/60
32	368.3	46/41	2.6	381.3	51/47	2.4	**393.1**	**56/53**	**0.3**	396.5	59/57	0.4	400.0	62/60
30	372.9	47/42	2.6	385.9	52/48	2.6	**398.7**	**57/54**	**0.4**	402.5	59/57	0.4	406.2	62/61
28	373.9	47/42	2.7	387.2	52/48	2.4	**399.0**	**57/54**	**0.4**	402.8	60/58	0.4	406.5	63/61
26	374.9	47/43	2.8	388.9	52/48	2.1	**399.2**	**58/54**	**0.4**	403.0	60/58	0.4	406.7	63/62
24	376.0	48/43	2.9	390.7	52/49	1.7	**399.4**	**58/55**	**0.4**	403.2	61/58	0.4	406.9	63/62
22	377.0	48/43	3.1	392.5	52/49	1.4	**399.6**	**58/55**	**0.4**	403.4	61/59	0.4	407.1	64/62
20	378.1	48/43	2.9	392.7	53/49	1.4	**399.8**	**59/56**	**0.4**	403.6	62/59	0.4	407.3	64/63
18	379.2	48/44	2.8	393.0	53/49	1.4	**400.0**	**59/56**	**0.4**	403.8	62/59	0.4	407.5	65/63
16	380.2	49/44	2.6	393.3	54/50	1.4	**400.3**	**60/56**	**0.4**	404.0	62/60	0.4	407.7	65/64
14	381.3	49/44	2.4	393.5	54/50	1.4	**400.5**	**60/57**	**0.4**	404.2	63/60	0.4	407.9	66/64
12	382.4	49/44	2.3	393.8	54/51	1.4	**400.7**	**61/57**	**0.4**	404.4	63/61	0.4	408.1	66/64
10	383.5	49/45	2.1	394.1	55/51	1.4	**400.9**	**61/58**	**0.4**	404.7	64/61	0.4	408.3	67/65
8	384.6	50/45	2.0	394.4	55/51	1.3	**401.1**	**62/58**	**0.4**	404.9	64/62	0.4	408.5	67/65
6	385.7	50/45	1.8	394.6	56/52	1.4	**401.4**	**62/58**	**0.4**	405.1	65/62	0.4	408.7	68/66
4	386.9	50/46	1.6	394.9	56/52	1.3	**401.6**	**62/59**	**0.4**	405.3	65/62	0.4	408.9	68/66
2	387.8	51/46	1.5	395.1	57/52	1.3	**401.8**	**63/59**	**0.4**	405.5	66/63	0.4	409.1	69/67
0	388.1	51/46	1.4	395.3	57/53	1.3	**402.0**	**63/60**	**0.4**	405.7	66/63	0.4	409.3	69/67

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 28R - Rwy 28R

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1513FT QNH (1500FT HAA).

EMERGENCY TURN PROCEDURE OFFSHORE/MOLEN/SAN FRANCISCO SIDs

Eng fail BEFORE SFO 6d - Continue ahead on SFO 281R and request instructions. Eng fail AFTER SFO 6d - no restrictions provided SSA achieved.

RNAV SNTNA SID Eng fail BEFORE KYNNG - Continue ahead on SFO 284R and request instruction. Eng fail AFTER KYNNG - No restrictions provided SSA achieved.

GAP SHORELINE RNAV GNNRR NIITE RNAV TRUKN and RNAV WESLA SIDs NOT APPROVED.

SALT LAKE CITY INTL (KSLC)

SALT LAKE CITY INTL and runways 16L, 16R, 17, 34L, 34R, 35 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **SACRAMENTO (KSMF)**

A/D Elev **27ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**16L**	**16R**	**34L**	**34R**
Landing Distance Available	2621m/8600ft	2621m/8600ft	2621m/8600ft	2621m/8600ft
Slope	.04 DN	NIL	NIL	.04UP
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	0kt (280.8)	0kt (280.8)	0kt (268.0)	0kt (268.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	215.0	215.0	215.0	215.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	0kt (280.8)	0kt (280.8)	0kt (280.9)	0kt (280.9)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	238.0	238.0	238.0	238.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH EAST clockwise through EAST of airfield.

ST LOUIS

LAMBERT-ST LOUIS INTL **(KSTL)**

ST LOUIS/LAMBERT-ST LOUIS INTL and runways 06, 11, 12L, 12R, 24, 29, 30L, 30R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **NEWBURGH**

A/D Elev **491ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **STEWART INTL (KSWF)**

RUNWAY	**09**	**27**		
Landing Distance Available	2688m / 8818ft	2993m / 9818ft		
Slope	.04 DN	.04 UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°		
25F Zero HW wt or TW (Manual)	1kt (271.0)	7kt (1kt)		
25F Zero HW wt or TW (Autoland)	1kt (271.0)			
25F Slippery Zero HW wt or TW (Manual)	220.0	245.0		
25F Slippery Zero HW wt or TW (Autoland)	220.0			
30F Zero HW wt or TW (Manual)	1kt (280.8)	7kt (1kt)		
30F Zero HW wt or TW (Autoland)	1kt (280.8)			
30F Slippery Zero HW wt or TW (Manual)	242.0	270.0		
30F Slippery Zero HW wt or TW (Autoland)	242.0			
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **TAMPA**

A/D Elev **26ft** Max wt Permitted (For pre flt planning) **285,760kg** **(KTPA)**

RUNWAY	01L	01R	10	19L
Landing Distance Available	3291m / 10800ft	2530m / 8300ft	1981m / 6500ft	2530m / 8300ft
Notes			Note 1	
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	13kt (7kt)	280.0 (258.0)	217.0 (NOT AUTH)	280.0 (258.0)
25F Zero HW wt or TW (Autoland)	13kt (7kt)			280.0 (258.0)
25F Slippery Zero HW wt or TW (Manual)	270.0	209.0	NOT AUTH	209.0
25F Slippery Zero HW wt or TW (Autoland)	270.0			209.0
30F Zero HW wt or TW (Manual)	13kt (7kt)	280.8 (277.0)	231.0 (210.0)	280.8 (277.0)
30F Zero HW wt or TW (Autoland)	13kt (7kt)			280.8 (277.0)
30F Slippery Zero HW wt or TW (Manual)	280.8	231.0	NOT AUTH	231.0
30F Slippery Zero HW wt or TW (Autoland)	280.8			231.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 10/28** usually only used by light aircraft however ATC may give permission for use if required.

BRITISH AIRWAYS **B747-400** LANDING DATA **TAMPA (KTPA)**

A/D Elev **26ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**19R**	**28**		
Landing Distance Available	3353m /11000ft	1981m / 6500ft		
Slope	.10 DN	.17 DN		
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (8kt)	217.0 (NOT AUTH)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	277.0	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (8kt)	231.0 (210.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	NOT AUTH		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 10/28** usually only used by light aircraft however ATC may give permission for use if required.

BRITISH AIRWAYS **B747-400** LANDING DATA **TUCSON INTERNATIONAL (KTUS)**

A/D Elev **2641ft** Max wt Permitted (For pre flt planning) **265,351kg** Briefing Cat B

RUNWAY	**11L**	**29R**		
Landing Distance Available	3351m / 10994ft	3351m / 10994ft		
Slope	.59 UP	.59 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	260.0	260.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Bearing Strength Limit:-** 265,000kg. Do not land above this weight except in emergency or with prior permission.

BRITISH AIRWAYS **B747-400** LANDING DATA **LARNACA (LCLK)**

A/D Elev **11ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**04**	**22**		
Landing Distance Available	2934m / 9627ft	2812m / 9227ft		
Slope	.02DN	.02UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	6kt (1kt)	4kt (280.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	241.0	235.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	13kt (7kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	267.0	258.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located WEST of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **BARCELONA**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **EL PRAT (LEBL)**

RUNWAY	02	07L	07R	20
Landing Distance Available	2528m / 8291ft	2922m / 9586ft	2660m / 8727ft	
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°/54°	NOT AVAILABLE
25F Zero HW wt or TW (Manual)	279.0 (258.0)	6kt (1kt)	1kt (270.0)	
25F Zero HW wt or TW (Autoland)			1kt (270.0)	
25F Slippery Zero HW wt or TW (Manual)	209.2	241.0	218.0	
25F Slippery Zero HW wt or TW (Autoland)			218.0	
30F Zero HW wt or TW (Manual)	283.8 (276.0)	6kt (1kt)	1kt (280.8)	
30F Zero HW wt or TW (Autoland)			1kt (280.8)	
30F Slippery Zero HW wt or TW (Manual)	232.2	267.0	242.0	
30F Slippery Zero HW wt or TW (Autoland)			242.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	
Inc per kt HW kg	750kg	750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Surface :** Rwy 07L liable to have degraded braking action when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **BARCELONA**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **EL PRAT (LEBL)**

RUNWAY	**25L**	**25R**		
Landing Distance Available	2660m / 8727ft	3352m / 10997ft		
Notes		Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	1kt (270.0)	15kt (8kt)		
25F Zero HW wt or TW (Autoland)	1kt (270.0)	15kt (8kt)		
25F Slippery Zero HW wt or TW (Manual)	218.0	277.0		
25F Slippery Zero HW wt or TW (Autoland)	218.0	277.0		
30F Zero HW wt or TW (Manual)	1kt (280.8)	15kt (8kt)		
30F Zero HW wt or TW (Autoland)	1kt (280.8)	15kt (8kt)		
30F Slippery Zero HW wt or TW (Manual)	242.0	280.8		
30F Slippery Zero HW wt or TW (Autoland)	242.0	280.8		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Surface :** Rwy 25R liable to have degraded braking action when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **MADRID**

A/D Elev **1999ft** Max wt Permitted (For pre flt planning) **285,760kg** **BARAJAS (LEMD)**

RUNWAY	14L	14R	18L	18R
Landing Distance Available	NOT APPROVED FOR LANDING	NOT APPROVED FOR LANDING	3000m / 9843ft	3365m / 11040ft
Notes			Notes 1,2	Notes 1,2,3
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp			50°/50°	50°/50°
25F Zero HW wt or TW (Manual)			5kt (282.0)	11kt (5kt)
25F Zero HW wt or TW (Autoland)			5kt (282.0)	11kt (5kt)
25F Slippery Zero HW wt or TW (Manual)			235.0	266.0
25F Slippery Zero HW wt or TW (Autoland)			235.0	266.0
30F Zero HW wt or TW (Manual)			5kt (280.8)	11kt (5kt)
30F Zero HW wt or TW (Autoland)			5kt (280.8)	11kt (5kt)
30F Slippery Zero HW wt or TW (Manual)			260.0	280.8
30F Slippery Zero HW wt or TW (Autoland)			260.0	280.8
Red'n per extra kt TW kg			5300kg	5300kg
Inc per kt HW kg			750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located **NORTHWEST** clockwise through **NORTH** of airfield.
2. **REVERSE THRUST** : Crews are reminded that REVERSE THRUST is prohibited at night, consistent with the safe operation of the aircraft.
3. MACG Rwy 18R: 4.5% Minima can be used up to 50°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **MADRID**

A/D Elev **1999ft** Max wt Permitted (For pre flt planning) **285,760kg** **BARAJAS (LEMD)**

RUNWAY	32L	32R	36L	36R
Landing Distance Available	3060m / 10039ft	3000m / 9843ft	NOT APPROVED FOR LANDING	NOT APPROVED FOR LANDING
Notes	Notes 1,2,3	Notes 1,2		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	50°/50°	50°/50°		
25F Zero HW wt or TW (Manual)	6kt (0kt)	5kt (282.0)		
25F Zero HW wt or TW (Autoland)	6kt (0kt)	5kt (282.0)		
25F Slippery Zero HW wt or TW (Manual)	242.0	235.0		
25F Slippery Zero HW wt or TW (Autoland)	242.0	235.0		
30F Zero HW wt or TW (Manual)	6kt (0kt)	5kt (280.8)		
30F Zero HW wt or TW (Autoland)	6kt (0kt)	5kt (280.8)		
30F Slippery Zero HW wt or TW (Manual)	266.0	260.0		
30F Slippery Zero HW wt or TW (Autoland)	266.0	260.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located **NORTHWEST** clockwise through **NORTH** of airfield.
2. **REVERSE THRUST :** Crews are reminded that REVERSE THRUST is prohibited at night, consistent with the safe operation of the aircraft.
3. **ILS Rwy 33L** - Pilots should be aware of the possibility of false localiser capture.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MADRID**

A/D Elev **1999ft** **BARAJAS A. SUAREZ (LEMD)**

F/L (TWY K1/K2) RWY 14L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.575% DN
TOR	3500m (11482ft)	**ED**	3500m (11482ft)	**TOD**	3800m (12467ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	266.6	30/20	1.5	274.0	36/25	0.8	**278.0**	**42/31**	**0.0**	278.0	45/35	0.0	278.0	45/38
66	275.8	31/21	1.6	283.9	36/27	1.7	**292.2**	**41/32**	**0.1**	293.3	43/35	0.0	293.3	46/39
62	286.8	33/23	1.7	295.4	38/29	1.8	**304.3**	**43/34**	**0.4**	308.6	45/37	0.0	308.6	48/41
58	296.5	33/26	1.8	305.3	38/31	1.8	**314.5**	**43/37**	**0.5**	319.3	45/39	0.4	323.1	48/43
54	305.7	35/27	1.8	314.8	40/33	1.9	**324.3**	**45/38**	**0.5**	329.3	47/41	0.5	334.2	49/44
52	309.2	35/26	1.9	318.7	40/32	2.0	**328.5**	**45/38**	**0.5**	333.5	47/40	0.5	338.6	49/43
50	313.3	36/27	2.0	323.2	41/33	2.0	**333.1**	**46/38**	**0.5**	338.1	48/41	0.5	343.3	50/44
48	317.4	37/28	2.0	327.6	41/34	2.0	**337.5**	**46/39**	**0.5**	342.6	49/42	0.5	347.8	51/45
46	321.4	37/29	2.1	331.8	42/34	2.0	**341.8**	**47/40**	**0.5**	346.9	49/43	0.5	352.3	52/46
44	324.8	37/30	2.1	335.4	42/35	2.1	**345.9**	**47/41**	**0.5**	351.3	49/44	0.6	356.8	51/47
42	329.0	38/30	2.1	339.5	42/36	2.2	**350.4**	**47/41**	**0.5**	355.8	50/44	0.6	361.4	52/48
40	333.0	38/31	2.1	343.6	43/37	2.2	**354.8**	**48/42**	**0.6**	360.4	50/45	0.6	366.3	53/48
38	337.1	39/32	2.1	347.8	44/37	2.3	**359.5**	**49/43**	**0.6**	365.3	51/46	0.6	371.3	54/49
36	341.1	38/33	2.2	352.1	43/38	2.4	**364.1**	**48/44**	**0.6**	370.3	50/47	0.6	376.4	52/50
34	345.0	39/33	2.2	356.2	44/39	2.5	**368.5**	**49/45**	**0.7**	375.1	51/48	0.6	381.3	53/51
32	348.7	40/34	2.3	360.1	44/40	2.5	**372.7**	**49/45**	**0.7**	379.4	51/48	0.6	385.8	54/52
30	352.9	40/35	2.3	364.6	45/41	2.6	**377.4**	**50/46**	**0.7**	384.2	52/49	0.9	392.7	54/52
28	356.0	39/35	2.4	367.9	44/41	2.6	**381.0**	**49/47**	**0.7**	388.4	51/50	0.9	397.5	53/52
26	359.1	40/36	2.4	371.2	45/42	2.6	**384.3**	**50/47**	**1.0**	394.1	51/50	0.7	400.9	54/53
24	362.2	41/37	2.5	374.5	45/42	2.8	**388.3**	**50/48**	**1.0**	398.2	52/50	0.6	404.3	54/53
22	363.1	41/37	2.5	375.5	46/42	2.9	**390.1**	**50/48**	**0.9**	399.1	52/50	0.6	405.2	54/54
20	364.1	41/37	2.5	376.6	46/43	3.1	**391.9**	**51/48**	**0.8**	400.0	52/51	0.6	406.1	55/54
18	365.1	41/37	2.5	377.6	46/43	3.2	**393.7**	**51/48**	**0.7**	400.9	53/51	0.6	407.0	55/54
16	366.2	42/37	2.5	378.7	46/43	3.4	**395.6**	**51/48**	**0.6**	401.8	53/51	0.6	407.9	55/54
14	367.2	42/38	2.5	379.8	47/43	3.4	**396.7**	**51/48**	**0.6**	402.7	53/52	0.6	408.9	56/55
12	368.2	42/38	2.5	380.9	47/44	3.3	**397.6**	**51/49**	**0.6**	403.6	54/52	0.6	409.8	56/55
10	369.3	42/38	2.5	381.9	47/44	3.3	**398.5**	**52/49**	**0.6**	404.5	54/52	0.6	410.8	56/55
8	370.4	43/39	2.5	383.0	48/44	3.3	**399.4**	**52/49**	**0.6**	405.5	54/52	0.6	411.7	56/56
6	371.4	43/39	2.6	384.2	48/44	3.2	**400.4**	**52/50**	**0.6**	406.4	54/53	0.6	412.7	57/56
4	372.5	43/39	2.6	385.3	48/45	3.2	**401.3**	**52/50**	**0.6**	407.4	55/53	0.6	413.6	57/56
2	373.7	43/39	2.6	386.5	48/45	3.1	**402.2**	**53/50**	**0.6**	408.4	55/53	0.6	414.6	57/57
0	374.6	45/40	2.6	387.7	50/45	3.1	**403.0**	**55/50**	**0.6**	409.2	57/54	0.6	415.4	59/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 14L - Rwy14L.

Initial Turn - The early turn onto track 129M reqd on selected SIDs at the departure end of RWY 14L (SSY 5d) is approved consistent with safe operation of the aircraft.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MADRID**

A/D Elev **1999ft** **BARAJAS A. SUAREZ (LEMD)**

F/L (TWY LC/LE) RWY 14R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.657% DN
TOR	3988m (13083ft)	**ED**	3988m (13083ft)	**TOD**	4210m (13812ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	278.0	37/27	0.0	278.0	43/33	0.0	**278.0**	**45/40**	**0.0**	278.0	45/43	0.0	278.0	45/45
66	289.8	36/28	0.7	293.3	42/34	0.0	**293.3**	**48/40**	**0.0**	293.3	49/44	0.0	293.3	49/47
62	301.2	39/30	1.5	308.6	43/36	0.0	**308.6**	**50/42**	**0.0**	308.6	53/46	0.0	308.6	54/49
58	311.1	39/33	1.8	320.1	43/38	0.6	**323.1**	**49/44**	**0.0**	323.1	53/48	0.0	323.1	56/51
54	320.6	41/35	1.9	329.9	45/40	1.4	**336.7**	**51/46**	**0.0**	336.7	54/49	0.0	336.7	57/53
52	324.5	40/34	1.9	333.9	45/39	1.8	**343.0**	**50/44**	**0.0**	343.0	53/48	0.0	343.0	57/52
50	329.1	41/34	1.9	338.5	46/40	2.0	**348.5**	**51/45**	**0.1**	349.4	54/49	0.0	349.4	57/52
48	333.4	42/35	1.9	342.8	47/41	2.1	**353.1**	**52/46**	**0.2**	355.5	55/49	0.0	355.5	58/53
46	337.6	43/36	1.9	347.1	48/41	2.1	**357.6**	**53/47**	**0.4**	361.7	55/50	0.0	361.7	58/54
44	341.5	42/37	2.0	351.4	47/42	2.2	**362.2**	**52/48**	**0.6**	367.8	54/51	0.0	367.8	58/54
42	345.8	43/38	2.0	355.8	48/43	2.2	**366.9**	**53/49**	**0.6**	372.9	55/51	0.1	373.8	58/55
40	350.1	44/38	2.1	360.4	49/44	2.3	**371.8**	**54/49**	**0.6**	378.0	56/52	0.2	379.8	59/56
38	354.5	45/39	2.1	365.1	50/45	2.3	**376.8**	**55/50**	**0.6**	383.1	57/53	0.3	386.2	59/56
36	359.1	44/40	2.2	370.1	48/45	2.4	**382.0**	**53/51**	**0.7**	389.0	55/54	0.4	392.6	58/57
34	363.5	44/41	2.2	374.7	49/46	2.4	**386.8**	**54/52**	**1.0**	396.3	56/54	0.2	398.7	58/57
32	367.7	45/41	2.3	379.2	50/47	2.9	**393.8**	**54/52**	**0.7**	400.7	56/55	0.4	404.9	59/58
30	372.4	46/42	2.3	384.0	50/48	3.1	**399.4**	**55/53**	**0.6**	405.5	57/56	0.5	410.9	59/59
28	376.1	45/43	2.4	388.2	50/48	2.9	**402.9**	**54/53**	**0.6**	409.2	56/56	0.6	415.4	58/59
26	379.5	45/43	2.8	393.7	50/48	2.5	**406.3**	**55/54**	**0.6**	412.6	57/57	0.6	418.9	59/60
24	382.9	46/44	3.0	397.9	50/49	2.4	**409.8**	**55/54**	**0.6**	416.0	57/57	0.6	422.4	60/60
22	383.9	46/44	3.0	398.9	50/49	2.4	**410.8**	**55/55**	**0.6**	417.0	58/58	0.6	423.4	60/61
20	384.9	47/44	3.0	399.8	51/49	2.4	**411.7**	**56/55**	**0.6**	418.0	58/58	0.6	424.3	60/61
18	385.9	47/45	3.0	400.8	51/49	2.4	**412.7**	**56/55**	**0.6**	419.0	58/58	0.6	425.3	60/61
16	386.9	47/45	3.0	401.7	51/50	2.4	**413.7**	**56/55**	**0.6**	420.0	59/58	0.6	425.5	61/62
14	388.5	47/45	2.8	402.7	51/50	2.4	**414.6**	**57/56**	**0.6**	420.9	59/59	0.5	425.5	61/62
12	390.1	47/45	2.7	403.7	52/50	2.4	**415.6**	**57/56**	**0.6**	421.9	59/59	0.4	425.5	62/62
10	391.7	48/45	2.6	404.7	52/50	2.4	**416.6**	**57/56**	**0.6**	422.9	59/59	0.3	425.6	62/63
8	393.3	48/45	2.5	405.7	52/51	2.4	**417.7**	**57/57**	**0.6**	423.9	60/60	0.2	425.6	63/63
6	395.0	48/46	2.3	406.7	53/51	2.4	**418.7**	**58/57**	**0.6**	425.0	60/60	0.1	425.6	63/64
4	396.4	48/46	2.3	407.7	53/51	2.4	**419.8**	**58/57**	**0.6**	425.6	60/60	0.0	425.6	64/64
2	397.4	48/46	2.3	408.8	53/52	2.4	**420.8**	**58/57**	**0.5**	425.6	61/61	0.0	425.6	64/65
0	398.2	50/46	2.3	409.5	55/52	2.4	**421.6**	**60/58**	**0.4**	425.6	63/61	0.0	425.6	66/65

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 14R - Rwy14R.

Initial Turn - The early turn onto track 130M reqd on selected SIDs at the departure end of RWY 14R (BRA 1d) is approved consistent with safe operation of the aircraft.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MADRID**

A/D Elev **1999ft** **BARAJAS A. SUAREZ (LEMD)**

F/L(TWY Z1/2/3) RWY 36L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.109% UP
TOR	4179m (13710ft)	**ED**	4179m (13710ft)	**TOD**	4609m (15121ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	270.5	41/31	0.6	273.7	44/37	0.4	**275.9**	**45/43**	**0.1**	276.7	45/45	0.1	277.3	45/45
66	285.9	40/31	0.6	289.1	45/37	0.6	**292.0**	**49/43**	**0.1**	292.8	49/46	0.1	293.3	49/49
62	301.0	41/33	0.7	304.3	47/39	0.7	**307.7**	**53/45**	**0.1**	308.5	54/48	0.0	308.6	54/52
58	314.7	41/35	0.7	318.2	46/41	0.7	**321.8**	**52/47**	**0.1**	323.0	55/50	0.0	323.1	57/54
54	324.4	42/37	1.3	331.0	48/43	0.8	**334.8**	**54/49**	**0.2**	336.4	56/52	0.0	336.7	60/56
52	328.3	42/36	1.7	337.0	47/41	0.8	**340.8**	**53/48**	**0.2**	342.6	56/51	0.0	343.0	59/54
50	332.6	43/37	2.0	342.6	48/42	0.9	**346.9**	**54/48**	**0.2**	348.8	56/51	0.1	349.4	60/55
48	336.8	44/38	2.0	346.9	49/43	1.2	**352.9**	**54/49**	**0.2**	354.9	57/52	0.1	355.5	60/56
46	340.9	45/39	2.1	351.2	49/44	1.5	**358.9**	**55/50**	**0.2**	361.0	58/53	0.1	361.7	61/56
44	344.8	44/39	2.1	355.3	49/45	2.0	**365.1**	**54/50**	**0.2**	367.2	57/53	0.1	367.8	60/57
42	349.0	45/40	2.1	359.7	50/45	2.3	**371.3**	**55/51**	**0.2**	373.5	57/54	0.0	373.8	60/58
40	353.2	46/41	2.2	364.3	51/46	2.5	**376.6**	**55/52**	**0.3**	379.8	58/55	0.0	379.8	61/58
38	357.6	47/42	2.3	369.0	51/47	2.5	**381.5**	**56/52**	**0.5**	386.2	59/55	0.0	386.2	62/59
36	362.2	46/43	2.3	373.8	50/48	2.6	**386.6**	**55/53**	**0.6**	392.4	57/56	0.0	392.6	60/60
34	366.5	46/43	2.4	378.4	51/49	3.2	**394.2**	**55/53**	**0.4**	398.0	58/56	0.1	398.7	61/60
32	370.7	47/44	2.4	382.8	52/49	3.3	**399.2**	**56/54**	**0.5**	404.1	58/57	0.1	404.9	61/61
30	375.4	48/45	2.5	388.1	52/50	3.2	**403.9**	**57/55**	**0.6**	410.1	59/58	0.1	410.9	62/61
28	379.0	47/45	3.0	394.2	51/50	2.6	**407.4**	**56/55**	**0.6**	413.8	58/58	0.2	416.1	61/62
26	382.3	48/46	3.2	398.2	52/51	2.5	**410.7**	**56/56**	**0.7**	417.2	58/59	0.4	420.7	61/62
24	385.7	48/47	3.2	401.5	52/51	2.5	**414.1**	**57/57**	**0.7**	420.6	59/59	0.5	425.4	61/63
22	386.8	48/47	3.1	402.5	52/51	2.5	**415.1**	**57/57**	**0.7**	421.6	59/60	0.4	425.4	62/63
20	388.5	49/47	3.0	403.6	53/52	2.5	**416.2**	**57/57**	**0.7**	422.7	60/60	0.3	425.5	62/63
18	390.3	49/47	2.9	404.6	53/52	2.5	**417.2**	**58/57**	**0.7**	423.8	60/60	0.2	425.5	63/64
16	392.1	49/47	2.7	405.7	53/52	2.5	**418.3**	**58/58**	**0.6**	424.5	60/61	0.1	425.5	63/64
14	394.0	49/47	2.5	406.7	53/53	2.6	**419.5**	**58/58**	**0.5**	424.6	61/61	0.1	425.5	64/65
12	395.9	49/47	2.4	407.8	54/53	2.6	**420.6**	**59/58**	**0.4**	424.6	61/61	0.1	425.5	64/65
10	397.0	49/48	2.4	408.9	54/53	2.5	**421.6**	**59/59**	**0.3**	424.7	62/62	0.1	425.6	65/66
8	398.1	50/48	2.4	410.1	54/53	2.4	**422.3**	**59/59**	**0.2**	424.7	62/62	0.1	425.6	65/66
6	399.2	50/48	2.4	411.2	55/54	2.2	**422.3**	**60/59**	**0.3**	424.8	63/63	0.1	425.6	66/66
4	400.3	50/48	2.4	412.3	55/54	2.0	**422.4**	**60/60**	**0.2**	424.8	63/63	0.1	425.6	66/67
2	401.4	50/49	2.4	413.4	55/54	1.8	**422.4**	**61/60**	**0.3**	424.9	64/64	0.1	425.6	67/67
0	402.2	52/49	2.4	414.3	57/54	1.6	**422.5**	**63/61**	**0.2**	424.9	66/64	0.1	425.6	69/68

P/C above 1013 + 0.2
P/C below 1013 - 0.8

PERFORMANCE RESTRICTIONS - See following page

Min Acceleration Height 2700ft

PERFORMANCE RESTRICTIONS - Rwy 36L - Rwy 36L.

EMERGENCY TURN PROCEDURES.

BARDI CCS SIE VTB1X VTB1K ZMR1K and ZMR1T SIDs. Engine failure BEFORE BRA 10d on SID trk - Follow SID to BRA 10d. Turn LEFT to GE. Remain within BRA 14d arc until established inbound to GE. Engine failure AFTER BRA 10d on SID trk - No restrictions provided that SIDs followed to MSA.

ZMR1L/ZMR1X SIDs. Engine failure BEFORE BRA 10d on SID trk - Follow SID to BRA 10d. Turn LEFT to GE. Remain within BRA 14d arc until established inbound to GE. Engine failure AFTER BRA 10d and BEFORE BRA 17d on SID trk - Turn RIGHT onto trk 140M. Intercept trk 180M to ASBIN for hold and return. Engine failure AFTER BRA 17d - No restrictions provided that SIDs followed to MSA.

NANDO PINAR RBO VTB1L VTB1T VTB1N SIDs and Contingency Departure. No restrictions provided that SIDs or departure followed to MSA.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MADRID**

A/D Elev **1999ft** **BARAJAS A. SUAREZ (LEMD)**

F/L (TWY Y1) RWY 36R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.2% DN
TOR	3500m (11482ft)	**ED**	3500m (11482ft)	**TOD**	3800m (12467ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	262.4	30/20	1.3	269.1	36/25	1.0	**274.0**	**42/31**	**0.1**	274.8	44/35	0.1	275.5	44/38
66	272.2	31/21	1.6	280.0	36/26	1.4	**287.0**	**41/32**	**0.4**	290.8	43/35	0.1	291.6	46/38
62	283.3	33/23	1.7	291.6	38/29	1.6	**299.4**	**43/34**	**0.4**	303.5	46/37	0.4	307.2	48/40
58	293.2	33/25	1.7	301.7	38/31	1.8	**310.5**	**43/36**	**0.5**	315.1	45/39	0.4	319.5	48/43
54	302.1	35/27	1.8	311.3	40/33	1.8	**320.5**	**45/38**	**0.5**	325.2	47/41	0.5	330.1	50/44
52	305.6	35/26	1.9	315.3	40/32	1.9	**324.7**	**45/37**	**0.5**	329.6	47/40	0.5	334.4	49/44
50	309.9	36/27	2.0	319.7	41/33	1.9	**329.4**	**46/38**	**0.5**	334.2	48/41	0.5	339.2	50/44
48	314.0	37/28	2.0	323.9	42/33	2.0	**333.8**	**47/39**	**0.5**	338.8	49/42	0.5	343.8	51/45
46	318.1	37/29	2.0	328.2	42/34	2.0	**338.2**	**47/40**	**0.5**	343.2	50/43	0.5	348.3	52/46
44	321.6	37/29	2.1	331.9	42/35	2.1	**342.4**	**47/41**	**0.5**	347.5	49/44	0.5	352.8	51/47
42	325.6	38/30	2.1	336.0	42/36	2.1	**346.7**	**47/41**	**0.5**	352.1	50/44	0.5	357.5	52/48
40	329.8	38/31	2.1	340.2	43/36	2.2	**351.1**	**48/42**	**0.6**	356.7	51/45	0.6	362.2	53/48
38	333.8	39/32	2.1	344.5	44/37	2.2	**355.6**	**49/43**	**0.6**	361.5	51/46	0.6	367.3	54/49
36	337.7	38/32	2.2	348.8	43/38	2.3	**360.2**	**48/44**	**0.6**	366.3	50/47	0.6	372.4	52/50
34	341.7	39/33	2.2	352.8	44/39	2.4	**364.6**	**49/45**	**0.6**	370.9	51/48	0.7	377.4	53/51
32	345.3	40/34	2.3	356.7	44/39	2.4	**368.9**	**49/45**	**0.6**	375.2	52/48	0.7	381.8	54/51
30	349.5	40/35	2.3	361.1	45/40	2.5	**373.6**	**50/46**	**0.7**	380.1	52/49	0.7	386.7	55/52
28	352.5	39/35	2.4	364.3	44/41	2.6	**377.1**	**49/47**	**0.7**	383.7	52/50	0.9	392.2	53/52
26	355.4	40/36	2.4	367.5	45/41	2.6	**380.6**	**50/47**	**0.7**	387.2	52/50	1.0	396.9	54/53
24	358.5	41/36	2.5	370.8	46/42	2.6	**384.0**	**50/48**	**0.9**	392.7	52/50	0.8	400.4	54/53
22	359.5	41/37	2.5	371.8	46/42	2.6	**384.9**	**51/48**	**0.9**	394.2	53/51	0.7	401.2	55/54
20	360.4	41/37	2.5	372.8	46/42	2.6	**385.9**	**51/48**	**1.0**	395.7	53/51	0.6	402.0	55/54
18	361.4	41/37	2.5	373.9	46/43	2.6	**387.0**	**51/49**	**1.0**	396.8	53/51	0.6	402.9	55/54
16	362.4	42/37	2.5	374.9	47/43	2.7	**388.5**	**51/49**	**0.9**	397.7	53/51	0.6	403.7	55/54
14	363.4	42/38	2.5	376.0	47/43	2.8	**390.1**	**52/49**	**0.9**	398.6	53/51	0.6	404.5	56/55
12	364.4	42/38	2.5	377.1	47/43	2.9	**391.7**	**52/49**	**0.8**	399.4	54/52	0.6	405.4	56/55
10	365.5	42/38	2.5	378.1	47/44	3.0	**393.3**	**52/49**	**0.7**	400.3	54/52	0.6	406.3	56/55
8	366.5	43/38	2.5	379.2	48/44	3.1	**394.9**	**52/49**	**0.6**	401.2	54/52	0.6	407.2	57/56
6	367.6	43/39	2.5	380.2	48/44	3.2	**396.2**	**52/50**	**0.6**	402.0	55/53	0.6	408.0	57/56
4	368.7	43/39	2.5	381.3	48/45	3.2	**397.1**	**53/50**	**0.6**	402.9	55/53	0.6	408.9	57/56
2	369.8	43/39	2.5	382.3	48/45	3.1	**397.9**	**53/50**	**0.6**	403.8	55/53	0.6	409.8	58/57
0	370.7	45/39	2.5	383.2	50/45	3.1	**398.7**	**55/50**	**0.6**	404.6	57/54	0.6	410.7	60/57

P/C above 1013 + 0.2
P/C below 1013 - 0.7

Min Acceleration Height 2800ft

PERFORMANCE RESTRICTIONS - Rwy 36R - Rwy 36R. Initial Turn - The early turn onto track 017M required on selected SIDs at the departure end of RWY 36R (BRA 4d) is approved consistent with safe operation of the aircraft.

EMERGENCY TURN PROCEDURES.

BARDI CCS SIE and ZMR SIDs. Engine failure BEFORE BRA 10d on SID trk - Follow SID to BRA 10d. Turn RIGHT onto trk 140M. Intercept trk 180M to ASBIN for hold and return. Engine failure AFTER BRA 10d on SID trk - No restrictions provided that SIDs followed to MSA.

NANDO PINAR RBO and VTB SIDs. No restrictions provided that SIDs followed to MSA.

BRITISH AIRWAYS **B747-400** LANDING DATA **PALMA (LEPA)**

A/D Elev **27ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	06L	06R	24L	24R
Landing Distance Available	3270m / 10728ft	2590m / 8497ft	3000m / 9843ft	3200m / 10499ft
Notes	Note 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	12kt (5kt)	284.0 (266.0)	8kt (1kt)	11kt (5kt)
25F Zero HW wt or TW (Autoland)			8kt (1kt)	
25F Slippery Zero HW wt or TW (Manual)	270.0	212.0	247.0	267.0
25F Slippery Zero HW wt or TW (Autoland)			247.0	
30F Zero HW wt or TW (Manual)	12kt (5kt)	280.8 (280.8)	8kt (1kt)	11kt (5kt)
30F Zero HW wt or TW (Autoland)			8kt (1kt)	
30F Slippery Zero HW wt or TW (Manual)	280.8	235.0	273.0	280.8
30F Slippery Zero HW wt or TW (Autoland)			273.0	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. MACG Rwy 06L: 3% Minima can be used up to 54°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **TERUEL**

A/D Elev **3567ft** Max wt Permitted (For pre flt planning) **285,760kg** **(LETL)**

RUNWAY	18	36		
Landing Distance Available	2539m / 8329ft	2539m / 8329ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	46°	46°		
25F Zero HW wt or TW (Manual)	249.0 (225.0)	249.0 (225.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	NOT AUTH		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	265.0 (241.0)	265.0 (241.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	203.0	203.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Airfield approved for disposal flights only with the authorisation of the 747 Flight Manager Technical.

NICE

COTE D AZUR **(LFMN)**

NICE/COTE D AZUR and runways 04L, 04R, 22L, 22R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **PARIS**

A/D Elev **392ft** Max wt Permitted (For pre flt planning) **285,760kg** **C.D.G (LFPG)**

RUNWAY	08L	08R	09L	09R
Landing Distance Available	4142m/13589ft	2700m/8858ft	2700m/11811ft	4200m/13779ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°	53°/53°	53°/53°
25F Zero HW wt or TW (Manual)	15kt	2kt (271.0)	2kt (271.0)	15kt
25F Zero HW wt or TW (Autoland)	15kt		2kt (271.0)	15kt
25F Slippery Zero HW wt or TW (Manual)	1kt	223.0	223.0	1kt
25F Slippery Zero HW wt or TW (Autoland)	1kt		223.0	1kt
30F Zero HW wt or TW (Manual)	15kt	2kt (1kt)	2kt (280.8)	15kt
30F Zero HW wt or TW (Autoland)	15kt		2kt (280.8)	15kt
30F Slippery Zero HW wt or TW (Manual)	1kt	245.0	245.0	1kt
30F Slippery Zero HW wt or TW (Autoland)	1kt		245.0	1kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **PARIS**

A/D Elev **392ft** Max wt Permitted (For pre flt planning) **285,760kg** **C.D.G (LFPG)**

RUNWAY	26L	26R	27L	27R
Landing Distance Available	2700m/8858ft	3616m / 11864ft	3600m/11811ft	2700m/8858ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°/53°	53°/53°
25F Zero HW wt or TW (Manual)	2kt (271.0)	15kt (12kt)	15kt (12kt)	2kt (271.0)
25F Zero HW wt or TW (Autoland)	2kt (271.0)	15kt (12kt)	15kt (12kt)	2kt (271.0)
25F Slippery Zero HW wt or TW (Manual)	223.0	1kt	1kt	223.0
25F Slippery Zero HW wt or TW (Autoland)	223.0	1kt	1kt	223.0
30F Zero HW wt or TW (Manual)	2kt (280.8)	15kt (12kt)	15kt (12kt)	2kt (280.8)
30F Zero HW wt or TW (Autoland)	2kt (280.8)	15kt (12kt)	15kt (12kt)	2kt (280.8)
30F Slippery Zero HW wt or TW (Manual)	280.8	1kt	1kt	245.0
30F Slippery Zero HW wt or TW (Autoland)	280.8	1kt	1kt	245.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg			750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **ATHENS**

A/D Elev **308ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **E. VENIZELOS (LGAV)**

RUNWAY	03L	03R	21L	21R
Landing Distance Available	3500m / 11483ft	3700m / 12139ft	3700m / 12139ft	3500m / 11483ft
Slope	.23UP	.25UP	.25DN	.23DN
Notes	Note 1	Notes 1,2	Note 1	Notes 1,2
WAT LIMIT °C : Man / Auto	53°/53°	53°	53°/53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (13kt)	15kt (13kt)	15kt (10kt)
25F Zero HW wt or TW (Autoland)	15kt (10kt)		15kt (13kt)	15kt (10kt)
25F Slippery Zero HW wt or TW (Manual)	0kt	2kt	2kt	0kt
25F Slippery Zero HW wt or TW (Autoland)	0kt		2kt	0kt
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (13kt)	15kt (13kt)	15kt (10kt)
30F Zero HW wt or TW (Autoland)	15kt (10kt)		15kt (13kt)	15kt (10kt)
30F Slippery Zero HW wt or TW (Manual)	0kt	2kt	2kt	0kt
30F Slippery Zero HW wt or TW (Autoland)	0kt		2kt	0kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **CAUTION**: The airfield is surrounded by mountainous terrain, Circling is NOT AUTHORISED, strictly adhere to missed approach procedures.
2. **MACG and Minima**: Rwy 03R/21R WAT Limit ensures that required missed approach climb gradient can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **RHODES**

A/D Elev **19ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **DIAGORAS (LGRP)**

RUNWAY	07	25		
Landing Distance Available	3305m / 10845ft	3305m / 10845ft		
Slope	NIL	NIL		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **LOCAL WIND EFFECTS:** See airfield plates for info.

BRITISH AIRWAYS **B747-400** LANDING DATA **BUDAPEST**

A/D Elev **496ft** Max wt Permitted (For pre flt planning) **285,760kg** **LISZT FERENC INTL (LHBP)**

RUNWAY	13L	13R	31L	31R
Landing Distance Available	3707m / 12162ft	3010m / 9875ft	3010m / 9875ft	3707m / 12162ft
Notes	Note 1	Note 1	Note 2	Note 3
WAT LIMIT °C : Man / Auto	52°/52°	52°/52°	52°/52°	52°/52°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (13kt)	7kt (1kt)	7kt (1kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)	15kt (13kt)	7kt (1kt)	7kt (1kt)	15kt (13kt)
25F Slippery Zero HW wt or TW (Manual)	2kt	244.0	244.0	2kt
25F Slippery Zero HW wt or TW (Autoland)	2kt	244.0	244.0	2kt
30F Zero HW wt or TW (Manual)	15kt (13kt)	7kt (1kt)	7kt (1kt)	15kt (13kt)
30F Zero HW wt or TW (Autoland)	15kt (13kt)	7kt (1kt)	7kt (1kt)	15kt (13kt)
30F Slippery Zero HW wt or TW (Manual)	2kt	270.0	270.0	2kt
30F Slippery Zero HW wt or TW (Autoland)	2kt	270.0	270.0	2kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. MACG Rwy 13L & 13R: 4.0% Minima can be used up to 53°C OAT and up to 285760kg.
2. MACG Rwy 31L: 5.9% Minima can be used up to 53°C OAT and up to 285760kg.
3. MACG Rwy 31R: 3.7% Minima can be used up to 53°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **ROME**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **FIUMICINO (LIRF)**

RUNWAY	07	16L	16C	16R
Landing Distance Available	2890m / 9482ft	3900m / 12795ft	3000m/9843ft	3900m / 12795ft
Notes	Note 1	Notes 1,2	Notes 1,2	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	6kt (280.0)	15kt	8kt (2kt)	15kt
25F Zero HW wt or TW (Autoland)		15kt		15kt
25F Slippery Zero HW wt or TW (Manual)	238.0	5kt	247.0	5kt
25F Slippery Zero HW wt or TW (Autoland)		5kt		5kt
30F Zero HW wt or TW (Manual)	6kt (280.8)	15kt	8kt (2kt)	15kt
30F Zero HW wt or TW (Autoland)		15kt		15kt
30F Slippery Zero HW wt or TW (Manual)	264.0	5kt	273.0	5kt
30F Slippery Zero HW wt or TW (Autoland)		5kt		5kt
Red'n per extra kt TW kg	5300kg		5300kg	
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH EAST clockwise through EAST of airfield.
2. MACG Rwy 16L/16C: 4.3% Minima can be used up to 54°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **ROME**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **FIUMICINO (LIRF)**

RUNWAY	25	34L	34C	34R
Landing Distance Available	3307m / 10849ft	3902m / 12802ft	3000m/9843ft	3900m / 12795ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	13kt (7kt)	15kt (5kt)	8kt (2kt)	15kt
25F Zero HW wt or TW (Autoland)	13kt (7kt)	15kt (5kt)		15kt
25F Slippery Zero HW wt or TW (Manual)	273.0	5kt	247.0	5kt
25F Slippery Zero HW wt or TW (Autoland)	273.0	5kt		5kt
30F Zero HW wt or TW (Manual)	13kt (7kt)	15kt (5kt)	8kt (2kt)	15kt
30F Zero HW wt or TW (Autoland)	13kt (7kt)	15kt (5kt)		15kt
30F Slippery Zero HW wt or TW (Manual)	280.8	5kt	273.0	5kt
30F Slippery Zero HW wt or TW (Autoland)	280.8	5kt		5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH EAST clockwise through EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **PRAGUE**

A/D Elev **1247ft** Max wt Permitted (For pre flt planning) **285,760kg** **(LKPR)**

RUNWAY	06	12	24	30
Landing Distance Available	3715m/12188ft	3250m / 10663ft	3715m / 12188ft	3250m / 10663ft
Notes		Note 1		Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	52°	52°	52°	52°
25F Zero HW wt or TW (Manual)	15kt (14kt)	12kt (6kt)	15kt (14kt)	12kt (6kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	261.0	1kt	261.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (14kt)	12kt (6kt)	15kt (14kt)	12kt (6kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	280.8	1kt	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway Surface:** Rwy 12/30 liable to have degraded braking action when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **TEL AVIV**

A/D Elev **134ft** Max wt Permitted (For pre flt planning) **285,760kg** **BEN GURION INTL (LLBG)**

RUNWAY (STATUS)	**08**	**12**	**21**	**26**
Landing Distance Available	3195m / 10482ft	3112m / 10210ft	NOT APPROVED	3458m / 11345ft
Notes	Note 1	Note 1	Note 2	
WAT LIMIT °C : Man / Auto	54°	54°		54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		15kt (10kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	256.0	256.0		0kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (9kt)	14kt (9kt)		15kt (10kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	278.7	278.7		0kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		5300kg
Inc per kt HW kg		750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG:** 4%, 4.5% & 5.8% MACG can be used up to 54°C and up to 285760kg.
2. **Rwy 21:** Landing not approved for 4 engine aircraft.

BRITISH AIRWAYS **B747-400** LANDING DATA **TEL AVIV**

A/D Elev **134ft** Max wt Permitted (For pre flt planning) **285,760kg** **BEN GURION INTL (LLBG)**

RUNWAY (STATUS)	**30**			
Landing Distance Available	3037m / 9964ft			
Notes				
WAT LIMIT °C : Man / Auto	54°			
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)			
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	256.0			
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (9kt)			
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	278.7			
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg			
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

AIRWAYS **B747-400** LANDING DATA **VIENNA**

A/D Elev **600ft** Max wt Permitted (For pre flt planning) **285,760kg** **(LOWW)**

RUNWAY	**11**	**16**	**29**	**34**
Landing Distance Available	3500m / 11483ft	3600m / 11811ft	3500m / 11483ft	3600m / 11810ft
Notes	Note 2	Notes 1,2	Note 2	Note 2
WAT LIMIT °C : Man / Auto	53°	53°	53°	53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (11kt)	15kt (9kt)	15kt (11kt)
25F Zero HW wt or TW (Autoland)		15kt (11kt)		
25F Slippery Zero HW wt or TW (Manual)	0kt	1kt	0kt	1kt
25F Slippery Zero HW wt or TW (Autoland)		1kt		
30F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (11kt)	15kt (9kt)	15kt (11kt)
30F Zero HW wt or TW (Autoland)		15kt (11kt)		
30F Slippery Zero HW wt or TW (Manual)	0kt	1kt	0kt	1kt
30F Slippery Zero HW wt or TW (Autoland)		1kt		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Final Approach Terrain Profile Rwy 16 :** The nature of terrain on the approach to Rwy 16 causes the radio altimeter to indicate a change in height from 400ft to 250ft for a short time (6-8 seconds).
2. **WARNING:** Terrain located to the SOUTH WEST of the airfield.

SANTA MARIA

(LPAZ)

SANTA MARIA and runways 18, 36 authorised for enroute diversion.

Use QRH data to calculate landing performance.

LAJES AB

(LPLA)

LAJES AB and runways 15, 33 authorised for enroute diversion.

Use QRH data to calculate landing performance.

LISBON
(LPPT)

LISBON and runways 03, 17, 21, 35 authorised for enroute diversion.

Use QRH data to calculate landing performance.

ANKARA

ESENBOGA INTL **(LTAC)**

ANKARA/ESENBOGA INTL and runways 03L, 03R, 21L, 21R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **ISTANBUL**

A/D Elev **163ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **ATATURK (LTBA)**

RUNWAY	05	17L	17R	23
Landing Distance Available	2450m / 8038ft	3000m / 9843ft	3000m / 9843ft	2580m / 8464ft
Slope	.04DN	.57DN	.62 DN	.04UP
Notes	Notes 1,2,4			Notes 3
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	272.0 (250.0)	8kt (2kt)	8kt (2kt)	284.0 (266.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	202.0	246.0	246.0	215.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	2kt (267.0)	8kt (2kt)	8kt (2kt)	284.0 (280.8)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	222.0	272.0	272.0	238.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Runway surface** : Rwy 05/23 is liable to have degraded braking action when wet.
2. **Rwy 05 Terrain Warning** – Due to sloping terrain in the approach area, the rate of radio altimeter reduction between 1000m and 200m prior to the threshold will be approximately double the normal rate.
3. **Breaking Action:** Rwy 23 is liable to have degraded braking action when wet.
4. **MACG and Minima:** Rwy 05 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **ISTANBUL**

A/D Elev **163ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **ATATURK (LTBA)**

RUNWAY	**35L**	**35R**		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Slope	.88 UP	.57UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54° / 54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)		8kt (2kt)		
25F Slippery Zero HW wt or TW (Manual)	246.0	246.0		
25F Slippery Zero HW wt or TW (Autoland)		246.0		
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)		8kt (2kt)		
30F Slippery Zero HW wt or TW (Manual)	272.0	272.0		
30F Slippery Zero HW wt or TW (Autoland)		272.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SANLIURFA**

A/D Elev **2708ft** **GAP INTERNATIONAL (LTCS)**

F/L (BACKTRACK) RWY 04

DAY CLG **DAY VIS** **PVD**
NIGHT CLG **NIGHT VIS** **SLOPE** 0.236% UP
TOR 4000m (13123ft) **ED** 4060m (13320ft) **TOD** 4000m (13123ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66	279.7	39/29	1.7	288.4	44/34	0.9	**293.0**	**50/40**	**0.0**	293.0	50/44	0.0	293.0	50/47
62	289.8	39/31	1.8	298.9	44/36	1.7	**307.5**	**49/41**	**0.0**	307.9	52/45	0.0	307.9	54/48
58	299.7	42/33	1.9	309.0	46/38	1.8	**317.9**	**51/44**	**0.4**	322.1	53/47	0.0	322.1	57/50
54	307.0	41/35	2.0	316.9	46/40	2.0	**327.1**	**51/46**	**0.6**	332.7	53/48	0.3	335.2	55/52
52	310.9	42/34	2.0	321.0	47/39	2.1	**331.3**	**52/45**	**0.6**	336.8	54/47	0.5	341.3	56/50
50	315.0	43/35	2.0	325.2	48/40	2.1	**335.5**	**52/46**	**0.6**	341.1	55/48	0.6	347.1	56/51
48	318.3	43/35	2.1	328.7	47/41	2.2	**339.5**	**52/46**	**0.6**	345.1	54/49	0.6	351.2	56/52
46	322.2	44/36	2.1	332.7	48/42	2.2	**343.5**	**53/47**	**0.6**	349.3	55/50	0.6	355.4	57/53
44	326.3	45/37	2.1	336.7	49/43	2.2	**347.7**	**54/48**	**0.6**	353.5	56/51	0.6	359.9	58/54
42	330.4	46/38	2.1	340.8	50/43	2.2	**351.9**	**55/49**	**0.6**	357.8	57/52	0.7	364.3	59/55
40	334.0	45/39	2.2	344.8	50/44	2.3	**356.3**	**54/50**	**0.6**	362.4	57/53	0.7	369.0	59/56
38	337.9	46/40	2.2	348.8	50/45	2.3	**360.5**	**55/51**	**0.6**	366.7	57/53	0.7	373.5	59/56
36	342.0	47/40	2.2	353.0	51/46	2.4	**365.0**	**56/51**	**0.6**	371.3	58/54	0.7	378.3	60/57
34	345.8	47/41	2.2	357.0	52/47	2.5	**369.3**	**57/52**	**0.7**	375.8	59/55	0.7	382.8	61/58
32	349.4	46/42	2.3	360.9	51/47	2.5	**373.4**	**56/53**	**0.7**	380.1	58/56	0.7	386.9	60/59
30	353.5	47/43	2.3	365.2	51/48	2.6	**378.0**	**56/54**	**0.7**	384.6	58/57	1.0	394.8	60/59
28	356.4	47/43	2.4	368.3	52/49	2.6	**381.3**	**57/54**	**0.7**	388.5	59/57	1.0	398.5	60/59
26	359.4	48/44	2.4	371.5	53/49	2.6	**384.5**	**58/55**	**1.0**	394.1	59/57	0.8	401.6	61/60
24	362.4	49/44	2.5	374.7	53/50	2.7	**388.3**	**58/55**	**1.0**	398.1	59/58	0.7	404.8	61/61
22	364.9	48/45	2.5	377.3	52/50	3.1	**392.8**	**57/56**	**0.8**	400.6	58/58	0.7	407.3	61/61
20	365.9	48/45	2.5	378.4	53/51	3.2	**394.6**	**57/56**	**0.7**	401.6	59/58	0.7	408.4	61/61
18	366.9	48/45	2.5	379.5	53/51	3.3	**396.2**	**57/56**	**0.7**	402.7	59/59	0.7	409.5	61/62
16	368.0	48/46	2.5	380.5	53/51	3.4	**397.3**	**57/56**	**0.6**	403.7	59/59	0.7	410.5	61/62
14	368.9	50/46	2.5	381.6	55/51	3.3	**398.3**	**59/56**	**0.6**	404.7	61/59	0.7	411.6	63/62
12	370.0	51/46	2.5	382.6	55/52	3.4	**399.4**	**59/57**	**0.6**	405.8	61/59	0.7	412.7	63/62
10	371.0	51/46	2.5	383.7	55/52	3.3	**400.4**	**59/57**	**0.7**	406.9	62/60	0.7	413.8	64/63
8	372.1	51/47	2.5	384.8	56/52	3.3	**401.5**	**60/57**	**0.7**	408.0	62/60	0.7	414.9	64/63
6	373.2	51/47	2.5	385.9	56/52	3.3	**402.6**	**60/57**	**0.7**	409.1	62/60	0.7	416.0	64/63
4	374.3	52/47	2.6	387.1	56/53	3.3	**403.7**	**60/58**	**0.7**	410.3	62/61	0.7	417.1	65/64
2	375.4	52/47	2.7	389.0	56/53	3.2	**404.8**	**61/58**	**0.7**	411.4	63/61	0.7	418.3	65/64
0	376.6	52/48	2.9	391.0	56/53	3.0	**405.9**	**61/58**	**0.7**	412.5	63/61	0.7	419.5	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **SANLIURFA**

A/D Elev **2708ft** **GAP INTERNATIONAL (LTCS)**

F/L (BACKTRACK) RWY 22

DAY CLG		**DAY VIS**		**PVD**	
NIGHT CLG		**NIGHT VIS**		**SLOPE**	0.236% DN
TOR	4000m (13123ft)	**ED**	4060m (13320ft)	**TOD**	4000m (13123ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66	283.3	39/29	1.8	292.1	44/34	0.2	**293.0**	**50/41**	**0.0**	293.0	50/45	0.0	293.0	50/48
62	293.4	40/31	1.9	302.7	44/36	1.0	**307.9**	**50/42**	**0.0**	307.9	53/46	0.0	307.9	54/49
58	303.3	42/33	1.9	312.9	46/38	1.8	**321.9**	**51/44**	**0.0**	322.1	55/47	0.0	322.1	58/51
54	310.8	42/35	2.0	320.8	46/41	2.1	**331.2**	**51/46**	**0.4**	335.2	53/49	0.0	335.2	56/53
52	314.7	43/34	2.0	324.9	47/40	2.1	**335.3**	**52/45**	**0.6**	340.9	54/48	0.0	341.3	57/51
50	319.0	43/35	2.1	329.3	48/40	2.1	**339.6**	**53/46**	**0.6**	345.2	55/49	0.2	347.5	57/52
48	322.3	43/36	2.1	332.6	48/41	2.2	**343.5**	**52/47**	**0.6**	349.2	55/49	0.4	353.5	57/52
46	326.3	44/37	2.1	336.7	49/42	2.2	**347.6**	**53/48**	**0.6**	353.4	56/50	0.6	359.5	58/53
44	330.4	45/38	2.1	340.8	49/43	2.2	**351.9**	**54/48**	**0.6**	357.8	56/51	0.6	364.0	59/54
42	334.4	46/38	2.1	344.8	50/44	2.3	**356.1**	**55/49**	**0.6**	362.2	57/52	0.6	368.6	59/55
40	338.2	45/39	2.2	349.0	50/45	2.3	**360.6**	**55/50**	**0.6**	366.9	57/53	0.7	373.5	59/56
38	342.1	46/40	2.2	353.1	51/45	2.4	**364.9**	**55/51**	**0.7**	371.4	58/54	0.7	378.1	60/57
36	346.2	47/41	2.2	357.4	51/46	2.4	**369.5**	**56/52**	**0.7**	376.1	58/55	0.7	382.9	60/57
34	350.1	48/42	2.3	361.5	52/47	2.5	**373.9**	**57/53**	**0.7**	380.6	59/55	0.7	387.7	61/58
32	353.8	46/42	2.3	365.4	51/48	2.5	**378.1**	**56/53**	**0.7**	384.8	58/56	1.0	394.9	59/58
30	357.9	47/43	2.4	369.9	52/49	2.6	**382.7**	**57/54**	**0.8**	391.1	58/57	0.9	399.9	60/59
28	360.9	48/44	2.4	373.0	52/49	2.6	**386.0**	**57/55**	**1.0**	396.4	59/57	0.7	403.0	61/60
26	364.0	48/44	2.5	376.3	53/50	2.9	**390.9**	**57/55**	**0.9**	399.6	59/57	0.7	406.2	61/60
24	367.0	49/45	2.5	379.6	53/50	3.3	**396.2**	**58/55**	**0.7**	402.7	60/58	0.7	409.5	62/61
22	369.8	48/45	2.5	382.3	53/51	3.3	**398.8**	**57/56**	**0.7**	405.3	59/58	0.7	412.0	61/61
20	370.8	48/45	2.5	383.3	53/51	3.3	**399.8**	**57/56**	**0.7**	406.3	59/59	0.7	413.0	61/62
18	371.8	48/46	2.5	384.3	53/51	3.3	**400.8**	**57/56**	**0.7**	407.4	59/59	0.7	414.1	61/62
16	372.8	49/46	2.5	385.4	53/51	3.3	**401.9**	**57/56**	**0.7**	408.5	59/59	0.7	415.1	62/62
14	373.7	50/46	2.5	386.4	55/52	3.3	**402.9**	**59/57**	**0.7**	409.5	61/59	0.7	416.3	63/62
12	374.8	51/47	2.6	387.8	55/52	3.2	**403.9**	**59/57**	**0.7**	410.6	62/60	0.7	417.4	64/63
10	375.9	51/47	2.8	389.7	55/52	3.1	**405.0**	**60/57**	**0.7**	411.7	62/60	0.7	418.5	64/63
8	377.0	51/47	2.9	391.6	55/52	2.9	**406.1**	**60/57**	**0.7**	412.8	62/60	0.7	419.6	64/63
6	378.1	52/47	3.1	393.5	56/52	2.7	**407.2**	**60/58**	**0.7**	413.9	62/61	0.7	420.7	65/64
4	379.3	52/48	3.2	395.4	56/52	2.6	**408.4**	**60/58**	**0.7**	415.0	63/61	0.7	421.8	65/64
2	380.4	52/48	3.3	396.8	56/53	2.5	**409.5**	**61/58**	**0.7**	416.1	63/61	0.7	423.0	65/64
0	381.5	52/48	3.3	397.9	56/53	2.5	**410.6**	**61/59**	**0.7**	417.3	63/61	0.7	424.1	65/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400** LANDING DATA **KINGSTON (MKJP)**

A/D Elev **18ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**12**	**30**		
Landing Distance Available	2713m / 8900ft	2713m / 8900ft		
Slope	.02UP	.02DN		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (277.0)	2kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	225.0	225.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	2kt (280.0)	2kt (280.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	248.0	248.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MONTEGO BAY (MKJS)**

A/D Elev **4ft** Max wt Permitted (For pre flt planning) **280,000kg** Briefing Cat B

RUNWAY	07	25		
Landing Distance Available	2592m / 8504ft	2491m / 8173ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	283.0 (265.0)	276.0 (252.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	212.0	205.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	283.0 (280.8)	280.8 (273.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	235.0	228.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **GUADALAJARA**

A/D Elev **5016ft** Max wt Permitted (For pre flt planning) **285,760kg** **DON MIGUEL INTL (MMGL)**

RUNWAY (STATUS)	**10**	**28**		
Landing Distance Available	4005m / 13140ft	4005m / 13140ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	43°	43°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (11kt)	15kt (11kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (11kt)	15kt (11kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 10/28 Missed Approach:** Min Accel Alt is 8012ft QNH (3000ft HAA).

BRITISH AIRWAYS **B747-400** LANDING DATA **MERIDA**

A/D Elev **38ft** Max wt Permitted (For pre flt planning) **285,760kg** **L.M.C. REJON INTL (MMMD)**

RUNWAY	10	18	28	36
Landing Distance Available	2880m / 9515ft	2300m / 7546ft	3200m / 10500ft	2300m / 7546ft
Notes	Note 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	6kt (1kt)	256.5 (211.5)	12kt (6kt)	256.5 (211.5)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	238.0	NOT AUTH	267.0	NOT AUTH
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	6kt (1kt)	274.0 (246.0)	12kt (6kt)	274.0 (246.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	264.0	209.0	280.8	209.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **CAUTION**: Runway 10 ILS glideslope crossing height at the displaced threshold is 49ft.

BRITISH AIRWAYS **B747-400** LANDING DATA **MEXICO CITY (MMMX)**

A/D Elev **7316ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	05L	05R	23L	23R
Landing Distance Available	2972m / 9751ft	3530m / 11581ft	3825m / 12549ft	3082m / 10112ft
Notes	Notes 1,2	Notes 1,2	Notes 1,2,3	Notes 1,2
WAT LIMIT °C : Man / Auto	40°	40°	40°	40°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	271 (243)	5kt (283.0)	10kt (2kt)	278 (254)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	240.0	258.0	207.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	1kt (260)	10kt (3kt)	15kt (8kt)	2kt (270)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	222.0	264.0	0kt	230.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located SOUTH EAST and SOUTH WEST of airfield.
2. **CAUTION**: False Localiser captures have been reported. Exercise caution when approaching localiser, crosschecking against other navigation aids.
3. **ILS 23L**: Unreliable glideslope reported. Exercise caution during the approach. Crosscheck against other navigation aids to ensure correct descent profile.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B) RWY 05L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.018% UP
TOR	3457m (11341ft)	**ED**	3723m (12214ft)	**TOD**	3457m (11341ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	236.2	30/19	1.4	243.2	33/25	1.3	**249.9**	**36/30**	**0.4**	253.7	37/32	0.4	257.9	39/35
54	243.1	30/19	1.5	250.4	35/24	1.4	**257.3**	**38/29**	**0.4**	261.6	40/32	0.5	266.1	41/35
52	246.2	31/19	1.5	253.6	35/25	1.5	**261.0**	**39/30**	**0.4**	265.3	41/33	0.5	270.0	42/35
50	249.7	31/20	1.5	257.1	36/25	1.5	**264.7**	**40/31**	**0.5**	269.2	42/34	0.5	274.0	43/36
48	252.7	32/21	1.6	260.6	37/26	1.5	**268.3**	**41/31**	**0.5**	272.9	43/34	0.5	277.6	44/37
46	255.9	33/21	1.6	264.1	38/27	1.6	**272.1**	**42/32**	**0.5**	276.6	44/35	0.5	281.5	45/38
44	259.4	34/22	1.7	267.7	39/28	1.6	**275.7**	**43/33**	**0.5**	280.4	45/36	0.5	285.3	46/39
42	262.9	35/23	1.7	271.4	39/28	1.6	**279.5**	**44/34**	**0.5**	284.1	45/37	0.5	289.2	47/40
40	266.5	35/24	1.7	275.2	40/29	1.6	**283.3**	**45/35**	**0.5**	288.1	46/38	0.5	293.2	48/40
38	269.6	34/24	1.7	278.3	39/30	1.7	**286.6**	**44/35**	**0.5**	291.5	46/38	0.5	296.5	48/41
36	272.8	35/25	1.8	281.6	40/31	1.7	**290.0**	**45/36**	**0.5**	294.8	47/39	0.5	299.9	49/42
34	275.9	36/26	1.8	284.7	40/31	1.7	**293.2**	**46/37**	**0.5**	298.0	48/40	0.5	303.2	50/43
32	278.7	36/26	1.8	287.7	41/32	1.7	**296.2**	**46/37**	**0.5**	301.1	48/40	0.5	306.2	50/43
30	281.5	36/27	1.8	290.6	41/33	1.7	**299.0**	**46/38**	**0.5**	304.0	48/41	0.5	309.2	50/44
28	283.9	36/27	1.8	293.1	41/33	1.7	**301.6**	**46/39**	**0.5**	306.5	48/41	0.5	311.8	50/44
26	286.3	37/28	1.8	295.5	42/34	1.7	**304.1**	**47/39**	**0.5**	309.1	49/42	0.5	314.4	51/45
24	288.8	37/28	1.8	298.0	42/34	1.7	**306.6**	**47/40**	**0.5**	311.7	50/43	0.5	317.0	52/46
22	291.2	38/29	1.8	300.4	43/35	1.7	**309.1**	**48/40**	**0.5**	314.2	50/43	0.5	319.5	52/46
20	293.5	39/29	1.9	302.8	43/35	1.7	**311.5**	**49/41**	**0.5**	316.6	51/44	0.6	322.1	53/47
18	295.8	39/30	1.9	305.1	44/36	1.8	**313.9**	**49/41**	**0.5**	319.1	51/44	0.6	324.6	53/47
16	297.8	39/30	1.9	307.2	44/36	1.8	**316.1**	**50/42**	**0.5**	321.3	52/45	0.6	326.8	54/48
14	299.9	38/31	1.9	309.2	43/37	1.8	**318.2**	**48/42**	**0.5**	323.5	51/45	0.6	329.1	53/48
12	301.9	39/31	1.9	311.4	44/37	1.8	**320.4**	**49/43**	**0.5**	325.7	51/46	0.6	331.4	53/49
10	303.7	39/32	1.9	313.2	44/37	1.8	**322.3**	**49/43**	**0.5**	327.6	52/46	0.6	333.3	54/49
8	304.4	40/32	1.9	313.9	44/38	1.8	**323.1**	**50/43**	**0.5**	328.4	52/46	0.6	334.0	54/49
6	305.2	40/32	1.9	314.7	45/38	1.8	**323.8**	**50/44**	**0.5**	329.2	52/47	0.6	334.8	54/50
4	305.9	40/32	1.9	315.5	45/38	1.8	**324.6**	**50/44**	**0.5**	330.0	53/47	0.6	335.6	55/50
2	306.7	40/33	1.9	316.2	45/39	1.8	**325.4**	**51/44**	**0.5**	330.8	53/47	0.6	336.3	55/50
0	307.4	41/33	1.9	317.0	46/39	1.8	**326.2**	**51/45**	**0.5**	331.6	53/48	0.6	337.1	55/51

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 05L

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B) RWY 05L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.018% UP
TOR	3457m (11341ft)	**ED**	3723m (12214ft)	**TOD**	3457m (11341ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	237.3	29/19	1.4	244.3	33/24	1.4	**251.1**	**36/30**	**0.4**	254.9	37/32	0.4	259.1	39/35
54	244.2	30/18	1.5	251.6	34/24	1.4	**258.5**	**38/29**	**0.4**	262.9	39/32	0.5	267.5	41/34
52	247.4	30/19	1.5	254.8	35/24	1.5	**262.3**	**39/30**	**0.4**	266.7	40/32	0.5	271.4	42/35
50	250.8	31/20	1.5	258.4	36/25	1.5	**266.1**	**40/31**	**0.5**	270.7	42/33	0.5	275.5	43/36
48	253.9	32/20	1.6	261.9	37/26	1.6	**269.7**	**41/31**	**0.5**	274.4	42/34	0.5	279.1	44/37
46	257.1	33/21	1.7	265.5	38/27	1.6	**273.5**	**42/32**	**0.5**	278.1	43/35	0.5	282.9	45/38
44	260.7	33/22	1.7	269.1	38/27	1.6	**277.2**	**43/33**	**0.5**	281.8	44/36	0.5	286.7	46/38
42	264.2	34/23	1.7	272.9	39/28	1.6	**280.9**	**44/34**	**0.5**	285.6	45/36	0.5	290.6	47/39
40	267.9	35/23	1.8	276.7	40/29	1.6	**284.8**	**45/34**	**0.5**	289.5	46/37	0.5	294.6	48/40
38	271.1	34/24	1.7	279.8	39/30	1.6	**288.0**	**44/35**	**0.5**	292.9	46/38	0.5	297.9	48/41
36	274.3	35/25	1.8	283.1	40/30	1.7	**291.4**	**45/36**	**0.5**	296.2	47/39	0.5	301.3	49/42
34	277.3	35/25	1.8	286.2	40/31	1.7	**294.6**	**45/37**	**0.5**	299.5	47/39	0.5	304.6	49/42
32	280.2	36/26	1.8	289.1	41/32	1.7	**297.6**	**46/37**	**0.5**	302.6	48/40	0.5	307.7	50/43
30	282.9	36/26	1.8	292.0	40/32	1.7	**300.5**	**45/38**	**0.5**	305.5	48/41	0.5	310.6	49/43
28	285.3	36/27	1.8	294.5	41/33	1.7	**303.1**	**46/38**	**0.5**	308.0	48/41	0.5	313.3	50/44
26	287.8	37/28	1.8	296.9	41/33	1.7	**305.6**	**47/39**	**0.5**	310.6	49/42	0.5	315.9	51/45
24	290.2	37/28	1.8	299.4	42/34	1.7	**308.1**	**47/39**	**0.5**	313.2	49/42	0.5	318.5	51/45
22	292.6	38/29	1.8	301.8	43/34	1.7	**310.5**	**48/40**	**0.5**	315.7	50/43	0.5	321.0	52/46
20	294.9	38/29	1.9	304.2	43/35	1.8	**313.0**	**48/40**	**0.5**	318.1	50/43	0.6	323.6	52/46
18	297.2	39/29	1.9	306.6	44/35	1.8	**315.4**	**49/41**	**0.5**	320.6	51/44	0.6	326.1	53/47
16	299.2	39/30	1.9	308.6	44/36	1.8	**317.5**	**49/41**	**0.5**	322.8	51/44	0.6	328.4	53/47
14	301.3	38/30	1.9	310.7	43/36	1.8	**319.7**	**48/42**	**0.5**	325.0	50/45	0.6	330.6	52/48
12	303.4	39/31	1.9	312.8	43/37	1.8	**321.9**	**49/42**	**0.5**	327.2	51/45	0.6	332.9	53/48
10	305.1	39/31	1.9	314.7	44/37	1.8	**323.8**	**49/43**	**0.5**	329.1	51/46	0.6	334.8	53/49
8	305.9	39/31	1.9	315.4	44/37	1.8	**324.6**	**49/43**	**0.5**	330.0	52/46	0.6	335.6	54/49
6	306.6	40/32	1.9	316.2	44/38	1.8	**325.4**	**50/43**	**0.5**	330.8	52/46	0.6	336.4	54/49
4	307.4	40/32	1.9	317.0	45/38	1.8	**326.1**	**50/44**	**0.6**	331.6	52/47	0.6	337.2	54/50
2	308.1	40/32	1.9	317.7	45/38	1.8	**326.9**	**50/44**	**0.6**	332.4	53/47	0.6	337.9	55/50
0	308.9	40/33	1.9	318.5	45/38	1.8	**327.7**	**51/44**	**0.6**	333.2	53/47	0.6	338.7	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 05L

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B) RWY 05L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.018% UP
TOR	3457m (11341ft)	**ED**	3723m (12214ft)	**TOD**	3457m (11341ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	235.7	30/20	1.4	242.7	34/25	1.3	**249.4**	**36/30**	**0.4**	253.2	38/33	0.4	257.2	39/36
54	242.7	30/19	1.5	250.0	35/24	1.3	**256.7**	**38/30**	**0.4**	260.8	40/32	0.4	265.0	42/35
52	245.8	31/20	1.5	253.2	36/25	1.4	**260.2**	**39/30**	**0.4**	264.2	41/33	0.4	268.5	43/36
50	249.3	32/20	1.5	256.7	36/26	1.4	**263.7**	**40/31**	**0.4**	267.9	42/34	0.4	272.3	44/37
48	252.3	33/21	1.5	259.9	37/27	1.4	**267.1**	**41/32**	**0.4**	271.3	43/35	0.5	275.8	45/38
46	255.5	33/22	1.5	263.2	38/27	1.5	**270.5**	**42/33**	**0.4**	274.9	44/36	0.5	279.6	46/38
44	258.8	34/22	1.6	266.6	39/28	1.5	**274.0**	**43/34**	**0.5**	278.5	45/36	0.5	283.2	47/39
42	262.1	35/23	1.6	270.0	40/29	1.5	**277.6**	**44/34**	**0.5**	282.2	46/37	0.5	287.0	48/40
40	265.5	36/24	1.6	273.6	41/30	1.6	**281.4**	**45/35**	**0.5**	286.0	47/38	0.5	290.9	49/41
38	268.3	35/25	1.7	276.6	40/31	1.6	**284.5**	**45/36**	**0.5**	289.2	47/39	0.5	294.2	49/42
36	271.3	36/26	1.7	279.7	40/31	1.6	**287.8**	**45/37**	**0.5**	292.5	47/39	0.5	297.5	49/42
34	274.2	36/26	1.7	282.7	41/32	1.6	**290.9**	**46/37**	**0.5**	295.7	48/40	0.5	300.8	50/43
32	277.0	37/27	1.7	285.6	42/32	1.7	**293.9**	**47/38**	**0.5**	298.8	49/41	0.5	303.8	51/44
30	279.6	36/27	1.8	288.4	41/33	1.7	**296.7**	**46/39**	**0.5**	301.6	48/41	0.5	306.7	50/44
28	281.9	37/28	1.8	290.8	42/34	1.7	**299.2**	**47/39**	**0.5**	304.1	49/42	0.5	309.3	51/45
26	284.3	37/28	1.8	293.2	42/34	1.7	**301.7**	**47/40**	**0.5**	306.7	49/43	0.5	311.9	51/45
24	286.7	38/29	1.8	295.7	43/35	1.7	**304.3**	**48/40**	**0.5**	309.3	50/43	0.5	314.5	52/46
22	289.0	38/29	1.8	298.0	43/35	1.7	**306.7**	**48/41**	**0.5**	311.7	51/44	0.5	317.0	53/47
20	291.2	39/30	1.8	300.4	44/36	1.7	**309.1**	**49/41**	**0.5**	314.2	51/44	0.5	319.6	53/47
18	293.5	39/30	1.8	302.7	44/36	1.8	**311.5**	**50/42**	**0.5**	316.6	52/45	0.6	322.1	54/48
16	295.5	40/31	1.9	304.8	45/37	1.8	**313.6**	**50/42**	**0.5**	318.8	52/45	0.6	324.3	54/48
14	297.5	39/31	1.9	306.8	44/37	1.8	**315.7**	**49/43**	**0.5**	321.0	51/46	0.6	326.5	53/49
12	299.6	39/32	1.9	308.9	44/38	1.8	**317.9**	**49/43**	**0.5**	323.2	52/46	0.6	328.8	54/49
10	301.3	40/32	1.9	310.7	45/38	1.8	**319.8**	**50/44**	**0.5**	325.1	52/47	0.6	330.7	54/50
8	302.0	40/32	1.9	311.5	45/38	1.8	**320.5**	**50/44**	**0.5**	325.8	52/47	0.6	331.4	55/50
6	302.8	40/33	1.9	312.2	45/39	1.8	**321.3**	**51/44**	**0.5**	326.6	53/47	0.6	332.2	55/50
4	303.5	41/33	1.9	313.0	46/39	1.8	**322.1**	**51/45**	**0.5**	327.4	53/48	0.6	332.9	55/51
2	304.3	41/33	1.9	313.8	46/39	1.8	**322.9**	**51/45**	**0.5**	328.2	53/48	0.6	333.7	56/51
0	305.1	41/33	1.9	314.6	46/39	1.8	**323.7**	**51/45**	**0.5**	329.0	54/48	0.6	334.5	56/51

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 05L

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B) RWY 05L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.018% UP
TOR	3457m (11341ft)	**ED**	3723m (12214ft)	**TOD**	3457m (11341ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	232.4	29/19	1.4	239.2	32/24	1.3	**245.7**	**35/29**	**0.4**	249.6	36/32	0.4	253.5	38/34
54	239.5	30/18	1.4	246.6	34/23	1.3	**253.3**	**37/29**	**0.4**	257.3	38/31	0.4	261.4	40/34
52	242.8	30/19	1.5	250.1	35/24	1.3	**256.8**	**38/29**	**0.4**	260.8	39/32	0.4	265.0	41/35
50	246.2	31/20	1.5	253.5	36/25	1.4	**260.4**	**39/30**	**0.4**	264.4	41/33	0.4	268.7	42/36
48	249.6	32/20	1.5	256.9	36/26	1.4	**263.9**	**40/31**	**0.4**	268.0	42/34	0.4	272.4	43/37
46	252.8	32/21	1.5	260.3	37/26	1.4	**267.4**	**41/32**	**0.4**	271.6	43/35	0.5	276.1	44/37
44	255.9	33/22	1.5	263.5	38/27	1.5	**270.8**	**42/33**	**0.4**	275.1	44/35	0.5	279.7	45/38
42	259.2	34/22	1.5	266.9	39/28	1.5	**274.3**	**43/33**	**0.5**	278.8	45/36	0.5	283.4	46/39
40	262.4	35/23	1.6	270.3	40/29	1.5	**277.9**	**44/34**	**0.5**	282.4	46/37	0.5	287.2	47/40
38	265.5	34/24	1.6	273.5	39/30	1.6	**281.3**	**44/35**	**0.5**	285.8	46/38	0.5	290.7	48/41
36	268.5	35/25	1.6	276.7	39/30	1.6	**284.6**	**44/36**	**0.5**	289.2	47/39	0.5	294.1	48/41
34	271.4	35/25	1.7	279.7	40/31	1.6	**287.7**	**45/36**	**0.5**	292.4	47/39	0.5	297.4	49/42
32	274.2	36/26	1.7	282.6	41/32	1.6	**290.7**	**46/37**	**0.5**	295.4	48/40	0.5	300.5	50/43
30	276.8	35/27	1.7	285.3	40/32	1.6	**293.5**	**45/38**	**0.5**	298.3	47/41	0.5	303.4	49/43
28	279.2	36/27	1.7	287.8	41/33	1.7	**296.1**	**46/38**	**0.5**	301.0	48/41	0.5	306.0	50/44
26	281.5	37/28	1.8	290.3	41/33	1.7	**298.7**	**46/39**	**0.5**	303.5	49/42	0.5	308.7	51/45
24	283.9	37/28	1.8	292.8	42/34	1.7	**301.3**	**47/39**	**0.5**	306.1	49/42	0.5	311.3	51/45
22	286.3	38/29	1.8	295.2	42/34	1.7	**303.7**	**48/40**	**0.5**	308.7	50/43	0.5	313.9	52/46
20	288.6	38/29	1.8	297.6	43/35	1.7	**306.2**	**48/40**	**0.5**	311.2	50/43	0.5	316.5	52/46
18	290.9	39/30	1.8	300.0	44/35	1.7	**308.7**	**49/41**	**0.5**	313.7	51/44	0.5	319.0	53/47
16	293.0	39/30	1.8	302.1	44/36	1.7	**310.8**	**49/42**	**0.5**	315.9	52/44	0.5	321.3	54/47
14	295.0	38/31	1.8	304.2	43/36	1.8	**313.0**	**48/42**	**0.5**	318.1	50/45	0.5	323.5	53/48
12	297.0	39/31	1.8	306.2	43/37	1.8	**315.1**	**49/43**	**0.5**	320.2	51/45	0.6	325.7	53/48
10	298.7	39/31	1.9	308.0	44/37	1.8	**316.9**	**49/43**	**0.5**	322.1	51/46	0.6	327.6	54/49
8	299.5	39/32	1.9	308.8	44/38	1.8	**317.6**	**49/43**	**0.5**	322.8	52/46	0.6	328.3	54/49
6	300.2	40/32	1.9	309.5	45/38	1.8	**318.4**	**50/44**	**0.5**	323.6	52/47	0.6	329.1	54/50
4	300.9	40/32	1.9	310.3	45/38	1.8	**319.2**	**50/44**	**0.5**	324.3	52/47	0.6	329.9	55/50
2	301.7	40/32	1.9	311.0	45/38	1.8	**320.0**	**50/44**	**0.5**	325.1	53/47	0.6	330.7	55/50
0	302.4	41/33	1.9	311.8	45/39	1.8	**320.7**	**51/44**	**0.5**	325.9	53/47	0.6	331.4	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - Rwy 05L

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B2) RWY 05R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.046% UP
TOR	3985m (13074ft)	**ED**	3985m (13074ft)	**TOD**	3985m (13074ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	254.4	31/21	1.6	262.6	35/26	1.6	**270.5**	**40/31**	**0.2**	272.8	43/34	0.0	272.8	44/38
54	261.4	30/21	1.8	270.4	35/26	1.6	**278.5**	**39/31**	**0.5**	283.4	41/33	0.1	284.0	44/37
52	264.8	31/21	1.8	273.9	36/26	1.6	**282.1**	**40/32**	**0.5**	287.1	42/34	0.2	289.3	45/37
50	268.5	32/22	1.8	277.6	36/27	1.7	**285.9**	**41/32**	**0.5**	291.1	43/35	0.3	294.5	46/38
48	271.9	33/23	1.8	281.1	37/28	1.7	**289.5**	**42/33**	**0.5**	294.6	44/36	0.5	299.7	46/38
46	275.4	34/24	1.8	284.6	38/29	1.7	**293.2**	**43/34**	**0.5**	298.2	45/37	0.5	303.6	47/39
44	278.9	35/24	1.9	288.3	39/30	1.7	**296.8**	**44/35**	**0.5**	302.0	46/37	0.5	307.3	48/40
42	282.5	35/25	1.9	292.1	40/30	1.7	**300.5**	**45/36**	**0.5**	305.7	47/38	0.5	311.1	49/41
40	286.2	36/26	1.9	295.8	41/31	1.7	**304.4**	**46/37**	**0.5**	309.6	48/39	0.6	315.1	50/42
38	288.2	35/27	1.9	297.7	39/32	2.0	**307.5**	**44/37**	**0.5**	312.8	46/40	0.5	318.2	48/43
36	291.5	36/28	1.9	300.9	40/33	2.0	**310.9**	**45/38**	**0.5**	316.2	47/41	0.6	321.8	49/43
34	294.5	36/28	1.9	304.0	41/33	2.0	**314.1**	**45/39**	**0.5**	319.4	47/41	0.6	325.1	49/44
32	297.4	37/29	1.9	307.0	41/34	2.0	**317.1**	**46/39**	**0.6**	322.6	48/42	0.6	328.3	50/45
30	299.6	37/29	1.9	309.3	41/35	2.1	**319.8**	**46/40**	**0.6**	325.5	48/43	0.6	331.3	50/45
28	302.1	37/30	2.0	311.9	42/35	2.1	**322.5**	**46/41**	**0.6**	328.2	48/43	0.6	333.9	51/46
26	304.5	38/30	2.0	314.4	42/36	2.1	**325.1**	**47/41**	**0.6**	330.9	49/44	0.6	336.5	51/47
24	306.9	38/31	2.0	317.0	43/36	2.1	**327.7**	**48/42**	**0.6**	333.6	50/44	0.6	339.2	52/47
22	309.3	39/31	2.0	319.4	43/37	2.2	**330.3**	**48/42**	**0.6**	336.0	50/45	0.6	341.8	52/48
20	311.7	39/32	2.0	321.9	44/37	2.2	**332.9**	**49/43**	**0.6**	338.5	51/46	0.6	344.3	53/48
18	314.1	40/32	2.0	324.3	44/38	2.2	**335.3**	**49/43**	**0.6**	341.0	51/46	0.6	346.8	53/49
16	316.1	40/33	2.1	326.5	45/38	2.2	**337.4**	**50/44**	**0.6**	343.3	52/47	0.6	349.0	54/49
14	317.9	39/33	2.1	328.5	44/39	2.2	**339.5**	**49/44**	**0.6**	345.3	51/47	0.6	351.2	53/50
12	320.0	40/34	2.1	330.7	45/39	2.2	**341.8**	**49/45**	**0.6**	347.5	51/47	0.6	353.4	53/50
10	321.9	40/34	2.2	332.7	45/40	2.2	**343.7**	**50/45**	**0.6**	349.5	52/48	0.6	355.4	54/51
8	322.8	41/35	2.2	333.6	45/40	2.2	**344.6**	**50/45**	**0.6**	350.4	52/48	0.6	356.4	54/51
6	323.7	41/35	2.2	334.5	46/40	2.2	**345.5**	**50/46**	**0.6**	351.4	52/48	0.6	357.3	54/51
4	324.6	41/35	2.2	335.4	46/40	2.2	**346.4**	**51/46**	**0.6**	352.4	53/49	0.6	358.3	55/52
2	325.5	41/35	2.2	336.3	46/41	2.2	**347.4**	**51/46**	**0.6**	353.4	53/49	0.6	359.3	55/52
0	326.5	42/36	2.1	337.2	46/41	2.2	**348.3**	**51/47**	**0.6**	354.3	53/49	0.6	360.4	55/52

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 05R

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

PERFORMANCE DATA FULL LENGTH DATA IS VALID FROM TWY A1 OR TWY B2. TORA FROM BOTH IS 3985M.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B2) RWY 05R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.046% UP
TOR	3985m (13074ft)	**ED**	3985m (13074ft)	**TOD**	3985m (13074ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	255.6	30/21	1.7	263.9	35/26	1.6	**272.0**	**40/31**	**0.2**	274.3	43/34	0.0	274.3	44/37
54	262.7	30/20	1.8	271.8	35/25	1.6	**279.9**	**39/31**	**0.5**	284.8	41/33	0.1	285.6	44/36
52	266.2	31/21	1.8	275.4	35/26	1.6	**283.6**	**40/31**	**0.5**	288.5	42/34	0.2	290.8	45/37
50	269.9	32/22	1.8	279.1	36/27	1.6	**287.3**	**41/32**	**0.5**	292.4	43/35	0.4	296.1	45/38
48	273.4	33/23	1.8	282.5	37/28	1.7	**290.9**	**42/33**	**0.5**	296.0	44/36	0.5	301.2	46/38
46	276.9	34/23	1.8	286.1	38/28	1.7	**294.6**	**43/34**	**0.5**	299.6	45/36	0.5	305.0	47/39
44	280.3	34/24	1.9	289.7	39/29	1.7	**298.2**	**44/35**	**0.5**	303.4	46/37	0.5	308.7	47/40
42	283.9	35/25	1.9	293.4	40/30	1.7	**302.0**	**44/35**	**0.5**	307.1	46/38	0.6	312.6	48/41
40	287.6	36/26	1.9	297.2	40/31	1.7	**305.8**	**45/36**	**0.5**	311.1	47/39	0.6	316.6	49/42
38	289.6	35/26	1.9	299.1	39/32	2.0	**309.0**	**44/37**	**0.5**	314.3	46/40	0.5	319.7	48/42
36	292.8	35/27	1.9	302.3	40/32	2.0	**312.3**	**44/38**	**0.5**	317.6	46/40	0.6	323.2	48/43
34	295.9	36/28	1.9	305.5	40/33	2.0	**315.6**	**45/38**	**0.5**	320.9	47/41	0.6	326.6	49/44
32	298.8	37/28	1.9	308.4	41/34	2.0	**318.6**	**46/39**	**0.6**	324.1	48/42	0.6	329.8	50/44
30	301.0	36/29	2.0	310.8	41/34	2.1	**321.3**	**45/40**	**0.6**	327.0	48/42	0.6	332.8	50/45
28	303.5	37/30	2.0	313.4	41/35	2.1	**323.9**	**46/40**	**0.6**	329.7	48/43	0.6	335.5	50/46
26	305.9	37/30	2.0	315.9	42/35	2.1	**326.6**	**47/41**	**0.6**	332.4	49/43	0.6	338.1	51/46
24	308.4	38/31	2.0	318.4	42/36	2.2	**329.2**	**47/41**	**0.6**	335.1	49/44	0.6	340.8	51/47
22	310.8	39/31	2.0	320.9	43/36	2.2	**331.8**	**48/42**	**0.6**	337.6	50/45	0.6	343.4	52/47
20	313.2	39/32	2.0	323.4	44/37	2.2	**334.4**	**48/42**	**0.6**	340.1	50/45	0.6	345.9	53/48
18	315.5	40/32	2.1	325.8	44/37	2.2	**336.8**	**49/43**	**0.6**	342.6	51/46	0.6	348.4	53/48
16	317.6	40/33	2.1	328.0	45/38	2.2	**339.0**	**49/43**	**0.6**	344.9	52/46	0.6	350.6	54/49
14	319.3	39/33	2.1	330.0	44/38	2.2	**341.1**	**48/44**	**0.6**	347.0	51/47	0.6	352.8	53/49
12	321.5	40/33	2.2	332.3	44/39	2.2	**343.3**	**49/44**	**0.6**	349.1	51/47	0.6	355.1	53/50
10	323.4	40/34	2.2	334.2	45/39	2.2	**345.3**	**49/45**	**0.6**	351.1	51/48	0.6	357.0	54/50
8	324.3	40/34	2.2	335.1	45/40	2.2	**346.2**	**50/45**	**0.6**	352.1	52/48	0.6	358.0	54/51
6	325.2	41/34	2.2	336.0	45/40	2.2	**347.1**	**50/45**	**0.6**	353.0	52/48	0.6	359.0	54/51
4	326.1	41/35	2.2	336.9	45/40	2.2	**348.0**	**50/46**	**0.6**	354.0	52/48	0.6	360.0	54/51
2	327.0	41/35	2.2	337.9	46/40	2.2	**349.0**	**50/46**	**0.6**	355.0	53/49	0.6	361.0	55/52
0	328.0	41/35	2.2	338.8	46/41	2.2	**350.0**	**51/46**	**0.6**	356.0	53/49	0.6	362.0	55/52

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 05R

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

PERFORMANCE DATA FULL LENGTH DATA IS VALID FROM TWY A1 OR TWY B2. TORA FROM BOTH IS 3985M.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B2) RWY 05R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.046% UP
TOR	3985m (13074ft)	**ED**	3985m (13074ft)	**TOD**	3985m (13074ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	254.3	31/21	1.5	262.0	36/26	1.5	**269.3**	**41/32**	**0.1**	270.5	44/35	0.0	270.5	45/38
54	260.9	31/21	1.6	269.1	35/26	1.5	**276.8**	**40/31**	**0.5**	281.5	42/34	0.0	281.6	45/37
52	264.0	32/22	1.7	272.4	36/27	1.6	**280.3**	**41/32**	**0.5**	285.1	43/35	0.2	286.8	45/38
50	267.4	33/23	1.7	276.0	37/28	1.6	**283.9**	**42/33**	**0.5**	288.9	44/36	0.3	292.0	46/39
48	270.6	34/23	1.7	279.3	38/29	1.6	**287.4**	**43/34**	**0.5**	292.3	45/36	0.5	297.1	47/39
46	273.8	34/24	1.8	282.7	39/29	1.7	**291.0**	**43/35**	**0.5**	295.9	45/37	0.5	301.2	47/40
44	277.2	35/25	1.8	286.2	40/30	1.7	**294.5**	**44/35**	**0.5**	299.7	46/38	0.5	304.9	48/41
42	280.7	36/26	1.8	289.8	40/31	1.7	**298.2**	**45/36**	**0.5**	303.3	47/39	0.5	308.7	49/42
40	284.2	37/27	1.9	293.5	41/32	1.7	**302.1**	**46/37**	**0.5**	307.2	48/40	0.6	312.7	50/42
38	286.1	35/27	1.9	295.4	40/32	2.0	**305.2**	**44/38**	**0.5**	310.4	46/40	0.5	315.8	48/43
36	289.3	36/28	1.9	298.6	41/33	2.0	**308.5**	**45/38**	**0.5**	313.7	47/41	0.6	319.3	49/44
34	292.2	37/29	1.9	301.7	41/34	2.0	**311.7**	**46/39**	**0.5**	317.0	48/42	0.6	322.6	50/45
32	295.1	38/29	1.9	304.6	42/34	2.0	**314.7**	**47/40**	**0.6**	320.2	49/43	0.6	325.8	51/45
30	297.3	37/30	1.9	307.0	42/35	2.1	**317.4**	**46/41**	**0.6**	323.0	48/43	0.6	328.7	51/46
28	299.8	38/30	1.9	309.5	42/36	2.1	**320.0**	**47/41**	**0.6**	325.7	49/44	0.6	331.4	51/47
26	302.2	38/31	2.0	312.0	43/36	2.1	**322.6**	**47/42**	**0.6**	328.4	50/44	0.6	334.0	52/47
24	304.6	39/32	2.0	314.5	43/37	2.1	**325.2**	**48/42**	**0.6**	331.0	50/45	0.6	336.6	52/48
22	306.9	39/32	2.0	317.0	44/37	2.2	**327.8**	**49/43**	**0.6**	333.5	51/46	0.6	339.2	53/48
20	309.3	40/33	2.0	319.4	44/38	2.2	**330.3**	**49/43**	**0.6**	336.0	51/46	0.6	341.7	53/49
18	311.7	40/33	2.0	321.9	45/38	2.2	**332.7**	**50/44**	**0.6**	338.5	52/47	0.6	344.1	54/49
16	313.7	41/33	2.1	324.0	45/39	2.2	**334.9**	**50/44**	**0.6**	340.7	52/47	0.6	346.3	55/50
14	315.4	40/34	2.1	326.0	45/39	2.2	**337.0**	**49/45**	**0.6**	342.7	51/48	0.6	348.5	54/50
12	317.5	41/34	2.1	328.2	45/40	2.2	**339.2**	**50/45**	**0.6**	344.9	52/48	0.6	350.7	54/51
10	319.4	41/35	2.2	330.2	46/40	2.2	**341.1**	**50/46**	**0.6**	346.8	52/49	0.6	352.7	55/51
8	320.3	41/35	2.1	331.0	46/41	2.2	**342.0**	**51/46**	**0.6**	347.8	53/49	0.6	353.7	55/52
6	321.2	42/35	2.1	331.9	46/41	2.2	**342.9**	**51/46**	**0.6**	348.7	53/49	0.6	354.6	55/52
4	322.1	42/36	2.1	332.8	46/41	2.2	**343.8**	**51/47**	**0.6**	349.7	53/49	0.6	355.6	55/52
2	323.0	42/36	2.1	333.7	47/41	2.2	**344.7**	**51/47**	**0.6**	350.7	54/50	0.6	356.6	56/53
0	324.0	42/36	2.1	334.7	47/42	2.2	**345.7**	**52/47**	**0.6**	351.6	54/50	0.6	357.6	56/53

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 05R

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

PERFORMANCE DATA FULL LENGTH DATA IS VALID FROM TWY A1 OR TWY B2. TORA FROM BOTH IS 3985M.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY A1/B2) RWY 05R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.046% UP
TOR	3985m (13074ft)	**ED**	3985m (13074ft)	**TOD**	3985m (13074ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	251.2	30/20	1.5	258.7	34/25	1.1	**264.2**	**40/31**	**0.0**	264.2	42/34	0.0	264.2	42/37
54	257.9	30/20	1.6	265.8	34/25	1.5	**273.3**	**39/30**	**0.2**	275.5	41/33	0.0	275.5	44/36
52	261.1	31/21	1.6	269.2	35/26	1.5	**276.8**	**40/31**	**0.4**	280.7	42/34	0.0	280.7	45/37
50	264.4	32/22	1.7	272.7	36/27	1.6	**280.6**	**41/32**	**0.5**	285.3	43/34	0.1	285.9	45/38
48	267.7	32/23	1.7	276.2	37/28	1.6	**284.1**	**42/33**	**0.5**	289.1	44/35	0.2	291.0	46/38
46	271.0	33/23	1.7	279.7	38/28	1.6	**287.7**	**42/34**	**0.5**	292.7	44/36	0.4	296.2	47/39
44	274.2	34/24	1.8	283.0	38/29	1.7	**291.3**	**43/34**	**0.5**	296.2	45/37	0.5	301.4	47/40
42	277.7	35/25	1.8	286.6	39/30	1.7	**294.9**	**44/35**	**0.5**	300.0	46/38	0.5	305.3	48/40
40	281.0	36/26	1.8	290.2	40/31	1.7	**298.6**	**45/36**	**0.5**	303.6	47/39	0.5	309.0	49/41
38	283.2	35/26	1.8	292.3	39/32	1.9	**302.0**	**43/37**	**0.5**	307.1	45/39	0.5	312.5	47/42
36	286.3	35/27	1.9	295.6	40/32	1.9	**305.3**	**44/38**	**0.5**	310.5	46/40	0.5	315.9	48/43
34	289.4	36/28	1.9	298.7	40/33	2.0	**308.6**	**45/38**	**0.5**	313.8	47/41	0.6	319.3	49/44
32	292.3	37/28	1.9	301.7	41/34	2.0	**311.6**	**46/39**	**0.5**	316.9	48/42	0.6	322.5	50/44
30	294.4	36/29	1.9	304.0	41/34	2.1	**314.3**	**45/40**	**0.6**	319.9	47/42	0.6	325.5	49/45
28	296.9	37/30	1.9	306.6	41/35	2.1	**316.9**	**46/40**	**0.6**	322.5	48/43	0.6	328.2	50/46
26	299.4	37/30	1.9	309.1	42/35	2.1	**319.6**	**47/41**	**0.6**	325.2	49/44	0.6	330.9	51/46
24	301.9	38/31	2.0	311.7	42/36	2.1	**322.2**	**47/41**	**0.6**	328.0	49/44	0.6	333.6	51/47
22	304.3	39/31	2.0	314.2	43/37	2.1	**324.8**	**48/42**	**0.6**	330.6	50/45	0.6	336.2	52/48
20	306.7	39/32	2.0	316.7	44/37	2.1	**327.4**	**48/43**	**0.6**	333.1	51/45	0.6	338.8	53/48
18	309.2	40/32	2.0	319.2	44/38	2.2	**330.1**	**49/43**	**0.6**	335.7	51/46	0.6	341.4	53/49
16	311.3	40/33	2.0	321.4	45/38	2.2	**332.3**	**50/44**	**0.6**	338.0	52/46	0.6	343.6	54/49
14	313.0	39/33	2.1	323.5	44/39	2.2	**334.4**	**49/44**	**0.6**	340.1	51/47	0.6	345.8	53/50
12	315.1	40/34	2.1	325.6	44/39	2.2	**336.5**	**49/45**	**0.6**	342.2	51/47	0.6	348.0	53/50
10	316.9	40/34	2.1	327.5	45/40	2.2	**338.4**	**50/45**	**0.6**	344.1	52/48	0.6	349.9	54/51
8	317.8	40/34	2.1	328.4	45/40	2.2	**339.3**	**50/45**	**0.6**	345.0	52/48	0.6	350.9	54/51
6	318.7	41/35	2.1	329.4	45/40	2.2	**340.2**	**50/46**	**0.6**	346.0	52/48	0.6	351.8	54/51
4	319.6	41/35	2.1	330.3	46/40	2.2	**341.1**	**50/46**	**0.6**	346.9	52/49	0.6	352.8	55/51
2	320.5	41/35	2.1	331.2	46/41	2.2	**342.1**	**51/46**	**0.6**	347.9	53/49	0.6	353.7	55/52
0	321.4	42/35	2.1	332.1	46/41	2.2	**343.0**	**51/46**	**0.6**	348.8	53/49	0.6	354.7	55/52

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - Rwy 05R

MUXEP/OMPUT/APAN/OTUMBA/PUEBLA SIDS ALL ENGINES USE FCOM 1 NOISE ABATEMENT PROCEDURE. TERMINATING ALTITUDE 11316FT QNH (4000FT HAA).

ENGINE OUT MIN ACCEL ALT (AA) IS 8316FT QNH (HAA 1000FT).

ENGINE OUT ENGINE FAILURE BEFORE MEX 13D - TURN LEFT TO VOR SLM FOR HOLD OR RETURN. (IF ENGINE FAILURE OCCURS BEFORE MEX 6D - FLY AHEAD TO MEX 6D BEFORE COMMENCING LEFT TURN). CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER MEX 13D - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

TOLUCA/CUAUTLA/PASTEJE SIDS ARE NOT APPROVED.

PERFORMANCE DATA FULL LENGTH DATA IS VALID FROM TWY A1 OR TWY B2. TORA FROM BOTH IS 3985M.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY D) RWY 23L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.047% DN
TOR	3905m (12811ft)	**ED**	3985m (13074ft)	**TOD**	3905m (12811ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	245.6	32/23	1.3	252.1	37/28	1.3	**258.4**	**39/33**	**0.4**	262.1	40/36	0.3	265.0	42/39
54	253.2	32/22	1.4	260.1	37/27	1.4	**267.0**	**42/33**	**0.4**	270.9	43/35	0.4	274.8	44/38
52	256.8	33/23	1.4	263.9	38/28	1.4	**271.1**	**43/33**	**0.4**	275.0	44/36	0.4	279.0	45/39
50	260.8	34/23	1.4	268.0	39/29	1.4	**275.2**	**43/34**	**0.4**	279.2	45/37	0.4	283.3	47/40
48	264.4	35/24	1.5	271.8	39/29	1.5	**279.1**	**44/35**	**0.4**	283.2	46/38	0.4	287.3	48/40
46	268.2	35/25	1.5	275.7	40/30	1.5	**283.1**	**45/36**	**0.4**	287.3	47/38	0.4	291.5	49/41
44	272.0	36/25	1.5	279.6	41/31	1.5	**287.1**	**46/36**	**0.4**	291.4	48/39	0.4	295.5	50/42
42	275.8	37/26	1.5	283.5	42/32	1.5	**291.1**	**47/37**	**0.4**	295.4	49/40	0.4	299.6	51/43
40	279.7	38/27	1.6	287.5	43/32	1.5	**295.2**	**48/38**	**0.4**	299.5	50/41	0.4	303.8	52/44
38	283.1	36/28	1.6	291.0	41/33	1.5	**298.7**	**46/39**	**0.4**	303.0	48/42	0.4	307.3	50/44
36	286.5	37/28	1.6	294.5	42/34	1.6	**302.3**	**47/39**	**0.4**	306.6	49/42	0.4	311.0	51/45
34	289.8	38/29	1.6	297.8	42/34	1.6	**305.6**	**47/40**	**0.4**	310.0	50/43	0.4	314.4	52/46
32	292.9	38/30	1.6	301.0	43/35	1.6	**308.8**	**48/41**	**0.5**	313.3	50/44	0.5	317.8	53/46
30	295.6	38/30	1.7	303.9	42/36	1.6	**311.9**	**48/41**	**0.5**	316.4	50/44	0.5	320.9	52/47
28	298.1	38/31	1.7	306.5	43/36	1.6	**314.5**	**48/42**	**0.5**	319.1	50/45	0.5	323.7	53/48
26	300.7	39/31	1.7	309.1	44/37	1.6	**317.2**	**49/42**	**0.5**	321.8	51/45	0.5	326.5	53/48
24	303.2	39/32	1.7	311.8	44/37	1.6	**319.9**	**49/43**	**0.5**	324.6	52/46	0.5	329.4	54/49
22	305.6	40/32	1.7	314.3	45/38	1.6	**322.5**	**50/43**	**0.5**	327.3	52/46	0.5	332.1	54/49
20	308.0	40/33	1.8	316.8	45/38	1.7	**325.1**	**50/44**	**0.5**	329.9	53/47	0.5	334.7	55/50
18	310.5	41/33	1.8	319.3	46/39	1.7	**327.7**	**51/45**	**0.5**	332.6	53/48	0.5	337.4	55/50
16	312.6	41/34	1.8	321.6	46/39	1.7	**330.0**	**51/45**	**0.5**	334.8	54/48	0.5	339.7	56/51
14	314.3	40/34	1.9	323.8	45/40	1.7	**332.3**	**50/46**	**0.5**	337.1	53/48	0.5	342.0	55/51
12	316.5	41/34	1.9	326.0	46/40	1.7	**334.6**	**51/46**	**0.5**	339.4	53/49	0.5	344.3	55/52
10	318.3	41/35	1.9	328.0	46/40	1.7	**336.5**	**51/46**	**0.5**	341.3	54/49	0.5	346.3	56/52
8	319.1	42/35	1.9	328.7	46/41	1.7	**337.2**	**52/47**	**0.5**	342.0	54/50	0.5	346.9	56/53
6	319.8	42/35	1.9	329.4	47/41	1.7	**337.9**	**52/47**	**0.5**	342.7	54/50	0.5	347.6	57/53
4	320.6	42/36	1.9	330.1	47/41	1.7	**338.5**	**52/47**	**0.5**	343.4	55/50	0.5	348.3	57/53
2	321.3	43/36	1.9	330.8	47/42	1.7	**339.3**	**53/48**	**0.5**	344.1	55/51	0.5	349.0	57/54
0	322.1	43/36	1.9	331.5	48/42	1.7	**340.0**	**53/48**	**0.5**	344.8	55/51	0.5	349.7	58/54

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23L

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY D) RWY 23L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.047% DN
TOR	3905m (12811ft)	**ED**	3985m (13074ft)	**TOD**	3905m (12811ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	246.8	32/22	1.3	253.3	37/27	1.3	**259.7**	**39/33**	**0.4**	263.5	40/36	0.2	265.7	41/39
54	254.4	32/22	1.4	261.4	37/27	1.4	**268.4**	**41/32**	**0.4**	272.4	43/35	0.4	276.3	44/38
52	258.1	33/22	1.4	265.3	38/28	1.4	**272.5**	**42/33**	**0.4**	276.5	44/36	0.4	280.5	45/39
50	262.1	34/23	1.5	269.4	38/28	1.5	**276.7**	**43/34**	**0.4**	280.7	45/37	0.4	284.7	46/39
48	265.8	34/24	1.5	273.3	39/29	1.5	**280.6**	**44/35**	**0.4**	284.7	46/37	0.4	288.8	47/40
46	269.6	35/25	1.5	277.2	40/30	1.5	**284.5**	**45/35**	**0.4**	288.7	47/38	0.4	292.9	48/41
44	273.5	36/25	1.5	281.0	41/31	1.5	**288.5**	**46/36**	**0.4**	292.8	48/39	0.4	297.0	49/42
42	277.3	37/26	1.5	285.0	41/31	1.5	**292.6**	**47/37**	**0.4**	296.8	49/40	0.4	301.1	50/43
40	281.2	38/27	1.6	289.0	42/32	1.5	**296.6**	**47/38**	**0.4**	301.0	50/41	0.4	305.3	51/43
38	284.5	36/27	1.6	292.5	41/33	1.5	**300.1**	**46/38**	**0.4**	304.5	48/41	0.4	308.8	50/44
36	287.9	37/28	1.6	295.9	41/33	1.6	**303.7**	**46/39**	**0.4**	308.1	49/42	0.4	312.5	51/45
34	291.2	37/29	1.6	299.3	42/34	1.6	**307.1**	**47/40**	**0.4**	311.5	49/43	0.5	316.0	52/45
32	294.3	38/29	1.6	302.4	43/35	1.6	**310.3**	**48/40**	**0.5**	314.8	50/43	0.5	319.3	52/46
30	297.0	37/30	1.7	305.4	42/35	1.6	**313.3**	**47/41**	**0.5**	317.9	49/44	0.5	322.5	52/47
28	299.5	38/30	1.7	308.0	43/36	1.6	**316.0**	**48/41**	**0.5**	320.6	50/44	0.5	325.3	52/47
26	302.1	39/31	1.7	310.6	43/36	1.6	**318.7**	**48/42**	**0.5**	323.4	51/45	0.5	328.1	53/48
24	304.7	39/31	1.7	313.3	44/37	1.6	**321.4**	**49/43**	**0.5**	326.2	51/45	0.5	330.9	54/49
22	307.1	40/32	1.7	315.8	44/37	1.7	**324.1**	**49/43**	**0.5**	328.8	52/46	0.5	333.7	54/49
20	309.5	40/32	1.8	318.3	45/38	1.7	**326.7**	**50/44**	**0.5**	331.5	52/47	0.5	336.3	55/50
18	312.0	41/33	1.8	320.9	45/38	1.7	**329.3**	**51/44**	**0.5**	334.2	53/47	0.5	339.0	55/50
16	314.1	41/33	1.8	323.1	46/39	1.7	**331.6**	**51/45**	**0.5**	336.4	53/48	0.5	341.3	56/51
14	315.8	40/34	1.9	325.3	45/39	1.7	**333.9**	**50/45**	**0.5**	338.7	52/48	0.5	343.6	55/51
12	318.0	40/34	1.9	327.6	45/40	1.7	**336.1**	**51/46**	**0.5**	341.0	53/49	0.5	345.9	55/52
10	319.8	41/35	1.9	329.5	46/40	1.7	**338.1**	**51/46**	**0.5**	342.9	53/49	0.5	347.9	56/52
8	320.6	41/35	1.9	330.2	46/40	1.7	**338.7**	**51/46**	**0.5**	343.6	54/49	0.5	348.6	56/52
6	321.3	42/35	1.9	330.9	46/41	1.7	**339.4**	**52/47**	**0.5**	344.3	54/50	0.5	349.3	56/53
4	322.1	42/35	1.9	331.6	47/41	1.7	**340.2**	**52/47**	**0.5**	345.0	54/50	0.5	349.9	57/53
2	322.8	42/36	1.9	332.3	47/41	1.7	**340.9**	**52/47**	**0.5**	345.7	55/50	0.5	350.6	57/53
0	323.6	42/36	1.9	333.1	47/42	1.7	**341.6**	**53/48**	**0.5**	346.4	55/51	0.5	351.3	57/54

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23L

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY D) RWY 23L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.047% DN
TOR	3905m (12811ft)	**ED**	3985m (13074ft)	**TOD**	3905m (12811ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	245.0	33/23	1.3	251.4	37/28	1.2	**257.6**	**39/33**	**0.4**	261.1	41/36	0.3	264.5	42/39
54	252.6	33/22	1.3	259.2	37/27	1.3	**265.7**	**42/33**	**0.4**	269.3	43/36	0.4	273.0	45/39
52	256.1	33/23	1.3	262.8	38/28	1.3	**269.5**	**43/34**	**0.4**	273.3	44/37	0.4	277.1	46/39
50	259.9	34/24	1.3	266.6	39/29	1.4	**273.5**	**44/35**	**0.4**	277.3	46/37	0.4	281.2	47/40
48	263.3	35/24	1.4	270.2	40/30	1.4	**277.2**	**45/35**	**0.4**	281.2	47/38	0.4	285.2	48/41
46	266.8	36/25	1.4	273.9	41/31	1.4	**281.1**	**46/36**	**0.4**	285.1	48/39	0.4	289.2	49/42
44	270.4	37/26	1.5	277.7	41/31	1.4	**284.9**	**46/37**	**0.4**	289.1	49/40	0.4	293.2	50/43
42	274.0	37/27	1.5	281.5	42/32	1.5	**288.9**	**47/38**	**0.4**	293.0	49/40	0.4	297.2	51/43
40	277.8	38/28	1.5	285.4	43/33	1.5	**292.9**	**48/39**	**0.4**	297.1	50/41	0.4	301.4	52/44
38	281.0	37/28	1.5	288.7	41/34	1.5	**296.3**	**47/39**	**0.4**	300.6	49/42	0.4	304.9	51/45
36	284.4	37/29	1.6	292.2	42/34	1.5	**299.9**	**47/40**	**0.4**	304.2	49/43	0.4	308.5	52/46
34	287.6	38/29	1.6	295.4	43/35	1.6	**303.2**	**48/41**	**0.4**	307.6	50/43	0.4	312.0	52/46
32	290.6	39/30	1.6	298.6	43/36	1.6	**306.4**	**49/41**	**0.4**	310.8	51/44	0.4	315.2	53/47
30	293.3	38/31	1.6	301.5	43/36	1.6	**309.4**	**48/42**	**0.4**	313.8	50/45	0.5	318.4	53/48
28	295.8	39/31	1.7	304.1	43/37	1.6	**312.0**	**49/42**	**0.5**	316.5	51/45	0.5	321.1	53/48
26	298.3	39/32	1.7	306.7	44/37	1.6	**314.7**	**49/43**	**0.5**	319.3	52/46	0.5	323.9	54/49
24	300.9	40/32	1.7	309.3	45/38	1.6	**317.4**	**50/43**	**0.5**	322.0	52/46	0.5	326.7	54/49
22	303.2	40/33	1.7	311.8	45/38	1.6	**320.0**	**50/44**	**0.5**	324.7	53/47	0.5	329.5	55/50
20	305.6	41/33	1.7	314.3	46/39	1.6	**322.5**	**51/45**	**0.5**	327.3	53/48	0.5	332.1	56/51
18	308.0	41/34	1.8	316.8	46/39	1.7	**325.1**	**51/45**	**0.5**	330.0	54/48	0.5	334.7	56/51
16	310.2	42/34	1.8	319.0	47/40	1.7	**327.4**	**52/46**	**0.5**	332.2	54/49	0.5	336.9	57/52
14	311.9	41/35	1.9	321.2	46/40	1.7	**329.7**	**51/46**	**0.5**	334.4	53/49	0.5	339.2	56/52
12	314.0	41/35	1.9	323.5	46/41	1.7	**331.9**	**51/47**	**0.5**	336.7	54/49	0.5	341.6	56/53
10	315.8	42/35	1.9	325.4	47/41	1.7	**333.8**	**52/47**	**0.5**	338.6	54/50	0.5	343.5	56/53
8	316.6	42/36	1.9	326.0	47/41	1.7	**334.5**	**52/47**	**0.5**	339.3	55/50	0.5	344.2	57/53
6	317.3	42/36	1.9	326.7	47/42	1.7	**335.2**	**53/48**	**0.5**	340.0	55/51	0.5	344.8	57/54
4	318.0	43/36	1.9	327.4	48/42	1.7	**335.9**	**53/48**	**0.5**	340.7	55/51	0.5	345.5	57/54
2	318.8	43/37	1.9	328.2	48/42	1.7	**336.6**	**53/48**	**0.5**	341.4	56/51	0.5	346.2	58/54
0	319.6	43/37	1.9	328.9	48/43	1.7	**337.3**	**54/49**	**0.5**	342.0	56/52	0.5	346.8	58/55

P/C above 1013 + 0.2
P/C below 1013 - 0.5

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23L

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (TWY D) RWY 23L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.047% DN
TOR	3905m (12811ft)	**ED**	3985m (13074ft)	**TOD**	3905m (12811ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	241.2	32/22	1.3	247.5	35/27	1.2	**253.5**	**38/32**	**0.3**	256.8	39/35	0.2	258.7	40/38
54	249.1	32/21	1.3	255.5	36/27	1.3	**261.8**	**40/32**	**0.4**	265.3	42/35	0.4	268.9	43/38
52	252.6	33/22	1.3	259.2	37/27	1.3	**265.6**	**41/33**	**0.4**	269.3	43/36	0.4	272.9	44/38
50	256.3	33/23	1.3	263.0	38/28	1.3	**269.5**	**43/34**	**0.4**	273.3	44/36	0.4	277.1	45/39
48	259.9	34/24	1.4	266.7	39/29	1.3	**273.4**	**44/34**	**0.4**	277.3	45/37	0.4	281.1	47/40
46	263.4	35/24	1.4	270.4	40/30	1.4	**277.3**	**45/35**	**0.4**	281.2	46/38	0.4	285.1	48/41
44	267.0	36/25	1.4	274.0	41/30	1.4	**281.1**	**45/36**	**0.4**	285.1	47/39	0.4	289.1	49/42
42	270.6	37/26	1.4	277.8	41/31	1.4	**285.0**	**46/37**	**0.4**	289.1	48/40	0.4	293.2	50/42
40	274.2	37/27	1.5	281.6	42/32	1.5	**288.9**	**47/38**	**0.4**	293.0	49/40	0.4	297.2	51/43
38	277.6	36/27	1.5	285.1	41/33	1.5	**292.5**	**46/38**	**0.4**	296.8	48/41	0.4	301.0	50/44
36	281.0	37/28	1.5	288.6	41/33	1.5	**296.1**	**46/39**	**0.4**	300.4	49/42	0.4	304.6	51/45
34	284.2	37/29	1.5	291.9	42/34	1.5	**299.6**	**47/40**	**0.4**	303.8	49/43	0.4	308.1	52/45
32	287.2	38/29	1.6	295.1	43/35	1.5	**302.7**	**48/40**	**0.4**	307.1	50/43	0.4	311.4	52/46
30	290.1	37/30	1.6	298.0	42/35	1.5	**305.7**	**47/41**	**0.5**	310.2	50/44	0.4	314.5	52/47
28	292.7	38/30	1.6	300.7	43/36	1.6	**308.5**	**48/42**	**0.4**	312.9	50/44	0.5	317.4	52/47
26	295.2	39/31	1.6	303.3	43/36	1.6	**311.2**	**48/42**	**0.5**	315.7	51/45	0.5	320.2	53/48
24	297.8	39/31	1.6	306.0	44/37	1.6	**313.9**	**49/43**	**0.5**	318.4	51/46	0.5	323.0	54/49
22	300.3	40/32	1.6	308.5	44/37	1.6	**316.5**	**50/43**	**0.5**	321.1	52/46	0.5	325.7	54/49
20	302.7	40/32	1.7	311.1	45/38	1.6	**319.2**	**50/44**	**0.5**	323.8	52/47	0.5	328.5	55/50
18	305.1	41/33	1.7	313.7	45/39	1.6	**321.8**	**51/44**	**0.5**	326.5	53/47	0.5	331.2	55/50
16	307.3	41/33	1.7	315.9	46/39	1.6	**324.1**	**51/45**	**0.5**	328.8	54/48	0.5	333.5	56/51
14	309.1	40/34	1.8	318.1	45/40	1.7	**326.4**	**50/45**	**0.5**	331.1	53/48	0.5	335.7	55/51
12	311.1	41/34	1.8	320.3	46/40	1.7	**328.6**	**51/46**	**0.5**	333.3	53/49	0.5	338.0	55/52
10	312.9	41/35	1.8	322.1	46/40	1.7	**330.5**	**51/46**	**0.5**	335.1	54/49	0.5	339.9	56/52
8	313.6	41/35	1.8	322.8	46/41	1.7	**331.1**	**52/47**	**0.5**	335.8	54/50	0.5	340.5	56/53
6	314.3	42/35	1.8	323.4	47/41	1.7	**331.8**	**52/47**	**0.5**	336.4	54/50	0.5	341.1	57/53
4	315.1	42/36	1.8	324.1	47/41	1.7	**332.4**	**52/47**	**0.5**	337.1	55/50	0.5	341.8	57/53
2	315.8	42/36	1.8	324.8	47/42	1.7	**333.1**	**53/48**	**0.5**	337.8	55/51	0.5	342.5	57/54
0	316.5	43/36	1.8	325.5	48/42	1.7	**333.8**	**53/48**	**0.5**	338.5	55/51	0.5	343.1	58/54

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23L

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (BACKTRACK) RWY 23R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3588m (11771ft)	**ED**	3730m (12237ft)	**TOD**	3588m (11771ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
17-20.9 PCT AFT CG (USE CARD V SPEEDS)
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	235.6	30/19	1.2	241.6	33/25	1.2	**247.5**	**35/30**	**0.3**	250.8	36/33	0.3	254.1	38/35
54	243.1	30/18	1.3	249.5	35/24	1.2	**255.5**	**37/29**	**0.4**	259.1	39/32	0.4	262.8	40/35
52	246.7	30/19	1.3	253.1	35/25	1.3	**259.5**	**38/30**	**0.4**	263.2	40/33	0.4	267.0	41/36
50	250.4	31/20	1.3	257.0	36/25	1.3	**263.6**	**40/31**	**0.4**	267.4	41/33	0.4	271.3	42/36
48	253.8	32/20	1.4	260.8	37/26	1.3	**267.5**	**41/31**	**0.4**	271.4	42/34	0.4	275.3	43/37
46	257.4	32/21	1.4	264.6	37/27	1.4	**271.5**	**42/32**	**0.4**	275.4	43/35	0.4	279.4	45/38
44	261.1	33/22	1.5	268.4	38/27	1.4	**275.4**	**43/33**	**0.4**	279.4	44/36	0.4	283.5	46/39
42	264.9	34/22	1.5	272.4	39/28	1.4	**279.4**	**44/34**	**0.4**	283.5	45/37	0.4	287.7	47/39
40	268.8	35/23	1.5	276.3	40/29	1.4	**283.5**	**45/34**	**0.4**	287.6	46/37	0.4	291.9	48/40
38	272.1	34/24	1.5	279.8	39/30	1.5	**287.1**	**44/35**	**0.4**	291.3	46/38	0.4	295.5	48/41
36	275.5	34/24	1.5	283.2	39/30	1.5	**290.7**	**44/36**	**0.4**	294.9	47/39	0.4	299.2	49/42
34	278.7	35/25	1.6	286.6	40/31	1.5	**294.1**	**45/36**	**0.4**	298.3	47/39	0.4	302.7	50/42
32	281.8	35/26	1.6	289.8	40/31	1.5	**297.3**	**46/37**	**0.4**	301.6	48/40	0.4	305.9	50/43
30	284.7	35/26	1.6	292.8	40/32	1.5	**300.4**	**45/38**	**0.4**	304.6	47/41	0.4	309.0	50/44
28	287.3	35/27	1.6	295.4	40/33	1.5	**303.0**	**46/38**	**0.4**	307.3	48/41	0.5	311.8	50/44
26	289.9	36/27	1.6	298.0	41/33	1.5	**305.7**	**46/39**	**0.4**	310.0	49/42	0.5	314.5	51/45
24	292.5	37/28	1.6	300.6	41/34	1.5	**308.3**	**47/39**	**0.4**	312.7	49/42	0.5	317.2	51/45
22	294.9	37/28	1.6	303.1	42/34	1.6	**310.9**	**47/40**	**0.4**	315.3	50/43	0.5	319.9	52/46
20	297.3	37/29	1.7	305.6	42/35	1.6	**313.4**	**48/40**	**0.5**	317.9	50/43	0.5	322.5	52/46
18	299.7	38/29	1.7	308.0	43/35	1.6	**316.0**	**48/41**	**0.5**	320.5	51/44	0.5	325.1	53/47
16	301.8	38/29	1.7	310.2	43/35	1.6	**318.2**	**49/41**	**0.5**	322.7	51/44	0.5	327.4	53/47
14	303.4	37/30	1.8	312.4	42/36	1.6	**320.4**	**48/42**	**0.5**	325.0	50/45	0.5	329.8	52/48
12	305.5	38/30	1.8	314.6	43/36	1.6	**322.7**	**48/42**	**0.5**	327.3	51/45	0.5	332.1	53/48
10	307.3	38/31	1.8	316.4	43/37	1.6	**324.6**	**49/43**	**0.5**	329.3	51/46	0.5	334.0	53/49
8	307.9	39/31	1.8	317.0	44/37	1.6	**325.2**	**49/43**	**0.5**	329.9	51/46	0.5	334.6	54/49
6	308.6	39/31	1.8	317.6	44/37	1.6	**325.8**	**49/43**	**0.5**	330.5	52/46	0.5	335.2	54/49
4	309.2	39/32	1.8	318.2	44/38	1.6	**326.4**	**50/44**	**0.5**	331.0	52/47	0.5	335.8	54/50
2	309.9	40/32	1.8	318.8	45/38	1.6	**327.0**	**50/44**	**0.5**	331.6	53/47	0.5	336.3	55/50
0	310.6	40/32	1.8	319.4	45/38	1.6	**327.6**	**50/44**	**0.5**	332.2	53/47	0.5	336.9	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23R

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (BACKTRACK) RWY 23R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3588m (11771ft)	**ED**	3730m (12237ft)	**TOD**	3588m (11771ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
21 PCT-AFT CG LIMIT (USE CARD V SPEEDS)
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	236.7	29/19	1.2	242.8	33/25	1.2	**248.6**	**35/30**	**0.3**	252.0	36/32	0.3	255.3	37/35
54	244.3	30/18	1.3	250.7	34/24	1.2	**256.7**	**37/29**	**0.4**	260.4	39/32	0.4	264.1	40/35
52	247.9	30/19	1.3	254.4	35/24	1.3	**260.8**	**38/30**	**0.4**	264.5	40/32	0.4	268.4	41/35
50	251.6	31/19	1.3	258.3	36/25	1.3	**264.9**	**39/30**	**0.4**	268.8	41/33	0.4	272.8	42/36
48	255.0	31/20	1.4	262.1	36/26	1.4	**268.9**	**41/31**	**0.4**	272.8	42/34	0.4	276.8	43/37
46	258.7	32/21	1.4	265.9	37/26	1.4	**273.0**	**42/32**	**0.4**	276.9	43/35	0.4	280.9	44/38
44	262.5	33/21	1.5	269.9	38/27	1.4	**276.9**	**43/33**	**0.4**	280.9	44/35	0.4	285.0	45/38
42	266.3	34/22	1.5	273.8	39/28	1.4	**280.9**	**44/33**	**0.4**	285.0	45/36	0.4	289.1	46/39
40	270.2	35/23	1.5	277.8	40/29	1.4	**285.0**	**45/34**	**0.4**	289.1	46/37	0.4	293.4	48/40
38	273.6	33/23	1.5	281.3	38/29	1.4	**288.5**	**44/35**	**0.4**	292.7	46/38	0.4	297.0	48/41
36	277.0	34/24	1.5	284.7	39/30	1.5	**292.2**	**44/35**	**0.4**	296.3	46/38	0.4	300.7	49/41
34	280.2	35/25	1.6	288.1	40/31	1.5	**295.6**	**45/36**	**0.4**	299.8	47/39	0.4	304.2	49/42
32	283.3	35/25	1.6	291.2	40/31	1.5	**298.8**	**45/37**	**0.4**	303.1	48/40	0.4	307.4	50/43
30	286.2	35/26	1.6	294.2	40/32	1.5	**301.8**	**45/37**	**0.4**	306.1	47/40	0.4	310.5	49/43
28	288.7	35/26	1.6	296.8	40/32	1.5	**304.5**	**45/38**	**0.4**	308.8	48/41	0.5	313.3	50/44
26	291.3	36/27	1.6	299.4	41/33	1.6	**307.2**	**46/38**	**0.4**	311.5	48/41	0.5	316.0	50/44
24	293.9	36/27	1.6	302.1	41/33	1.5	**309.8**	**46/39**	**0.5**	314.3	49/42	0.5	318.8	51/45
22	296.3	37/28	1.7	304.6	42/34	1.6	**312.4**	**47/39**	**0.5**	316.9	49/42	0.5	321.4	52/45
20	298.7	37/28	1.7	307.1	42/34	1.6	**314.9**	**48/40**	**0.5**	319.4	50/43	0.5	324.1	52/46
18	301.2	38/29	1.7	309.6	43/35	1.6	**317.5**	**48/40**	**0.5**	322.0	50/43	0.5	326.7	53/46
16	303.3	38/29	1.7	311.7	43/35	1.6	**319.7**	**49/41**	**0.5**	324.3	51/44	0.5	329.0	53/47
14	304.9	37/30	1.8	313.9	42/36	1.6	**322.0**	**47/41**	**0.5**	326.6	50/44	0.5	331.3	52/47
12	307.0	38/30	1.8	316.1	42/36	1.6	**324.2**	**48/42**	**0.5**	328.9	50/45	0.5	333.7	53/48
10	308.8	38/30	1.8	317.9	43/36	1.6	**326.1**	**48/42**	**0.5**	330.9	51/45	0.5	335.6	53/48
8	309.4	38/31	1.8	318.5	43/37	1.6	**326.7**	**49/43**	**0.5**	331.4	51/46	0.5	336.2	53/49
6	310.1	39/31	1.8	319.1	44/37	1.6	**327.3**	**49/43**	**0.5**	332.0	51/46	0.5	336.8	54/49
4	310.7	39/31	1.8	319.7	44/37	1.6	**327.9**	**49/43**	**0.5**	332.6	52/46	0.5	337.4	54/49
2	311.4	39/32	1.8	320.3	44/38	1.6	**328.5**	**50/43**	**0.5**	333.2	52/47	0.5	338.0	54/50
0	312.0	40/32	1.8	320.9	45/38	1.6	**329.1**	**50/44**	**0.5**	333.8	53/47	0.5	338.5	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23R

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (BACKTRACK) RWY 23R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3588m (11771ft)	**ED**	3730m (12237ft)	**TOD**	3588m (11771ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

A/C PACKS OFF
ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	234.8	30/20	1.2	240.8	33/25	1.1	**246.5**	**35/30**	**0.3**	249.8	36/33	0.3	253.1	38/36
54	242.3	30/19	1.3	248.6	35/24	1.2	**254.6**	**37/30**	**0.3**	258.0	39/32	0.4	261.5	40/35
52	245.9	31/19	1.3	252.3	36/25	1.2	**258.4**	**39/30**	**0.4**	261.9	40/33	0.4	265.5	41/36
50	249.6	32/20	1.3	256.1	36/26	1.2	**262.3**	**40/31**	**0.4**	265.9	41/34	0.4	269.6	43/37
48	253.0	32/21	1.3	259.7	37/26	1.3	**266.0**	**41/32**	**0.4**	269.7	42/35	0.4	273.5	44/38
46	256.6	33/21	1.3	263.3	38/27	1.3	**269.8**	**42/33**	**0.4**	273.5	43/36	0.4	277.4	45/38
44	260.1	34/22	1.4	267.0	39/28	1.3	**273.6**	**43/33**	**0.4**	277.5	45/36	0.4	281.4	46/39
42	263.6	34/23	1.4	270.7	40/29	1.4	**277.5**	**44/34**	**0.4**	281.4	46/37	0.4	285.5	47/40
40	267.3	35/24	1.4	274.5	40/29	1.4	**281.4**	**45/35**	**0.4**	285.4	47/38	0.4	289.6	48/41
38	270.5	34/24	1.5	277.8	39/30	1.4	**284.9**	**44/36**	**0.4**	288.9	47/39	0.4	293.1	49/41
36	273.7	35/25	1.5	281.2	40/31	1.4	**288.4**	**45/36**	**0.4**	292.5	47/39	0.4	296.8	49/42
34	276.8	35/26	1.5	284.4	40/31	1.5	**291.8**	**46/37**	**0.4**	295.9	48/40	0.4	300.2	50/43
32	279.8	36/26	1.5	287.5	41/32	1.5	**295.0**	**46/38**	**0.4**	299.2	49/40	0.4	303.5	51/43
30	282.6	35/27	1.6	290.5	40/33	1.5	**297.9**	**46/38**	**0.4**	302.2	48/41	0.4	306.5	50/44
28	285.1	36/27	1.6	293.0	41/33	1.5	**300.6**	**46/39**	**0.4**	304.8	49/42	0.4	309.2	51/45
26	287.6	36/28	1.6	295.6	41/34	1.5	**303.2**	**47/39**	**0.4**	307.5	49/42	0.4	311.9	51/45
24	290.1	37/28	1.6	298.2	42/34	1.5	**305.9**	**47/40**	**0.4**	310.2	50/43	0.5	314.7	52/46
22	292.6	37/29	1.6	300.7	42/35	1.5	**308.4**	**48/40**	**0.4**	312.8	50/43	0.5	317.3	52/46
20	294.9	38/29	1.6	303.1	43/35	1.6	**310.9**	**48/41**	**0.4**	315.3	51/44	0.5	319.9	53/47
18	297.3	38/30	1.7	305.6	43/36	1.6	**313.4**	**49/41**	**0.5**	317.9	51/44	0.5	322.5	53/47
16	299.4	39/30	1.7	307.7	44/36	1.6	**315.6**	**49/42**	**0.5**	320.1	52/45	0.5	324.8	54/48
14	301.0	38/31	1.8	309.9	43/36	1.6	**317.8**	**48/42**	**0.5**	322.4	51/45	0.5	327.1	53/48
12	303.1	38/31	1.8	312.0	43/37	1.6	**320.1**	**49/43**	**0.5**	324.7	51/46	0.5	329.4	53/49
10	304.8	39/31	1.8	313.9	44/37	1.6	**322.0**	**49/43**	**0.5**	326.6	52/46	0.5	331.3	54/49
8	305.5	39/32	1.8	314.4	44/38	1.6	**322.6**	**50/43**	**0.5**	327.2	52/47	0.5	331.9	54/50
6	306.1	39/32	1.8	315.0	44/38	1.6	**323.1**	**50/44**	**0.5**	327.8	52/47	0.5	332.5	55/50
4	306.8	40/32	1.8	315.6	45/38	1.6	**323.7**	**50/44**	**0.5**	328.4	53/47	0.5	333.0	55/50
2	307.4	40/32	1.8	316.2	45/39	1.6	**324.3**	**51/44**	**0.5**	328.9	53/48	0.5	333.6	55/51
0	308.1	40/33	1.7	316.8	45/39	1.6	**324.9**	**51/45**	**0.5**	329.5	53/48	0.5	334.2	56/51

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23R

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **MEXICO CITY**

A/D Elev **7316ft** **B. JUAREZ INTL (MMMX)**

F/L (BACKTRACK) RWY 23R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.017% DN
TOR	3588m (11771ft)	**ED**	3730m (12237ft)	**TOD**	3588m (11771ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

ENG OUT ACCEL HT 2500FT

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70		/			/			/			/			/
66		/			/			/			/			/
62		/			/			/			/			/
58	230.9	29/19	1.2	236.7	31/24	1.1	**242.3**	**34/30**	**0.3**	245.5	35/32	0.3	248.7	36/35
54	238.7	29/18	1.2	244.8	34/24	1.2	**250.7**	**36/29**	**0.3**	254.0	37/31	0.3	257.3	38/34
52	242.3	30/19	1.3	248.6	35/24	1.2	**254.5**	**37/29**	**0.3**	257.9	38/32	0.3	261.3	40/35
50	246.0	31/19	1.3	252.3	36/25	1.2	**258.4**	**38/30**	**0.4**	261.9	40/33	0.4	265.4	41/36
48	249.6	32/20	1.3	256.1	36/26	1.2	**262.2**	**39/31**	**0.4**	265.8	41/34	0.4	269.4	42/37
46	253.2	32/21	1.3	259.7	37/26	1.3	**266.0**	**41/32**	**0.4**	269.6	42/35	0.4	273.4	43/38
44	256.6	33/21	1.3	263.3	38/27	1.3	**269.8**	**42/33**	**0.4**	273.5	43/35	0.4	277.4	45/38
42	260.2	34/22	1.4	267.0	39/28	1.3	**273.6**	**43/33**	**0.4**	277.5	44/36	0.4	281.4	46/39
40	263.8	34/23	1.4	270.7	40/29	1.4	**277.5**	**44/34**	**0.4**	281.4	45/37	0.4	285.4	47/40
38	267.1	33/23	1.4	274.2	38/29	1.4	**281.1**	**44/35**	**0.4**	285.1	46/38	0.4	289.1	48/41
36	270.4	34/24	1.4	277.6	39/30	1.4	**284.7**	**44/35**	**0.4**	288.6	46/38	0.4	292.8	49/41
34	273.5	35/25	1.5	280.9	40/31	1.4	**288.0**	**45/36**	**0.4**	292.1	47/39	0.4	296.3	49/42
32	276.5	35/25	1.5	284.0	40/31	1.4	**291.2**	**45/37**	**0.4**	295.3	48/40	0.4	299.6	50/43
30	279.3	35/26	1.5	286.9	40/32	1.5	**294.2**	**45/37**	**0.4**	298.4	47/40	0.4	302.7	49/43
28	281.9	35/26	1.5	289.6	40/32	1.5	**297.0**	**45/38**	**0.4**	301.2	48/41	0.4	305.5	50/44
26	284.4	36/27	1.6	292.2	41/33	1.5	**299.7**	**46/38**	**0.4**	303.8	48/41	0.4	308.2	50/44
24	286.9	36/27	1.6	294.8	41/33	1.5	**302.3**	**47/39**	**0.4**	306.6	49/42	0.4	311.0	51/45
22	289.4	37/28	1.6	297.3	42/34	1.5	**304.9**	**47/40**	**0.4**	309.2	50/43	0.4	313.6	52/46
20	291.8	37/28	1.6	299.9	42/34	1.5	**307.5**	**48/40**	**0.4**	311.8	50/43	0.5	316.3	52/46
18	294.3	38/29	1.6	302.4	43/35	1.5	**310.1**	**48/41**	**0.4**	314.4	51/44	0.5	318.9	53/47
16	296.4	38/29	1.6	304.6	43/35	1.5	**312.3**	**49/41**	**0.4**	316.7	51/44	0.5	321.2	53/47
14	298.1	37/30	1.7	306.7	42/36	1.6	**314.5**	**48/42**	**0.4**	318.9	50/45	0.5	323.5	52/48
12	300.2	38/30	1.7	308.8	43/36	1.6	**316.7**	**48/42**	**0.4**	321.1	51/45	0.5	325.7	53/48
10	301.9	38/31	1.7	310.6	43/37	1.6	**318.5**	**49/42**	**0.5**	323.0	51/46	0.5	327.6	53/49
8	302.5	39/31	1.7	311.1	44/37	1.6	**319.0**	**49/43**	**0.5**	323.5	51/46	0.5	328.2	54/49
6	303.1	39/31	1.7	311.7	44/37	1.6	**319.6**	**49/43**	**0.5**	324.1	52/46	0.5	328.7	54/49
4	303.8	39/32	1.7	312.3	44/38	1.6	**320.2**	**50/43**	**0.4**	324.6	52/47	0.5	329.3	54/50
2	304.4	39/32	1.7	312.9	45/38	1.6	**320.7**	**50/44**	**0.5**	325.2	52/47	0.5	329.9	55/50
0	305.0	40/32	1.7	313.4	45/38	1.6	**321.3**	**50/44**	**0.5**	325.8	53/47	0.5	330.4	55/50

P/C above 1013 + 0.2
P/C below 1013 - 0.4

PERFORMANCE RESTRICTIONS - See following page

PERFORMANCE RESTRICTIONS - Rwy 23R

ALL ENGINES Use FCOM 1 noise abatement procedure. Terminating altitude 11316ft QNH (4000ft HAA).

ENGINE OUT PROCEDURE AA 9816ft QNH (2500ft HAA). Note - Select a single pack on by 9816ft QNH (2500ft HAA).

EMERGENCY TURN PROCEDURE APAN/PUEBLA SIDs

Engine Failure BEFORE crossing R180 MEX eastbound - Follow initial SID turn. When crossing R180 MEX turn left to VOR MEX for hold or return.

Engine Failure AFTER crossing R180 MEX but BEFORE MEX 12D - Turn left to VOR MEX for hold or return.

Engine Failure AFTER MEX 12D - No restrictions provided MSA can be achieved.

TOLUCA/PASTEJE/OTMOS SIDs - Not approved.

BRITISH AIRWAYS **B747-400** LANDING DATA **CANCUN (MMUN)**

A/D Elev **22ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	12L	12R	30L	30R
Landing Distance Available	2800m / 9184ft	3500m / 11480ft	3500m / 11480ft	2800m / 9184ft
Slope	.04 DN	.01 DN	.01 UP	.04 UP
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	4kt (281.0)	15kt (10kt)	15kt (10kt)	4kt (281.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	231.0	0kt	0kt	231.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	4kt (281.0)	15kt (15kt)	15kt (15kt)	4kt (281.0)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	258.0	0kt	0kt	258.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg			750KG

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **NASSAU (MYNN)**

A/D Elev **16ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	09	14	27	32
Landing Distance Available	2522m / 8274ft	3409m / 11184ft	2522m / 8274ft	3472m / 11391ft
Slope	NIL	.03DN	NIL	.03UP
Notes		Note 1		
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	278.0 (257.0)	15kt (9kt)	278.0 (257.0)	15kt (10kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	208.0	280.0	208.0	0kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	3kt (276.0)	15kt (9kt)	3kt (276.0)	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	231.0	280.8	231.0	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. LLZ Rwy 14: - Pilots to be aware of the possibility of false localiser capture.

BRITISH AIRWAYS **B747-400** LANDING DATA **BAHRAIN (OBBI)**

A/D Elev **8ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**12L**	**12R**	**30L**	**30R**
Landing Distance Available	3657m / 12000ft	2222m / 7288ft	2410m / 7904ft	3657m / 12000ft
Notes		Note 1	Note 1	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt (12kt)	247.0 (225.0)	270.0 (247.0)	15kt (12kt)
25F Zero HW wt or TW (Autoland)				15kt (12kt)
25F Slippery Zero HW wt or TW (Manual)	1kt	NOT AUTH	NOT AUTH	1kt
25F Slippery Zero HW wt or TW (Autoland)				1kt
30F Zero HW wt or TW (Manual)	15kt (12kt)	263.0 (240.0)	280.8 (263.0)	15kt (12kt)
30F Zero HW wt or TW (Autoland)				15kt (12kt)
30F Slippery Zero HW wt or TW (Manual)	1kt	202.0	219.0	1kt
30F Slippery Zero HW wt or TW (Autoland)				1kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 12R/30L Emergency Runway** – Only to be used if 12L/30R closed. Only open if vis is 5.0km or greater

BRITISH AIRWAYS **B747-400** LANDING DATA **DAMMAM**

A/D Elev **72ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **KING FAHD INTL (OEDF)**

RUNWAY	16L	16R	34L	34R
Landing Distance Available	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft
Slope	.10 UP	.06 UP	.06 DN	.10 DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.

Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **JEDDAH**

A/D Elev 49ft Max wt Permitted (For pre flt planning) **285,760kg** **KING ABDUL AZIZ (OEJN)**

RUNWAY	16L	16C	16R	34L
Landing Distance Available	4000m/13126ft	4000m / 13126ft	3800m / 12467ft	3800m / 12467ft
Notes		1		
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	3kt	3kt
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	3kt	3kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	3kt	3kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	3kt	3kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 16C: 5.6% minima can be used up to MLW at OATs up to 54°C. Reduce ldg wt by 3000kg per °C above this OAT.

BRITISH AIRWAYS **B747-400** LANDING DATA **JEDDAH**

A/D Elev **49ft** Max wt Permitted (For pre flt planning) **285,760kg** **KING ABDUL AZIZ (OEJN)**

RUNWAY	34C	34R		
Landing Distance Available	4000m / 13126ft	4000m/13126ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)	15kt	15kt		
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt		
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)	15kt	15kt		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **RIYADH**

A/D Elev **2049ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **KING KHALID (OERK)**

RUNWAY	15L	15R	33L	33R
Landing Distance Available	4205m / 13796ft	4205m / 13796ft	4205m / 13796ft	4205m / 13796ft
Slope	.15DN	.12DN	.12UP	.15UP
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	50°/50°	50°/50°	50°/50°	50°/50°
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **RIYADH**

A/D Elev **2049ft** **KING KHALID (OERK)**

F/L (TWY G) RWY 15L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.152% DN
TOR	4205m (13795ft)	**ED**	4205m (13795ft)	**TOD**	4205m (13795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.5	40/30	0.0	277.5	45/37	0.0	**277.5**	**45/43**	**0.0**	277.5	45/45	0.0	277.5	45/45
66	291.9	39/31	0.2	292.8	45/37	0.0	**292.8**	**49/44**	**0.0**	292.8	49/47	0.0	292.8	49/49
62	303.0	41/34	1.0	308.0	47/39	0.0	**308.0**	**53/46**	**0.0**	308.0	53/49	0.0	308.0	53/53
58	313.6	44/36	1.8	322.5	49/41	0.0	**322.5**	**55/48**	**0.0**	322.5	57/51	0.0	322.5	57/55
54	321.6	44/38	2.0	331.6	48/43	0.9	**336.0**	**54/49**	**0.0**	336.0	57/53	0.0	336.0	60/56
52	325.8	45/37	2.0	335.7	49/42	1.3	**342.4**	**54/48**	**0.0**	342.4	58/51	0.0	342.4	61/55
50	329.9	45/38	2.0	339.9	49/43	1.8	**348.7**	**54/49**	**0.0**	348.7	57/52	0.0	348.7	60/56
48	333.9	45/39	2.0	344.1	50/44	2.2	**354.9**	**55/49**	**0.0**	354.9	58/53	0.0	354.9	61/56
46	338.0	46/40	2.1	348.3	51/45	2.2	**359.5**	**55/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
44	342.0	47/40	2.1	352.4	52/46	2.3	**363.9**	**56/51**	**0.3**	367.1	59/54	0.0	367.1	62/58
42	345.9	46/41	2.2	356.7	51/47	2.4	**368.5**	**56/52**	**0.5**	373.2	58/55	0.0	373.2	61/58
40	350.2	47/42	2.2	361.2	52/48	2.4	**373.3**	**57/53**	**0.6**	379.2	59/56	0.0	379.2	62/59
38	354.5	48/43	2.3	365.8	53/48	2.5	**378.2**	**58/54**	**0.7**	384.7	60/56	0.1	385.6	63/60
36	358.9	49/44	2.3	370.5	54/49	2.5	**383.1**	**58/55**	**0.9**	391.6	60/57	0.0	391.9	63/61
34	363.2	48/45	2.4	375.1	52/50	2.6	**388.3**	**57/55**	**1.0**	398.0	58/57	0.0	398.0	62/61
32	367.3	49/45	2.4	379.4	53/51	3.3	**395.8**	**57/55**	**0.6**	402.2	59/58	0.2	404.1	62/61
30	371.9	49/46	2.5	384.2	54/52	3.3	**400.6**	**58/56**	**0.6**	407.0	60/59	0.3	410.2	63/62
28	375.2	50/47	2.6	388.0	55/52	3.2	**403.8**	**58/57**	**0.7**	410.3	61/59	0.5	415.3	63/63
26	378.7	49/47	3.1	394.0	53/52	2.6	**407.1**	**58/57**	**0.7**	413.6	60/60	0.6	419.9	62/63
24	382.1	50/48	3.2	398.1	54/53	2.5	**410.5**	**58/58**	**0.7**	417.0	60/61	0.7	423.8	62/64
22	383.2	50/48	3.2	399.3	54/53	2.5	**411.7**	**59/58**	**0.7**	418.2	61/61	0.7	424.9	63/64
20	384.3	50/48	3.2	400.3	54/53	2.5	**412.7**	**59/59**	**0.7**	419.3	61/61	0.6	424.9	63/64
18	385.4	50/49	3.2	401.3	54/53	2.5	**413.8**	**59/59**	**0.7**	420.4	61/62	0.5	425.0	64/65
16	386.5	51/49	3.2	402.4	55/54	2.5	**414.8**	**59/59**	**0.7**	421.5	61/62	0.4	425.0	64/65
14	388.0	51/49	3.1	403.4	55/54	2.5	**415.9**	**60/59**	**0.7**	422.5	62/62	0.3	425.0	65/66
12	389.8	51/49	2.9	404.5	55/54	2.5	**417.0**	**60/60**	**0.7**	423.6	62/62	0.1	425.0	65/66
10	391.7	51/49	2.8	405.6	55/54	2.5	**418.1**	**60/60**	**0.7**	424.7	62/63	0.0	425.0	65/66
8	393.6	51/49	2.6	406.7	56/55	2.5	**419.3**	**61/60**	**0.6**	425.0	63/63	0.0	425.0	66/67
6	395.6	51/50	2.4	407.8	56/55	2.5	**420.4**	**61/60**	**0.5**	425.0	63/63	0.0	425.0	66/67
4	396.9	52/50	2.4	408.9	56/55	2.5	**421.6**	**61/61**	**0.4**	425.1	64/64	0.0	425.1	67/68
2	397.8	53/50	2.4	409.9	58/56	2.5	**422.6**	**63/61**	**0.3**	425.1	66/64	0.0	425.1	69/68
0	398.9	54/50	2.4	411.1	58/56	2.5	**423.8**	**63/61**	**0.1**	425.1	66/65	0.0	425.1	70/69

P/C above 1013 + 0.1
P/C below 1013 - 0.8

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **RIYADH**

A/D Elev **2049ft** **KING KHALID (OERK)**

F/L (TWY A) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.116% DN
TOR	4205m (13795ft)	**ED**	4205m (13795ft)	**TOD**	4205m (13795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.5	40/30	0.0	277.5	45/37	0.0	**277.5**	**45/43**	**0.0**	277.5	45/45	0.0	277.5	45/45
66	291.8	39/31	0.2	292.8	45/37	0.0	**292.8**	**49/44**	**0.0**	292.8	49/47	0.0	292.8	49/49
62	302.8	41/34	1.0	308.0	47/39	0.0	**308.0**	**53/46**	**0.0**	308.0	53/49	0.0	308.0	53/53
58	313.4	44/36	1.8	322.5	49/41	0.0	**322.5**	**55/48**	**0.0**	322.5	57/51	0.0	322.5	57/55
54	321.4	44/38	2.0	331.4	48/43	0.9	**336.0**	**54/49**	**0.0**	336.0	57/53	0.0	336.0	60/56
52	325.6	45/37	2.0	335.6	49/42	1.4	**342.4**	**54/48**	**0.0**	342.4	58/51	0.0	342.4	61/55
50	329.7	45/38	2.0	339.7	49/43	1.8	**348.7**	**54/49**	**0.0**	348.7	57/52	0.0	348.7	60/56
48	333.8	45/39	2.0	343.9	50/44	2.2	**354.9**	**55/49**	**0.0**	354.9	58/53	0.0	354.9	61/56
46	337.8	46/40	2.1	348.1	51/45	2.3	**359.4**	**56/50**	**0.2**	361.0	58/53	0.0	361.0	62/57
44	341.8	47/40	2.1	352.2	52/46	2.3	**363.7**	**56/51**	**0.3**	367.1	59/54	0.0	367.1	62/58
42	345.7	46/41	2.2	356.5	51/47	2.4	**368.3**	**56/52**	**0.5**	373.2	58/55	0.0	373.2	61/58
40	350.0	47/42	2.2	361.0	52/48	2.4	**373.1**	**57/53**	**0.6**	379.2	59/56	0.0	379.2	62/59
38	354.3	48/43	2.3	365.6	53/48	2.5	**378.0**	**58/54**	**0.7**	384.5	60/56	0.1	385.6	63/60
36	358.7	49/44	2.3	370.4	54/49	2.5	**382.9**	**58/55**	**0.8**	391.3	60/57	0.1	391.9	63/60
34	363.0	48/45	2.4	374.9	52/50	2.6	**388.0**	**57/55**	**1.0**	397.9	58/57	0.0	398.0	62/61
32	367.1	49/45	2.4	379.2	53/51	3.2	**395.4**	**57/55**	**0.7**	402.1	59/58	0.2	404.1	62/61
30	371.7	49/46	2.5	384.0	54/52	3.3	**400.4**	**58/56**	**0.6**	406.8	60/59	0.3	410.2	63/62
28	375.0	50/47	2.5	387.6	55/52	3.2	**403.6**	**59/57**	**0.7**	410.1	61/59	0.5	415.3	63/62
26	378.5	49/47	3.0	393.6	53/52	2.7	**406.9**	**58/57**	**0.7**	413.4	60/60	0.7	419.9	62/63
24	381.9	50/48	3.2	397.9	54/53	2.5	**410.3**	**58/58**	**0.7**	416.8	60/61	0.7	423.6	62/64
22	383.0	50/48	3.2	399.1	54/53	2.5	**411.5**	**59/58**	**0.7**	418.0	61/61	0.7	424.7	63/64
20	384.1	50/48	3.2	400.1	54/53	2.5	**412.5**	**59/59**	**0.7**	419.1	61/61	0.6	424.9	63/64
18	385.1	50/49	3.2	401.1	54/53	2.5	**413.6**	**59/59**	**0.7**	420.2	61/62	0.5	425.0	64/65
16	386.2	51/49	3.2	402.2	55/54	2.5	**414.6**	**59/59**	**0.7**	421.3	61/62	0.4	425.0	64/65
14	387.6	51/49	3.1	403.2	55/54	2.5	**415.7**	**60/59**	**0.7**	422.3	62/62	0.3	425.0	65/66
12	389.4	51/49	3.0	404.3	55/54	2.5	**416.8**	**60/60**	**0.7**	423.4	62/62	0.2	425.0	65/66
10	391.3	51/49	2.8	405.4	55/54	2.5	**417.9**	**60/60**	**0.7**	424.5	62/63	0.1	425.0	65/66
8	393.2	51/49	2.7	406.5	56/55	2.5	**419.1**	**61/60**	**0.6**	425.0	63/63	0.0	425.0	66/67
6	395.2	51/50	2.5	407.6	56/55	2.5	**420.2**	**61/60**	**0.5**	425.0	63/63	0.0	425.0	66/67
4	396.6	52/50	2.4	408.7	56/55	2.5	**421.3**	**61/61**	**0.4**	425.1	64/64	0.0	425.1	67/68
2	397.6	53/50	2.4	409.7	58/56	2.5	**422.4**	**63/61**	**0.3**	425.1	66/64	0.0	425.1	69/68
0	398.7	54/50	2.4	410.9	58/56	2.5	**423.6**	**63/61**	**0.2**	425.1	66/65	0.0	425.1	70/69

P/C above 1013 + 0.1
P/C below 1013 - 0.8

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **RIYADH**

A/D Elev **2049ft** **KING KHALID (OERK)**

F/L (TWY A) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.116% UP
TOR	4205m (13795ft)	**ED**	4205m (13795ft)	**TOD**	4205m (13795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.5	40/30	0.0	277.5	45/36	0.0	**277.5**	**45/43**	**0.0**	277.5	45/45	0.0	277.5	45/45
66	290.0	39/31	0.6	292.8	44/37	0.0	**292.8**	**49/43**	**0.0**	292.8	49/47	0.0	292.8	49/49
62	300.9	41/33	1.4	308.0	46/39	0.0	**308.0**	**53/45**	**0.0**	308.0	53/49	0.0	308.0	53/52
58	311.5	44/36	1.9	321.2	48/41	0.3	**322.5**	**55/47**	**0.0**	322.5	57/51	0.0	322.5	57/54
54	319.4	44/38	2.0	329.4	48/43	1.3	**336.0**	**53/49**	**0.0**	336.0	57/52	0.0	336.0	60/56
52	323.6	44/37	2.0	333.6	49/42	1.8	**342.4**	**54/48**	**0.0**	342.4	57/51	0.0	342.4	60/55
50	327.5	44/38	2.0	337.6	49/43	2.2	**348.4**	**53/48**	**0.0**	348.7	57/52	0.0	348.7	60/55
48	331.7	45/39	2.0	341.8	50/44	2.2	**352.8**	**54/49**	**0.2**	354.9	57/52	0.0	354.9	60/56
46	335.7	46/39	2.1	346.0	51/45	2.2	**357.1**	**55/50**	**0.4**	361.0	58/53	0.0	361.0	61/57
44	339.7	47/40	2.1	350.1	51/46	2.3	**361.4**	**56/51**	**0.6**	367.1	58/54	0.0	367.1	62/57
42	343.6	46/41	2.1	354.3	51/46	2.3	**365.9**	**56/52**	**0.6**	372.3	58/54	0.1	373.2	61/58
40	347.7	47/42	2.2	358.7	52/47	2.4	**370.7**	**57/53**	**0.7**	377.2	59/55	0.2	379.2	61/59
38	352.0	48/43	2.2	363.2	53/48	2.5	**375.5**	**57/53**	**0.7**	382.1	59/56	0.4	385.6	62/59
36	356.4	49/44	2.3	367.9	54/49	2.5	**380.4**	**58/54**	**0.7**	387.2	60/57	0.5	391.9	63/60
34	360.6	48/44	2.4	372.4	52/50	2.5	**385.0**	**57/55**	**1.0**	395.1	58/57	0.3	398.0	61/60
32	364.6	48/45	2.4	376.7	53/51	2.9	**391.1**	**57/56**	**0.9**	399.7	59/58	0.4	404.1	61/61
30	369.2	49/46	2.5	381.5	54/51	3.3	**397.9**	**58/56**	**0.7**	404.4	60/59	0.6	410.2	62/62
28	372.4	50/46	2.5	384.8	54/52	3.3	**401.1**	**58/57**	**0.7**	407.7	60/59	0.7	414.3	63/62
26	375.8	49/47	2.7	389.2	53/52	3.0	**404.4**	**58/57**	**0.7**	411.0	60/60	0.7	417.6	62/63
24	379.2	50/48	3.2	395.0	54/52	2.6	**407.8**	**58/58**	**0.7**	414.3	60/61	0.7	421.1	62/63
22	380.4	50/48	3.2	396.6	54/53	2.5	**409.0**	**59/58**	**0.7**	415.5	61/61	0.7	422.2	63/64
20	381.4	50/48	3.2	397.6	54/53	2.5	**410.0**	**59/58**	**0.7**	416.6	61/61	0.7	423.3	63/64
18	382.5	50/48	3.2	398.7	54/53	2.5	**411.1**	**59/59**	**0.7**	417.7	61/61	0.7	424.4	63/64
16	383.6	51/49	3.2	399.7	55/53	2.5	**412.1**	**59/59**	**0.7**	418.8	61/62	0.6	425.0	63/65
14	384.6	51/49	3.2	400.8	55/54	2.5	**413.2**	**60/59**	**0.7**	419.9	62/62	0.5	425.0	64/65
12	385.7	51/49	3.2	401.8	55/54	2.5	**414.3**	**60/59**	**0.7**	421.0	62/62	0.4	425.0	64/65
10	386.9	51/49	3.2	402.9	55/54	2.5	**415.4**	**60/60**	**0.7**	422.0	62/62	0.3	425.0	65/66
8	388.7	52/50	3.1	404.0	56/54	2.5	**416.5**	**60/60**	**0.7**	423.2	62/63	0.2	425.0	65/66
6	390.6	52/50	2.9	405.1	56/55	2.5	**417.6**	**61/60**	**0.7**	424.3	63/63	0.1	425.0	66/67
4	392.6	52/50	2.7	406.2	56/55	2.5	**418.8**	**61/61**	**0.6**	425.1	63/63	0.0	425.1	66/67
2	394.2	53/50	2.6	407.2	58/55	2.5	**419.9**	**63/61**	**0.5**	425.1	65/64	0.0	425.1	68/68
0	396.1	54/50	2.4	408.3	58/56	2.6	**421.1**	**63/61**	**0.4**	425.1	66/64	0.0	425.1	69/68

P/C above 1013 + 0.1
P/C below 1013 - 0.8

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **RIYADH**

A/D Elev **2049ft** **KING KHALID (OERK)**

F/L (TWY G) RWY 33R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.152% UP
TOR	4205m (13795ft)	**ED**	4205m (13795ft)	**TOD**	4205m (13795ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	277.5	39/30	0.0	277.5	45/36	0.0	**277.5**	**45/43**	**0.0**	277.5	45/45	0.0	277.5	45/45
66	289.6	39/31	0.6	292.8	44/37	0.0	**292.8**	**49/43**	**0.0**	292.8	49/46	0.0	292.8	49/49
62	300.6	41/33	1.5	308.0	46/39	0.0	**308.0**	**53/45**	**0.0**	308.0	53/48	0.0	308.0	53/52
58	311.1	44/36	2.0	320.9	48/41	0.3	**322.5**	**55/47**	**0.0**	322.5	57/51	0.0	322.5	57/54
54	319.0	44/38	2.0	329.1	48/43	1.4	**336.0**	**53/49**	**0.0**	336.0	56/52	0.0	336.0	60/56
52	323.2	44/37	2.0	333.2	49/42	1.8	**342.4**	**54/47**	**0.0**	342.4	57/51	0.0	342.4	60/54
50	327.1	44/38	2.0	337.2	49/43	2.2	**348.0**	**53/48**	**0.1**	348.7	56/52	0.0	348.7	60/55
48	331.4	45/39	2.0	341.5	50/44	2.2	**352.4**	**54/49**	**0.3**	354.9	57/52	0.0	354.9	60/56
46	335.4	46/39	2.0	345.6	51/45	2.2	**356.7**	**55/50**	**0.4**	361.0	58/53	0.0	361.0	61/57
44	339.3	47/40	2.1	349.7	51/45	2.3	**361.1**	**56/51**	**0.6**	367.1	58/53	0.0	367.1	61/57
42	343.2	46/41	2.1	353.9	51/46	2.3	**365.5**	**56/52**	**0.6**	371.9	58/54	0.1	373.2	61/58
40	347.4	47/42	2.2	358.3	52/47	2.4	**370.3**	**57/53**	**0.7**	376.8	59/55	0.2	379.2	61/59
38	351.6	48/43	2.2	362.8	53/48	2.4	**375.0**	**57/53**	**0.7**	381.7	59/56	0.4	385.6	62/59
36	356.0	49/43	2.3	367.5	54/49	2.5	**380.0**	**58/54**	**0.7**	386.6	60/57	0.5	391.9	63/60
34	360.2	48/44	2.4	372.0	52/50	2.5	**384.6**	**57/55**	**1.0**	394.4	58/57	0.4	398.0	61/60
32	364.2	48/45	2.4	376.2	53/50	2.8	**390.4**	**57/56**	**0.9**	399.3	59/58	0.5	404.1	61/61
30	368.8	49/46	2.5	381.1	54/51	3.3	**397.5**	**58/56**	**0.7**	404.0	60/59	0.6	410.2	62/61
28	372.0	50/46	2.5	384.3	54/52	3.3	**400.8**	**58/56**	**0.7**	407.3	60/59	0.7	413.9	62/62
26	375.4	49/47	2.6	388.5	53/52	3.1	**404.0**	**58/57**	**0.7**	410.6	60/60	0.7	417.2	62/63
24	378.8	50/48	3.1	394.3	54/52	2.6	**407.3**	**58/58**	**0.7**	413.9	60/60	0.7	420.6	62/63
22	380.0	50/48	3.2	396.2	54/53	2.5	**408.5**	**58/58**	**0.7**	415.1	61/61	0.7	421.8	62/64
20	381.0	50/48	3.2	397.2	54/53	2.5	**409.6**	**59/58**	**0.7**	416.2	61/61	0.7	422.9	63/64
18	382.1	50/48	3.2	398.3	54/53	2.5	**410.6**	**59/59**	**0.7**	417.2	61/61	0.7	423.9	63/64
16	383.1	51/49	3.2	399.3	54/53	2.5	**411.7**	**59/59**	**0.7**	418.3	61/62	0.7	425.0	63/64
14	384.2	51/49	3.2	400.4	55/54	2.5	**412.8**	**60/59**	**0.7**	419.4	62/62	0.6	425.0	64/65
12	385.3	51/49	3.2	401.4	55/54	2.5	**413.8**	**60/59**	**0.7**	420.5	62/62	0.5	425.0	64/65
10	386.4	51/49	3.2	402.5	55/54	2.5	**414.9**	**60/60**	**0.7**	421.6	62/62	0.3	425.0	65/66
8	388.0	52/50	3.1	403.5	56/54	2.5	**416.1**	**60/60**	**0.7**	422.7	62/63	0.2	425.0	65/66
6	389.9	52/50	2.9	404.6	56/55	2.5	**417.2**	**61/60**	**0.7**	423.9	63/63	0.1	425.0	66/67
4	391.8	52/50	2.8	405.8	56/55	2.5	**418.3**	**61/61**	**0.7**	425.0	63/63	0.0	425.1	66/67
2	393.5	53/50	2.7	406.8	58/55	2.5	**419.5**	**63/61**	**0.6**	425.1	65/64	0.0	425.1	68/68
0	395.5	54/50	2.5	407.9	58/56	2.6	**420.7**	**63/61**	**0.4**	425.1	66/64	0.0	425.1	69/68

P/C above 1013 + 0.1
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

TEHRAN

IMAM KHOMAINI INTL **(OIIE)**

TEHRAN/IMAM KHOMAINI INTL and runways 11L, 11R, 29L, 29R authorised for enroute diversion.

Use QRH data to calculate landing performance.

MASHHAD

SHAHID HASHEMI NEJAD I **(OIMM)**

MASHHAD/SHAHID HASHEMI NEJAD I and runways 13L, 13R, 31L, 31R authorised for enroute diversion.

Use QRH data to calculate landing performance.

SHIRAZ

SHAHID DASTGHAIB INTL **(OISS)**

SHIRAZ/SHAHID DASTGHAIB INTL and runways 11L, 11R, 29L, 29R authorised for enroute diversion.

Use QRH data to calculate landing performance.

TABRIZ INTL

(OITT)

TABRIZ INTL and runways 12L, 12R, 30L, 30R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **AMMAN**

A/D Elev **2395ft** Max wt Permitted (For pre flt planning) **285,760kg** **QUEEN ALIA (OJAI)**

RUNWAY	08L	08R	26L	26R
Landing Distance Available	3660m / 12008ft	3660m / 12008ft	3660m / 12008ft	3660m / 12008ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	49°	49°	49°	49°
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)	15kt (10kt)	15kt (10kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	284.0	284.0	284.0	284.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)	15kt (10kt)	15kt (10kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8	280.8	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **KUWAIT (OKBK)**

A/D Elev **204ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**15L**	**15R**	**33L**	**33R**
Landing Distance Available	3500m / 11483ft	3400m / 11152ft	3400m / 11152ft	3500m / 11483ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (9kt)	15kt (9kt)	15kt (10kt)
25F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (9kt)	15kt (9kt)	15kt (10kt)
25F Slippery Zero HW wt or TW (Manual)	0kt	281.0	281.0	0kt
25F Slippery Zero HW wt or TW (Autoland)	0kt	281.0	281.0	0kt
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (9kt)	15kt (9kt)	15kt (10kt)
30F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (9kt)	15kt (9kt)	15kt (10kt)
30F Slippery Zero HW wt or TW (Manual)	0kt	280.8	280.8	0kt
30F Slippery Zero HW wt or TW (Autoland)	0kt	280.8	280.8	0kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **KUWAIT**

A/D Elev **204ft** **(OKBK)**

F/L (END TWY) RWY 15L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.392% UP
TOR	3500m (11482ft)	**ED**	3500m (11482ft)	**TOD**	3500m (11482ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	273.0	33/23	1.9	282.3	38/29	1.7	**291.0**	**43/34**	**0.5**	296.1	45/37	0.1	297.0	48/41
66	282.6	35/25	1.9	292.2	40/30	1.8	**301.2**	**45/36**	**0.5**	306.6	47/39	0.6	312.3	49/42
62	293.6	38/27	2.0	303.6	43/33	1.9	**313.0**	**48/38**	**0.6**	318.6	50/41	0.6	324.6	52/44
58	303.1	38/29	2.1	313.7	43/35	2.1	**324.2**	**48/41**	**0.6**	330.1	50/44	0.6	336.0	52/47
54	311.3	39/31	2.2	322.2	44/37	2.3	**333.5**	**49/43**	**0.6**	339.5	51/46	0.6	345.5	53/49
52	315.3	40/30	2.2	326.4	45/36	2.3	**337.7**	**50/42**	**0.6**	343.7	52/45	0.6	349.9	54/48
50	318.9	40/31	2.3	330.3	44/37	2.3	**341.7**	**49/43**	**0.6**	347.9	51/46	0.6	354.3	54/49
48	323.0	40/32	2.3	334.3	45/38	2.3	**345.9**	**50/44**	**0.6**	352.3	52/46	0.7	358.8	54/50
46	327.0	41/33	2.3	338.4	46/39	2.3	**350.1**	**51/44**	**0.7**	356.6	53/47	0.7	363.2	55/50
44	331.0	42/34	2.3	342.3	47/39	2.4	**354.2**	**52/45**	**0.7**	360.8	54/48	0.7	367.7	56/51
42	334.6	41/34	2.3	346.3	46/40	2.5	**358.6**	**51/46**	**0.7**	365.3	53/49	0.7	372.3	55/52
40	338.8	42/35	2.4	350.6	47/41	2.5	**363.1**	**52/47**	**0.7**	370.0	54/50	0.7	377.1	56/53
38	342.9	43/36	2.4	354.8	47/42	2.6	**367.7**	**52/48**	**0.7**	374.8	55/51	0.7	382.0	57/54
36	347.1	43/37	2.4	359.3	48/43	2.6	**372.4**	**53/48**	**0.7**	379.7	55/51	0.7	386.9	58/55
34	351.2	43/37	2.5	363.6	48/43	2.7	**376.9**	**53/49**	**0.7**	384.2	55/52	1.1	394.8	56/55
32	355.0	43/38	2.5	367.7	48/44	2.7	**381.2**	**53/50**	**0.9**	389.7	55/53	1.0	399.5	57/55
30	359.2	44/39	2.6	372.3	49/45	2.7	**385.9**	**54/51**	**1.1**	397.0	56/53	0.7	404.1	58/56
28	360.9	45/39	2.6	374.0	49/45	2.9	**388.4**	**54/51**	**1.0**	398.8	56/53	0.7	405.9	58/57
26	361.8	45/40	2.6	375.0	50/45	3.0	**390.1**	**55/51**	**1.0**	399.8	56/54	0.7	406.9	58/57
24	362.8	45/40	2.7	376.1	50/46	3.2	**392.0**	**55/51**	**0.9**	400.8	56/54	0.7	408.0	59/57
22	363.8	45/40	2.7	377.1	50/46	3.3	**393.8**	**55/51**	**0.8**	401.8	57/54	0.7	409.0	59/57
20	364.8	46/40	2.7	378.2	51/46	3.5	**395.7**	**55/52**	**0.7**	402.9	57/54	0.7	410.1	59/58
18	365.8	46/41	2.7	379.3	51/46	3.5	**396.9**	**55/52**	**0.7**	403.9	57/55	0.7	411.2	59/58
16	366.9	46/41	2.7	380.4	51/47	3.5	**397.9**	**55/52**	**0.7**	405.0	57/55	0.7	412.3	60/58
14	367.9	46/41	2.7	381.5	51/47	3.5	**399.0**	**56/52**	**0.7**	406.1	58/55	0.7	413.3	60/59
12	369.0	47/41	2.7	382.6	52/47	3.5	**400.1**	**56/52**	**0.7**	407.2	58/56	0.7	414.5	60/59
10	370.1	47/42	2.7	383.7	52/48	3.5	**401.1**	**56/53**	**0.7**	408.3	58/56	0.7	415.6	61/59
8	371.1	47/42	2.7	384.8	52/48	3.5	**402.2**	**56/53**	**0.7**	409.5	59/56	0.7	416.7	61/59
6	372.2	48/42	2.7	385.9	52/48	3.5	**403.4**	**57/53**	**0.7**	410.6	59/56	0.7	417.9	61/60
4	373.3	48/42	2.8	387.2	53/48	3.5	**404.5**	**57/54**	**0.7**	411.7	59/57	0.7	419.1	61/60
2	374.5	48/43	2.9	389.2	53/48	3.3	**405.6**	**57/54**	**0.7**	412.9	59/57	0.7	420.3	62/60
0	375.6	48/43	3.1	391.2	53/49	3.1	**406.8**	**58/54**	**0.7**	414.1	60/57	0.7	421.5	62/61

P/C above 1013 + 0.2
P/C below 1013 - 0.7

IF E9 HOLD (TOR 3350M) offered. CARD acft to use **ADDITIONAL RWY DATA. B787 - use OPT intsxn E9 data.**

See Lido/mPilot AOI pages for takeoff minima. Policy ref. OM A 8.22.3.

NIL 500M

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **KUWAIT**

A/D Elev **204ft** **(OKBK)**

F/L (TWY W15) RWY 15R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.323% UP
TOR	3402m (11161ft)	**ED**	3461m (11354ft)	**TOD**	3770m (12368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	275.4	32/22	1.9	284.8	37/28	1.9	**294.5**	**41/33**	**0.3**	297.0	44/36	0.0	297.0	47/40
66	285.0	34/24	2.0	294.9	39/29	2.0	**304.9**	**44/35**	**0.6**	310.7	46/37	0.3	313.4	49/41
62	296.2	37/26	2.0	306.4	41/32	2.1	**316.8**	**46/37**	**0.6**	322.8	49/40	0.7	329.3	51/43
58	306.4	37/28	2.1	316.7	42/34	2.2	**327.9**	**47/40**	**0.6**	333.7	49/43	0.6	339.5	51/46
54	314.7	38/30	2.1	325.4	43/36	2.3	**336.7**	**48/42**	**0.6**	342.6	50/45	0.6	348.6	52/48
52	318.9	39/29	2.2	329.7	44/35	2.3	**341.0**	**49/41**	**0.6**	346.9	51/44	0.6	353.1	53/47
50	322.5	38/30	2.2	333.5	43/36	2.3	**345.1**	**48/42**	**0.6**	351.3	50/45	0.6	357.7	52/48
48	326.7	39/31	2.2	337.6	44/37	2.4	**349.4**	**49/42**	**0.6**	355.7	51/45	0.7	362.3	53/49
46	330.8	40/32	2.2	341.7	45/38	2.4	**353.7**	**50/43**	**0.6**	360.1	52/46	0.7	366.8	54/49
44	334.6	41/33	2.2	345.7	46/38	2.4	**357.9**	**51/44**	**0.7**	364.5	53/47	0.7	371.4	55/50
42	338.4	40/33	2.3	349.7	45/39	2.5	**362.3**	**49/45**	**0.7**	369.1	52/48	0.7	376.1	54/51
40	342.5	41/34	2.3	354.0	45/40	2.6	**366.8**	**50/46**	**0.7**	373.8	52/49	0.7	381.0	55/52
38	346.6	41/35	2.4	358.4	46/41	2.6	**371.5**	**51/47**	**0.7**	378.7	53/50	0.7	385.8	55/53
36	350.9	42/36	2.4	362.9	47/41	2.7	**376.4**	**52/47**	**0.7**	383.6	54/50	1.0	393.5	56/53
34	355.1	41/36	2.5	367.4	46/42	2.7	**381.1**	**51/48**	**0.8**	389.3	53/51	1.0	399.2	55/54
32	359.0	42/37	2.5	371.6	47/43	2.8	**385.4**	**52/49**	**1.1**	396.4	53/51	0.7	403.4	56/54
30	363.4	43/38	2.6	376.2	48/44	3.2	**392.4**	**52/49**	**0.9**	401.0	54/52	0.7	408.0	56/55
28	365.0	43/38	2.6	378.0	48/44	3.5	**395.5**	**52/49**	**0.7**	402.7	55/52	0.7	409.9	57/56
26	366.0	43/38	2.6	379.1	48/44	3.5	**396.8**	**53/50**	**0.7**	403.8	55/52	0.7	410.9	57/56
24	367.0	44/39	2.6	380.1	49/45	3.5	**397.8**	**53/50**	**0.7**	404.8	55/53	0.7	411.9	57/56
22	368.0	44/39	2.6	381.2	49/45	3.5	**398.8**	**53/50**	**0.7**	405.8	55/53	0.7	413.0	58/56
20	369.1	44/39	2.6	382.2	49/45	3.5	**399.9**	**53/50**	**0.7**	406.9	56/53	0.7	414.0	58/57
18	370.1	44/39	2.6	383.3	49/45	3.5	**400.9**	**54/50**	**0.7**	408.0	56/54	0.7	415.1	58/57
16	371.2	45/40	2.6	384.4	50/46	3.5	**402.0**	**54/51**	**0.7**	409.1	56/54	0.7	416.2	58/57
14	372.2	45/40	2.7	385.5	50/46	3.5	**403.0**	**54/51**	**0.7**	410.2	56/54	0.7	417.4	59/57
12	373.3	45/40	2.7	386.6	50/46	3.5	**404.1**	**55/51**	**0.7**	411.3	57/54	0.7	418.5	59/58
10	374.4	46/40	2.8	388.3	50/46	3.4	**405.2**	**55/52**	**0.7**	412.4	57/55	0.7	419.7	59/58
8	375.5	46/41	2.9	390.2	51/46	3.2	**406.3**	**55/52**	**0.7**	413.5	57/55	0.7	420.8	60/58
6	376.6	46/41	3.1	392.2	51/47	3.1	**407.5**	**55/52**	**0.7**	414.7	58/55	0.7	421.9	60/58
4	377.8	46/41	3.3	394.2	51/47	2.9	**408.6**	**56/52**	**0.7**	415.8	58/55	0.7	423.1	60/59
2	378.9	47/42	3.4	396.1	51/47	2.7	**409.8**	**56/53**	**0.7**	417.0	58/56	0.7	424.3	60/59
0	380.1	47/42	3.4	397.3	51/47	2.7	**411.0**	**56/53**	**0.7**	418.2	58/56	0.7	425.5	61/59

P/C above 1013 + 0.1
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.
NIL 500M

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **KUWAIT**

A/D Elev **204ft** **(OKBK)**

F/L (TWY W1) RWY 33L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.323% DN
TOR	3402m (11161ft)	**ED**	3461m (11354ft)	**TOD**	3770m (12368ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	280.0	32/23	1.9	289.5	37/28	1.5	**297.0**	**42/34**	**0.0**	297.0	45/37	0.0	297.0	49/41
66	290.0	34/24	2.0	299.8	39/30	2.0	**309.7**	**44/35**	**0.4**	313.4	47/38	0.0	313.4	50/42
62	301.3	37/27	2.0	311.5	42/32	2.1	**321.8**	**47/38**	**0.6**	327.7	49/40	0.2	329.8	52/44
58	311.6	37/29	2.1	321.9	42/35	2.2	**332.8**	**47/40**	**0.6**	338.3	49/43	0.5	343.7	51/46
54	320.1	38/31	2.1	330.8	43/36	2.2	**341.7**	**48/42**	**0.6**	347.5	50/45	0.6	353.5	52/48
52	324.3	39/30	2.1	335.0	44/35	2.2	**346.0**	**49/41**	**0.6**	351.9	51/44	0.6	358.1	53/47
50	328.1	39/31	2.2	339.0	43/36	2.3	**350.4**	**48/42**	**0.6**	356.5	51/45	0.6	362.9	53/48
48	332.2	39/32	2.2	343.1	44/37	2.3	**354.7**	**49/43**	**0.6**	361.0	51/46	0.7	367.6	54/49
46	336.2	40/32	2.2	347.3	45/38	2.4	**359.1**	**50/44**	**0.7**	365.6	52/47	0.7	372.3	54/50
44	340.2	41/33	2.2	351.4	46/39	2.4	**363.5**	**51/44**	**0.7**	370.1	53/47	0.7	376.9	55/51
42	344.0	40/34	2.3	355.5	45/39	2.5	**368.0**	**50/45**	**0.7**	374.8	52/48	0.7	381.8	54/51
40	348.2	41/35	2.3	359.9	46/40	2.6	**372.7**	**51/46**	**0.7**	379.6	53/49	0.7	386.7	55/52
38	352.5	42/35	2.4	364.5	46/41	2.6	**377.5**	**51/47**	**0.7**	384.5	53/50	1.0	394.8	55/52
36	356.9	42/36	2.5	369.2	47/42	2.6	**382.4**	**52/48**	**0.9**	391.2	54/50	0.9	400.1	56/53
34	361.2	42/37	2.5	373.8	46/43	2.7	**387.5**	**51/48**	**1.1**	398.0	53/51	0.7	404.8	55/54
32	365.3	42/38	2.6	378.1	47/43	3.4	**394.9**	**52/49**	**0.7**	402.1	54/51	0.7	409.1	56/55
30	369.8	43/38	2.6	382.8	48/44	3.4	**400.0**	**52/49**	**0.7**	406.8	54/52	0.7	413.8	57/55
28	371.5	43/39	2.6	384.6	48/44	3.4	**401.7**	**53/50**	**0.7**	408.6	55/53	0.7	415.6	57/56
26	372.5	44/39	2.6	385.6	49/45	3.4	**402.7**	**53/50**	**0.7**	409.7	55/53	0.7	416.6	57/56
24	373.5	44/39	2.6	386.7	49/45	3.4	**403.8**	**53/50**	**0.7**	410.7	55/53	0.7	417.7	58/56
22	374.6	44/39	2.8	388.4	49/45	3.3	**404.8**	**53/50**	**0.7**	411.7	56/53	0.7	418.8	58/57
20	375.6	44/40	2.9	390.2	49/45	3.1	**405.9**	**54/51**	**0.7**	412.8	56/54	0.7	419.9	58/57
18	376.7	45/40	3.1	392.1	49/45	3.0	**407.0**	**54/51**	**0.7**	413.9	56/54	0.7	421.0	58/57
16	377.8	45/40	3.2	394.0	49/45	2.8	**408.1**	**54/51**	**0.7**	415.0	56/54	0.7	422.1	59/57
14	378.9	45/40	3.4	395.9	49/46	2.7	**409.2**	**54/51**	**0.7**	416.1	57/54	0.7	423.2	59/58
12	380.0	45/41	3.4	397.0	50/46	2.7	**410.3**	**55/52**	**0.7**	417.2	57/55	0.7	424.3	59/58
10	381.1	46/41	3.4	398.1	50/46	2.7	**411.4**	**55/52**	**0.7**	418.4	57/55	0.7	425.5	59/58
8	382.2	46/41	3.4	399.2	50/46	2.7	**412.5**	**55/52**	**0.7**	419.5	58/55	0.7	426.6	60/58
6	383.4	46/41	3.4	400.3	51/47	2.7	**413.6**	**56/52**	**0.7**	420.7	58/56	0.7	427.8	60/59
4	384.5	47/42	3.4	401.4	51/47	2.7	**414.8**	**56/53**	**0.7**	421.8	58/56	0.7	429.0	60/59
2	385.7	47/42	3.4	402.5	51/47	2.7	**416.0**	**56/53**	**0.7**	423.0	58/56	0.7	430.3	61/59
0	386.8	47/42	3.4	403.7	51/47	2.7	**417.1**	**56/53**	**0.7**	424.2	59/56	0.7	431.4	61/60

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.
NIL 500M

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **KUWAIT**

A/D Elev **204ft** **(OKBK)**

F/L (TWY E1) RWY 33R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.392% DN
TOR	3500m (11482ft)	**ED**	3500m (11482ft)	**TOD**	3500m (11482ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	275.5	33/23	1.9	284.9	37/28	1.7	**293.6**	**42/33**	**0.3**	297.0	45/37	0.0	297.0	48/40
66	285.2	35/24	1.9	294.9	40/29	1.8	**304.0**	**45/35**	**0.5**	309.4	47/38	0.4	313.4	49/41
62	296.3	37/26	2.0	306.5	42/32	1.9	**315.9**	**47/38**	**0.6**	321.5	50/41	0.6	327.4	52/44
58	305.9	38/29	2.1	316.3	43/34	2.2	**327.2**	**48/40**	**0.6**	333.0	50/43	0.6	338.9	52/46
54	314.2	39/31	2.1	324.9	44/36	2.3	**336.2**	**48/42**	**0.6**	342.2	51/45	0.6	348.2	53/48
52	318.3	40/30	2.2	329.2	45/35	2.3	**340.6**	**49/41**	**0.6**	346.5	51/44	0.6	352.6	54/47
50	321.9	39/31	2.2	333.0	44/36	2.3	**344.6**	**49/42**	**0.6**	350.8	51/45	0.6	357.2	53/48
48	326.1	40/31	2.2	337.1	45/37	2.4	**348.9**	**50/43**	**0.6**	355.2	52/46	0.7	361.7	54/49
46	330.2	41/32	2.2	341.2	46/38	2.4	**353.1**	**51/44**	**0.7**	359.6	53/47	0.7	366.3	55/50
44	334.0	41/33	2.2	345.2	46/39	2.4	**357.3**	**51/44**	**0.7**	363.9	54/47	0.7	370.8	56/51
42	337.8	41/34	2.3	349.2	45/39	2.5	**361.7**	**50/45**	**0.7**	368.6	52/48	0.7	375.6	54/51
40	341.9	41/35	2.3	353.5	46/40	2.6	**366.3**	**51/46**	**0.7**	373.3	53/49	0.7	380.4	55/52
38	346.0	42/35	2.4	357.9	47/41	2.6	**371.0**	**52/47**	**0.7**	378.1	54/50	0.7	385.3	56/53
36	350.3	43/36	2.4	362.4	48/42	2.7	**375.8**	**53/48**	**0.7**	383.0	55/51	1.0	392.6	57/54
34	354.5	42/37	2.5	366.8	47/43	2.7	**380.4**	**52/49**	**0.8**	388.2	54/51	1.0	398.5	56/54
32	358.4	43/37	2.5	371.0	48/43	2.7	**384.7**	**53/49**	**1.1**	395.6	54/52	0.7	402.7	56/55
30	362.7	44/38	2.6	375.6	49/44	3.1	**391.3**	**53/50**	**0.9**	400.4	55/52	0.7	407.4	57/56
28	364.4	44/39	2.6	377.4	49/44	3.4	**394.4**	**53/50**	**0.8**	402.1	55/53	0.7	409.2	58/56
26	365.4	44/39	2.6	378.4	49/45	3.5	**396.1**	**53/50**	**0.7**	403.1	56/53	0.7	410.3	58/56
24	366.4	45/39	2.6	379.5	49/45	3.5	**397.1**	**54/50**	**0.7**	404.1	56/53	0.7	411.3	58/56
22	367.4	45/39	2.6	380.6	50/45	3.5	**398.2**	**54/50**	**0.7**	405.2	56/53	0.7	412.3	58/57
20	368.4	45/40	2.6	381.6	50/45	3.5	**399.2**	**54/51**	**0.7**	406.3	56/54	0.7	413.4	59/57
18	369.4	45/40	2.7	382.7	50/46	3.5	**400.3**	**54/51**	**0.7**	407.3	57/54	0.7	414.5	59/57
16	370.5	46/40	2.7	383.8	51/46	3.5	**401.3**	**55/51**	**0.7**	408.4	57/54	0.7	415.6	59/58
14	371.5	46/40	2.7	384.9	51/46	3.5	**402.4**	**55/51**	**0.7**	409.6	57/55	0.7	416.7	59/58
12	372.6	46/41	2.7	386.0	51/47	3.5	**403.5**	**55/52**	**0.7**	410.7	58/55	0.7	417.8	60/58
10	373.7	46/41	2.7	387.2	51/47	3.5	**404.6**	**56/52**	**0.7**	411.7	58/55	0.7	419.0	60/58
8	374.8	47/41	2.9	389.2	51/47	3.3	**405.7**	**56/52**	**0.7**	412.9	58/55	0.7	420.2	60/59
6	375.9	47/41	3.0	391.1	52/47	3.1	**406.8**	**56/53**	**0.7**	414.0	58/56	0.7	421.3	61/59
4	377.1	47/42	3.2	393.1	52/47	3.0	**408.0**	**56/53**	**0.7**	415.2	59/56	0.7	422.5	61/59
2	378.2	47/42	3.4	395.2	52/47	2.8	**409.2**	**57/53**	**0.7**	416.3	59/56	0.7	423.6	61/59
0	379.4	48/42	3.5	396.7	52/47	2.7	**410.3**	**57/53**	**0.7**	417.5	59/56	0.7	424.8	61/60

P/C above 1013 + 0.2
P/C below 1013 - 0.7

See Lido/mPilot AOI pages for takeoff
minima. Policy ref. OM A 8.22.3.
NIL 500M

BRITISH AIRWAYS **B747-400** LANDING DATA **ABU DHABI INTERNATIONAL (OMAA)**

A/D Elev **83ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	13L	13R	31L	31R
Landing Distance Available	4100m / 13451ft	4100m / 13451ft	4100m / 13451ft	4100m / 13451ft
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt		15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt		5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt		15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt		5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **AL AIN (OMAL)**

A/D Elev **866ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY (STATUS)	**01**	**19**		
Landing Distance Available	4005m / 13140ft	4005m / 13140ft		
Notes				
WAT LIMIT °C : Man / Auto	52°	52°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DUBAI**

A/D Elev **62ft** Max wt Permitted (For pre flt planning) **285,760kg** **(OMDB)**

RUNWAY	12L	12R	30L	30R
Landing Distance Available	3600m / 11811ft	3600m /11811ft	4315m / 14157ft	4000m / 13123ft
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°/-	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt (12kt)			15kt
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	1kt			5kt
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt (12kt)			15kt
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	1kt			5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **62ft** **INTL (OMDB)**

F/L (TWY M1/N1) RWY 12L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.158% UP
TOR	4049m (13284ft)	**ED**	4109m (13480ft)	**TOD**	4109m (13480ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	291.4	42/34	1.2	297.2	47/39	0.3	**298.5**	**51/46**	**0.0**	298.5	51/49	0.0	298.5	51/51
66	304.5	43/35	1.3	310.8	49/40	0.8	**315.0**	**54/47**	**0.0**	315.0	55/50	0.0	315.0	55/54
62	318.2	46/37	1.4	325.0	51/43	1.3	**331.3**	**57/49**	**0.0**	331.4	59/52	0.0	331.4	59/56
58	330.1	46/39	1.5	337.8	51/45	1.4	**344.7**	**56/51**	**0.2**	347.1	59/54	0.0	347.1	62/58
54	338.9	47/41	1.9	348.6	51/47	1.6	**356.6**	**57/53**	**0.4**	360.6	59/56	0.1	361.5	63/60
52	343.1	48/40	2.1	353.7	52/46	1.7	**362.2**	**58/52**	**0.4**	366.4	60/55	0.2	367.9	63/58
50	347.3	47/41	2.2	358.4	52/47	1.9	**368.0**	**57/53**	**0.4**	372.3	59/56	0.2	374.3	62/59
48	351.6	48/42	2.3	363.0	53/48	2.2	**373.8**	**58/53**	**0.4**	378.2	60/56	0.3	380.7	63/60
46	355.9	49/43	2.3	367.6	53/48	2.4	**379.4**	**58/54**	**0.5**	383.9	61/57	0.3	387.1	64/60
44	360.2	50/44	2.4	372.1	54/49	2.5	**384.7**	**59/55**	**0.5**	389.9	62/58	0.4	393.5	64/61
42	364.6	48/45	2.5	376.9	53/50	2.8	**390.9**	**58/55**	**0.5**	396.3	60/58	0.4	399.9	62/61
40	369.2	49/45	2.5	381.7	54/51	3.1	**397.3**	**58/56**	**0.5**	401.8	61/59	0.5	406.3	63/62
38	374.0	50/46	2.5	386.6	55/52	3.3	**402.9**	**59/56**	**0.5**	407.9	61/60	0.5	412.5	64/63
36	378.9	51/47	3.2	394.9	55/52	2.6	**408.0**	**60/57**	**0.6**	413.8	62/60	0.5	418.6	64/63
34	383.6	50/48	3.3	400.0	54/52	2.5	**412.6**	**59/58**	**0.7**	419.3	61/61	0.5	424.4	63/64
32	388.7	51/48	3.1	404.2	55/53	2.6	**417.0**	**60/59**	**0.7**	423.8	62/62	0.6	429.6	64/65
30	396.5	51/49	2.5	408.9	56/54	2.6	**421.8**	**60/60**	**0.7**	428.6	63/63	0.7	435.3	65/66
28	397.7	51/49	2.5	410.2	56/54	2.6	**423.0**	**61/60**	**0.7**	430.0	63/63	0.6	436.3	65/66
26	398.7	52/49	2.5	411.2	56/55	2.6	**424.1**	**61/60**	**0.7**	431.0	63/63	0.6	437.0	65/66
24	399.8	52/49	2.5	412.2	56/55	2.6	**425.2**	**61/61**	**0.7**	432.1	63/63	0.6	437.7	66/67
22	400.8	52/50	2.5	413.3	57/55	2.6	**426.3**	**62/61**	**0.7**	433.1	64/64	0.5	438.3	66/67
20	401.8	52/50	2.5	414.4	57/55	2.6	**427.4**	**62/61**	**0.6**	433.8	64/64	0.5	438.9	67/67
18	402.9	53/50	2.5	415.4	57/56	2.6	**428.5**	**62/61**	**0.6**	434.5	64/64	0.5	439.6	67/68
16	404.0	53/50	2.5	416.6	57/56	2.6	**429.7**	**62/62**	**0.6**	435.2	65/65	0.5	440.2	67/68
14	405.0	53/51	2.5	417.7	58/56	2.6	**430.7**	**63/62**	**0.5**	435.9	65/65	0.5	440.8	68/68
12	406.1	53/51	2.5	418.8	58/56	2.5	**431.4**	**63/62**	**0.5**	436.5	66/65	0.5	441.5	68/69
10	407.3	54/51	2.5	420.0	58/57	2.4	**432.1**	**63/63**	**0.5**	437.2	66/66	0.5	442.1	69/69
8	408.4	54/51	2.5	421.1	59/57	2.3	**432.8**	**64/63**	**0.5**	437.8	66/66	0.5	442.4	69/70
6	409.6	54/52	2.5	422.3	59/57	2.3	**433.6**	**64/63**	**0.5**	438.4	67/67	0.4	442.5	70/70
4	410.7	54/52	2.5	423.4	59/58	2.2	**434.2**	**65/64**	**0.5**	439.1	67/67	0.3	442.5	70/71
2	411.8	55/52	2.6	424.6	59/58	2.1	**434.9**	**65/64**	**0.5**	439.7	68/67	0.3	442.5	71/71
0	413.0	55/52	2.5	425.7	60/58	2.0	**435.6**	**65/64**	**0.5**	440.3	68/68	0.2	442.5	71/72

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **62ft** **INTL (OMDB)**

F/L (TWY K1/M4) RWY 12R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.346% UP
TOR	4315m (14156ft)	**ED**	4504m (14776ft)	**TOD**	4375m (14353ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	298.5	46/39	0.0	298.5	51/45	0.0	**298.5**	**51/51**	**0.0**	298.5	51/51	0.0	298.5	51/51
66	314.6	47/40	0.1	315.0	53/46	0.0	**315.0**	**55/53**	**0.0**	315.0	55/55	0.0	315.0	55/55
62	327.7	49/42	0.7	331.4	55/48	0.0	**331.4**	**59/55**	**0.0**	331.4	59/58	0.0	331.4	59/59
58	337.8	50/45	1.9	347.1	54/50	0.0	**347.1**	**61/57**	**0.0**	347.1	63/60	0.0	347.1	63/63
54	346.8	51/47	2.2	357.6	55/52	0.8	**361.5**	**61/58**	**0.0**	361.5	65/62	0.0	361.5	67/66
52	351.2	52/46	2.2	362.3	56/51	1.1	**367.9**	**62/57**	**0.0**	367.9	65/61	0.0	367.9	68/64
50	355.7	51/47	2.3	367.2	56/52	1.4	**374.3**	**61/58**	**0.0**	374.3	64/61	0.0	374.3	68/65
48	360.3	52/48	2.3	372.0	57/53	1.7	**380.7**	**62/59**	**0.0**	380.7	65/62	0.0	380.7	68/66
46	364.8	53/49	2.4	376.8	58/54	2.1	**387.1**	**63/59**	**0.0**	387.1	66/63	0.0	387.1	69/67
44	369.2	54/49	2.5	381.5	58/55	2.4	**393.5**	**63/60**	**0.0**	393.5	66/63	0.0	393.5	70/67
42	373.9	52/50	2.5	386.3	57/56	2.7	**399.9**	**61/60**	**0.0**	399.9	65/64	0.0	399.9	68/68
40	378.7	53/51	3.1	394.2	57/56	2.4	**406.3**	**62/61**	**0.0**	406.3	65/64	0.0	406.3	68/68
38	383.6	54/52	3.2	399.7	58/56	2.5	**412.0**	**63/62**	**0.2**	413.7	66/65	0.0	413.7	69/69
36	389.7	55/52	3.0	404.5	59/57	2.5	**416.9**	**64/63**	**0.4**	421.0	66/66	0.0	421.0	69/69
34	397.1	54/53	2.4	409.1	58/58	2.5	**421.6**	**63/63**	**0.6**	428.0	65/66	0.0	428.0	68/70
32	401.3	54/53	2.4	413.4	59/59	2.5	**426.0**	**64/64**	**0.7**	432.7	66/67	0.2	434.7	69/70
30	405.9	55/54	2.5	418.2	60/60	2.5	**430.9**	**65/65**	**0.7**	437.6	67/68	0.4	441.8	69/71
28	407.1	55/54	2.5	419.5	60/60	2.5	**432.2**	**65/65**	**0.7**	438.9	67/68	0.3	442.3	70/71
26	408.2	56/55	2.5	420.5	60/60	2.5	**433.2**	**65/66**	**0.7**	440.1	67/68	0.2	442.3	70/72
24	409.2	56/55	2.5	421.6	61/61	2.5	**434.3**	**65/66**	**0.7**	441.1	68/69	0.1	442.4	71/72
22	410.3	56/55	2.5	422.7	61/61	2.5	**435.4**	**66/66**	**0.7**	442.2	68/69	0.0	442.4	71/73
20	411.4	56/56	2.5	423.7	61/61	2.6	**436.5**	**66/66**	**0.6**	442.4	68/69	0.0	442.4	72/73
18	412.4	57/56	2.5	424.8	61/61	2.6	**437.7**	**66/67**	**0.5**	442.4	69/70	0.0	442.4	72/74
16	413.5	57/56	2.5	426.0	62/62	2.6	**438.9**	**67/67**	**0.4**	442.4	69/70	0.0	442.4	73/74
14	414.6	57/56	2.5	427.1	62/62	2.6	**440.0**	**67/67**	**0.2**	442.4	70/71	0.0	442.4	73/75
12	415.7	58/57	2.5	428.3	62/62	2.6	**441.2**	**67/68**	**0.1**	442.4	70/71	0.0	442.4	74/75
10	416.9	58/57	2.5	429.4	63/62	2.6	**442.3**	**67/68**	**0.0**	442.4	71/72	0.0	442.4	74/76
8	418.0	58/57	2.5	430.6	63/63	2.4	**442.4**	**68/68**	**0.0**	442.4	71/72	0.0	442.4	75/76
6	419.2	58/57	2.5	431.8	63/63	2.1	**442.5**	**69/69**	**0.0**	442.5	72/73	0.0	442.5	75/77
4	420.4	59/58	2.5	433.0	63/63	1.9	**442.5**	**69/69**	**0.0**	442.5	72/73	0.0	442.5	76/77
2	421.6	59/58	2.5	434.2	64/64	1.7	**442.5**	**70/70**	**0.0**	442.5	73/74	0.0	442.5	76/78
0	422.7	59/58	2.5	435.4	64/64	1.4	**442.5**	**70/70**	**0.0**	442.5	74/74	0.0	442.5	77/78

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **62ft** **INTL (OMDB)**

F/L (K17/M20) RWY 30L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.336% DN
TOR	4447m (14589ft)	**ED**	4682m (15360ft)	**TOD**	4507m (14786ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	298.1	50/43	0.1	298.5	51/49	0.0	**298.5**	**51/51**	**0.0**	298.5	51/51	0.0	298.5	51/51
66	313.2	52/44	0.4	315.0	55/50	0.0	**315.0**	**55/55**	**0.0**	315.0	55/55	0.0	315.0	55/55
62	328.6	54/47	0.6	331.4	59/53	0.0	**331.4**	**59/59**	**0.0**	331.4	59/59	0.0	331.4	59/59
58	342.8	53/49	0.9	347.1	59/54	0.0	**347.1**	**63/61**	**0.0**	347.1	63/63	0.0	347.1	63/63
54	355.5	54/50	1.1	360.9	59/56	0.1	**361.5**	**66/63**	**0.0**	361.5	67/66	0.0	361.5	67/67
52	361.5	54/49	1.1	367.2	60/55	0.1	**367.9**	**67/62**	**0.0**	367.9	68/65	0.0	367.9	68/68
50	367.6	54/50	1.2	373.6	59/56	0.1	**374.3**	**66/63**	**0.0**	374.3	69/66	0.0	374.3	70/69
48	373.0	54/51	1.4	380.1	60/56	0.1	**380.7**	**66/63**	**0.0**	380.7	70/67	0.0	380.7	71/70
46	377.8	55/51	1.7	386.1	60/57	0.2	**387.1**	**67/64**	**0.0**	387.1	70/67	0.0	387.1	72/71
44	382.4	56/52	1.9	392.1	61/58	0.3	**393.5**	**68/64**	**0.0**	393.5	71/68	0.0	393.5	72/71
42	387.6	55/53	2.1	398.0	59/58	0.4	**399.9**	**66/65**	**0.0**	399.9	69/68	0.0	399.9	72/72
40	395.9	55/53	1.6	404.1	60/59	0.4	**406.3**	**66/66**	**0.0**	406.3	70/69	0.0	406.3	73/73
38	400.7	56/54	2.0	410.9	61/59	0.6	**413.7**	**67/66**	**0.0**	413.7	70/70	0.0	413.7	73/73
36	405.5	56/55	2.4	417.5	61/60	0.7	**421.0**	**67/67**	**0.0**	421.0	71/70	0.0	421.0	74/74
34	410.3	56/56	2.4	422.3	60/61	1.1	**428.0**	**66/67**	**0.0**	428.0	69/71	0.0	428.0	73/74
32	414.6	57/56	2.4	426.7	61/62	1.6	**434.7**	**67/68**	**0.0**	434.7	70/71	0.0	434.7	73/75
30	419.4	57/57	2.4	431.6	62/62	2.0	**441.8**	**67/68**	**0.0**	441.8	70/72	0.0	441.8	74/76
28	420.7	58/57	2.4	432.9	62/63	1.9	**442.3**	**68/69**	**0.0**	442.3	71/72	0.0	442.3	74/76
26	421.7	58/58	2.4	433.9	63/63	1.7	**442.3**	**68/69**	**0.0**	442.3	71/73	0.0	442.3	75/77
24	422.8	58/58	2.4	435.0	63/63	1.5	**442.4**	**69/70**	**0.0**	442.4	72/73	0.0	442.4	75/77
22	423.9	58/58	2.4	436.1	63/64	1.3	**442.4**	**69/70**	**0.0**	442.4	72/74	0.0	442.4	76/77
20	425.0	59/59	2.4	437.2	63/64	1.0	**442.4**	**70/71**	**0.0**	442.4	73/74	0.0	442.4	76/78
18	425.8	59/59	2.5	438.4	64/64	0.8	**442.4**	**70/71**	**0.0**	442.4	73/75	0.0	442.4	77/78
16	425.8	60/59	2.6	438.8	64/65	0.7	**442.4**	**71/71**	**0.0**	442.4	74/75	0.0	442.4	77/79
14	425.8	60/60	2.7	439.2	65/65	0.6	**442.4**	**71/72**	**0.0**	442.4	74/76	0.0	442.4	78/79
12	425.8	61/60	2.7	439.5	65/65	0.6	**442.4**	**72/72**	**0.0**	442.4	75/76	0.0	442.4	78/80
10	425.8	61/61	2.8	439.9	65/66	0.5	**442.4**	**72/73**	**0.0**	442.4	75/77	0.0	442.4	79/80
8	425.8	62/61	2.9	440.2	66/66	0.4	**442.4**	**73/73**	**0.0**	442.4	76/77	0.0	442.4	79/81
6	425.8	62/62	2.9	440.5	66/67	0.4	**442.5**	**73/74**	**0.0**	442.5	76/78	0.0	442.5	80/81
4	425.8	63/62	3.0	440.8	67/67	0.3	**442.5**	**74/74**	**0.0**	442.5	77/78	0.0	442.5	80/82
2	425.8	63/62	3.1	441.1	67/68	0.3	**442.5**	**74/75**	**0.0**	442.5	78/79	0.0	442.5	81/82
0	425.8	64/63	3.1	441.5	68/68	0.2	**442.5**	**75/75**	**0.0**	442.5	78/79	0.0	442.5	82/83

P/C above 1013 + 0.0
P/C below 1013 - 0.7

PERFORMANCE RESTRICTION.

Rwy 30L full length declarded dists are shown from Twy K17/M20 intsxn. A/c entering from Twy K18/M21 intsxn must pull forward to Twy K17/M20 position prior to commencing take-off run.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **62ft** **INTL (OMDB)**

F/L (M15A/N12) RWY 30R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.149% DN
TOR	4300m (14107ft)	**ED**	4426m (14520ft)	**TOD**	4360m (14304ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	294.7	47/40	0.8	298.5	51/45	0.0	**298.5**	**51/51**	**0.0**	298.5	51/51	0.0	298.5	51/51
66	309.0	48/40	1.0	314.1	54/46	0.2	**315.0**	**55/53**	**0.0**	315.0	55/55	0.0	315.0	55/55
62	323.7	51/43	1.1	329.1	56/49	0.5	**331.4**	**59/55**	**0.0**	331.4	59/58	0.0	331.4	59/59
58	337.3	50/45	1.1	343.0	56/51	0.8	**347.1**	**62/57**	**0.0**	347.1	63/60	0.0	347.1	63/63
54	348.8	51/47	1.3	355.5	56/52	1.2	**361.4**	**62/59**	**0.0**	361.5	65/62	0.0	361.5	67/66
52	353.8	51/46	1.5	361.3	57/51	1.2	**367.5**	**63/57**	**0.0**	367.9	66/61	0.0	367.9	68/64
50	358.6	51/47	1.8	367.4	56/52	1.3	**373.8**	**62/58**	**0.1**	374.3	65/62	0.0	374.3	68/65
48	363.3	52/47	2.0	373.3	57/53	1.3	**380.0**	**62/59**	**0.1**	380.7	66/62	0.0	380.7	69/66
46	368.0	53/48	2.2	379.1	57/54	1.4	**385.9**	**63/60**	**0.1**	387.1	66/63	0.0	387.1	69/67
44	372.7	53/49	2.3	384.4	58/54	1.5	**392.0**	**64/60**	**0.2**	393.5	67/63	0.0	393.5	70/67
42	377.6	52/50	2.6	390.8	57/55	1.4	**397.9**	**62/61**	**0.2**	399.9	65/64	0.0	399.9	68/68
40	382.5	53/51	2.9	397.0	57/55	1.4	**403.9**	**63/61**	**0.2**	406.3	66/65	0.0	406.3	69/68
38	387.8	54/51	3.0	402.6	58/56	1.6	**410.4**	**63/62**	**0.3**	413.7	66/65	0.0	413.7	69/69
36	396.0	54/52	2.3	407.6	59/57	1.9	**416.9**	**64/63**	**0.4**	420.8	67/66	0.0	421.0	70/69
34	400.8	53/52	2.3	412.4	58/58	2.1	**423.0**	**63/63**	**0.4**	426.9	66/66	0.1	428.0	69/70
32	405.1	54/53	2.4	416.9	59/58	2.3	**428.4**	**64/64**	**0.4**	432.7	66/67	0.2	434.7	69/70
30	409.9	55/54	2.4	421.8	60/59	2.3	**433.4**	**64/65**	**0.6**	438.9	67/68	0.3	441.8	70/71
28	411.1	55/54	2.4	423.0	60/60	2.3	**434.7**	**65/65**	**0.5**	439.7	67/68	0.3	442.3	70/72
26	412.1	55/54	2.4	424.0	60/60	2.3	**435.6**	**65/65**	**0.5**	440.1	68/68	0.2	442.3	71/72
24	413.1	56/55	2.4	425.0	60/60	2.3	**436.5**	**65/66**	**0.4**	440.5	68/69	0.2	442.4	71/72
22	414.1	56/55	2.4	426.1	61/60	2.2	**436.9**	**66/66**	**0.4**	441.0	68/69	0.1	442.4	72/73
20	415.1	56/55	2.4	427.1	61/61	2.0	**437.3**	**66/66**	**0.4**	441.4	69/70	0.1	442.4	72/73
18	416.2	56/55	2.4	428.1	61/61	1.9	**437.8**	**67/67**	**0.4**	441.8	69/70	0.1	442.4	73/74
16	417.2	57/56	2.4	429.2	62/61	1.8	**438.2**	**67/67**	**0.4**	442.3	70/70	0.0	442.4	73/74
14	418.3	57/56	2.4	430.3	62/62	1.7	**438.7**	**68/68**	**0.4**	442.4	70/71	0.0	442.4	74/75
12	419.4	57/56	2.4	431.3	62/62	1.6	**439.1**	**68/68**	**0.3**	442.4	71/71	0.0	442.4	74/75
10	420.4	58/56	2.3	431.9	62/62	1.5	**439.5**	**68/68**	**0.3**	442.4	71/72	0.0	442.4	75/76
8	421.5	58/57	2.2	432.5	63/63	1.5	**440.0**	**69/69**	**0.2**	442.4	72/72	0.0	442.4	75/76
6	422.6	58/57	2.1	433.0	63/63	1.5	**440.4**	**69/69**	**0.2**	442.5	72/73	0.0	442.5	76/77
4	423.7	58/57	2.0	433.6	64/63	1.5	**440.9**	**70/70**	**0.2**	442.5	73/73	0.0	442.5	76/77
2	424.8	59/58	1.9	434.1	64/64	1.4	**441.3**	**70/70**	**0.1**	442.5	73/74	0.0	442.5	77/78
0	425.8	59/58	1.8	434.6	65/64	1.4	**441.8**	**71/71**	**0.1**	442.5	74/74	0.0	442.5	77/78

P/C above 1013 + 0.0
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **171ft** **AL MAKTOUM INTL (OMDW)**

F/L (TWY V1) RWY 12

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.379% UP
TOR	4500m (14763ft)	**ED**	4500m (14763ft)	**TOD**	4500m (14763ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	297.3	45/38	0.0	297.3	50/45	0.0	**297.3**	**50/50**	**0.0**	297.3	50/50	0.0	297.3	50/50
66	313.7	46/39	0.0	313.7	53/46	0.0	**313.7**	**55/52**	**0.0**	313.7	55/55	0.0	313.7	55/55
62	328.6	49/41	0.3	330.2	55/48	0.0	**330.2**	**59/54**	**0.0**	330.2	59/58	0.0	330.2	59/59
58	338.7	49/44	1.4	345.8	54/50	0.0	**345.8**	**61/56**	**0.0**	345.8	63/60	0.0	345.8	63/63
54	347.9	50/46	2.2	358.7	54/51	0.3	**360.1**	**61/58**	**0.0**	360.1	64/61	0.0	360.1	66/65
52	352.3	51/45	2.2	363.3	55/50	0.6	**366.5**	**62/57**	**0.0**	366.5	65/60	0.0	366.5	68/64
50	356.9	50/46	2.3	368.3	55/51	0.9	**373.0**	**61/57**	**0.0**	373.0	64/61	0.0	373.0	67/65
48	361.4	51/47	2.4	373.2	56/52	1.2	**379.3**	**61/58**	**0.0**	379.3	65/62	0.0	379.3	68/65
46	366.0	52/48	2.4	378.0	57/53	1.5	**385.7**	**62/59**	**0.0**	385.7	65/62	0.0	385.7	68/66
44	370.5	53/48	2.4	382.7	57/54	1.9	**392.0**	**63/59**	**0.0**	392.0	66/63	0.0	392.0	69/67
42	375.2	51/49	2.6	388.0	56/55	2.1	**398.4**	**61/60**	**0.0**	398.4	64/63	0.0	398.4	67/67
40	380.1	52/50	3.2	396.2	56/55	1.7	**404.7**	**61/60**	**0.0**	404.7	65/64	0.0	404.7	68/68
38	384.9	53/51	3.2	400.9	57/56	2.2	**412.1**	**62/61**	**0.0**	412.1	65/65	0.0	412.1	68/68
36	391.9	53/51	2.8	405.7	58/56	2.5	**418.4**	**62/62**	**0.1**	419.4	66/65	0.0	419.4	69/69
34	398.4	52/52	2.4	410.5	57/57	2.5	**423.1**	**62/62**	**0.3**	426.3	64/66	0.0	426.3	68/69
32	402.6	53/52	2.4	414.8	58/58	2.5	**427.5**	**63/63**	**0.6**	433.0	65/66	0.0	433.0	68/70
30	407.2	54/53	2.5	419.6	59/59	2.5	**432.3**	**63/64**	**0.7**	439.1	66/67	0.1	440.0	69/70
28	408.9	54/54	2.5	421.3	59/59	2.6	**434.1**	**64/64**	**0.7**	440.8	66/67	0.1	441.4	69/71
26	410.0	55/54	2.5	422.3	59/59	2.6	**435.1**	**64/65**	**0.6**	441.4	66/68	0.0	441.4	70/71
24	411.0	55/54	2.5	423.4	60/60	2.6	**436.2**	**64/65**	**0.5**	441.4	67/68	0.0	441.4	70/72
22	412.1	55/54	2.5	424.5	60/60	2.6	**437.4**	**65/65**	**0.4**	441.4	67/68	0.0	441.4	71/72
20	413.1	55/55	2.5	425.5	60/60	2.6	**438.5**	**65/66**	**0.3**	441.4	68/69	0.0	441.4	71/73
18	414.2	56/55	2.5	426.7	60/60	2.6	**439.6**	**65/66**	**0.2**	441.5	68/69	0.0	441.5	72/73
16	415.3	56/55	2.5	427.8	61/61	2.6	**440.8**	**66/66**	**0.1**	441.5	69/70	0.0	441.5	72/74
14	416.4	56/55	2.5	429.0	61/61	2.5	**441.5**	**66/67**	**0.0**	441.5	69/70	0.0	441.5	73/74
12	417.6	56/56	2.5	430.1	61/61	2.3	**441.5**	**66/67**	**0.0**	441.5	70/71	0.0	441.5	73/75
10	418.7	57/56	2.5	431.2	62/62	2.1	**441.5**	**67/68**	**0.0**	441.5	70/71	0.0	441.5	74/75
8	419.9	57/56	2.5	432.4	62/62	1.8	**441.5**	**67/68**	**0.0**	441.5	71/72	0.0	441.5	74/76
6	421.0	57/57	2.5	433.6	62/62	1.6	**441.5**	**68/68**	**0.0**	441.5	71/72	0.0	441.5	75/76
4	422.2	58/57	2.5	434.8	62/62	1.3	**441.5**	**68/69**	**0.0**	441.5	72/73	0.0	441.5	75/77
2	423.4	58/57	2.5	436.0	63/63	1.1	**441.5**	**69/69**	**0.0**	441.5	72/73	0.0	441.5	76/77
0	424.5	58/57	2.5	437.2	63/63	0.9	**441.5**	**70/70**	**0.0**	441.5	73/74	0.0	441.5	76/78

P/C above 1013 + 0.1
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DUBAI**

A/D Elev **171ft** **AL MAKTOUM INTL (OMDW)**

F/L (TWY V21) RWY 30

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.373% DN
TOR	4500m (14763ft)	**ED**	4500m (14763ft)	**TOD**	4500m (14763ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	297.3	47/40	0.0	297.3	50/46	0.0	**297.3**	**50/50**	**0.0**	297.3	50/50	0.0	297.3	50/50
66	313.7	48/41	0.0	313.7	54/47	0.0	**313.7**	**55/54**	**0.0**	313.7	55/55	0.0	313.7	55/55
62	330.2	50/43	0.0	330.2	57/49	0.0	**330.2**	**59/56**	**0.0**	330.2	59/59	0.0	330.2	59/59
58	345.6	49/45	0.0	345.8	56/51	0.0	**345.8**	**63/58**	**0.0**	345.8	63/61	0.0	345.8	63/63
54	355.2	50/47	1.0	360.1	56/53	0.0	**360.1**	**63/60**	**0.0**	360.1	66/63	0.0	360.1	66/66
52	359.8	51/46	1.3	366.5	56/52	0.0	**366.5**	**63/58**	**0.0**	366.5	67/62	0.0	366.5	68/65
50	364.7	51/47	1.7	373.0	56/52	0.0	**373.0**	**63/59**	**0.0**	373.0	66/63	0.0	373.0	69/66
48	369.5	51/48	2.0	379.3	56/53	0.0	**379.3**	**63/60**	**0.0**	379.3	67/63	0.0	379.3	70/67
46	374.2	52/48	2.3	385.7	57/54	0.0	**385.7**	**64/61**	**0.0**	385.7	67/64	0.0	385.7	70/68
44	378.9	53/49	2.6	392.0	57/54	0.0	**392.0**	**64/61**	**0.0**	392.0	68/65	0.0	392.0	71/68
42	383.8	52/50	2.9	398.4	56/55	0.0	**398.4**	**63/62**	**0.0**	398.4	66/65	0.0	398.4	69/69
40	389.9	52/51	2.9	404.2	56/55	0.1	**404.7**	**63/62**	**0.0**	404.7	67/66	0.0	404.7	70/69
38	397.3	53/51	2.4	409.1	57/56	0.6	**412.1**	**64/63**	**0.0**	412.1	67/66	0.0	412.1	70/70
36	402.1	53/52	2.4	413.9	58/57	1.1	**419.4**	**64/63**	**0.0**	419.4	68/67	0.0	419.4	71/71
34	406.9	53/52	2.4	418.9	57/58	1.5	**426.3**	**63/64**	**0.0**	426.3	66/67	0.0	426.3	70/71
32	411.2	54/53	2.4	423.2	58/58	2.0	**433.0**	**63/64**	**0.0**	433.0	67/68	0.0	433.0	70/71
30	415.9	54/54	2.4	428.0	59/59	2.4	**440.0**	**64/65**	**0.0**	440.0	67/68	0.0	440.0	71/72
28	417.6	55/54	2.4	429.8	59/60	2.3	**441.4**	**64/65**	**0.0**	441.4	68/69	0.0	441.4	71/73
26	418.7	55/55	2.4	430.9	60/60	2.1	**441.4**	**65/66**	**0.0**	441.4	68/69	0.0	441.4	72/73
24	419.8	55/55	2.4	431.9	60/60	1.9	**441.4**	**65/66**	**0.0**	441.4	69/70	0.0	441.4	72/74
22	420.9	56/55	2.4	433.0	60/60	1.7	**441.4**	**66/67**	**0.0**	441.4	69/70	0.0	441.4	73/74
20	421.9	56/55	2.4	434.1	60/61	1.5	**441.4**	**66/67**	**0.0**	441.4	70/71	0.0	441.4	73/74
18	423.0	56/56	2.4	435.2	61/61	1.3	**441.5**	**67/67**	**0.0**	441.5	70/71	0.0	441.5	74/75
16	424.1	56/56	2.5	436.4	61/61	1.0	**441.5**	**67/68**	**0.0**	441.5	71/72	0.0	441.5	74/75
14	425.3	57/56	2.4	437.5	61/62	0.8	**441.5**	**68/68**	**0.0**	441.5	71/72	0.0	441.5	75/76
12	425.8	57/56	2.6	438.7	62/62	0.6	**441.5**	**68/69**	**0.0**	441.5	72/73	0.0	441.5	75/76
10	425.8	57/57	2.8	439.9	62/62	0.3	**441.5**	**69/69**	**0.0**	441.5	72/73	0.0	441.5	76/77
8	425.8	58/57	3.1	441.1	62/62	0.1	**441.5**	**69/70**	**0.0**	441.5	73/74	0.0	441.5	76/77
6	425.8	58/58	3.1	441.5	63/63	0.0	**441.5**	**70/70**	**0.0**	441.5	73/74	0.0	441.5	77/78
4	425.8	59/58	3.1	441.5	63/63	0.0	**441.5**	**70/71**	**0.0**	441.5	74/75	0.0	441.5	77/78
2	425.8	60/59	3.1	441.5	64/64	0.0	**441.5**	**71/71**	**0.0**	441.5	74/75	0.0	441.5	78/79
0	425.8	60/59	3.1	441.5	64/64	0.0	**441.5**	**72/72**	**0.0**	441.5	75/76	0.0	441.5	78/79

P/C above 1013 + 0.0
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400** LANDING DATA **SHARJAH INTERNATIONAL (OMSJ)**

A/D Elev **118ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**12**	**30**		
Landing Distance Available	3760m / 12335ft	3760m / 12335ft		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)		15kt		
25F Slippery Zero HW wt or TW (Manual)	3kt	3kt		
25F Slippery Zero HW wt or TW (Autoland)		3kt		
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)		15kt		
30F Slippery Zero HW wt or TW (Manual)	3kt	3kt		
30F Slippery Zero HW wt or TW (Autoland)		3kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MUSCAT**

A/D Elev **25ft** Max wt Permitted (For pre flt planning) **285,760kg** **(OOMS)**

RUNWAY	**08L**	**26R**		
Landing Distance Available	4000m / 13123ft	3840m / 12598ft		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	4kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

KARACHI

JINNAH INTL **(OPKC)**

KARACHI/JINNAH INTL and runways 07R, 25L authorised for enroute diversion.

Use QRH data to calculate landing performance.

LAHORE

ALLAMA IQBAL INTL **(OPLA)**

LAHORE/ALLAMA IQBAL INTL and runways 18L, 36R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **DOHA**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** **HAMAD (OTHH)**

RUNWAY	16L	16R	34L	34R
Landing Distance Available	4850m / 15912ft	4250m / 13944ft	4250m / 13944ft	4850m / 15912ft
Notes			Note 1	
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 4% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **KAOHSIUNG (RCKH)**

A/D Elev **31ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**09**	**27**		
Landing Distance Available	2990m / 9810ft	2700m / 8858ft		
Slope	.11UP	.11DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	2kt (274.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	225.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (7kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	248.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING :** Terrain NORTHEAST clockwise through to the EAST of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **TAIPEI**

A/D Elev **106ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **TAIWAN TAOYUAN (RCTP)**

RUNWAY	05L	05R	23L	23R
Landing Distance Available	3660m / 12008ft	3350m / 10991ft	3350m / 10991ft	3660m / 12008ft
Slope	.11DN	.11DN	.11UP	.11UP
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (13kt)	14kt (8kt)	14kt (8kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)	15kt (13kt)			15kt (13kt)
25F Slippery Zero HW wt or TW (Manual)	1kt	276.0	276.0	1kt
25F Slippery Zero HW wt or TW (Autoland)	1kt			1kt
30F Zero HW wt or TW (Manual)	15kt	15kt (14kt)	15kt (14kt)	15kt
30F Zero HW wt or TW (Autoland)	15kt			15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	3kt	3kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt			5kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg	750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING** : Terrain located SOUTH of airfield.

AIRWAYS **B747-400** LANDING DATA **TOKYO**

A/D Elev **135ft** Max wt Permitted (For pre flt planning) **285,760kg** **NARITA (RJAA)**

RUNWAY	**16L**	**16R**	**34L**	**34R**
Landing Distance Available	2500m / 8200ft	4000m / 13120ft	4000m / 13120ft	2500m / 8200ft
Notes			Note 1	Note 2
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	277.0 (256.0)	15kt	15kt	277.0 (256.0)
25F Zero HW wt or TW (Autoland)	277.0 (256.0)	15kt	15kt	277.0 (256.0)
25F Slippery Zero HW wt or TW (Manual)	204.0	5kt	5kt	204.0
25F Slippery Zero HW wt or TW (Autoland)	204.0	5kt	5kt	204.0
30F Zero HW wt or TW (Manual)	280.8 (274.0)	15kt	15kt	280.8 (274.0)
30F Zero HW wt or TW (Autoland)	280.8 (274.0)	15kt	15kt	280.8 (274.0)
30F Slippery Zero HW wt or TW (Manual)	227.0	5kt	5kt	227.0
30F Slippery Zero HW wt or TW (Autoland)	227.0	5kt	5kt	227.0
Red'n per extra kt TW kg	5300kg		5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 34L:** Crews should ensure gear is down before 'NRE' 14d
2. **Rwy 34R:** Crews should ensure gear is down before 'HKE' 15.4d

AIRWAYS **B747-400** LANDING DATA **TOKYO**

A/D Elev **135ft** Max wt Permitted (For pre flt planning) **285,760kg** **NARITA (RJAA)**

RUNWAY	**16L**	**16R**	**34L**	**34R**
Landing Distance Available	2500m / 8200ft	4000m / 13120ft	4000m / 13120ft	2500m / 8200ft
Notes			Note 1	Note 2
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	277.0 (256.0)	15kt	15kt	277.0 (256.0)
25F Zero HW wt or TW (Autoland)	277.0 (256.0)	15kt	15kt	277.0 (256.0)
25F Slippery Zero HW wt or TW (Manual)	204.0	5kt	5kt	204.0
25F Slippery Zero HW wt or TW (Autoland)	204.0	5kt	5kt	204.0
30F Zero HW wt or TW (Manual)	280.8 (274.0)	15kt	15kt	280.8 (274.0)
30F Zero HW wt or TW (Autoland)	280.8 (274.0)	15kt	15kt	280.8 (274.0)
30F Slippery Zero HW wt or TW (Manual)	227.0	5kt	5kt	227.0
30F Slippery Zero HW wt or TW (Autoland)	227.0	5kt	5kt	227.0
Red'n per extra kt TW kg	5300kg		5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 34L:** Crews should ensure gear is down before 'NRE' 14d
2. **Rwy 34R:** Crews should ensure gear is down before 'HKE' 15.4d

OSAKA

KANSAI INTL **(RJBB)**

OSAKA/KANSAI INTL and runways 06L, 06R, 24L, 24R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAPPORO**

A/D Elev **70ft** Max wt Permitted (For pre flt planning) **285,760kg** **(RJCC)**

RUNWAY	01L	01R	19L	19R
Landing Distance Available	3000m / 9843ft	3000m / 9843ft	3000m / 9843ft	3000m / 9843ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	8kt (2kt)	8kt (2kt)
25F Zero HW wt or TW (Autoland)				8kt (2kt)
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0	247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				247.0
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	8kt (2kt)	8kt (2kt)
30F Zero HW wt or TW (Autoland)				8kt (2kt)
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0	273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				273.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located EAST and WEST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **FUKUOKA**

A/D Elev **30ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(RJFF)**

RUNWAY	**16**	**34**		
Landing Distance Available	2800m / 9186ft	2800m / 9186ft		
Slope	.17UP	.17DN		
Notes	Note 1			
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	231.0	231.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	258.0	258.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG and Minima:** Rwy 16 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHUBU**

A/D Elev **12ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **CENTRAIR INTL (RJGG)**

RUNWAY	**18**	**36**		
Landing Distance Available	3500m / 11483ft	3500m / 11483ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (10kt)		
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)	0kt	0kt		
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (10kt)		
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)	0kt	0kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **TOKYO**

A/D Elev **21ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **HANEDA (RJTT)**

RUNWAY	04	05	16L	16R
Landing Distance Available	2500m/8202ft	NOT AVAILABLE	3000m/9843ft	3000m/9843ft
Slope	.23 DN	FOR LANDING	.01 DN	NIL
Notes	Notes 1,2		Notes 1,2	Notes 1,2
WAT LIMIT °C : Man / Auto	54°		54°	54°/°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	277.0 (256.0)		8kt (2kt)	8kt(2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	205.0		247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (274.0)		8kt (2kt)	8kt(2kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	228.0		273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg		5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located WEST clockwise through NORTH WEST of airfield.
2. **MACG and Minima**: WAT Limit ensures that required missed approach climb gradient can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **TOKYO**

A/D Elev **21ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **HANEDA (RJTT)**

RUNWAY	22	23	34L	34R
Landing Distance Available	2500m/8202ft	2500m/8202ft	3000m/9843ft	3000m/9843ft
Slope	.23 UP	.11 DN	NIL	.01 UP
Notes	Notes 1,2	Notes 1,2	Notes 1,2	Notes 1,2
WAT LIMIT °C : Man / Auto	54°/°	54°/°	54°/°	54°/°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	277.0 (256.0)	277.0 (256.0)	8kt (2kt)	8kt (2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	205.0	205.0	247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (274.0)	280.8 (274.0)	8kt (2kt)	8kt (2kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	228.0	228.0	273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located WEST clockwise through to NORTH WEST of airfield.
2. **MACG and Minima**: WAT Limit ensures that required missed approach climb gradient can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **PUSAN**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **KIMHAE INTL (RKPK)**

RUNWAY	**36L**	**36R**		
Landing Distance Available	3200m / 10496ft	2743m / 8999ft		
Slope	NIL	.01UP		
Notes	Notes 1,2	Notes 1,2		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	3kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	267.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	3kt (280.8)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Landing NOT AUTHORISED on Rwy 18L/R** - due to severe terrain North of airfield.
2. **MACG and Minima:** Rwy 36L/36R WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **SEOUL**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INCHEON INTL (RKSI)**

RUNWAY	15L	15R	16	33L
Landing Distance Available	3750m / 12300ft	3750m / 12300ft	4000m / 13120ft	3750m / 12300ft
Slope	NIL	NIL	NIL	NIL
Notes			Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	4kt	4kt	5kt	4kt
25F Slippery Zero HW wt or TW (Autoland)	4kt	4kt	5kt	4kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 3% & 4% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SEOUL**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INCHEON INTL (RKSI)**

RUNWAY	**33R**	**34**		
Landing Distance Available	3750m / 12300ft	4000m / 13120ft		
Slope	NIL	NIL		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)	15kt	15kt		
25F Slippery Zero HW wt or TW (Manual)	4kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)	4kt	5kt		
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)	15kt	15kt		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt		
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 3% & 4% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SUBIC BAY (RPLB)**

A/D Elev **64ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**07**	**25**		
Landing Distance Available	2744m / 9002ft	2744m / 9002ft		
Slope	.07 UP	.07 DN		
Notes	Notes 1,2	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (277.0)	2kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	228.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (4kt)	9kt (4kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	251.0	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Terrain** – Caution significant terrain on all sides of airfield.
2. **MACG and Minima**: Rwy 07 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **MANILA (RPLL)**

A/D Elev **75ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	06	24		
Landing Distance Available	3410m / 11184t	3410m / 11184ft		
Slope	.54UP	.54DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	283.0	283.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	4kt	4kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located SOUTH EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **SAPPORO**

A/D Elev **70ft** Max wt Permitted (For pre flt planning) **285,760kg** **(RJCC)**

RUNWAY	01L	01R	19L	19R
Landing Distance Available	3000m / 9843ft	3000m / 9843ft	3000m / 9843ft	3000m / 9843ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	8kt (2kt)	8kt (2kt)
25F Zero HW wt or TW (Autoland)				8kt (2kt)
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0	247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				247.0
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)	8kt (2kt)	8kt (2kt)
30F Zero HW wt or TW (Autoland)				8kt (2kt)
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0	273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				273.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located EAST and WEST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **FUKUOKA**

A/D Elev **30ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(RJFF)**

RUNWAY	**16**	**34**		
Landing Distance Available	2800m / 9186ft	2800m / 9186ft		
Slope	.17UP	.17DN		
Notes	Note 1			
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	231.0	231.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	258.0	258.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG and Minima:** Rwy 16 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHUBU**

A/D Elev **12ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **CENTRAIR INTL (RJGG)**

RUNWAY	**18**	**36**		
Landing Distance Available	3500m / 11483ft	3500m / 11483ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (10kt)		
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)	0kt	0kt		
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)	15kt (10kt)	15kt (10kt)		
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)	0kt	0kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **TOKYO**

A/D Elev **21ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **HANEDA (RJTT)**

RUNWAY	04	05	16L	16R
Landing Distance Available	2500m/8202ft	NOT AVAILABLE	3000m/9843ft	3000m/9843ft
Slope	.23 DN	FOR LANDING	.01 DN	NIL
Notes	Notes 1,2		Notes 1,2	Notes 1,2
WAT LIMIT °C : Man / Auto	54°		54°	54°/°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	277.0 (256.0)		8kt (2kt)	8kt(2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	205.0		247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (274.0)		8kt (2kt)	8kt(2kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	228.0		273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg		5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located WEST clockwise through NORTH WEST of airfield.
2. **MACG and Minima**: WAT Limit ensures that required missed approach climb gradient can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **TOKYO HANEDA (RJTT)**

A/D Elev **21ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	22	23	34L	34R
Landing Distance Available	2500m/8202ft	2500m/8202ft	3000m/9843ft	3000m/9843ft
Slope	.23 UP	.11 DN	NIL	.01 UP
Notes	Notes 1,2	Notes 1,2	Notes 1,2	Notes 1,2
WAT LIMIT °C : Man / Auto	54°/°	54°/°	54°/°	54°/°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	277.0 (256.0)	277.0 (256.0)	8kt (2kt)	8kt (2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	205.0	205.0	247.0	247.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (274.0)	280.8 (274.0)	8kt (2kt)	8kt (2kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	228.0	228.0	273.0	273.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located WEST clockwise through to NORTH WEST of airfield.
2. **MACG and Minima**: WAT Limit ensures that required missed approach climb gradient can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **PUSAN**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **KIMHAE INTL (RKPK)**

RUNWAY	**36L**	**36R**		
Landing Distance Available	3200m / 10496ft	2743m / 8999ft		
Slope	NIL	.01UP		
Notes	Notes 1,2	Notes 1,2		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	3kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	267.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	3kt (280.8)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Landing NOT AUTHORISED on Rwy 18L/R** - due to severe terrain North of airfield.
2. **MACG and Minima:** Rwy 36L/36R WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **SEOUL**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INCHEON INTL (RKSI)**

RUNWAY	15L	15R	16	33L
Landing Distance Available	3750m / 12300ft	3750m / 12300ft	4000m / 13120ft	3750m / 12300ft
Slope	NIL	NIL	NIL	NIL
Notes			Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	4kt	4kt	5kt	4kt
25F Slippery Zero HW wt or TW (Autoland)	4kt	4kt	5kt	4kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt	15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt	5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 3% & 4% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SEOUL**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INCHEON INTL (RKSI)**

RUNWAY	**33R**	**34**		
Landing Distance Available	3750m / 12300ft	4000m / 13120ft		
Slope	NIL	NIL		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°		
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)	15kt	15kt		
25F Slippery Zero HW wt or TW (Manual)	4kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)	4kt	5kt		
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)	15kt	15kt		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt		
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 3% & 4% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SUBIC BAY (RPLB)**

A/D Elev **64ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**07**	**25**		
Landing Distance Available	2744m / 9002ft	2744m / 9002ft		
Slope	.07 UP	.07 DN		
Notes	Notes 1,2	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (277.0)	2kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	228.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (4kt)	9kt (4kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	251.0	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Terrain** – Caution significant terrain on all sides of airfield.
2. **MACG and Minima**: Rwy 07 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **MANILA (RPLL)**

A/D Elev **75ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	06	24		
Landing Distance Available	3410m / 11184t	3410m / 11184ft		
Slope	.54UP	.54DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	283.0	283.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	4kt	4kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located SOUTH EAST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **CORDOBA (SACO)**

A/D Elev **1604ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**18**	**36**		
Landing Distance Available	3200m / 10499ft	3200m / 10499ft		
Slope	.77DN	.77UP		
Notes	Notes 1,2	Notes 1,2		
WAT LIMIT °C : Man / Auto	51°	51°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	9kt (3kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	257.0	257.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	9kt (3kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **CAUTION**: Beware masts on extended C/L Rwy 18 -- 1958ft & 1929ft AMSL (1.5nm & 3.2nm from Rwy 36 threshold, respectively)
2. **WARNING**: Terrain located SOUTH WEST clockwise through WEST of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **BUENOS AIRES**

A/D Elev **67ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **EZEIZA INTL (SAEZ)**

RUNWAY	11	17	29	35
Landing Distance Available	3300m / 10826ft	3105m / 10187ft	3300m / 10826ft	2805m / 9200ft
Slope	.03UP	.04UP	.03DN	.04DN
Notes		Note 1		
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	13kt (7kt)	10kt (4kt)	13kt (7kt)	4kt (281.0)
25F Zero HW wt or TW (Autoland)	13kt (7kt)			4kt (281.0)
25F Slippery Zero HW wt or TW (Manual)	272.0	258.0	272.0	231.0
25F Slippery Zero HW wt or TW (Autoland)	272.0			231.0
30F Zero HW wt or TW (Manual)	13kt (7kt)	10kt (4kt)	13kt (7kt)	4kt (281.0)
30F Zero HW wt or TW (Autoland)	13kt (7kt)			4kt (281.0)
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8	280.8	258.0
30F Slippery Zero HW wt or TW (Autoland)	280.8			258.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Circling & Visual: To Rwy 17, NORTH or WEST of airfield ONLY. All other Rwys to SOUTH of airfield ONLY.

BRITISH AIRWAYS **B747-400** LANDING DATA **BRASILIA**

A/D Elev **3497ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **INTL (SBBR)**

RUNWAY	11L	11R	29L	29R
Landing Distance Available	3200m / 10499ft	3300m / 10826ft	3300m / 10826ft	3200m / 10499ft
Slope	NIL	.74 DN	.98 UP	NIL
Notes		Note 1		
WAT LIMIT °C : Man / Auto	47°	47°	47°	47°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	7kt (1kt)	8kt (2kt)	8kt (2kt)	7kt (1kt)
25F Zero HW wt or TW (Autoland)		8kt (2kt)		
25F Slippery Zero HW wt or TW (Manual)	245.0	251.0	251.0	245.0
25F Slippery Zero HW wt or TW (Autoland)		251.0		
30F Zero HW wt or TW (Manual)	7kt (1kt)	8kt (2kt)	8kt (2kt)	7kt (1kt)
30F Zero HW wt or TW (Autoland)		8kt (2kt)		
30F Slippery Zero HW wt or TW (Manual)	267.0	276.0	276.0	267.0
30F Slippery Zero HW wt or TW (Autoland)		276.0		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 5% minima can be used up to 47°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA

BELO HORIZONTE

TANCREDO NEVES (SBCF)

A/D Elev **2715ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**16**	**34**		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Slope	NIL	NIL		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	48°	48°		
25F Zero HW wt or TW (Manual)	3kt (278.0)	3kt (278.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	232.0	232.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	3kt (280.8)	3kt (280.8)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	256.0	256.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain SOUTH EAST of airfield.

FORTALEZA

PINTO MARTINS INTL **(SBFZ)**

FORTALEZA/PINTO MARTINS INTL and runways 13, 31 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **RIO DE JANEIRO INTERNATIONAL (SBGL)**

A/D Elev **28ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	10	15	28	33
Landing Distance Available	4000m / 13123ft	3180m / 10433ft	4000m / 13123ft	3180m / 10433ft
Slope	.11UP	.04DN	.11DN	.04UP
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	11kt (5kt)	15kt	11kt (5kt)
25F Zero HW wt or TW (Autoland)	15kt			
25F Slippery Zero HW wt or TW (Manual)	5kt	263.0	5kt	263.0
25F Slippery Zero HW wt or TW (Autoland)	5kt			
30F Zero HW wt or TW (Manual)	15kt	11kt (5kt)	15kt	11kt (5kt)
30F Zero HW wt or TW (Autoland)	15kt			
30F Slippery Zero HW wt or TW (Manual)	5kt	280.8	5kt	280.8
30F Slippery Zero HW wt or TW (Autoland)	5kt			
Red'n per extra kt TW kg		5300kg		5300kg
Inc per kt HW kg		750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: MACG: 5% minima can be used up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SAO PAULO**

A/D Elev **2459ft** Max wt Permitted (For pre flt planning) **285,760kg** **GUARULHOS (SBGR)**

RUNWAY	09L	09R	27L	27R
Landing Distance Available	3610m / 11844ft	3000m / 9843ft	3000m / 9843ft	3640m / 11942ft
Notes	1	1	1	1
WAT LIMIT °C : Man / Auto	45°/45°	45°/45°	45°	45°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	14kt (8kt)	4kt (281.0)	4kt (281.0)	14kt (8kt)
25F Zero HW wt or TW (Autoland)	14kt (8kt)	4kt (281.0)		14kt (8kt)
25F Slippery Zero HW wt or TW (Manual)	283.0	233.0	233.0	283.0
25F Slippery Zero HW wt or TW (Autoland)	283.0	233.0		283.0
30F Zero HW wt or TW (Manual)	14kt (8kt)	4kt (281.0)	4kt (281.0)	14kt (8kt)
30F Zero HW wt or TW (Autoland)	14kt (8kt)	4kt (281.0)		14kt (8kt)
30F Slippery Zero HW wt or TW (Manual)	280.8	257.0	257.0	280.8
30F Slippery Zero HW wt or TW (Autoland)	280.8	257.0		280.8
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. 5% minima can be used up to MLW at OATs up to 45°C. Reduce ldg wt by 3000kg per °C above this OAT.

BRITISH AIRWAYS **B747-400** LANDING DATA **CAMPINAS**

A/D Elev **2156ft** Max wt Permitted (For pre flt planning) **285,760kg** **VIRACOPOS (SBKP)**

RUNWAY	**15**	**33**		
Landing Distance Available	3150m / 10334ft	3150m / 10334ft		
Notes				
WAT LIMIT °C : Man / Auto	49°	49°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	243.0	243.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	266.0	266.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

PORTO ALEGRE

SALGADO FILHO **(SBPA)**

PORTO ALEGRE/SALGADO FILHO and runways 11, 29 authorised for enroute diversion.

Use QRH data to calculate landing performance.

RECIFE

GUARARAPES INTL **(SBRF)**

RECIFE/GUARARAPES INTL and runways 18, 36 authorised for enroute diversion.

Use QRH data to calculate landing performance.

SALVADOR

DEPUTADO MAGALHAES **(SBSV)**

SALVADOR/DEPUTADO MAGALHAES and runways 10, 28 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **MONTEVIDEO (SUMU)**

A/D Elev **105ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	01	06	19	24
Landing Distance Available	2250m / 7382ft	2700m / 8858ft	2250m / 7382ft	3050m / 10004ft
Slope	0.15 DN	0.53 UP	0.15 UP	0.53 DN
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	250.0 (230.0)	1kt (273.0)	250.0 (230.0)	9kt (2kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	NOT AUTH	224.0	NOT AUTH	252.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	267.0 (244.0)	7kt (2kt)	267.0 (244.0)	15kt (9kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	203.0	247.0	203.0	278.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.

Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CARACAS**

A/D Elev **234ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **SIMON BOLIVAR (SVMI)**

RUNWAY	10	27	28	
Landing Distance Available	3500m / 11483ft	3000m / 9843ft	3500m / 11483ft	
Slope	.77DN	1.3UP	.77UP	
Notes	Notes 1,2,3	Notes 2,3	Notes 2,3	
WAT LIMIT °C : Man / Auto	53°	53°	53°	
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	7kt (1kt)	15kt (10kt)	
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	245.0	0kt	
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	7kt (1kt)	15kt (10kt)	
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	271.0	0kt	
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **ILS Rwy 10:** Glideslope gives only 24ft wheel ht at threshold.
2. **WARNING:** Terrain located EAST and SOUTH WEST of airfield.
3. **Rwy Slope:** Both Rwys have significant uphill slope.

BRITISH AIRWAYS **B747-400** LANDING DATA **ANTIGUA**

A/D Elev **60ft** Max wt Permitted (For pre flt planning) **283,350kg** **V C BIRD (TAPA)**

RUNWAY	**07**	**25**		
Landing Distance Available	2538m / 8327ft	2740m / 8989ft		
		.		
Notes	Note 1,2	Note 1,2		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	280.0 (258.0)	3kt (277.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	209.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	280.8 (277.0)	3kt (277.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	231.0	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Terrain:** Beware of High Terrain South and South West of airfield, outside 5.3nm radius.
2. **Taxiway width:** Taxiway width 22m.

BRITISH AIRWAYS **B747-400** LANDING DATA **BARBADOS**

A/D Elev **171ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **GRANTLEY ADAMS (TBPB)**

RUNWAY	09	27		
Landing Distance Available	3358m / 11017ft	3358m / 11017ft		
Slope	.08DN	.08UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	14kt (8kt)	14kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.0	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **POINTE-A-PITRE (TFFR)**

A/D Elev **35ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**12**	**30**		
Landing Distance Available	2857m / 9373ft	2829m / 9281ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	231.0	231.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	4kt (281.0)	4kt (281.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	258.0	258.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **GRENADA**

A/D Elev **45ft** Max wt Permitted (For pre flt planning) **283,350kg** Briefing Cat A **MAURICE BISHOP (TGPY)**

RUNWAY	**10**	**28**		
Landing Distance Available	2733m / 8966ft	2733m / 8966ft		
Slope	.22 UP	.22 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (275.0)	2kt (275.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	228.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	2kt (280.8)	2kt (280.8)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	251.0	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **GPWS**: There is a possibility of a warning when flying at safety height over terrain to the EAST of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **ST.KITTS**

A/D Elev **168ft** Max wt Permitted (For pre flt planning) **268,000kg** Briefing Cat B **ROBERT L BRADSHAW (TKPK)**

RUNWAY	07	25		
Landing Distance Available	2249m / 7378ft	2280m / 7480ft		
Slope	.09 DN	.09 UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	249.0 (225.0)	252.0 (227.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	210.0	213.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	265.0 (240.0)	269.0 (242.0)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	234.0	237.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Terrain - Caution rapidly rising terrain NORTHWEST through EAST of aerodrome.

BRITISH AIRWAYS **B747-400** LANDING DATA **ST. LUCIA**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **HEWANORRA (TLPL)**

RUNWAY	10	28		
Landing Distance Available	2709m / 8885ft	2594m / 8508ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	2kt (274.0)	284.0 (266.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	225.0	215.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	2kt (280.8)	284.0 (280.8)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	248.0	238.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

AIRWAYS **B747-400** LANDING DATA **TOBAGO**

A/D Elev **38ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **A.N.R. ROBINSON INTL (TTCP)**

RUNWAY	**11**	**29**		
Landing Distance Available	2449m / 8032ft	2743m / 9000ft		
Slope	0.01 DN	0.01 UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	272.0 (250.0)	2kt (276.0)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	202.0	228.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	2kt (267.0)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	222.0	251.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **PORT OF SPAIN**

A/D Elev **58ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **PIARCO (TTPP)**

RUNWAY	**10**	**28**		
Landing Distance Available	3200m / 10500ft	3200m / 10500ft		
Slope	.24UP	.24DN		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	267.0	267.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	11kt (5kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BERMUDA (TXKF)**

A/D Elev **18ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**12**	**30**		
Landing Distance Available	2782m/9127ft	2958m/9705ft		
Slope	NIL	NIL		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	3kt (279.4)	6kt (1kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	235.0	250.8		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (4kt)	13kt (7kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	256.1	272.2		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. MACG: 2.7% minima can be used up to 54°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **ALMATY**

A/D Elev **2227ft** Max wt Permitted (For pre flt planning) **285,760kg** **(UAAA)**

RUNWAY	05L	05R	23L	23R
Landing Distance Available	4500m / 14764ft	4400m / 14435ft	4400m / 14435ft	4500m / 14764ft
Notes				
WAT LIMIT °C : Man / Auto	49°	49°	49°/49°	49°/49°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)			15kt	15kt
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)			5kt	5kt
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)			15kt	15kt
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)			5kt	5kt
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

ASTANA INTL

(UACC)

ASTANA INTL and runways 04, 22 authorised for enroute diversion.

Use QRH data to calculate landing performance.

KARAGANDA

(UAKK)

KARAGANDA and runways 05, 23 authorised for enroute diversion.

Use QRH data to calculate landing performance.

AKTOBE

AKTOBE **(UATT)**

AKTOBE/AKTOBE and runways 13, 31 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **BAKU**

A/D Elev **10ft** Max wt Permitted (For pre flt planning) **285,760kg** **HEYDAR ALIYEV (UBBB)**

RUNWAY	16	17	34	35
Landing Distance Available	4000m / 13123ft	3200m / 10499ft	4000m / 13123ft	3065m / 10056ft
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/ -	54°/54°	54°/ -	54°/54°
25F Zero HW wt or TW (Manual)	15kt	12kt (6kt)	15kt	9kt (3kt)
25F Zero HW wt or TW (Autoland)		12kt (6kt)		9kt (3kt)
25F Slippery Zero HW wt or TW (Manual)	5kt	267.0	5kt	255.0
25F Slippery Zero HW wt or TW (Autoland)		267.0		255.0
30F Zero HW wt or TW (Manual)	15kt	12kt (6kt)	15kt	9kt (3kt)
30F Zero HW wt or TW (Autoland)		12kt (6kt)		9kt (3kt)
30F Slippery Zero HW wt or TW (Manual)	5kt	280.8	5kt	279.0
30F Slippery Zero HW wt or TW (Autoland)		280.8		279.0
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg		750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Performance Restrictions: See page UBBB-L-2 for notes on various operating restrictions.

PERFORMANCE RESTRICTIONS

RUNWAY AVAILABILITY

ATC usually permit use of Rwy 17/35 during daylight hours only and even then only on some occasions.

Check with local staff on CO VHF 131.6 that stands are available for B747 a/c and to obtain taxi routing as some taxiways do not provide adequate wing tip clearance.

TAXIWAYS/APRON

Baku has very limited parking available at present due to wing tip clearance considerations.

Stands 1A – 6A, 04, 05, 07, 08, 10 and 49 are shown as suitable for B747 aircraft . Use minimal power and extreme caution within the confines of the apron.

At the southern end of Rwy 17/35 there is a taxiway into a small maintenance area, unmarked on the AERAD plates. Do not use this taxiway to aid turning.

FOD

High winds at this airfield are sometimes strong enough to blow stones on to the runway, if these conditions are experienced request a runway inspection immediately prior to landing / take-off.

TRANSMISSOMETER SITES

RVR 'A' is positioned at the Middle Marker and is advisory only. RVR 'B' is positioned at the Touch Down Zone, and RVR 'C' at the Mid Point. The RVR 'B' reading for the reciprocal runway, if available, may be used as the Stop End reading. At the time of publication, Rwy 17/35 was not equipped with transmissometers.

STATE TAILWIND RESTRICTIONS

The State currently restricts landing in tailwinds to a 5m/sec (10kt) limit.

BISHKEK

MANAS **(UCFM)**

BISHKEK/MANAS and runways 08, 26 authorised for enroute diversion.

Use QRH data to calculate landing performance.

YAKUTSK

(UEEE)

YAKUTSK and runways 05R, 23L authorised for enroute diversion.

Use QRH data to calculate landing performance.

KHABAROVSK NOVY (UHHH)

KHABAROVSK NOVY and runways 05R and 23L authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRATSK

(UIBB)

BRATSK and runways 12, 30 authorised for enroute diversion.

Use QRH data to calculate landing performance.

IRKUTSK

(UIII)

IRKUTSK and runways 12, 30 authorised for enroute diversion.

Use QRH data to calculate landing performance.

ULAN-UDE

MUKHINO **(UIUU)**

ULAN-UDE/MUKHINO and runways 08, 26 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **KYIV**

A/D Elev **427ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **BORYSPIL (UKBB)**

RUNWAY	**18L**	**36R**		
Landing Distance Available	4000m / 13123ft	4000m / 13123ft		
Slope	.09 UP	.09 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°		
25F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)		
25F Zero HW wt or TW (Autoland)		15kt (15kt)		
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)		5kt		
30F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)		
30F Zero HW wt or TW (Autoland)		15kt (15kt)		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)		5kt		
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. 18R/36L unsuitable as PCN low and taxiways to apron too narrow.

BRITISH AIRWAYS **B747-400** LANDING DATA **ST. PETERSBURG**

A/D Elev **79ft** Max wt Permitted (For pre flt planning) **285,760kg** **PULKOVO (ULLI)**

RUNWAY	10L	10R	28L	28R
Landing Distance Available	3401m / 11158ft	3782m / 12408ft	3782m / 12408ft	3401m / 11158ft
Notes	1	1	1	1
WAT LIMIT °C : Man / Auto	54°/54°	54°/54°	54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (14kt)	15kt (14kt)	15kt (9kt)
25F Zero HW wt or TW (Autoland)	15kt (9kt)	15kt (14kt)		15kt (9kt)
25F Slippery Zero HW wt or TW (Manual)	282.0	3kt	3kt	282.0
25F Slippery Zero HW wt or TW (Autoland)	282.0	3kt		282.0
30F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (14kt)	15kt (14kt)	15kt (9kt)
30F Zero HW wt or TW (Autoland)	15kt (9kt)	15kt (14kt)		15kt (9kt)
30F Slippery Zero HW wt or TW (Manual)	280.8	3kt	3kt	280.8
30F Slippery Zero HW wt or TW (Autoland)	280.8	3kt		280.8
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg			750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

Note 1: 5% minima can be used up to MLW at OATs up to 54°C. Reduce ldg wt by 3000kg per °C above this OAT.

MURMANSK

(ULMM)

MURMANSK and runways 13, 31 authorised for enroute diversion.

Use QRH data to calculate landing performance.

NOVOSIBIRSK

TOLMACHEVO **(UNNT)**

NOVOSIBIRSK/TOLMACHEVO and runways 07, 16, 25, 34 authorised for enroute diversion.

Use QRH data to calculate landing performance.

MINERALNYYE VODY (URMM)

MINERALNYYE VODY and runways 12, 30 authorised for enroute diversion.

Use QRH data to calculate landing performance.

ASHGABAT

(UTAA)

ASHGABAT and runways 12L, 30R authorised for enroute diversion.

Use QRH data to calculate landing performance.

DUSHANBE

(UTDD)

DUSHANBE and runways 09, 27 authorised for enroute diversion.

Use QRH data to calculate landing performance.

SAMARKAND

(UTSS)

SAMARKAND and runways 09, 27 authorised for enroute diversion.

Use QRH data to calculate landing performance.

TASHKENT INTL
ISLAM KARIMOV (UTTT)

TASHKENT YUZHNY and runways 08L, 08R, 26L, 26R authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **MOSCOW**

A/D Elev **593ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **DOMODEDOVO (UUDD)**

RUNWAY	14L	14R	32L	32R
Landing Distance Available	3793m / 12444ft	3500m / 11483ft	3500m / 11483ft	3793m / 12444ft
Slope	.25DN	.52DN	.52UP	.25UP
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°	53°/53°
25F Zero HW wt or TW (Manual)	15kt	15kt (10kt)	15kt (10kt)	15kt
25F Zero HW wt or TW (Autoland)		15kt (10kt)		15kt
25F Slippery Zero HW wt or TW (Manual)	3kt	0kt	0kt	3kt
25F Slippery Zero HW wt or TW (Autoland)		0kt		3kt
30F Zero HW wt or TW (Manual)	15kt	15kt (10kt)	15kt (10kt)	15kt
30F Zero HW wt or TW (Autoland)		15kt (10kt)		15kt
30F Slippery Zero HW wt or TW (Manual)	3kt	0kt	0kt	3kt
30F Slippery Zero HW wt or TW (Autoland)		0kt		3kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Transmissometer Sites: For all runways RVR 'A' is positioned at the MM and is advisory only. RVR 'B' is positioned at the TDZ and RVR 'C' is positioned at the MIDPOINT. The RVR 'B' reading for the reciprocal runway may be used as the STOPEND reading.

BRITISH AIRWAYS **B747-400** LANDING DATA **MOSCOW**

A/D Elev **630ft** Max wt Permitted (For pre flt planning) **285,760kg** **SHEREMETYEVO (UUEE)**

RUNWAY	06C	06R	24L	24C
Landing Distance Available	3550m / 11647ft	3700m / 12140ft	3700m / 12140ft	3550m / 11647ft
Notes	Note 1,2	Note 1,2	Note 1,2	Note 1,2
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°/53°	53°	53°
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)	15kt (10kt)	15kt (10kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	2kt	2kt	0kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (13kt)	15kt (13kt)	15kt (10kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	2kt	2kt	0kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Transmissometer sites**: For all runways RVR 'A' is positioned at the MM and is advisory only. RVR 'B' is positioned at TDZ and RVR 'C' at the Mid Point. The RVR 'B' reading for the reciprocal runway if available may be used as a Stop End reading.
2. **ILS Operations**: To ensure proper GP signal protection in IFR conditions inform radar controller on first ctc on 118.1 that full autoland proc. will be used. If ATC reply that traffic is waiting for takeoff in front of GP antenna be prepared for GP oscillations and do not operate below 200ft without visual reference unless this area is subsequently reported clear.

SYKTYVKAR
(UUYY)

SYKTYVKAR and runways 18, 36 authorised for enroute diversion.

Use QRH data to calculate landing performance.

SAMARA

KURUMOCH **(UWWW)**

SAMARA/KURUMOCH and runways 15, 33 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **AHMEDABAD (VAAH)**

A/D Elev **189ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	05	23		
Landing Distance Available	3505m / 11500ft	3505m / 11500ft		
Slope	.08 UP	.08 DN		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **MUMBAI**

A/D Elev **39ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(BOMBAY) (VABB)**

RUNWAY	09	14	27	32
Landing Distance Available	3048m / 10000ft	2471m / 8107ft	2965m / 9725ft	2673m / 8767ft
Notes		Note 1		Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	274.8 (254.3)	7kt (1kt)	1kt (271.0)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	255.0	199.1	244.0	222.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	2kt (274.3)	15kt (7kt)	7kt (1kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	279.0	222.1	270.0	245.0
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 14/32 Approach Procedures** : The Control tower infringes the ICAO transition obstacle surface for Rwy 14/32. Therefore, in addition to the normal visual criteria required by DA (Decision Altitude), prior to DA landing clearance must be obtained, and visual contact with the Control Tower must be achieved and maintained to touchdown otherwise am immediate go-around must be executed.

BRITISH AIRWAYS **B747-400** LANDING DATA **NAGPUR (VANP)**

A/D Elev **1033ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**14**	**32**		
Landing Distance Available	3164m / 10381ft	3200m / 10499ft		
Slope	.24DN	.24UP		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	53°	53°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	10kt (4kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	257.0	260.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	10kt (4kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Parallel taxiway:** Do NOT use parallel taxiway P1 & P2 as it is only 15m. Instead use the dumbell at the runway end, backtrack the runway and enter the apon via taxiway A or via rwy 09/27 & Twy B.

BRITISH AIRWAYS **B747-400** LANDING DATA **COLOMBO**

A/D Elev **29ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **BANDARANAIKE (VCBI)**

RUNWAY	**04**	**22**		
Landing Distance Available	3350m / 10991ft	3350m / 10991ft		
Slope	.04 UP	.04 DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (8kt)	15kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (8kt)	15kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Stands A11,A13,B2 and B4 have a bearing stength of 230,000kg

BRITISH AIRWAYS **B747-400** LANDING DATA **KOLKATA (CALCUTTA) (VECC)**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	01L	01R	19L	19R
Landing Distance Available	2839m / 9316ft	3627m / 11896ft	3200m / 10500ft	2749m / 9020ft
Slope	NIL	NIL	NIL	NIL
Notes	Notes 1,3	Note 2		Notes 3,4,5
WAT LIMIT °C : Man / Auto	54°	54°	54°/54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	5kt (282.0)	15kt (12kt)	9kt (3kt)	3kt (277.0)
25F Zero HW wt or TW (Autoland)			9kt (3kt)	
25F Slippery Zero HW wt or TW (Manual)	238.0	1kt	267.0	228.0
25F Slippery Zero HW wt or TW (Autoland)			267.0	
30F Zero HW wt or TW (Manual)	11kt (5kt)	15kt	15kt (12kt)	9kt (3kt)
30F Zero HW wt or TW (Autoland)			15kt (12kt)	
30F Slippery Zero HW wt or TW (Manual)	260.0	5kt	1kt	251.0
30F Slippery Zero HW wt or TW (Autoland)			1kt	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 01L : You should plan to exit Rwy 01L at taxiway A.
2. Turning Area at the END of Rwy 01R : Maximum steering lock is required to turn a B747, 180° in the dumbell at the end of Rwy 01R, Please exercise Caution and request ground marsallers if required.
3. 01L/19R is only a Code D rwy and for use in an emergency by 747 a/c. PCN of 01L/19R restricts landing weight to 260,000kg. Field length limits given above in case they are required and approval is given for heavier landing.
4. Turning Area at the END of Rwy 19R : Maximum steering lock is required to turn a B747, 180° in the dumbell at the end of Rwy 19R, Please exercise Caution and request ground marsallers if required.
5. Rwy 19R : Plan to exit at taxiway C, or turn in the dumbell and backtrack to taxiway C.

DHAKA

HAZRAT SHAHJALAL INTL **(VGHS)**

DHAKA/HAZRAT SHAHJALAL INTL and runways 14, 32 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **HONG KONG INTERNATIONAL (VHHH)**

A/D Elev **28ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	07L	07R	25L	25R
Landing Distance Available	3627m / 11899ft	3640m / 11942ft	3800m / 12467ft	3626 / 11896ft
Slope	NIL	NIL	NIL	NIL
Notes	Notes 1,2,3	Notes 1,2,3	Notes 2,3,4	Notes 2,3,4
WAT LIMIT °C : Man / Auto	52°/52°	53°/53°	53°/53°	53°/53°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)	15kt (15kt)	15kt (12kt)
25F Zero HW wt or TW (Autoland)	15kt (12kt)	15kt (12kt)	15kt (15kt)	15kt (12kt)
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt	3kt	1kt
25F Slippery Zero HW wt or TW (Autoland)	1kt	1kt	3kt	1kt
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)	15kt (15kt)	15kt (12kt)
30F Zero HW wt or TW (Autoland)	15kt (12kt)	15kt (12kt)	15kt (15kt)	15kt (12kt)
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt	3kt	1kt
30F Slippery Zero HW wt or TW (Autoland)	1kt	1kt	3kt	1kt
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Windshear and Turbulence Runway 07L/R:** Due to high terrain over Lantau Island, when wind from NORTHEAST through to SOUTHWEST at more than 15kts Low Level Windshear and moderate to severe Turbulence likely. During winter monsoon, Northerly winds of 25kts or more may produce Windshear and severe Turbulence, during a Missed Approach.
2. **Windshear and Turbulence:** Pilots should use the 2000ft winds when assessing the possibility of Windshear.
3. **MACG and Minima: WAT Limit** ensures that all missed approach climb gradients can be met and therefore the lowest minima can be used. If Rwy 07L WAT limit restrictive, the 2.5% MACG minima may be used up to a WAT Limit of 53°C.
4. **Windshear and Turbulence Runway 25L/R:** When wind from NORTHEAST through to SOUTHWEST at more than 15kts, Low Level Windshear and moderate to severe Turbulence likely. If wind from NORTH Crosswinds may be expected on Touchdown.

BRITISH AIRWAYS **B747-400** LANDING DATA **DELHI (VIDP)**

A/D Elev **778ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	09	10	11	27
Landing Distance Available	2816m / 9238ft	3813m / 12509ft	3465m / 11368ft	2665m / 8730ft
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°	53°	53°/53°	53°
25F Zero HW wt or TW (Manual)	3kt (275.0)	15kt	15kt (9kt)	0kt (267.0)
25F Zero HW wt or TW (Autoland)			15kt (9kt)	
25F Slippery Zero HW wt or TW (Manual)	232.0	4kt	281.0	218.0
25F Slippery Zero HW wt or TW (Autoland)			281.0	
30F Zero HW wt or TW (Manual)	9kt (3kt)	15kt	15kt	6kt (0kt)
30F Zero HW wt or TW (Autoland)			15kt	
30F Slippery Zero HW wt or TW (Manual)	255.0	5kt	3kt	240.0
30F Slippery Zero HW wt or TW (Autoland)			3kt	
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg		750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **DELHI (VIDP)**

A/D Elev **778ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**28**	**29**		
Landing Distance Available	3813m / 12509ft	2970m / 9744ft		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	53°/53°	53°/53°		
25F Zero HW wt or TW (Manual)	15kt	6kt (1kt)		
25F Zero HW wt or TW (Autoland)	15kt	6kt (1kt)		
25F Slippery Zero HW wt or TW (Manual)	4kt	240.0		
25F Slippery Zero HW wt or TW (Autoland)	4kt	240.0		
30F Zero HW wt or TW (Manual)	15kt	6kt (1kt)		
30F Zero HW wt or TW (Autoland)	15kt	6kt (1kt)		
30F Slippery Zero HW wt or TW (Manual)	5kt	265.0		
30F Slippery Zero HW wt or TW (Autoland)	5kt	265.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg		750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

F/L (BACKTRACK) RWY 09

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.368% UP
TOR	2816m (9238ft)	**ED**	2816m (9238ft)	**TOD**	2889m (9478ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	233.3	23/11	1.5	240.8	29/17	1.5	**248.1**	**33/23**	**0.4**	252.3	34/26	0.4	256.5	36/29
66	242.7	24/12	1.6	250.6	30/18	1.5	**258.2**	**36/24**	**0.4**	262.5	37/27	0.5	267.0	39/30
62	252.9	27/14	1.6	261.0	32/20	1.6	**269.0**	**38/26**	**0.5**	273.7	41/29	0.5	278.5	42/33
58	262.5	28/16	1.7	270.9	34/22	1.7	**279.4**	**39/28**	**0.5**	284.3	42/32	0.5	289.4	44/35
54	270.8	29/18	1.8	279.6	34/24	1.8	**288.5**	**40/30**	**0.5**	293.5	42/33	0.5	298.9	45/37
52	274.6	29/17	1.8	283.6	35/23	1.8	**292.6**	**41/29**	**0.5**	297.8	43/32	0.5	303.2	46/36
50	278.6	30/18	1.8	287.7	36/23	1.8	**296.9**	**41/30**	**0.5**	302.2	44/33	0.6	307.7	47/37
48	282.3	30/18	1.9	291.8	35/24	1.9	**301.2**	**41/31**	**0.5**	306.5	43/34	0.6	312.1	46/37
46	286.0	30/19	2.0	295.8	36/25	1.9	**305.2**	**41/31**	**0.6**	310.7	44/35	0.6	316.4	47/38
44	289.7	31/20	2.0	299.7	36/26	1.9	**309.3**	**42/32**	**0.6**	314.8	45/35	0.6	320.6	47/39
42	293.4	32/20	2.1	303.7	37/26	1.9	**313.4**	**43/33**	**0.6**	319.0	46/36	0.6	324.9	48/40
40	296.5	31/21	2.1	307.2	36/27	2.1	**317.6**	**42/34**	**0.6**	323.3	45/37	0.6	329.3	47/40
38	300.5	32/22	2.2	311.4	37/28	2.1	**322.0**	**43/34**	**0.6**	327.8	45/38	0.6	333.7	48/41
36	304.5	33/22	2.2	315.5	38/28	2.2	**326.5**	**44/35**	**0.6**	332.3	46/38	0.6	338.2	49/42
34	308.4	33/23	2.2	319.6	39/29	2.2	**330.7**	**44/36**	**0.6**	336.4	47/39	0.6	342.4	49/43
32	312.0	32/24	2.3	323.3	38/30	2.2	**334.5**	**43/36**	**0.6**	340.4	46/40	0.6	346.4	48/43
30	315.9	33/24	2.3	327.4	39/31	2.3	**338.7**	**44/37**	**0.6**	344.6	47/41	0.6	350.8	49/44
28	319.1	34/25	2.3	330.6	39/31	2.3	**342.0**	**45/38**	**0.6**	348.0	47/41	0.6	354.3	50/45
26	320.0	34/25	2.3	331.5	40/31	2.3	**342.9**	**45/38**	**0.6**	348.9	47/41	0.6	355.2	50/45
24	320.7	34/26	2.3	332.2	40/32	2.3	**343.6**	**45/38**	**0.6**	349.6	48/42	0.6	355.9	50/45
22	321.5	35/26	2.3	333.0	40/32	2.3	**344.3**	**46/39**	**0.6**	350.4	48/42	0.6	356.7	51/46
20	322.2	35/26	2.3	333.7	40/32	2.3	**345.1**	**46/39**	**0.6**	351.1	48/42	0.6	357.4	51/46
18	323.0	35/26	2.3	334.5	41/32	2.3	**345.8**	**46/39**	**0.6**	351.8	49/43	0.6	358.2	51/46
16	323.7	35/27	2.3	335.3	41/33	2.2	**346.5**	**47/39**	**0.6**	352.6	49/43	0.6	359.0	52/46
14	324.5	36/27	2.3	336.1	41/33	2.2	**347.2**	**47/40**	**0.6**	353.3	49/43	0.6	359.7	52/47
12	325.3	36/27	2.3	336.9	42/33	2.2	**348.0**	**47/40**	**0.6**	354.1	50/43	0.6	360.5	52/47
10	326.1	36/27	2.3	337.7	42/34	2.2	**348.7**	**48/40**	**0.6**	354.8	50/44	0.7	361.3	53/47
8	326.9	37/28	2.3	338.5	42/34	2.2	**349.5**	**48/41**	**0.6**	355.6	50/44	0.7	362.1	53/48
6	327.7	37/28	2.3	339.3	43/34	2.2	**350.3**	**48/41**	**0.6**	356.4	51/44	0.7	362.9	53/48
4	328.5	37/28	2.3	340.1	43/34	2.2	**351.0**	**49/41**	**0.6**	357.2	51/45	0.7	363.7	54/48
2	329.3	38/28	2.3	340.9	43/35	2.2	**351.8**	**49/42**	**0.6**	358.0	51/45	0.7	364.5	54/49
0	330.1	38/29	2.3	341.7	43/35	2.2	**352.6**	**49/42**	**0.6**	358.8	52/45	0.7	365.4	54/49

P/C above 1013 + 0.2
P/C below 1013 - 0.4

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

F/L (TWY N/K) RWY 10

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.456% UP
TOR	3813m (12509ft)	**ED**	3813m (12509ft)	**TOD**	3813m (12509ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	275.8	37/27	1.3	282.3	42/32	1.2	**288.4**	**48/38**	**0.2**	290.7	49/41	0.0	290.7	49/45
66	286.7	37/28	1.6	294.8	42/34	1.3	**301.5**	**47/39**	**0.4**	305.1	50/42	0.2	306.8	52/45
62	298.1	40/30	1.8	307.2	45/36	1.5	**314.9**	**50/41**	**0.4**	318.8	52/45	0.4	322.6	55/48
58	307.6	40/33	2.1	317.9	45/38	1.9	**327.5**	**50/44**	**0.4**	331.7	52/47	0.4	335.7	54/50
54	316.0	41/35	2.1	326.7	46/40	2.1	**337.4**	**51/46**	**0.5**	342.6	53/49	0.4	346.9	55/52
52	320.2	42/34	2.2	331.0	47/40	2.2	**341.9**	**51/45**	**0.5**	347.2	54/48	0.5	352.1	56/51
50	324.6	43/35	2.1	335.3	48/40	2.2	**346.4**	**52/46**	**0.6**	352.0	55/49	0.6	357.5	57/52
48	328.2	42/36	2.2	339.1	47/41	2.3	**350.6**	**52/47**	**0.6**	356.6	54/49	0.6	362.3	56/53
46	332.2	43/36	2.2	343.2	48/42	2.3	**354.8**	**53/47**	**0.6**	361.1	55/50	0.6	367.2	57/53
44	336.1	44/37	2.2	347.1	49/43	2.4	**359.0**	**54/48**	**0.6**	365.4	56/51	0.7	371.9	58/54
42	340.2	45/38	2.2	351.4	50/44	2.4	**363.5**	**54/49**	**0.7**	370.1	57/52	0.7	376.9	59/55
40	344.1	44/39	2.3	355.6	48/44	2.5	**368.2**	**53/50**	**0.7**	374.8	55/53	0.7	381.7	57/56
38	348.3	45/39	2.4	360.1	49/45	2.6	**372.9**	**54/51**	**0.7**	379.8	56/54	0.7	386.7	58/57
36	352.6	45/40	2.4	364.7	50/46	2.6	**377.8**	**55/52**	**0.7**	384.7	57/55	1.0	394.9	58/57
34	356.7	46/41	2.5	369.1	51/47	2.7	**382.4**	**56/52**	**0.9**	391.0	58/55	0.9	399.9	59/58
32	360.8	45/42	2.5	373.3	50/48	2.7	**386.6**	**55/53**	**1.1**	397.3	56/55	0.7	404.0	58/58
30	365.2	46/42	2.6	378.0	51/48	3.3	**394.6**	**55/53**	**0.7**	401.9	57/56	0.7	408.7	59/59
28	368.6	47/43	2.6	381.6	52/49	3.4	**398.7**	**56/54**	**0.7**	405.4	58/57	0.7	412.3	60/60
26	369.9	47/43	2.6	382.8	52/49	3.4	**400.0**	**56/54**	**0.7**	406.7	58/57	0.7	413.5	60/60
24	370.9	47/44	2.6	383.9	52/50	3.4	**401.0**	**56/54**	**0.7**	407.7	59/57	0.7	414.6	61/60
22	371.9	48/44	2.6	384.9	52/50	3.4	**402.0**	**57/55**	**0.7**	408.8	59/58	0.7	415.6	61/61
20	372.9	48/44	2.6	386.0	53/50	3.4	**403.0**	**57/55**	**0.7**	409.9	59/58	0.7	416.7	61/61
18	374.0	48/44	2.7	387.3	53/50	3.4	**404.1**	**57/55**	**0.7**	410.9	59/58	0.7	417.8	61/61
16	375.0	48/45	2.8	389.1	53/51	3.2	**405.1**	**57/56**	**0.7**	412.0	60/59	0.7	419.0	62/62
14	376.1	49/45	3.0	391.0	53/51	3.0	**406.2**	**58/56**	**0.7**	413.1	60/59	0.7	420.1	62/62
12	377.2	49/45	3.1	392.9	53/51	2.9	**407.3**	**58/56**	**0.7**	414.2	60/59	0.7	421.1	62/62
10	378.3	49/45	3.3	394.8	53/51	2.7	**408.5**	**58/56**	**0.7**	415.3	60/59	0.7	422.1	62/62
8	379.5	49/46	3.4	396.4	54/51	2.6	**409.6**	**59/57**	**0.7**	416.5	61/60	0.7	423.1	63/63
6	380.6	50/46	3.4	397.5	54/51	2.6	**410.7**	**59/57**	**0.7**	417.6	61/60	0.7	424.1	63/63
4	381.7	50/46	3.4	398.6	54/52	2.6	**411.8**	**59/57**	**0.7**	418.7	61/60	0.6	425.1	63/63
2	382.9	50/47	3.4	399.8	54/52	2.6	**413.0**	**59/58**	**0.7**	419.7	62/60	0.6	426.1	64/64
0	384.0	51/47	3.4	400.9	55/52	2.6	**414.1**	**60/58**	**0.7**	420.8	62/61	0.6	427.2	64/64

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

F/L (TWY Z8/Z9) RWY 11

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.2% UP
TOR	4110m (13484ft)	**ED**	4430m (14534ft)	**TOD**	4110m (13484ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	271.3	42/39	1.3	277.7	44/44	1.2	**283.7**	**46/46**	**0.3**	286.9	47/47	0.3	290.2	48/48
66	283.1	45/40	1.4	290.1	47/46	1.3	**296.7**	**50/50**	**0.4**	300.3	51/51	0.4	303.8	52/52
62	295.8	48/43	1.5	303.1	51/48	1.4	**310.0**	**53/53**	**0.4**	313.9	54/54	0.4	317.7	55/55
58	307.5	51/45	1.5	315.2	54/51	1.5	**322.5**	**56/56**	**0.4**	326.6	57/57	0.4	330.7	59/59
54	317.8	53/47	1.6	325.8	56/53	1.5	**333.4**	**59/58**	**0.4**	337.7	60/60	0.4	341.8	61/61
52	322.6	54/46	1.6	330.7	57/52	1.5	**338.4**	**60/57**	**0.4**	342.7	61/60	0.4	347.0	63/63
50	327.5	54/47	1.6	335.6	59/53	1.6	**343.5**	**61/58**	**0.4**	347.8	62/61	0.4	352.2	64/64
48	332.2	54/48	1.6	340.4	59/54	1.6	**348.4**	**62/59**	**0.5**	352.9	64/62	0.5	357.4	65/65
46	336.8	54/49	1.6	345.0	59/54	1.7	**353.3**	**63/60**	**0.5**	357.9	65/63	0.5	362.6	66/66
44	341.3	55/49	1.7	349.7	60/55	1.7	**358.1**	**64/61**	**0.5**	362.9	66/64	0.5	367.8	67/67
42	345.9	56/50	1.7	354.5	61/56	1.7	**363.2**	**66/62**	**0.5**	368.1	67/65	0.5	373.2	68/67
40	350.5	54/51	1.8	359.4	60/57	1.8	**368.3**	**65/63**	**0.5**	373.5	67/65	0.5	378.6	69/68
38	355.5	55/52	1.8	364.7	60/58	1.8	**373.9**	**66/63**	**0.5**	379.2	68/66	0.5	384.3	70/69
36	360.6	56/52	1.9	370.0	61/58	1.9	**379.5**	**66/64**	**0.5**	384.7	69/67	0.6	390.7	71/70
34	365.4	57/53	1.9	375.1	62/59	1.9	**384.6**	**67/65**	**0.6**	390.7	69/68	0.6	396.9	71/70
32	370.1	56/54	2.0	380.0	61/60	2.0	**390.1**	**66/66**	**0.7**	396.7	68/68	0.5	401.8	70/71
30	375.1	57/55	2.0	385.0	62/61	2.3	**396.5**	**67/66**	**0.5**	401.7	69/69	0.5	407.0	71/72
28	379.1	57/55	2.1	389.6	62/61	2.2	**400.6**	**67/67**	**0.5**	405.9	69/69	0.5	411.2	72/72
26	380.1	58/56	2.2	390.9	63/61	2.1	**401.5**	**68/67**	**0.5**	406.8	70/70	0.5	412.1	72/73
24	380.8	58/56	2.2	391.8	63/62	2.1	**402.2**	**68/67**	**0.5**	407.5	70/70	0.5	412.8	72/73
22	381.5	58/56	2.2	392.7	63/62	2.0	**402.9**	**68/68**	**0.5**	408.2	71/70	0.5	413.5	73/73
20	382.2	59/57	2.3	393.6	64/62	2.0	**403.5**	**69/68**	**0.5**	408.9	71/71	0.5	414.2	73/74
18	383.0	59/57	2.3	394.5	64/62	1.9	**404.2**	**69/68**	**0.5**	409.6	71/71	0.5	414.9	74/74
16	383.7	59/57	2.4	395.5	64/63	1.9	**405.0**	**69/69**	**0.5**	410.3	72/72	0.5	415.5	74/74
14	384.4	60/58	2.4	396.3	64/63	1.9	**405.7**	**70/69**	**0.5**	411.0	72/72	0.5	416.2	74/75
12	385.1	60/58	2.4	397.0	65/63	1.9	**406.4**	**70/69**	**0.5**	411.7	72/72	0.5	416.9	75/75
10	385.9	60/58	2.4	397.7	65/64	1.9	**407.1**	**70/70**	**0.5**	412.4	73/73	0.5	417.6	75/76
8	386.6	61/59	2.3	398.3	66/64	1.9	**407.8**	**71/70**	**0.5**	413.1	73/73	0.5	418.3	75/76
6	387.5	61/59	2.3	399.1	66/64	1.9	**408.5**	**71/70**	**0.5**	413.8	74/73	0.5	419.0	76/76
4	388.5	61/59	2.3	399.8	66/65	1.9	**409.2**	**72/71**	**0.5**	414.5	74/74	0.5	419.7	76/77
2	389.5	62/60	2.2	400.5	67/65	1.9	**410.0**	**72/71**	**0.5**	415.2	74/74	0.5	420.4	77/77
0	390.4	62/60	2.2	401.3	67/66	1.9	**410.7**	**72/72**	**0.5**	415.9	75/74	0.5	421.1	77/77

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

F/L (TWY A) RWY 27

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.368% DN
TOR	2816m (9238ft)	**ED**	2816m (9238ft)	**TOD**	3516m (11535ft)

FLAP 20 — **RB211-524G/PACKS ON/DRY or WET RWY** — **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	250.3	21/11	1.7	259.0	27/15	1.6	**266.9**	**33/21**	**0.4**	271.2	35/24	0.4	275.5	38/27
66	258.7	23/11	1.8	267.7	28/16	1.9	**277.1**	**33/22**	**0.5**	282.2	36/25	0.5	286.7	38/28
62	268.4	25/13	1.9	278.0	31/19	2.0	**287.9**	**36/25**	**0.6**	293.6	38/27	0.5	299.0	41/31
58	277.9	26/15	2.0	288.0	31/21	2.1	**298.3**	**36/27**	**0.6**	304.2	38/30	0.5	309.6	41/33
54	285.6	27/17	2.0	295.7	32/22	2.2	**306.7**	**37/28**	**0.6**	312.7	39/32	0.6	318.6	42/35
52	289.3	28/16	2.1	299.6	33/22	2.2	**310.8**	**38/28**	**0.6**	316.8	40/31	0.6	322.8	43/34
50	293.2	28/17	2.1	303.7	34/22	2.3	**315.0**	**39/28**	**0.6**	321.1	41/31	0.6	327.2	44/35
48	296.3	28/17	2.1	306.9	33/23	2.3	**318.4**	**38/29**	**0.6**	324.6	41/32	0.6	330.8	43/36
46	300.0	29/18	2.1	310.7	34/24	2.3	**322.4**	**39/30**	**0.6**	328.7	41/33	0.6	334.8	44/36
44	303.6	29/19	2.2	314.5	35/25	2.3	**326.2**	**40/31**	**0.6**	332.5	42/34	0.6	338.8	44/37
42	307.4	30/19	2.2	318.4	35/25	2.4	**330.3**	**41/32**	**0.6**	336.6	43/35	0.6	342.8	45/38
40	310.6	29/20	2.3	321.9	35/26	2.4	**334.0**	**40/32**	**0.7**	340.5	42/35	0.6	346.8	44/39
38	314.4	30/21	2.3	325.9	35/27	2.5	**338.2**	**41/33**	**0.6**	344.6	43/36	0.7	351.1	45/39
36	318.5	31/22	2.3	330.2	36/28	2.4	**342.3**	**41/34**	**0.7**	348.9	44/37	0.7	355.5	46/40
34	322.3	32/22	2.3	333.9	37/28	2.5	**346.3**	**42/35**	**0.7**	352.9	44/38	0.7	359.7	47/41
32	325.9	31/23	2.3	337.6	36/29	2.5	**350.1**	**41/35**	**0.7**	356.8	44/38	0.7	363.8	46/42
30	330.0	32/24	2.3	341.7	37/30	2.5	**354.3**	**42/36**	**0.7**	361.2	44/39	0.7	368.3	47/43
28	332.9	32/24	2.4	344.7	37/30	2.6	**357.5**	**43/37**	**0.7**	364.5	45/40	0.7	371.8	47/43
26	333.9	32/25	2.4	345.8	38/30	2.6	**358.6**	**43/37**	**0.7**	365.7	45/40	0.7	373.0	48/43
24	334.8	33/25	2.4	346.7	38/31	2.6	**359.6**	**43/37**	**0.7**	366.7	46/40	0.7	374.0	48/44
22	335.7	33/25	2.4	347.6	38/31	2.6	**360.6**	**43/37**	**0.7**	367.7	46/41	0.7	375.0	48/44
20	336.6	33/25	2.4	348.5	39/31	2.6	**361.5**	**44/38**	**0.7**	368.8	46/41	0.7	376.1	48/44
18	337.5	33/25	2.4	349.5	39/31	2.6	**362.5**	**44/38**	**0.7**	369.8	46/41	0.7	377.2	49/44
16	338.4	34/26	2.4	350.4	39/32	2.6	**363.5**	**44/38**	**0.7**	370.9	47/41	0.7	378.3	49/45
14	339.4	34/26	2.4	351.4	39/32	2.6	**364.6**	**45/38**	**0.7**	371.9	47/42	0.8	379.4	49/45
12	340.3	34/26	2.4	352.3	40/32	2.7	**365.6**	**45/39**	**0.7**	373.0	47/42	0.8	380.5	49/45
10	341.2	34/26	2.4	353.3	40/32	2.7	**366.7**	**45/39**	**0.7**	374.1	47/42	0.8	381.6	50/45
8	342.2	35/27	2.4	354.3	40/33	2.7	**367.7**	**45/39**	**0.8**	375.2	48/42	0.8	382.7	50/46
6	343.1	35/27	2.4	355.3	40/33	2.7	**368.8**	**46/39**	**0.8**	376.3	48/43	0.8	383.8	50/46
4	344.1	35/27	2.4	356.3	41/33	2.7	**369.9**	**46/40**	**0.8**	377.4	48/43	0.8	384.9	51/46
2	345.1	36/27	2.4	357.3	41/33	2.7	**371.0**	**46/40**	**0.8**	378.6	48/43	0.8	386.1	51/47
0	346.1	36/28	2.5	358.4	41/34	2.7	**372.1**	**46/40**	**0.8**	379.8	49/43	0.8	387.5	51/47

P/C above 1013 + 0.2
P/C below 1013 - 0.5

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

TWY P1 (F/L) RWY 28

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.456% DN
TOR	3813m (12509ft)	**ED**	3813m (12509ft)	**TOD**	4087m (13408ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	282.4	38/27	1.3	289.1	43/33	0.3	**290.7**	**49/39**	**0.0**	290.7	49/43	0.0	290.7	49/46
66	293.7	38/29	1.6	301.5	43/34	1.1	**306.8**	**48/40**	**0.0**	306.8	51/43	0.0	306.8	53/47
62	306.1	40/31	1.7	314.5	45/37	1.5	**321.8**	**51/42**	**0.1**	322.9	54/46	0.0	322.9	57/49
58	316.8	40/33	1.8	325.7	45/39	1.8	**334.5**	**50/45**	**0.4**	338.2	53/48	0.0	338.2	56/51
54	326.4	41/35	1.8	335.5	46/41	1.9	**344.8**	**51/46**	**0.5**	349.6	53/49	0.3	352.3	56/53
52	331.0	42/34	1.8	340.2	47/40	1.9	**349.6**	**52/45**	**0.5**	354.6	54/48	0.4	358.8	57/52
50	335.5	43/35	1.9	344.9	48/41	1.9	**354.6**	**53/46**	**0.5**	359.8	55/49	0.5	365.0	57/52
48	339.7	42/36	1.9	349.4	47/42	2.0	**359.5**	**52/47**	**0.5**	364.8	55/50	0.5	370.1	57/53
46	344.0	43/37	2.0	354.0	48/42	2.1	**364.4**	**53/48**	**0.6**	369.9	55/51	0.6	375.4	58/54
44	348.2	44/37	2.1	358.5	49/43	2.2	**369.3**	**54/49**	**0.6**	375.0	56/52	0.6	380.6	58/55
42	352.7	44/38	2.1	363.2	49/44	2.2	**374.3**	**55/49**	**0.6**	380.2	57/52	0.6	385.8	59/56
40	357.2	43/39	2.2	368.0	48/45	2.3	**379.6**	**53/50**	**0.6**	385.4	55/53	0.7	392.6	58/56
38	361.9	44/40	2.2	373.1	49/45	2.4	**384.9**	**54/51**	**0.7**	392.3	56/54	0.7	398.8	58/57
36	366.8	45/40	2.3	378.3	50/46	2.6	**391.5**	**55/52**	**0.7**	398.6	56/54	0.6	404.2	59/57
34	371.5	46/41	2.3	383.1	50/47	2.9	**397.8**	**55/52**	**0.6**	403.6	57/55	0.6	409.3	59/58
32	376.2	45/42	2.4	388.3	50/48	2.8	**402.5**	**54/53**	**0.6**	408.4	56/56	0.6	414.1	59/59
30	381.1	45/42	2.9	395.7	50/48	2.3	**407.4**	**55/53**	**0.6**	413.4	57/56	0.6	419.3	60/60
28	384.9	46/43	2.9	399.5	50/48	2.3	**411.2**	**56/54**	**0.6**	417.4	58/57	0.6	423.3	60/60
26	386.0	46/43	2.9	400.6	51/49	2.3	**412.3**	**56/54**	**0.6**	418.5	58/57	0.6	424.4	60/60
24	386.9	47/44	2.9	401.5	51/49	2.3	**413.2**	**56/55**	**0.6**	419.3	58/58	0.6	425.2	61/61
22	388.3	47/44	2.8	402.4	51/49	2.3	**414.1**	**56/55**	**0.6**	420.2	59/58	0.6	426.1	61/61
20	389.7	47/44	2.7	403.3	52/49	2.3	**415.0**	**57/55**	**0.6**	421.1	59/58	0.6	426.9	61/61
18	391.1	47/44	2.6	404.2	52/50	2.3	**415.9**	**57/55**	**0.6**	421.9	59/58	0.6	427.8	62/62
16	392.5	47/44	2.5	405.1	52/50	2.3	**416.8**	**57/56**	**0.6**	422.8	60/59	0.6	428.7	62/62
14	393.9	48/45	2.4	406.0	52/50	2.3	**417.7**	**58/56**	**0.6**	423.7	60/59	0.6	429.5	62/62
12	395.3	48/45	2.3	407.0	53/51	2.3	**418.6**	**58/56**	**0.6**	424.5	60/59	0.6	430.4	63/63
10	396.5	48/45	2.3	407.9	53/51	2.3	**419.5**	**58/57**	**0.6**	425.4	61/60	0.6	431.2	63/63
8	397.4	48/45	2.3	408.9	53/51	2.3	**420.4**	**59/57**	**0.6**	426.3	61/60	0.6	432.1	63/63
6	398.4	49/45	2.3	409.8	54/51	2.3	**421.3**	**59/57**	**0.6**	427.2	61/60	0.6	433.0	64/64
4	399.3	49/46	2.3	410.7	54/52	2.3	**422.2**	**59/58**	**0.6**	428.1	62/61	0.6	433.8	64/64
2	400.3	49/46	2.3	411.6	54/52	2.3	**423.1**	**60/58**	**0.6**	429.0	62/61	0.6	434.7	64/64
0	401.2	50/46	2.3	412.6	55/52	2.3	**424.0**	**60/58**	**0.6**	429.9	62/61	0.6	435.6	65/65

P/C above 1013 + 0.2
P/C below 1013 - 0.6

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **DELHI**

A/D Elev **778ft** **(VIDP)**

F/L(TWY Z1) RWY 29

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.186% DN
TOR	4430m (14534ft)	**ED**	4430m (14534ft)	**TOD**	4430m (14534ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	290.7	46/37	0.0	290.7	49/44	0.0	**290.7**	**49/49**	**0.0**	290.7	49/49	0.0	290.7	49/49
66	306.8	45/38	0.0	306.8	52/44	0.0	**306.8**	**53/51**	**0.0**	306.8	53/53	0.0	306.8	53/53
62	322.8	47/40	0.0	322.9	54/46	0.0	**322.9**	**57/53**	**0.0**	322.9	57/56	0.0	322.9	57/57
58	333.5	47/43	0.9	338.2	53/48	0.0	**338.2**	**60/55**	**0.0**	338.2	61/58	0.0	338.2	61/61
54	343.1	48/44	1.8	352.3	53/50	0.0	**352.3**	**60/57**	**0.0**	352.3	63/60	0.0	352.3	65/64
52	347.6	49/43	2.0	357.6	54/49	0.2	**358.8**	**60/55**	**0.0**	358.8	64/59	0.0	358.8	66/62
50	352.4	50/44	2.1	362.7	55/50	0.5	**365.3**	**61/56**	**0.0**	365.3	64/60	0.0	365.3	68/63
48	357.0	49/45	2.1	367.6	54/51	0.8	**371.6**	**60/57**	**0.0**	371.6	63/60	0.0	371.6	67/64
46	361.6	50/46	2.2	372.5	55/51	1.1	**377.8**	**61/57**	**0.0**	377.8	64/61	0.0	377.8	67/65
44	366.1	51/47	2.3	377.4	56/52	1.3	**383.9**	**61/58**	**0.0**	383.9	65/62	0.0	383.9	68/65
42	370.7	52/48	2.3	382.3	57/53	1.5	**390.0**	**62/59**	**0.0**	390.0	65/62	0.0	390.0	69/66
40	375.5	51/48	2.4	387.7	55/54	1.7	**396.1**	**61/59**	**0.0**	396.1	64/63	0.0	396.1	67/66
38	380.5	51/49	3.0	395.7	55/54	1.5	**403.2**	**61/60**	**0.0**	403.2	64/63	0.0	403.2	67/67
36	385.4	52/50	3.1	400.8	56/55	1.9	**410.3**	**61/60**	**0.0**	410.3	65/64	0.0	410.3	68/68
34	392.2	53/50	2.7	405.5	57/55	2.3	**417.1**	**62/61**	**0.0**	417.1	65/64	0.0	417.1	68/68
32	398.3	52/51	2.4	410.2	56/56	2.4	**422.0**	**61/62**	**0.2**	423.6	64/65	0.0	423.6	67/69
30	402.9	52/52	2.4	415.0	57/57	2.4	**427.0**	**62/62**	**0.3**	430.1	65/66	0.0	430.1	68/69
28	406.4	53/52	2.4	418.6	58/58	2.5	**431.0**	**62/63**	**0.5**	435.9	65/66	0.0	435.9	68/70
26	407.7	53/53	2.4	419.9	58/58	2.4	**432.1**	**63/63**	**0.4**	436.2	65/66	0.0	436.2	69/70
24	408.7	54/53	2.5	421.0	58/58	2.4	**433.1**	**63/63**	**0.3**	436.2	66/67	0.0	436.2	69/71
22	409.8	54/53	2.4	422.0	58/58	2.4	**434.1**	**63/64**	**0.2**	436.2	66/67	0.0	436.2	70/71
20	410.9	54/53	2.4	423.0	59/59	2.4	**435.1**	**64/64**	**0.1**	436.2	67/68	0.0	436.2	70/71
18	411.9	54/54	2.4	423.9	59/59	2.4	**436.1**	**64/64**	**0.0**	436.2	67/68	0.0	436.2	71/72
16	413.0	55/54	2.4	424.9	59/59	2.3	**436.2**	**64/65**	**0.0**	436.2	68/68	0.0	436.2	71/72
14	414.1	55/54	2.4	425.9	60/60	2.1	**436.3**	**65/65**	**0.0**	436.3	68/69	0.0	436.3	72/73
12	415.2	55/54	2.4	427.0	60/60	1.9	**436.3**	**65/66**	**0.0**	436.3	69/69	0.0	436.3	72/73
10	416.3	55/55	2.3	428.0	60/60	1.7	**436.3**	**66/66**	**0.0**	436.3	69/70	0.0	436.3	73/74
8	417.4	56/55	2.3	429.1	61/60	1.4	**436.3**	**66/67**	**0.0**	436.3	70/70	0.0	436.3	73/74
6	418.5	56/55	2.3	430.1	61/61	1.2	**436.3**	**67/67**	**0.0**	436.3	70/71	0.0	436.3	74/75
4	419.5	56/55	2.3	431.2	61/61	1.0	**436.3**	**67/68**	**0.0**	436.3	71/71	0.0	436.3	74/75
2	420.6	57/56	2.3	432.2	61/61	0.8	**436.3**	**68/68**	**0.0**	436.3	71/72	0.0	436.3	75/76
0	421.6	57/56	2.3	433.3	62/62	0.6	**436.3**	**68/69**	**0.0**	436.3	72/72	0.0	436.3	75/76

P/C above 1013 + 0.2
P/C below 1013 - 0.7

BRITISH AIRWAYS **B747-400** LANDING DATA **MACAU (VMMC)**

A/D Elev **20ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**16**	**34**		
Landing Distance Available	2865m / 9400ft	2930m / 9613ft		
Slope	NIL	NIL		
Notes	Note 1	Notes 2,3		
WAT LIMIT °C : Man / Auto	54°	54° / 54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	5kt (284.0)	6kt (1kt)		
25F Zero HW wt or TW (Autoland)		6kt (1kt)		
25F Slippery Zero HW wt or TW (Manual)	235.0	241.0		
25F Slippery Zero HW wt or TW (Autoland)		241.0		
30F Zero HW wt or TW (Manual)	11kt (6kt)	13kt (7kt)		
30F Zero HW wt or TW (Autoland)		13kt (7kt)		
30F Slippery Zero HW wt or TW (Manual)	261.0	267.0		
30F Slippery Zero HW wt or TW (Autoland)		267.0		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **LLZ DME Rwy 16**: Final approach segment is offset from the landing direction by 54°. A visual left turn should be initiated in time to allow the aircraft to become established on the final approach course before the Missed Approach Point. **At the Missed Approach Point (2.6nm LLZ/DME), the missed approach procedure is mandatory, unless visual and established on the extended rwy centreline. Localiser fluctuations may be experienced.**
2. **ILS Rwy 34**: False glideslope apparent prior to localiser capture. Use LOC mode only until establishedon localiser.
3. **MACG and Minima**: Rwy 34 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **BANGALORE (NEW)**

A/D Elev **3001ft** Max wt Permitted (For pre flt planning) **285,760kg** **Bengaluru Kempegowda Int (VOBL)**

RUNWAY	09	27		
Landing Distance Available	4000m / 13126ft	4000m / 13126ft		
Notes				
WAT LIMIT °C : Man / Auto	48°	48°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (14kt)	15kt (14kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	3kt	3kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)				
30F Slippery Zero HW wt or TW (Autoland)	5kt	5kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

COCHIN INTL (VOCI)

COCHIN INTL and runways 09, 27 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **HYDERABAD (NEW) (VOHS)**

A/D Elev **2024ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	09L	09R	27L	27R
Landing Distance Available	3707m / 12162ft	4260m / 13979ft	4260m / 13979ft	3707m / 12162ft
Slope	.50 UP	.40 UP	.40 DN	.50 DN
Notes	Note 1			Note 1
WAT LIMIT °C : Man / Auto	54°	54°/54°	54°/54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg				
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 09L/27R:** Available for VFR operations only. Not available for instrument approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHENNAI**

A/D Elev **52ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **MADRAS (VOMM)**

RUNWAY	**07**	**25**		
Landing Distance Available	3658m / 12000ft	3658m / 12000ft		
Slope	.08UP	.08DN		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (13kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (13kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **(OLD)BANGKOK**

A/D Elev **9ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **DON MUANG (VTBD)**

RUNWAY	03L	03R	21L	21R
Landing Distance Available	3700m / 12140ft	3500m / 11483ft	3150m / 10335ft	3700m / 12140ft
Slope	NIL	.01UP	.01DN	NIL
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (10kt)	10kt (4kt)	15kt (13kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	2kt	0kt	261.0	2kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (13kt)	15kt (10kt)	10kt (4kt)	15kt (13kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	2kt	0kt	280.8	2kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg			750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.

Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BANGKOK**

A/D Elev **5ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **SUVARNABHUMI INTL (VTBS)**

RUNWAY	01L	01R	19L	19R
Landing Distance Available	3700m / 12139ft	4000m / 13123ft	4000m / 13123ft	3700m / 12139ft
Slope	NIL	NIL	NIL	NIL
Notes		Note 1	Note 1	
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/54°	54°/54°	54°/54°	54°/54°
25F Zero HW wt or TW (Manual)	15kt (13kt)	15kt	15kt	15kt (13kt)
25F Zero HW wt or TW (Autoland)	15kt (13kt)	15kt	15kt	15kt (13kt)
25F Slippery Zero HW wt or TW (Manual)	2kt	5kt	5kt	2kt
25F Slippery Zero HW wt or TW (Autoland)	2kt	5kt	5kt	2kt
30F Zero HW wt or TW (Manual)	15kt (13kt)	15kt	15kt	15kt (13kt)
30F Zero HW wt or TW (Autoland)	15kt (13kt)	15kt	15kt	15kt (13kt)
30F Slippery Zero HW wt or TW (Manual)	2kt	5kt	5kt	2kt
30F Slippery Zero HW wt or TW (Autoland)	2kt	5kt	5kt	2kt
Red'n per extra kt TW kg	5300kg			5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Due to surface characteristics of Rwy 01R/19L**, heavy precipitation is likely to result in patches of surface water or flooding, and may possible be slippery in these conditions.

BRITISH AIRWAYS **B747-400** LANDING DATA **RAYONG**

A/D Elev **59ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **(U-TAPHAO) (VTBU)**

RUNWAY	**18**	**36**		
Landing Distance Available	3505m / 11500ft	3505m / 11500ft		
Slope	.30DN	.30UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	0kt	0kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHIANG MAI (VTCC)**

A/D Elev **1036ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**18**	**36**		
Landing Distance Available	3100m / 10171ft	3100m / 10171ft		
Slope	.29DN	.29UP		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	52°	52°		
25F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	251.0	251.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (2kt)	8kt (2kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	275.0	275.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **PHUKET (VTSP)**

A/D Elev **82ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B

RUNWAY	**09**	**27**		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Slope	.63UP	.63DN		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	7kt (1kt)	7kt (1kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **BALI INTL**

A/D Elev **14ft** Max wt Permitted (For pre flt planning) **285,760kg** **I GUSTI NGURAH RAI (WADD)**

RUNWAY	09	27		
Landing Distance Available	3000m / 9843ft	3000m / 9843ft		
Notes	Notes 1	Notes 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	8kt (3kt)	8kt (3kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	247.0	247.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	8kt (3kt)	8kt (3kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Turning:** Follow nose wheel guidelines when using West turning area North side of Rwy 09.

BRITISH AIRWAYS **B747-400** LANDING DATA **BRUNEI**

A/D Elev **73ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **B.S. BEGAWAN (WBSB)**

RUNWAY	03	21		
Landing Distance Available	3658m / 120001ft	3658m / 12001ft		
Slope	.46UP	.46DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** Terrain located EAST clockwise through SOUTH of airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **JAKARTA**

A/D Elev **34ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **SOEKARNO-HATTA (WIII)**

RUNWAY	07L	07R	25L	25R
Landing Distance Available	3600m / 11811ft	3660m / 12008ft	3660m / 12008ft	3600m / 11811ft
Slope	.08DN	.05DN	.05UP	.08UP
Notes	Note 1	Note 1	Note 1,2	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (13kt)	15kt (13kt)	15kt (12kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	1kt	1kt	1kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (13kt)	15kt (13kt)	15kt (12kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt	1kt	1kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located SOUTH clockwise through SOUTH WEST of the airfield.
2. **MACG:** 2.8% minima can be used up to 54°C OAT and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **JOHOR BAHRU (WMKJ)**

A/D Elev **127ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	16	34		
Landing Distance Available	3800m / 12464ft	3800m / 12464ft		
Slope	.14 DN	.14 UP		
Notes				
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	4kt	4kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **KUALA LUMPUR**

A/D Elev **70ft** Max wt Permitted (For pre flt planning) **285,760kg** **SEPANG (WMKK)**

RUNWAY	14L	14R	32L	32R
Landing Distance Available	4019m / 13186ft	4000m / 13123ft	4000m / 13123ft	4124m / 13530ft
Notes	Notes 1,2	Note 1,2	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)	15kt (15kt)	15kt (15kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)	15kt (15kt)	15kt (15kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH clockwise through SOUTH EAST of the airfield.
2. **MACG:** 3% & 4.5% minima can be used up to 54°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **KUALA LUMPUR**

A/D Elev **70ft** Max wt Permitted (For pre flt planning) **285,760kg** **SEPANG (WMKK)**

RUNWAY	15	33		
Landing Distance Available	3960m / 12992ft	3960m / 12992ft		
Notes	Notes 1,2	Note 1,2		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (15kt)	15kt (15kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain located NORTH clockwise through SOUTH EAST of the airfield.
2. **MACG:** 3% & 4.5% minima can be used up to 54°C OAT and up to 285760kg.

BRITISH AIRWAYS **B747-400** LANDING DATA **PENANG (WMKP)**

A/D Elev **11ft** Max wt Permitted (For pre flt planning) **285,760kg**

RUNWAY	**04**	**22**		
Landing Distance Available	3352m/11000ft	3352m/11000ft		
Notes	Note 1			
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°		
25F Zero HW wt or TW (Manual)	15kt (8kt)	15kt (8kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	277.0	277.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (8kt)	15kt (8kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG and Minima**: Rwy 04 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

BRITISH AIRWAYS **B747-400** LANDING DATA **SINGAPORE**

A/D Elev **22ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **CHANGI (WSSS)**

RUNWAY	02L	02C	20C	20R
Landing Distance Available	4000m / 13123ft	4000m / 13123ft	4000m / 13123ft	3260m / 10696ft
Slope	.06DN	NIL	NIL	.06UP
Notes	Note 1	Note 1	Note 1	Note 1
WAT LIMIT °C : Man / Auto	54°/54°	54°	54°/54°	54°/54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt	11kt(5kt)
25F Zero HW wt or TW (Autoland)	15kt		15kt	11kt(5kt)
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	270.0
25F Slippery Zero HW wt or TW (Autoland)	5kt		5kt	270.0
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	11kt(5kt)
30F Zero HW wt or TW (Autoland)	15kt		15kt	11kt(5kt)
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	280.8
30F Slippery Zero HW wt or TW (Autoland)	5kt		5kt	280.8
Red'n per extra kt TW kg				5300kg
Inc per kt HW kg				750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 02R/20L** solely for use by Singapore Air Force.

BRITISH AIRWAYS **B747-400** LANDING DATA **BEIJING**

A/D Elev **115ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **PEKING (ZBAA)**

RUNWAY	01	18L	18R	19
Landing Distance Available	3800m / 12467ft	3800m / 12467ft	3200m / 10499ft	3800m / 12467ft
Slope	.08 UP	.10 DN	.08DN	.08DN
Notes		Note 1		
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt	12kt (5kt)	15kt
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	3kt	3kt	266.0	3kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt	12kt (5kt)	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	3kt	3kt	280.8	3kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg			750kg	

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 18L Braking Action : Runway is only grooved from 200m to 1200m from Threshold of Runway 36R, therefore degraded braking action is possible when wet.

BRITISH AIRWAYS **B747-400** LANDING DATA **BEIJING**

A/D Elev **115ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **PEKING (ZBAA)**

RUNWAY	36L	36R		
Landing Distance Available	3200m / 10499ft	3800m / 12467ft		
Slope	.08UP	.10UP		
Notes	Note 1	Note 2		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	12kt (5kt)	15kt		
25F Zero HW wt or TW (Autoland)		15kt		
25F Slippery Zero HW wt or TW (Manual)	266.0	3kt		
25F Slippery Zero HW wt or TW (Autoland)		3kt		
30F Zero HW wt or TW (Manual)	12kt (5kt)	15kt		
30F Zero HW wt or TW (Autoland)		15kt		
30F Slippery Zero HW wt or TW (Manual)	280.8	3kt		
30F Slippery Zero HW wt or TW (Autoland)		3kt		
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg			

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **Rwy 36L approach:** ILS glide glope may be unstable up to DME 2.6 from the Rwy.
2. **Rwy 36R Braking Action**: Runway is only groved from 200m to 1200m from Threshold on Runway 36R, therefore degraded braking action is possible when wet.

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY Q0) RWY 01

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.08% UP
TOR	3800m (12467ft)	**ED**	3860m (12664ft)	**TOD**	4300m (14107ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	287.2	38/30	1.1	292.6	44/36	1.1	**297.9**	**49/42**	**0.0**	297.9	50/45	0.0	297.9	50/49
66	300.6	40/31	1.2	306.6	45/37	1.1	**312.2**	**51/42**	**0.2**	314.4	54/46	0.0	314.4	55/49
62	314.1	42/33	1.4	320.9	48/39	1.2	**326.8**	**53/45**	**0.3**	330.0	56/48	0.1	330.8	59/52
58	325.3	42/35	1.6	333.4	47/41	1.4	**340.4**	**53/47**	**0.3**	343.8	55/50	0.3	346.5	58/54
54	334.1	43/37	2.1	344.5	48/43	1.6	**352.3**	**53/49**	**0.4**	356.1	56/52	0.4	359.6	59/55
52	338.4	44/36	2.1	349.0	49/42	1.7	**357.7**	**54/48**	**0.4**	361.8	57/51	0.4	365.7	59/54
50	342.4	44/37	2.2	353.4	48/43	2.0	**363.4**	**54/48**	**0.4**	367.6	56/52	0.4	371.8	59/55
48	346.6	44/38	2.3	357.9	49/44	2.2	**369.0**	**54/49**	**0.5**	373.5	57/52	0.4	377.8	59/56
46	350.9	45/39	2.3	362.4	50/44	2.4	**374.6**	**55/50**	**0.5**	379.3	57/53	0.4	383.6	60/56
44	355.0	46/40	2.4	366.8	51/45	2.5	**379.5**	**56/51**	**0.5**	384.8	58/54	0.5	389.5	61/57
42	359.3	45/40	2.4	371.4	50/46	2.6	**384.3**	**54/51**	**0.7**	390.9	57/54	0.5	395.9	59/57
40	363.7	46/41	2.5	376.2	50/47	2.9	**390.8**	**55/52**	**0.6**	397.1	57/55	0.4	401.4	60/58
38	368.4	47/42	2.5	381.1	51/48	3.3	**397.8**	**55/52**	**0.5**	403.0	58/55	0.5	407.6	60/59
36	373.2	47/43	2.6	386.0	52/48	3.3	**402.6**	**56/53**	**0.6**	409.0	58/56	0.5	413.7	61/59
34	377.9	47/43	3.1	393.6	51/49	2.7	**407.3**	**56/54**	**0.7**	414.1	58/57	0.5	419.5	60/60
32	382.2	47/44	3.3	398.9	51/49	2.6	**411.7**	**56/55**	**0.7**	418.5	58/58	0.6	424.9	61/61
30	387.0	48/45	3.3	403.4	52/50	2.6	**416.4**	**57/56**	**0.7**	423.3	59/58	0.7	430.2	61/61
28	389.5	48/45	3.1	404.9	52/50	2.6	**417.9**	**57/56**	**0.7**	424.7	60/59	0.7	431.7	62/62
26	391.3	48/45	2.9	405.9	53/50	2.6	**418.9**	**58/56**	**0.7**	425.8	60/59	0.7	432.4	62/62
24	393.2	48/45	2.8	407.0	53/51	2.6	**420.0**	**58/56**	**0.7**	426.9	60/59	0.6	433.0	62/62
22	395.0	49/45	2.6	408.0	53/51	2.6	**421.1**	**58/57**	**0.7**	428.0	60/60	0.6	433.6	63/63
20	396.5	49/46	2.5	409.1	54/51	2.6	**422.2**	**58/57**	**0.7**	429.1	61/60	0.5	434.1	63/63
18	397.5	49/46	2.5	410.2	54/52	2.6	**423.3**	**59/57**	**0.7**	430.0	61/60	0.5	434.7	63/64
16	398.6	49/46	2.5	411.3	54/52	2.6	**424.4**	**59/57**	**0.6**	430.6	61/60	0.5	435.3	64/64
14	399.7	49/46	2.5	412.4	54/52	2.6	**425.5**	**59/58**	**0.6**	431.2	62/61	0.5	435.9	64/64
12	400.7	50/47	2.6	413.5	55/52	2.6	**426.6**	**60/58**	**0.5**	431.7	62/61	0.5	436.5	65/65
10	401.8	50/47	2.6	414.6	55/53	2.6	**427.5**	**60/58**	**0.5**	432.4	62/62	0.5	437.0	65/65
8	402.9	50/47	2.6	415.7	55/53	2.5	**428.1**	**60/59**	**0.5**	433.0	63/62	0.5	437.6	65/65
6	404.0	51/47	2.6	416.9	55/53	2.4	**428.8**	**61/59**	**0.5**	433.6	63/62	0.5	438.2	66/66
4	405.2	51/48	2.6	418.1	56/53	2.3	**429.4**	**61/59**	**0.5**	434.2	64/63	0.5	438.8	66/66
2	406.3	51/48	2.6	419.3	56/54	2.1	**430.0**	**62/60**	**0.5**	434.8	64/63	0.5	439.4	67/67
0	407.5	51/48	2.6	420.5	56/54	2.0	**430.6**	**62/60**	**0.5**	435.4	65/63	0.5	439.9	67/67

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 01

YV/CDY SIDS ALL ENGINES - FULL CLIMB POWER SHOULD BE USED DURING DEPT TO MEET PERFORMANCE REQUIREMENTS. ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX/TONIL SIDS - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY E8/W9) RWY 18L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.096% DN
TOR	3800m (12467ft)	**ED**	3860m (12664ft)	**TOD**	4000m (13123ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	293.9	37/29	0.8	297.9	43/35	0.0	**297.9**	**50/42**	**0.0**	297.9	50/45	0.0	297.9	50/49
66	304.4	40/31	2.0	314.2	44/36	0.0	**314.4**	**51/42**	**0.0**	314.4	54/46	0.0	314.4	55/50
62	316.3	42/33	2.0	326.5	47/38	0.9	**330.8**	**53/45**	**0.0**	330.8	56/48	0.0	330.8	59/52
58	326.4	43/36	2.1	336.7	47/41	2.0	**346.5**	**52/47**	**0.0**	346.5	55/50	0.0	346.5	59/54
54	335.3	43/37	2.1	345.8	48/43	2.2	**356.9**	**53/48**	**0.4**	360.8	55/52	0.0	360.8	59/55
52	339.6	44/36	2.1	350.2	49/42	2.3	**361.6**	**54/47**	**0.6**	367.3	56/50	0.0	367.3	59/54
50	343.6	44/37	2.2	354.6	48/43	2.4	**366.5**	**53/48**	**0.7**	373.1	55/51	0.1	373.7	59/55
48	347.9	45/38	2.2	359.1	49/44	2.4	**371.3**	**54/49**	**0.7**	378.1	56/52	0.2	380.0	59/56
46	352.1	45/39	2.3	363.6	50/45	2.5	**376.1**	**55/50**	**0.7**	382.9	57/53	0.4	386.4	60/56
44	356.3	46/40	2.4	368.1	51/45	2.5	**380.8**	**56/51**	**0.7**	388.1	58/54	0.5	392.8	60/57
42	360.6	45/41	2.4	372.8	50/46	2.6	**385.7**	**55/52**	**1.1**	396.3	56/54	0.3	399.1	59/57
40	365.1	46/41	2.5	377.6	51/47	3.1	**393.1**	**55/52**	**0.8**	401.0	57/55	0.5	405.5	59/58
38	369.8	47/42	2.5	382.4	51/48	3.3	**399.1**	**55/53**	**0.7**	405.7	58/55	0.7	412.4	60/58
36	374.6	48/43	2.6	387.7	52/49	3.2	**403.9**	**56/53**	**0.7**	410.7	58/56	0.7	417.4	61/59
34	379.4	47/44	3.3	396.0	51/49	2.5	**408.7**	**56/54**	**0.7**	415.4	58/57	0.7	422.2	60/60
32	383.7	47/44	3.3	400.2	52/49	2.5	**412.9**	**56/55**	**0.7**	419.8	59/58	0.7	426.6	61/61
30	389.5	48/45	3.1	404.8	52/50	2.6	**417.7**	**57/56**	**0.7**	424.5	59/59	0.7	431.5	61/62
28	392.0	48/45	2.8	406.2	53/50	2.6	**419.2**	**58/56**	**0.7**	426.1	60/59	0.7	433.0	62/62
26	393.9	48/45	2.7	407.3	53/51	2.6	**420.3**	**58/56**	**0.7**	427.1	60/59	0.7	434.1	62/62
24	395.7	48/45	2.5	408.3	53/51	2.6	**421.3**	**58/57**	**0.7**	428.2	60/59	0.7	435.1	62/63
22	396.9	49/45	2.5	409.4	53/51	2.6	**422.4**	**58/57**	**0.7**	429.3	60/60	0.7	436.3	63/63
20	397.9	49/46	2.5	410.5	54/51	2.6	**423.5**	**59/57**	**0.7**	430.5	61/60	0.7	437.4	63/63
18	399.0	49/46	2.5	411.6	54/52	2.6	**424.6**	**59/57**	**0.7**	431.5	61/60	0.7	438.5	63/63
16	400.0	49/46	2.5	412.6	54/52	2.6	**425.7**	**59/58**	**0.7**	432.7	61/61	0.7	439.7	64/64
14	401.1	50/46	2.5	413.7	54/52	2.6	**426.8**	**59/58**	**0.7**	433.8	62/61	0.7	440.8	64/64
12	402.2	50/47	2.5	414.8	55/52	2.6	**428.0**	**60/58**	**0.7**	434.9	62/61	0.7	442.0	64/64
10	403.2	50/47	2.6	416.0	55/53	2.6	**429.2**	**60/58**	**0.7**	436.1	62/61	0.6	442.0	65/65
8	404.3	50/47	2.6	417.1	55/53	2.6	**430.3**	**60/59**	**0.7**	437.3	62/62	0.5	442.0	65/65
6	405.5	51/47	2.6	418.3	56/53	2.6	**431.5**	**61/59**	**0.7**	438.5	63/62	0.4	442.0	66/66
4	406.6	51/48	2.6	419.5	56/54	2.6	**432.7**	**61/59**	**0.7**	439.8	63/62	0.2	442.0	66/66
2	407.8	51/48	2.6	420.7	56/54	2.6	**433.9**	**61/60**	**0.7**	440.9	63/63	0.1	442.0	67/67
0	409.0	52/48	2.6	421.8	56/54	2.7	**435.1**	**61/60**	**0.7**	442.0	64/63	0.0	442.0	67/67

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 18L

YV/CDY SIDS ENGINE FAILURE BEFORE 5000FT - CONTINUE TO WF (AA282 OR AA265 FOR RNAV SIDS)BEFORE TURNING LEFT TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV. LADIX/TONIL SIDS - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE LEFT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY P9) RWY 18R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.076% DN
TOR	3200m (10498ft)	**ED**	3260m (10695ft)	**TOD**	3200m (10498ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	266.6	31/21	1.8	275.4	36/26	1.7	**284.1**	**41/32**	**0.5**	289.4	44/35	0.6	294.9	46/38
66	275.8	33/22	1.9	285.1	39/27	1.8	**294.1**	**44/33**	**0.6**	299.7	46/36	0.6	305.3	48/39
62	286.5	36/24	1.9	296.2	41/30	1.9	**305.6**	**46/36**	**0.6**	311.3	49/39	0.6	317.3	51/42
58	296.7	37/26	2.0	306.8	42/32	2.0	**316.6**	**47/38**	**0.6**	322.5	49/41	0.6	328.7	51/44
54	304.7	37/28	2.1	315.2	42/34	2.1	**325.9**	**48/40**	**0.6**	332.0	50/43	0.6	338.1	52/46
52	308.7	38/27	2.1	319.4	43/33	2.2	**330.2**	**49/39**	**0.6**	336.1	51/42	0.6	342.4	53/45
50	312.1	38/28	2.2	323.0	43/34	2.3	**334.5**	**48/40**	**0.6**	340.6	50/43	0.6	346.8	52/46
48	316.1	39/29	2.2	327.2	44/35	2.3	**338.7**	**49/41**	**0.6**	344.8	51/44	0.6	351.2	53/47
46	320.1	39/30	2.2	331.2	44/36	2.3	**342.8**	**50/42**	**0.6**	349.0	52/45	0.6	355.4	54/48
44	323.9	40/31	2.2	335.1	45/36	2.3	**346.8**	**50/42**	**0.6**	353.0	53/45	0.7	359.7	55/49
42	327.5	39/31	2.3	339.0	44/37	2.4	**351.0**	**49/43**	**0.6**	357.4	52/46	0.7	364.2	54/50
40	331.6	40/32	2.3	343.0	45/38	2.4	**355.2**	**50/44**	**0.7**	361.8	52/47	0.7	368.8	54/51
38	335.6	41/33	2.3	347.2	46/39	2.5	**359.7**	**51/45**	**0.7**	366.4	53/48	0.7	373.5	55/51
36	339.9	42/34	2.3	351.5	47/40	2.5	**364.2**	**52/46**	**0.7**	371.1	54/49	0.7	378.4	56/52
34	343.8	41/34	2.4	355.6	46/40	2.6	**368.7**	**51/46**	**0.7**	375.7	53/50	0.7	383.0	55/53
32	347.5	42/35	2.4	359.5	47/41	2.7	**372.8**	**52/47**	**0.7**	380.0	54/50	0.8	387.7	56/54
30	351.6	42/36	2.5	363.9	48/42	2.7	**377.5**	**53/48**	**0.7**	384.7	55/51	1.1	395.8	56/54
28	352.9	43/36	2.5	365.2	48/42	2.8	**379.0**	**53/48**	**0.7**	386.1	55/51	1.1	397.3	57/54
26	353.8	43/36	2.5	366.2	48/42	2.8	**380.0**	**53/49**	**0.7**	387.4	56/52	1.1	398.3	57/54
24	354.7	43/37	2.5	367.2	48/43	2.8	**381.1**	**53/49**	**0.8**	389.2	56/52	1.0	399.4	57/55
22	355.7	44/37	2.5	368.2	49/43	2.8	**382.1**	**54/49**	**0.9**	391.0	56/52	0.9	400.4	57/55
20	356.6	44/37	2.5	369.3	49/43	2.8	**383.2**	**54/49**	**1.0**	392.9	56/52	0.9	401.4	58/55
18	357.6	44/37	2.5	370.3	49/43	2.8	**384.2**	**54/50**	**1.1**	394.8	56/52	0.8	402.5	58/55
16	358.6	44/38	2.6	371.4	49/44	2.8	**385.3**	**55/50**	**1.1**	396.4	56/52	0.7	403.5	58/56
14	359.6	45/38	2.6	372.4	50/44	2.8	**386.4**	**55/50**	**1.1**	397.4	56/53	0.7	404.6	58/56
12	360.6	45/38	2.6	373.5	50/44	2.9	**388.0**	**55/50**	**1.1**	398.5	57/53	0.7	405.7	59/56
10	361.6	45/38	2.6	374.6	50/44	3.1	**389.9**	**55/50**	**1.0**	399.6	57/53	0.7	406.8	59/57
8	362.7	46/39	2.6	375.7	51/45	3.2	**391.9**	**55/51**	**0.9**	400.7	57/53	0.7	408.0	59/57
6	363.7	46/39	2.6	376.8	51/45	3.4	**393.9**	**55/51**	**0.8**	401.8	58/54	0.7	409.1	60/57
4	364.8	46/39	2.6	378.0	51/45	3.6	**395.9**	**56/51**	**0.7**	402.9	58/54	0.7	410.3	60/57
2	365.9	46/39	2.7	379.2	51/46	3.6	**397.1**	**56/51**	**0.7**	404.1	58/54	0.7	411.4	60/58
0	367.0	47/40	2.7	380.3	52/46	3.6	**398.2**	**56/51**	**0.7**	405.2	58/54	0.7	412.6	61/58

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 18R

YV/CDY SIDS ENGINE FAILURE BEFORE 5000FT - CONTINUE TO WF (AA282 OR AA265 FOR RNAV SIDS)BEFORE TURNING LEFT TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX/TONIL SIDS - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE LEFT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY U2) RWY 19

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.08% DN
TOR	3800m (12467ft)	**ED**	3860m (12664ft)	**TOD**	3800m (12467ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	280.7	40/31	1.1	286.1	45/37	1.0	**291.3**	**48/43**	**0.3**	294.1	49/46	0.3	296.9	50/49
66	294.3	42/32	1.2	300.1	47/38	1.1	**305.6**	**52/44**	**0.3**	308.5	53/47	0.3	311.4	54/50
62	308.2	44/34	1.2	314.2	49/40	1.2	**320.0**	**55/46**	**0.3**	323.2	57/49	0.3	326.3	58/53
58	320.9	44/36	1.3	327.4	49/42	1.2	**333.6**	**55/48**	**0.3**	336.9	58/51	0.3	340.1	60/55
54	329.8	45/38	1.8	339.0	50/44	1.3	**345.5**	**55/50**	**0.4**	349.0	58/53	0.3	352.4	60/57
52	333.9	46/37	2.1	344.2	50/43	1.4	**351.0**	**56/49**	**0.4**	354.7	58/52	0.4	358.2	61/55
50	337.8	45/38	2.2	348.8	50/44	1.6	**356.7**	**55/50**	**0.4**	360.4	58/53	0.4	364.1	60/56
48	342.1	46/39	2.2	353.1	51/45	1.9	**362.4**	**56/50**	**0.4**	366.2	58/54	0.4	370.0	61/57
46	346.2	47/40	2.2	357.4	51/45	2.1	**368.1**	**57/51**	**0.4**	372.1	59/54	0.4	376.0	62/58
44	350.2	47/40	2.3	361.7	52/46	2.4	**373.9**	**57/52**	**0.4**	378.0	60/55	0.4	381.9	62/58
42	354.4	46/41	2.4	366.3	51/47	2.5	**379.0**	**56/53**	**0.5**	383.8	58/56	0.4	387.7	61/59
40	358.7	47/42	2.4	370.9	52/48	2.6	**383.8**	**57/53**	**0.6**	389.6	59/56	0.4	393.8	62/60
38	363.2	48/43	2.5	375.7	53/49	2.9	**390.0**	**57/54**	**0.6**	396.2	59/57	0.4	400.0	62/60
36	367.9	49/44	2.5	380.6	54/49	3.4	**397.4**	**58/54**	**0.5**	402.2	60/57	0.4	406.4	63/61
34	372.5	48/44	2.6	385.3	53/50	3.3	**401.9**	**57/55**	**0.6**	408.1	59/58	0.4	412.4	62/62
32	376.8	49/45	2.9	391.5	53/51	2.9	**406.1**	**58/56**	**0.7**	412.7	60/59	0.5	418.0	62/62
30	381.5	50/46	3.3	398.1	54/51	2.5	**410.8**	**59/57**	**0.7**	417.5	61/60	0.7	424.0	63/63
28	382.9	50/46	3.3	399.5	54/51	2.6	**412.3**	**59/57**	**0.7**	419.0	61/60	0.6	425.1	63/63
26	384.0	50/46	3.3	400.5	54/52	2.6	**413.3**	**59/57**	**0.7**	420.1	61/60	0.5	425.5	64/63
24	385.0	50/47	3.3	401.5	54/52	2.6	**414.4**	**59/58**	**0.7**	421.1	62/60	0.5	425.9	64/64
22	386.1	51/47	3.3	402.6	55/52	2.6	**415.4**	**60/58**	**0.7**	421.9	62/61	0.4	426.3	64/64
20	387.3	51/47	3.3	403.6	55/52	2.6	**416.5**	**60/58**	**0.6**	422.4	62/61	0.4	426.7	65/65
18	389.2	51/47	3.1	404.7	55/53	2.6	**417.6**	**60/58**	**0.5**	422.8	63/62	0.4	427.2	65/65
16	391.1	51/48	2.9	405.8	56/53	2.6	**418.8**	**60/59**	**0.5**	423.3	63/62	0.4	427.6	66/65
14	393.0	51/48	2.8	406.9	56/53	2.5	**419.4**	**61/59**	**0.4**	423.7	63/62	0.4	428.0	66/66
12	394.9	51/48	2.6	408.0	56/53	2.4	**419.9**	**61/59**	**0.4**	424.2	64/63	0.4	428.4	67/66
10	396.5	52/48	2.5	409.1	56/54	2.3	**420.4**	**62/60**	**0.4**	424.7	64/63	0.4	428.9	67/67
8	397.6	52/48	2.5	410.2	57/54	2.1	**420.8**	**62/60**	**0.4**	425.1	65/63	0.4	429.3	67/67
6	398.7	52/48	2.5	411.4	57/54	2.0	**421.3**	**63/60**	**0.4**	425.6	65/64	0.4	429.8	68/67
4	399.8	52/49	2.5	412.5	57/55	1.9	**421.8**	**63/61**	**0.4**	426.1	66/64	0.4	430.3	68/68
2	400.9	53/49	2.6	413.7	58/55	1.7	**422.3**	**63/61**	**0.4**	426.5	66/65	0.4	430.7	69/68
0	402.1	53/49	2.4	414.3	58/55	1.7	**422.7**	**64/62**	**0.4**	427.0	66/65	0.4	431.2	69/69

P/C above 1013 + 0.2
P/C below 1013 - 0.6

PERFORMANCE RESTRICTIONS - Rwy 19

YV/CDY SIDS ENGINE FAILURE BEFORE 5000FT - CONTINUE TO WF (AA282 OR AA265 FOR RNAV SIDS)BEFORE TURNING LEFT TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX/TONIL SIDS - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE LEFT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY P0) RWY 36L

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.076% UP
TOR	3200m (10498ft)	**ED**	3260m (10695ft)	**TOD**	3200m (10498ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	265.6	31/20	1.8	274.4	36/26	1.7	**282.7**	**41/32**	**0.5**	287.7	44/35	0.5	292.9	46/38
66	274.7	33/22	1.9	284.0	38/27	1.8	**293.0**	**44/33**	**0.5**	298.3	46/36	0.5	303.7	48/39
62	285.4	36/24	1.9	295.1	41/30	1.9	**304.5**	**46/36**	**0.6**	310.2	49/39	0.6	315.9	51/42
58	295.5	37/26	2.0	305.6	41/32	2.0	**315.4**	**47/38**	**0.6**	321.3	49/41	0.6	327.4	51/44
54	303.5	37/28	2.1	314.1	42/34	2.1	**324.7**	**48/40**	**0.6**	330.8	50/43	0.6	336.9	52/46
52	307.5	38/27	2.2	318.3	43/33	2.1	**329.0**	**48/39**	**0.6**	334.9	51/42	0.6	341.2	53/45
50	310.9	38/28	2.2	321.8	43/34	2.3	**333.3**	**48/40**	**0.6**	339.4	50/43	0.6	345.6	52/46
48	314.9	39/29	2.2	326.0	44/35	2.3	**337.5**	**49/41**	**0.6**	343.6	51/44	0.6	349.9	53/47
46	318.9	39/30	2.2	330.1	44/36	2.3	**341.6**	**49/42**	**0.6**	347.7	52/45	0.7	354.2	54/48
44	322.7	40/30	2.2	333.9	45/36	2.3	**345.5**	**50/42**	**0.6**	351.8	53/45	0.7	358.4	55/49
42	326.2	39/31	2.3	337.7	44/37	2.4	**349.7**	**49/43**	**0.6**	356.1	51/46	0.7	362.8	54/50
40	330.4	40/32	2.3	341.8	45/38	2.4	**354.0**	**50/44**	**0.7**	360.5	52/47	0.7	367.4	54/50
38	334.4	41/33	2.3	345.9	46/39	2.5	**358.3**	**51/45**	**0.7**	365.0	53/48	0.7	372.1	55/51
36	338.5	42/33	2.4	350.3	47/39	2.5	**362.9**	**52/46**	**0.7**	369.8	54/49	0.7	377.0	56/52
34	342.5	41/34	2.4	354.3	46/40	2.6	**367.3**	**51/46**	**0.7**	374.2	53/50	0.7	381.6	55/53
32	346.1	42/35	2.4	358.2	47/41	2.6	**371.4**	**52/47**	**0.7**	378.5	54/50	0.7	385.9	56/54
30	350.3	42/36	2.4	362.5	47/42	2.7	**376.0**	**53/48**	**0.7**	383.2	55/51	1.0	393.3	56/54
28	351.5	43/36	2.5	363.9	48/42	2.7	**377.5**	**53/48**	**0.7**	384.7	55/51	1.1	395.9	57/54
26	352.4	43/36	2.5	364.9	48/42	2.7	**378.6**	**53/48**	**0.7**	385.7	55/52	1.1	396.9	57/54
24	353.4	43/36	2.5	365.8	48/42	2.8	**379.6**	**53/49**	**0.7**	386.8	56/52	1.1	398.0	57/55
22	354.3	43/37	2.5	366.9	49/43	2.8	**380.7**	**54/49**	**0.8**	388.6	56/52	1.0	399.0	57/55
20	355.2	44/37	2.5	367.9	49/43	2.8	**381.7**	**54/49**	**0.9**	390.4	56/52	1.0	400.0	58/55
18	356.2	44/37	2.5	368.9	49/43	2.8	**382.8**	**54/50**	**1.0**	392.3	56/52	0.9	401.1	58/55
16	357.2	44/37	2.6	370.0	49/44	2.8	**383.9**	**54/50**	**1.0**	394.2	56/52	0.8	402.1	58/56
14	358.2	45/38	2.6	371.0	50/44	2.8	**385.0**	**55/50**	**1.1**	396.0	56/53	0.7	403.2	58/56
12	359.2	45/38	2.6	372.1	50/44	2.8	**386.1**	**55/50**	**1.1**	397.1	57/53	0.7	404.3	59/56
10	360.2	45/38	2.6	373.2	50/44	2.8	**387.4**	**55/51**	**1.1**	398.2	57/53	0.7	405.4	59/56
8	361.3	45/39	2.6	374.3	51/45	3.0	**389.4**	**55/51**	**1.0**	399.3	57/53	0.7	406.5	59/57
6	362.3	46/39	2.6	375.4	51/45	3.2	**391.3**	**56/51**	**0.9**	400.4	57/54	0.7	407.7	60/57
4	363.4	46/39	2.6	376.5	51/45	3.4	**393.3**	**56/51**	**0.8**	401.5	58/54	0.7	408.8	60/57
2	364.4	46/39	2.7	377.7	51/45	3.5	**395.4**	**56/51**	**0.7**	402.6	58/54	0.7	410.0	60/58
0	365.5	47/40	2.7	378.9	52/46	3.6	**396.8**	**56/51**	**0.7**	403.8	58/54	0.7	411.2	60/58

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 36L

CDY/LADIX/TONIL/YV SIDS ALL ENGINES - FULL CLIMB POWER SHOULD BE USED DURING DEPT TO MEET PERFORMANCE REQUIREMENTS. ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400G** TAKE OFF DATA **BEIJING**

A/D Elev **115ft** **PEKING (ZBAA)**

F/L (TWY E0/W0) RWY 36R

DAY CLG	REF.AOI	**DAY VIS**	REF.AOI	**PVD**	
NIGHT CLG	REF.AOI	**NIGHT VIS**	REF.AOI	**SLOPE**	0.096% UP
TOR	3800m (12467ft)	**ED**	3860m (12664ft)	**TOD**	4000m (13123ft)

FLAP 20 **RB211-524G/PACKS ON/DRY or WET RWY** **FLAP 20**

Temp °C	10kt Tail	V1 D/W	Inc /kt	5kt Tail	V1 D/W	Inc /kt	ZERO WIND	V1 D/W	Inc /kt	10kt Head	V1 D/W	Inc /kt	20kt Head	V1 D/W
70	292.3	37/29	1.1	297.9	43/35	0.0	**297.9**	**49/41**	**0.0**	297.9	50/45	0.0	297.9	50/48
66	302.7	39/30	2.0	312.6	44/36	0.4	**314.4**	**50/42**	**0.0**	314.4	54/46	0.0	314.4	55/49
62	314.5	42/33	2.1	324.9	47/38	1.2	**330.8**	**53/44**	**0.0**	330.8	56/48	0.0	330.8	59/52
58	324.7	42/35	2.1	335.0	47/41	2.1	**345.6**	**52/46**	**0.1**	346.5	55/50	0.0	346.5	58/53
54	333.6	43/37	2.1	344.1	48/43	2.2	**355.2**	**53/48**	**0.6**	360.8	55/51	0.0	360.8	58/55
52	337.8	44/36	2.1	348.4	49/42	2.3	**359.8**	**54/47**	**0.6**	366.2	56/50	0.1	367.3	59/54
50	341.8	44/37	2.2	352.8	48/43	2.4	**364.7**	**53/48**	**0.7**	371.2	55/51	0.3	373.7	58/55
48	346.1	45/38	2.2	357.3	49/44	2.4	**369.5**	**54/49**	**0.7**	376.1	56/52	0.4	380.0	59/55
46	350.3	45/39	2.3	361.7	50/44	2.5	**374.2**	**55/50**	**0.7**	381.0	57/53	0.5	386.4	59/56
44	354.4	46/40	2.3	366.1	51/45	2.6	**378.9**	**56/51**	**0.7**	385.7	58/53	0.7	392.8	60/56
42	358.6	45/40	2.4	370.7	50/46	2.6	**383.7**	**54/52**	**0.9**	393.1	56/54	0.6	399.1	58/57
40	363.1	46/41	2.5	375.5	50/47	2.8	**389.7**	**55/52**	**0.9**	399.1	57/54	0.6	405.5	59/57
38	367.7	47/42	2.5	380.4	51/48	3.4	**397.2**	**55/52**	**0.7**	403.8	57/55	0.7	410.6	60/58
36	372.5	47/43	2.6	385.3	52/48	3.3	**402.0**	**56/53**	**0.7**	408.7	58/56	0.7	415.4	60/59
34	377.2	47/43	3.0	392.4	51/49	2.9	**406.7**	**56/54**	**0.7**	413.4	58/57	0.7	420.3	60/60
32	381.5	47/44	3.3	398.2	51/49	2.6	**411.0**	**56/55**	**0.7**	417.8	58/58	0.7	424.6	61/61
30	386.2	48/45	3.3	402.7	52/50	2.6	**415.7**	**57/56**	**0.7**	422.6	59/58	0.7	429.5	61/62
28	388.3	48/45	3.2	404.2	53/50	2.6	**417.2**	**57/56**	**0.7**	424.1	60/59	0.7	431.0	62/62
26	390.1	49/45	3.0	405.2	53/51	2.6	**418.3**	**58/56**	**0.7**	425.1	60/59	0.7	432.1	62/62
24	391.9	49/45	2.9	406.2	53/51	2.6	**419.3**	**58/56**	**0.7**	426.2	60/59	0.7	433.1	62/62
22	393.7	49/45	2.7	407.3	53/51	2.6	**420.4**	**58/57**	**0.7**	427.3	60/60	0.7	434.2	63/63
20	395.6	49/46	2.6	408.4	54/51	2.6	**421.5**	**58/57**	**0.7**	428.4	61/60	0.7	435.3	63/63
18	396.8	49/46	2.5	409.5	54/52	2.6	**422.6**	**59/57**	**0.7**	429.6	61/60	0.7	436.5	63/63
16	397.9	49/46	2.5	410.6	54/52	2.6	**423.7**	**59/57**	**0.7**	430.7	61/60	0.7	437.6	63/64
14	399.0	50/46	2.5	411.7	54/52	2.6	**424.8**	**59/58**	**0.7**	431.8	62/61	0.7	438.8	64/64
12	400.1	50/47	2.5	412.7	55/52	2.6	**425.9**	**60/58**	**0.7**	432.9	62/61	0.7	440.0	64/64
10	401.1	50/47	2.6	413.9	55/53	2.6	**427.1**	**60/58**	**0.7**	434.1	62/61	0.7	441.1	64/64
8	402.2	50/47	2.6	415.0	55/53	2.7	**428.3**	**60/59**	**0.7**	435.3	62/62	0.7	442.0	65/65
6	403.3	51/47	2.6	416.2	55/53	2.7	**429.5**	**60/59**	**0.7**	436.5	63/62	0.6	442.0	65/65
4	404.5	51/48	2.6	417.3	56/53	2.7	**430.7**	**61/59**	**0.7**	437.7	63/62	0.4	442.0	66/66
2	405.6	51/48	2.6	418.5	56/54	2.7	**431.9**	**61/59**	**0.7**	438.9	63/62	0.3	442.0	66/66
0	406.8	51/48	2.6	419.7	56/54	2.7	**433.1**	**61/60**	**0.7**	440.2	64/63	0.2	442.0	67/67

P/C above 1013 + 0.2
P/C below 1013 - 0.7

PERFORMANCE RESTRICTIONS - Rwy 36R

YV/CDY SIDS ALL ENGINES - FULL CLIMB POWER SHOULD BE USED DURING DEPT TO MEET PERFORMANCE REQUIREMENTS. ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX/TONIL SIDS - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN. ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

BRITISH AIRWAYS **B747-400** LANDING DATA **HOHHOT**

A/D Elev **3556ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **(ZBHH)**

RUNWAY	**08**	**26**		
Landing Distance Available	3600m / 11810ft	3600m / 11810ft		
Slope	.39UP	.39DN		
Notes				
WAT LIMIT °C : Man / Auto	47°	47°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (7kt)	15kt (7kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	273.0	273.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	2kt	2kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

AIRWAYS **B747-400** LANDING DATA **TIANJIN**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **BINHAI (ZBTJ)**

RUNWAY	**16L**	**16R**	**34L**	**34R**
Landing Distance Available	3200m / 10499ft	3200m / 10499ft	3600m / 11813ft	3200m / 10499ft
Slope	NIL	.01 UP	.01 DN	NIL
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	12kt (5kt)	12kt (5kt)	15kt (12kt)	12kt (5kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	270.0	270.0	2kt	270.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (12kt)	15kt (12kt)	15kt	15kt (12kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	1kt	1kt	5kt	1kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg		750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **GUANGZHOU**

A/D Elev **50ft** Max wt Permitted (For pre flt planning) **285,760kg** **BAIYUN (NEW) (ZGGG)**

RUNWAY	01	02L	20R	19
Landing Distance Available	3600m / 11808ft	3800m / 12464ft	3600m / 11808ft	3600m / 11808ft
Slope	NIL	NIL	NIL	NIL
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (12kt)	15kt	15kt (12kt)	15kt (12kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	1kt	3kt	1kt	1kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. Rwy 01/02L: 3.4% MACG can be achieved up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **GUANGZHOU**

A/D Elev **50ft** Max wt Permitted (For pre flt planning) **285,760kg** **BAIYUN (NEW) (ZGGG)**

RUNWAY	02R	20L		
Landing Distance Available	3800m / 12464ft	3800m / 12464ft		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt	15kt		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	3kt	3kt		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. RWY 02R/20L: 3.2% MACG can be achieved up to 54°C and up to 285760kg

BRITISH AIRWAYS **B747-400** LANDING DATA **SHENZEN BAOAN (ZGSZ)**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	15	16	33	34
Landing Distance Available	3400m / 11152ft	3800m / 12464ft	3400m / 11152ft	3800m / 12464ft
Slope	NIL	NIL	NIL	NIL
Notes	Notes 1,2	Note 1	Notes 1,2	Note 1
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt	15kt (10kt)	15kt
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	283.0	3kt	283.0	3kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	4kt	3kt	4kt	3kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING**: Terrain rising to 1940ft AMSL 8nm EAST of airfield.
2. **MACG and Minima**: Rwy 15/33 WAT Limit ensures that all missed approach climb gradients can be met for all approaches.

LANZHOU

ZHONGCHUAN **(ZLLL)**

LANZHOU/ZHONGCHUAN and runways 18, 36 authorised for enroute diversion.

Use QRH data to calculate landing performance.

XI AN XIANYANG (ZLXY)

XI AN XIANYANG and runways 05L, 05R, 23L, 23R authorised for enroute diversion.

Use QRH data to calculate landing performance.

KUNMING

CHANGSHUI **(ZPPP)**

KUNMING/CHANGSHUI and runways 03, 04, 21, 22 authorised for enroute diversion.

Use QRH data to calculate landing performance.

BRITISH AIRWAYS **B747-400** LANDING DATA **HANGZHOU XIAOSHAN (ZSHC)**

A/D Elev **23ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	06	07	24	25
Landing Distance Available	3400m / 11154	3600m / 11811ft	3400m / 11154	3600m / 11811ft
Slope	NIL	NIL	NIL	NIL
Notes				
WAT LIMIT °C : Man / Auto	54°	54°	54°	54°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	14kt (8kt)	15kt (12kt)	14kt (8kt)	15kt (12kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	0kt	2kt	0kt	2kt
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (14kt)	15kt (15kt)	15kt (14kt)	15kt (15kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	3kt	5kt	3kt	5kt
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SHANGHAI**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A **PUDONG (ZSPD)**

RUNWAY	16	17L	17R	34
Landing Distance Available	3800m / 12467ft	4000m / 13123ft	3400m / 11157ft	3800m / 12467ft
Slope	NIL	NIL	NIL	NIL
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/-°	54°/54°	54°/-°	54°/-°
25F Zero HW wt or TW (Manual)	15kt	15kt	15kt (9kt)	15kt
25F Zero HW wt or TW (Autoland)		15kt		
25F Slippery Zero HW wt or TW (Manual)	3kt	5kt	5kt	3kt
25F Slippery Zero HW wt or TW (Autoland)		5kt		
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)		15kt		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt	5kt	5kt
30F Slippery Zero HW wt or TW (Autoland)		5kt		
Red'n per extra kt TW kg	5300kg		5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **SHANGHAI PUDONG (ZSPD)**

A/D Elev **13ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	**35L**	**35R**		
Landing Distance Available	3400m / 11157ft	4000m / 13123ft		
Slope	NIL	NIL		
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°/-°	54°/54°		
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt		
25F Zero HW wt or TW (Autoland)		15kt		
25F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
25F Slippery Zero HW wt or TW (Autoland)		5kt		
30F Zero HW wt or TW (Manual)	15kt	15kt		
30F Zero HW wt or TW (Autoland)		15kt		
30F Slippery Zero HW wt or TW (Manual)	5kt	5kt		
30F Slippery Zero HW wt or TW (Autoland)		5kt		
Red'n per extra kt TW kg	5300kg			
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS

B747-400

LANDING DATA

SHANGHAI HONGQIAO (ZSSS)

A/D Elev **10ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat A

RUNWAY	18L	18R	36L	36R
Landing Distance Available	3200m / 10499ft	3000m / 9840ft	3000m / 9840ft	3200m / 10499ft
Slope	.01UP	NIL	NIL	.01 DN
Notes				
WAT LIMIT °C : Man / Auto Reduce MLW by 3000kg/ ° above Max Temp	54°	54°	54°	54°
25F Zero HW wt or TW (Manual)	11kt (5kt)	8kt (2kt)	8kt (2kt)	11kt (5kt)
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	267.0	247.0	247.0	267.0
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	11kt (5kt)	8kt (2kt)	8kt (2kt)	11kt (5kt)
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	273.0	273.0	280.8
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg	750kg	750kg	750kg	750kg

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

BRITISH AIRWAYS **B747-400** LANDING DATA **CHENGDU**

A/D Elev **1682ft** Max wt Permitted (For pre flt planning) **285,760kg** **SHUANGLIU (ZUUU)**

RUNWAY	02L	02R	20L	20R
Landing Distance Available	3600m / 11808ft	3600m / 11808ft	3600m / 11808ft	3600m / 11808ft
Notes	Note 1	Note 2		Note 3
WAT LIMIT °C : Man / Auto	51°/51°	51°	51°	51°
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (9kt)	15kt (9kt)	15kt (11kt)	15kt (11kt)
25F Zero HW wt or TW (Autoland)	15kt (9kt)	15kt (9kt)		
25F Slippery Zero HW wt or TW (Manual)	0kt	0kt	0kt	0kt
25F Slippery Zero HW wt or TW (Autoland)	0kt	0kt		
30F Zero HW wt or TW (Manual)	15kt	15kt	15kt	15kt
30F Zero HW wt or TW (Autoland)	15kt	15kt		
30F Slippery Zero HW wt or TW (Manual)	4kt	4kt	4kt	4kt
30F Slippery Zero HW wt or TW (Autoland)	4kt	4kt		
Red'n per extra kt TW kg	5300kg	5300kg	5300kg	5300kg
Inc per kt HW kg				

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. MACG Rwy 02L: 3.0% Minima can be used up to 51°C OAT and up to 285760kg.
2. MACG Rwy 02R: 5.0% Minima can be used up to 51°C OAT and up to 285760kg.
3. MACG Rwy 20R: 3.0% Minima can be used up to 51°C OAT and up to 285760kg.

AIRWAYS **B747-400** LANDING DATA **URUMQI**

A/D Elev **2129ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **DIWOPU (ZWWW)**

RUNWAY	**07**	**25**		
Landing Distance Available	3600m / 11811ft	3600m / 11811ft		
Slope	.06UP	.06DN		
Notes	Note 1	Note 1		
WAT LIMIT °C : Man / Auto	49°	49°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	282.0	282.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	15kt (10kt)	15kt (10kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **WARNING:** High terrain SOUTH and EAST of the airfield.

BRITISH AIRWAYS **B747-400** LANDING DATA **DALIAN**

A/D Elev **108ft** Max wt Permitted (For pre flt planning) **285,760kg** Briefing Cat B **ZHOUSHUIZU (ZYTL)**

RUNWAY	**10**	**28**		
Landing Distance Available	3100m / 10171ft	3200m / 10500ft		
Slope	.20 DN	.20 UP		
Notes		Note 1		
WAT LIMIT °C : Man / Auto	54°	54°		
Reduce MLW by 3000kg/ ° above Max Temp				
25F Zero HW wt or TW (Manual)	9kt (3kt)	12kt (5kt)		
25F Zero HW wt or TW (Autoland)				
25F Slippery Zero HW wt or TW (Manual)	257.0	266.0		
25F Slippery Zero HW wt or TW (Autoland)				
30F Zero HW wt or TW (Manual)	9kt (3kt)	12kt (5kt)		
30F Zero HW wt or TW (Autoland)				
30F Slippery Zero HW wt or TW (Manual)	280.8	280.8		
30F Slippery Zero HW wt or TW (Autoland)				
Red'n per extra kt TW kg	5300kg	5300kg		
Inc per kt HW kg	750kg	750kg		

Brakes de-activated or Auto-Spoilers U/S. Information in brackets where different.
Slippery Rwy. No further correction needed if brakes de-activated.

1. **MACG and Minima**: Rwy 28 WAT Limit ensures that required missed approach climb gradient can be met for all approaches.