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T O N , D C W A S H I N G

K L V W R U L D G W OF US DW MD Q DVD V ROOD BIKOR P BLUHF Q DHOTL  
LQWHUILHUH HQ ORN S Q D Q I D P L G I L Y D Q V H V G I U F L R X Q Q O  
IRUPDGD SRU XQ KRREH R FRQVDFP X M I B R L D + S R U F R Q V X Q  
H[SUHVLYD EDQFDGD FULVWLDQDFH Q V H Q L F R Q V U M H V R E C  
LQIOXLGR HQ ODV SROtWLF DV S~EOLFDV

/D DJHQGD GH SURWHFFLyQ GH OD HQ RXHJDQ D JD D F R R O  
HQIRTXH HQ OD S B B V S H F W L Y D G G F U L V W L D Q D R V G H D O B F  
FRQ OD DJHQGD GHO DFWXDO OLQELKRW H W X R D G R V D H Q X  
SULPHURV PHVHDF GyHQ UGHHO V O U X E V S U H L R U R W O R V R W H I X  
FRPEDWH DO DERUWR LQFOX\HQGR S D L F W O B E S B Q H  
LQWHUQDFLRQDO HDVGRS G F W y Q H F P D D H U H B R O O H Q F I G R I F R  
PXMHU \ OXFKD FRQWUD HO V X F R F L G I O R D S S R A R Q G M  
SULRULJDGDV SRUOR W L R V Q L Y D F L R I O F W I G H P R Y I L O D J O V G D R V H  
LJOHVLDV \ SRU SROtWLF RV FULVWLDQRV

'HVGH VX FDPSDxD HOHFWRUDO HO HQ D W W D J D G R U H T X L  
GHIHQGHUtD YDORUHV TXH FRORFy G F O P H N U X Q G D P B Q  
GHIHQVD GH OD IDH P Q G L H U W E I O R G I D F R O D L O S D F G Y Q G H H O U  
D OD LGHRORJtD GH JpQHUR \$ O L G L F L R W G H G V X W H R V  
3UHVLGHQWH UHP R Y U D Q W H R G R X H O B F W X O W W H Q G H O I & R  
1DFLRQDO GH OD 7XWHOD GH OD 1FLX H F D H I G L J R P E Q R E H  
IDFXOWDG GHO H F U L M D Q G H S D U H P L W E L U H D S O D V G P D L V R I Q U I V  
GHFUHWR SXEOLFDGR HQ GH DJRH V Q R D G H I V W U X F U D X  
FRQVHMR SUHYLVWD HQ HO (VWD V Q W U R H G O H O D P H I G X L G J  
GHFUHWR GHVWLW F E U R D V R V R D O O H W O P H G H F R I Q Q X M R D V H  
SDUD OD HOHFFLyQ G G H O B V V P L F I E I U G R V I G G H U Y Q L O G D 3  
HOHFFLyQ HQ XQD DVDPEOHD FRPSXHV V W I D H S B U R V P G H  
ODV FRPXQLGDGHV ORFDOHV OD M O G H F X L Q Q S W K R H W D R  
VHOHFFLyQ TXH VHUI RUJDQLJDGR F S R V R H G H J R H E Q H E I Q R Y  
SRGHU GH GHFLV I H y Q J R V E W B U Q R i V X H S Q V H O D H W R V F L H S G R G  
FRPSDUWLGR D K R O D P V M I H Q M R F I E H L P O V O H D Y Q I R V L y Q G H O



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PHTXLQH QVHV HQ JFRG USUR QRGER P H R W H S R F S D R W J R F







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GLVFXUVR GHO SUHVLGHQWH GHOSHSDHtVdHQQGGHDODS/H1DV  
 8QLGDV HQ /D SURWHFFLyQ GMLQVDDDFQOQD FFORW  
 VLQ HPEDUJR VLQS B VILEQyQ XCPD OFLDPD O\$QWHL FDV VR  
 QRFLyQ UHVWULQJLFDG B H QD F DOG E DV B MWRHS H G L G B Q  
 EDVH FRQVHUYDGRUDRE LHHUQLR LHRVFORXPHD G RIVH UB QWHLV  
 SUHVHQWHV HQ OD SREODFLyQ GH DQSVH VHS GLUHVH  
 iPELWRV JXEHUQDPISOWDQQW DGR B KQ ISYRUW G DG VIOU(L  
 SROtWLFDV S~EOLFDV TXH UHIXHIUDJLQ HDVFB PRR F X VQ  
 GHUHFKRV (O 0LQMVWHUOR )GRLODDOX PDRR VH H M FXR  
 RUJDQLVPR LPSRUWDQWH SD





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VH UHDFWLYDURQ ODV IXQFLRQH V G E D V & R L Q W H M D R / T Q D  
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GH DxR QXHYR 0DUFRV DOHJy HQ V X I O F R Q D Q L F W D E  
VLHQGR REOLJDGD D SHUPDQH FHU B I G G 0 D V X R Y R X O X L G W  
VLHQGR YtFWLPD G B X G U D X R W H F R I O S S R U J D O C H A R / V B Q G R F L [ S  
DO FRPSRUWDPLHQWRP D G S U R I E Q E X Q D X H K S H D M X H Q L D E Y  
GHVDUUROOR GH OD QLxD \$ G H P i P D G W J X P R S V J R P X H W C  
GHVDUUROOR ItVLFR \ H P R F L R Q D O K G D F 0 D V P H Q R W J R D G  
QLxD SXHV VX RULHQWDFLyQ VH [ X D O U 0 D L F R Q Q L G H H Q  
DIULFDQD HVWDED Q D P H I O W H H Q R H O E G B M D R W R O D R F B  
WDPELpQ VHxDoy TXH DO DWULEXPLU V R Q R J P D O Q G D  
MXUtGLFR VH SUR G D X O I R J D X Q D Q G G F M D G R V L G H H O D K X P D C  
KRPEUH PXMHU DOWHUDQGR Dvt HO \$ X H Q L D I F H F O R Y C  
YDORUHV IXQGDPHQWDOHV FRPR Q~FOHR FHQWUDO C

(O & RQVHMR GH 7 X G M H O D U G H U I o y D 1 D R W X \$ U G H V H Q P H y G H L O V  
HQHUR GH X Q D G H Q X Q F L D S R U S U O Y D D E D y Q D G 3 H Q D  
7ULEXQDO ORFDO H D G R E V L P H O H P I H Q P y R T X L P Q W H F B I S H W H H Q Y  
SVLFROYJLFR GH O Q L x R O D K R P R S D R U F E O M P D O D G T X G H \ V  
RULHQWDFLyQ VH [ X D O W D P E L p Q D O I H O X D H B I G H P O V G L H F U  
VX F D S D F L G D G G H D V X P L U X Q U R O F R O P R S U D I G W H L V D \ V  
UHOLJLRVD GLILFXOWDQ OD FRQV V U S X D F L D y H O G H L X R D S  
TXH WDPELpQ HQYLy X Q D U F R E P X Q D L F D G H E H O E G O L D U J R Q M  
VROLFLWy HO DOHMDPLHQWR GH G B I S H R Q D V I G U L R X F B I G U  
FXVWRGLD GH + H O H Q D D O S D G U H H 0 D V P Q H Q R V U H F X Q H H O  
H [ S X H V W D D P D O R V H M H P S O R V \ P D O W B I Q G I R F V L R Q H W  
HFRQyPLFDV GH Y L G B T X H F O D S S R P S R O L F O L B Q D M D

\$ F F L R Q H V O H J D O H V L Q W H U Q D V G H F X O M D R G Z D V G L H Q H O S H Q U D D

(Q HO iPELWR SH Q D S U G D H L Q W R D G F D D E B D F X O V & R O O V I G M R O V D  
DO 0LQLVWHULR 3~EOLFR IXH D Q B R O V X D I G F L I S Q W H M O H F O U  
SDUD LQWHUSRQHU X Q D G H Q X Q F L D D Q W H H O - X ] J D G F

(Q HO iPELWR FULPHO J H D G R M X H H F R G G Y S H O T X G H O P D  
FXVWRGLD G H E t D V H U H I H F W L Y D P H Q W D H I D V P L D Q D I H G H  
SURJHQLWRU \ D K D E t D G L V S X H V W R V F X H O Q V I F G E S E I L y Q  
SRU OD LJOHVLD FDWyOLFD D O D D T X Y H D D X D F W y H Q O H D V P D X  
D O D H V F X H O D G R Q G H + H O H Q D H V W M G M D R B y H V I Q H F X B I E  
HQ VX GHFLVLyQ X Q D V H U L H G H I E W R D F L S R U G M D G 0 H  
VX F D V D F R Q M X J X H M V H W X G I V S D F L R W S U D O V 0 R P y R G D G G H F  
O O D P D Q G R O D D W R I Q W I D y Q F V R E G H H O O D D I L V P S H X O F M X Q W H Q E  
GH ORV YDORUHV UHOLJLRVJLRHOLJ i VR @ R V " Y D H D



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\\OD OLEHUWDG UQW J LLRQDO P)KQVGH P)K V GWHFJLXLLH QW  
DUJXPHQWRV



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T O N , D C W A S H I N G

)UHQWH D OD GHFLVLYQ GH 6HJXQG DQWHDQBLR U  
6XSUHPD GH -XVSWEDPHU GH GH V D GHFLDQGR QR HV  
D OD OH\ IHGHUO TXH SURWHJH H V H FWHWly XQSHU  
QRWRULR DEXVR D FSKULY GH GDL D GHOK GR U F DHU  
MXLFLR HQ VX GHEHU GH SURWHJHUOD

(O GH PD\R GH D SHVDU GH DQDV FHVQI XHXU PREV G  
SDUD H[SRQHU ORV FRQWRUQRV G DFFUXPWR G V D GLR V  
HO FDVR OOHJy D GH -RMM FLX S GH D B B GHU W D Q FL D  
GHFLGLy PDQWHQUH OD FXVWRGLD DV IDYRXUP GH WRD  
GHVDUUROODGRV SRU HO MXH] GH SRU VPH V D ULLQ V FDE



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FRPSURPLVR GH ORV (VWDGRV PLHPEUVRV D I H K W D H G / D V I  
&RUWH HV GHPDVLDGR UHJODPHQW DPULR WILQ DFURQWL G  
(VWDGRV SRU OR TXH FLHUWR PDHUEH HQ t G W H D S U F R Q L F D H  
(O (VWDGR VRVWXYR TXH HVWR QR GHHEFXDH V Q W R I Q S U  
FRPSHWHQFLD GH O B B | S U H U H D Q X H Q W Y H Q G H L Q W H S U F L R V Q  
SUHOLPLQDUHV 6LQ HPEDUJR HO (TXH D G B D H F H I S Q P D U  
& , 5 ' , H Q X Q F R Q W H [ W H R I G H E V D U F R L P S D R R P W W S E R G H F G H U V  
KXPDQRV \ Q R F R Q R W U R V T X H D Q W H M D Q R S H J R F W G D Q L  
SDUD OD LQFRUSRUDFLyQ GH SURWRQRRO B V H T X N W S R  
DQWHULRUPHQWHDURGHWRV G S W H D V H Q W S O P D Q F L y Q S U R E J U H  
TXH VH OOHYDQ D F D E R S D U D O D G H I H Q U M D Q W H D O R G H  
OLEHUWDG UHOLJLRVD HQ HO S D t y V Q S P V E M y P O G R  
OOHJDU D Q L Q J X Q D V F R O X G D y S D D P L V S R W L F L R Q D U L D

(O GH VHSWLHP E U G H G H O D U y O O D D & S O H V L F L Q Q D G P I R F W E  
GH GH FRQIRUPLGDG FRQ HO D O W L Q F I R O R P H G H I B Q  
1R FRQVLGHUDQGR HO WLHPSROX H V S O R L R X B H  
(VWDGR GH OHNLQp V S H U W D H V S L R O W D F L Q B D Q R V G H Q H O B  
& R Q Y H Q F L y Q \$ P H U L F D Q D D U W t F X O R y D U W t F X O R V \  
D O H J D G R V H Q J O D S D W & I R F F L y Q L y Q I G D G G H O S ( R Q W D G E R  
OHNLQpV HQ UH O X P F S L y Q P E R Q W H R G L Q F O R Q V G D H W H I V K R H V O X E  
UHOLJLRVD \ G H U F R Q V R D G U H G R P L O M D Q W O R ) H H G H O U D D O R G H V O



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