

# 5BHB>OB 1 KPBO

=KHSXLSRVHRI VKHM; HODMH8RMM/LVVR LQIRUP : HRSOK-RI VQLODFLDV VFKQIFDOWMI DGGIXCFMRODOXVHUVRI VKH VFKHGXDG ž/žfi UHODMHRI , 9; IXCFMRODDSSCFDMROHOKDOFHP HQWV =KHM; HODMH8RMM/DGG RVMHUFFRP SDQLOJ GRFXP HCMAMROQIRUWKLVUHODMHFDQEHIRXCG RQVKH1 HRUJLDI/ž!" Z HEVMDM([KWS\(ffz Z Z/XVJ/HGXfjDILWV](#) [ILOFHODMHCLQRFi](#))

# 5BHB>OB 7 7

- ; HMOXMRQ/VR VKHIRCBZ LOJ 5QRZ O3AXHV/KDYHEHHQLCFXGHHG LOVKLVUHODMH(
- 53A i! =UDQ DDOCFH; HSRUW HMXUQLOJ 3DFFXUDM; HMXOVI RUVKH/8- >7 , 4HGJHU
  - 53A i\$ <XLSQVfi HIFLW HSRUWBRVW HMXUQLOJ =UDQHU+P RXQW
  - : 9iŁfi( @KHQDMMP SWQJ VR DGG DGGVMRODOOHV/DI VMUD: 9 LVVDYHG DCG LVLOD WDMVRI 9SHQ DQHUURULVUHFLYHG aQLW9SHUDCG RI / 3/8 >66c bXSRO DMMP SWQJ VR VDYHVKH: 9 DJLO
  - : 9iŁž ( - DCFHODG H UR UHTXLMVROVUHXMNDJ LOLOFRUWHFVSUHHOFXP EUDCFHV
- . HMOXRI VKHM5QRZ O3AXHVFDQEHIRXCG RQVKH1 HRUJLDI/ž!" Z HEVMDM(

\$@KQJ P03>U>?HB ~\$3'

=KLVQZ TXHU Z LOUHMUDDOOQ: 9 YRXFKHUOCHVZ KHUWH EXGJHWWHUHQFHLVQRW  
 HTXDOR VHI LFDONHDURI VHYRXFKHU +GGMRODO LVZ LOUHMUDDO: 9 YRXFKHUOCH  
 Z KHUWH EXGJHWWHUHQFHLVGLIHUHQWURP VHFRLVHSROGLO OCHROVHI: XUFKDVH  
 9UGHU

\$OOPPO >J >DBI BJP~\$O

5BKNFD7KND# 4CBNU# 4CBNUO >J >DBN

=KH%25=\$O =\$66(7=\$3=72=\$O =/2\$' TXHU Z DVP RGLLHG VU UH





30NĚ>CFJ D# 30NĚ>CB 2NABND# \$AA~8LA>FB (TLNB00320

5CRZ Q 3WXH: 9iĕfi\$ , ) 1%77) O 37-1+ 72%( ( %(-721%/1) 6%\*7) 5%Žĭ -6&9) ( %i( -6 -1 %67&862\*ĭ 3) 1' %i ) 5525-65' ) -9) ( = -557ĭ 3) 5&i( 2\* °/6ĕ #ffP >8321 %77) O 37-1+ 72 &9) 7, ) Žĭ %+%1 KDVEHQ UHROHG DVSDUARI WILVUHODMŲ

+Q9UDFŲ, XJ Qĭ Z DVSSQHG VR FRUHFVWKHLWXHGFMFUEHG IQ5CRZ Q 3WXH: 9iĕfi / >VHUV DUHQRZ DEŲVR VFFFMMXŲ VDYHD: 9 IQDQ9SHQ WDMV DVMUDGGLOJ DGGVMRODO QŲHVR WKH: 9/

B3NK@NBI BJP# O >J >DB 5BMDOFFKJ O

5CRZ Q 3WXH: 9iĕž , %i' ) /1+ %i ) Ž52 5 48-6-7-21 7, %7: %612735 9-286< &8( +) 7 ' , ) . ) ( 9%7, ) fi %i%+ ) Ž) 48-6-7-21 63%+ ) 83( %7) 67, ) 5 48-6-7-21 67&8672 , %i' ) / ) ( %i( -1' 255' 7< 83( %7) 67, ) &8( +) 767&8672ĕ 27 , ) ' . ) ( " , -6%12 67, ) 86 572 531 7, ) " 8( +) 7 , ) ' . 352' 66\*257, ) 5 48-6-7-21 5 687-1+ -1 %35 ) 1' 80 &5%1' ) & ) -1+ ' 5 %7) ( KDVEHQ UHROHG DVSDUARI WILVUHODMŲ

+Q9UDFŲ, XJ Qĭ Z DVSSQHG VR FRUHFVWKHLWXHGFMFUEHG IQ5CRZ Q 3WXH: 9iĕž / >VHUVQR ŲOJHUQHGH VR XVH WKH IXCFMRODOZ RUNDURXQG SURYIGHG~ DOG P D\ FROMOXH WKHSUDFWMFHRI FDOFHQJ UHTXLMVROVYLD 7 DODJH; HTXLMVROV

30NĚ>CFJ D# 5BMDOFFKJ O# \$AA~8LA>FB 5BMDOFFKJ O# \$AA >1 BS 9>KŲB # &KLU ) NKI

=KH- RS\ ; HTXLMVROQIURP ; HTXLMVROSDJHZ DVP RGLUHG VR HQXUHVKDWHUHTXLMVROV Z LVR DQ9UJLQRI ' - += ' °UHTXLMVROVVRXUFGIURP D1HRUIDO3 <= 7 DUNHVSDFH UHTXLMVRO' DUHQRWDYDLODEŲVR EHVFŲFVMG Z KHQFUHDMDJ DQHZ UHTXLMVROQIURP DQ H[LVMDJ UHTXLMVROXVQJ WKH ' - RS\ CURP ' IXCFMRODOV

+Ų6RRN>SVROWKH- RS\ ; HTXLMVROQIURP ; HTXLMVROSDJHKDYHEHQ UHMMFVMG VR HQXUHVFDFK UHXOVRQŲ UHMUQ; HTXLMVROVZ LVR DQRWJLQRI ' 986Ų

\* BJ BNĤH/BADBN~\* / ' ~ &KI I Pĭ BJP&KJ FNKH. . .

%25 O BJ QO# %25 \* BJ BNĤH/BADBN# %25 \* / 3NK@CFJ D# (J Ų ?Nĭ @B /BADBN%ŲHA  
 =KH/8- >7 , 6HGJHU, XLC: URFHWKDVEHQXSGDMG VR VKDVM\$RSXŲMM/VKH

. +=/C- 9. / I L H G L Q V K H 6/. 1 /; V D E O Y + O M R X J K Z H G R O R V X V H V K L V I L H G G L U H F V O ~ L W  
 D E V H O F H Z D V F D X V L O J V K H = U I D Q D O O F H; H S R U V W R O R V S R S X O M M F R U W H F V O Z K H Q U K O  
 D J D L O W V K H / 8 - > 7 , O G J H U

= K L V X S G D M U H M R O Y H V 5 C R Z Q 3 W X H 5 3 A I ! = U I D Q D O O F H; H S R U V W H M L O L O J O D F F X U D M M  
 ; H X O V I R U V K H / 8 - > 7 , O G J H U

5BLKNFJD7KKH# 4CBNU# 4CBNU O >J>DBN

=KH%25=. . =\$9\$,/= % \$ / \$ 1 & ( T X H U Z D V X S G D M G V R L Q F O X G H D a = K L K + F F R X Q M O J  
 : H U R G b S U R P S W D O G F U M M U D Y : U H Y R X V O V K H T X H U K D G V R E H U K O I R U V K H H O M W H I L V F D O  
 \ H D U F K R V H Q

5BLKNFJD7KKH# 4CBNU# 4CBNU O >J>DBN

=KH%25=\* /=-51 /=: 25. )/2: =\$8' ,7 T X H U Z D V X S G D M G V R (

- O F O X G H V K H 4 R X U D O O 2 H D G H U < M M V I O V K H U H X O V
- 9 O O L Q F O X G H 5 5 C + P R X Q M = \ S H V E ° + F V X D O Y D O G ; H F R J C J H G ~ D O G \$ ° + F V X D O Y  
 ; H F R J C J H G ~ D O G - R O F V M G ~
- =K H F R O P Q K H D G L O J I R U V K H W M S L O M D O F H W M M V Z D V X S G D M G V R a + S S U R Y D O  
 < M M V O V R E H P R U H G H M F U S V W Y H

5BLKNFJD7KKH# 4CBNU# 4CBNU O >J>DBN

=K L V C H Z T X H U Z L O U H M L O D O N R X U D O O C H V Z L M D E X G J H W H H U H O F H O R V H T X D O M R V K H  
 I L V F D O H D U V K D V W / R Q V K H N R X U D O C K H D G H U 3 V L O U H M L O N R X U D O Y O R V X H A S R V M G R U  
 N R X U D O Y S R V M G Z L M L O V K H O M P R O M /

=KH%25=(1&=5(&DSSQFDMRQHOJLCHDCG VWHFRUJHSRGLQJ TXHUJMKDYHEHQ  
 XSGDMGIRUYHJMRQ' A / : QDVHVFH+SSHQGL - LQVWHBHDU/CG 7 DOXDCRUGHMLOV  
 UHJDLGLOJ VWHFKDOJHV

%25 0 BJ QO# %25 \* BJ BNHV/BADBN# %25 \* / 5BLKNFO# <B>N(JA 5BLKNFO# ) KKPJ KFB ž  
 "/7 /F?###FBO

=KHORRVRVM%^6ROJ =HLP 6DELDVH/UHSRUKDVEHQXSGDMGSHUWKH1+<, P DSSLOJ  
 GRFXP HQ/VKDFVDOEHIRXCG RQRXUZ HEVLM DVKWS(ffz Z Z/XVJ/HGXfj DILWV  
 ILOFGRFXP HQVMDRQFDMJRUJfILVFDQ\HJUCHOG/

8RVM(=KLVUHSRUUZ DVUHODMHG VR SURGXFWRQRQ\$fi \$fi fi! /

%25 0 BJ QO# %25 \* BJ BNHV/BADBN# %25 \* / 5BLKNFO# 6QLHCO' BQ@P5BLKNP

=KLVXSGDMUHRQHV5CRZ Q 3VXH53A i \$ <XLSQVfi HIFLV HSRUABRW HMLQLOJ  
 =LDMHU+P RXQW

=KH<XLSQVfi HIFLV HSRUKDVEHQXSGDMG VR FRUJFVDOVAXHZ KHUHVH  
 ~; 3) 1(-785 6: " 5/1 6\*) 5DP RXQWZ HUHQRV\$RSXQMDQJ RQVWHUHSRUW VWHUHSRUUZ DV  
 UKQE\ OXQGF: QW

8RVM(=KLVUHSRUUZ DVUHODMHG VR SURGXFWRQRQ\$fi fi fi! /

=KH, XGJHW RP SQDFHQ?LMRQUHSRUKDVEHQXSGDMGSHUHTXHWURP VWH911LFH  
 RI QVFDQ+IIDLW =KHIRQZ LOJ XSGDMVZ HUHP DGHVR VWH<XSSQF HQMDQ=DE(

- | CRUP XQVROURZ žž Z HUHXSGDMG VR ) - 7\$-1 ž
- | - HQV1 ž! VUK 8 ž! Z HUHXSGDMG VR ); -; ~ +SSQFDEQ - HQV LQVMDGRI ) |
- | , -; ~ +SSQFDEQ - HQ
- | , žž FHQZ DVXSGDMG VR UHGb 8HW<XLSQV'. HIFLVRU; HMJYH H[ FOXGLOJ  
 =XLMRQ- DUXi 9YHb

8RVM(=KLVQ?LMRQUHSRUUZ DVUHODMHG VR : URGXFWRQRQ\$fi ' fi fi! /

=KH<VMP HQVRI - DVK QZ VQ?LMRQUHSRUKDVEHQXSGDMGSHUWKH1+<, P DSSLOJ  
 GRFXP HQ/VKDFVDOEHIRXCG RQRXUZ HEVLM DVKWS(ffz Z Z/XVJ/HGXfj DILWV  
 ILOFGRFXP HQVMDRQFDMJRUJfILVFDQ\HJUCHOG/

8RVM(=KLVUHSRUUZ DVUHODMHG VR SURGXFWRQRQ\$fi ' fi fi! /

. XHVR VWHVDCMVRQVR <2+; / +FFRXQWRQ\$ffifi fi! ~VWHIRQZ LOJ UHSRUWZ HUJ



XSGDMG VR GLVSD\ WKH DSSURSUDVM DFFRXQVGHMFUSVROV SXUXDCQVR WKH UHSRUVDMA(

- 4HGJHU2LWRU ; HSRUW 9 ; ; 1 filž
- <FKHGXR 9SHUDMRORI +JHCF\ OXCGV ; HSRUW 9 ; ; 1 fil \$
- , DDCFH <KHME\ OXCG , 9 ; ; 1 fil %
- : URI LVDCG 6RW <MMP HQW 9 ; ; 1 fil \$
- ; HYHXH <XP P DU ; HSRUW 9 ; ; 1 fil !
- <FKHGXR 9SHUDMRORI <MGHQV\FMVLWV , 9 ; ; 1 filž
- , XGJHM\FMVLW ; HSRUW 9 ; ; 1 filž!
- 1 UDCV XGJHM\FMVLW ; HSRUW 9 ; ; 1 filž"

Ł +/#fił &#.# -#, +-. 1 #-# -)#ž. #" /+, -+" O! /+\* /&# 1 ##( +\$fD)2~/~i ~/°

=KHEHRZ UHSRUWKDYHEHQXSGDMG VR UHMUOKLVRUFDGDMDIRU5HCCMDZ <MAM  
>QYHUVWGXHVR FROVRGDMDRO DCG VDCVMROQJ VR <2+; / ?HGRUV 8R RVKHU  
LQVMVMROVVKRXG EHIP SDFMG E\ VKHMFKDOJHV

- +: ?RXFKHU2LWRU ; HSRUW 9 ; ; Bfi\$
- 4HGJHU2LWRU ; HSRUW 9 ; ; 1 filž
- , XGJHM\FMVLW ; HSRUW 9 ; ; 1 filž!
- 1 UDCV XGJHM\FMVLW ; HSRUW 9 ; ; 1 filž"
- =3 + ?HGRU9EQDMRO ; HSRUW 9 ; 3ž\$+
- =3 + ?HGRU: DNP HQW HSRUW 9 ; 3ž\$,
- : 9 <XLSQV+CDQV ; HSRUW 9 ; ; filł

>SGDMVZ HJHP DGHVR ERUHGWWTF DQGERUHGWWTF

\* BJBN\H\BADB# -KQJ >H# 6Q?QJQPI -KQJ >H# \* BJBN\FB -KQJ >H

=KLVSDJHZ DVP RGLIHG VR P DNH, XMQHW>QVUHTXLUHG IHC

6BP8L )FJ>J @>H 6QLLHJ &E>FJ # &KI I KJ ' BCEJ FFKJO#' BODJ &E>NQBIAO#' BCEJ B  
9>HBO#' BL>NP BJP

=KLVSDJHZ DVP RGLIHG VR VKDVKH VHDUFK ER[ IRUVKH7 DODJHU3 ROVKHGHSDUW HQW  
Z RXG UFRJQJHXVHVZ LVK VKH\_` , XMQHW>QVUP DU : HUP LVRO 6VW

(JFBN\NQB &KI LKJBJPO# \$LLNKR>H# \$LLNKR>H# O KJ FKN\$LLNKR>H

=KLVSDJHZ DVP RGLIHG VR UHMUORQXVHVIRUVKHLQVMVMRORI VKHXVHVKDVWQJ JHG  
LQ

# 7N>RBH>JA (TLBJ O B ~ ( ; ' .

7N>RBH>JA (TLBJ O B # \$LLNKR B 7N>J O >@FKJ O # \$LLNKR B 7N>J O >@FKJ O 25  
 J >RFD >FB FK FEB: KINGTOP

+ : HRSO<RI WIL I RUVKH\_O3 <= 9: /; +8. 90/3 8 >66 HURUKDVEHQDSSQHG DVSDUWRI  
 WLVUHDVH =KLVHURUZ DVHCFRXQMUHG Z KHQDMMW SMDJ VR DSSURYHDO/[ SHQMH  
 ; HSRUWZ KHUH QCHVZ HUH DGGHG RUUHP RYHG DOG D. , 3Z DVUHTXLUHG VR DQZ DSSURYDQ  
 =KH HURUVKRX@ QR @QJ HURFFXUDQG DSSURYHUVKRX@ EH DE @VR VFFFHM X@ VHQ  
 EDFNDQG DSSURYH DVCHGHG/

7N>RBH>JA (TLBJ O B # O >J >DB (TLBJ O B @NPU # 5B >OQD \$LLNKR-H KING

; HDWJQ+SSURYDQ@ RUNVDFK UHXOVQRZ UHMLQ, XMQHW >QVSHFLIF HP SQVHMV  
 : UMYRXV~ WLVHDFK UHXOVFROMLCHG HP SQVHMVURP DQ XMQHW >QV

( I LHKUBB 6BIC6BNRF@ # 7N>RBH>JA (TLBJ O B # (TLBJ O B 5BLKNP# &NB>FB~ O KARU

=KH+FMROV7 HOX RO/[ SHQMH; HSRUW UHMROQR @QJ HUGLVSQV WLVH+SSQFP LHZ - DVK  
 +GYDOFH RSVRO I RULQWV MROV QR VMLQ WLVH - DVK +GYDOFH IXCFMROQV

# 2 FEBN1 KPBO

: HRSO<RI WLVQDFLDV 5BHB>OB f . i i LVFXUHCVA VFKHGX@IG IRU6>PONA>U 1 KRBI ?BNV L  
 fii / f / BRX Z LQVFFHLYHDUP LQGHURI Z KHQWLV XSGDM Z LQFFXU

ORUEXMQHWLP SDFWHP HUIHCF\ LMXHV FROMFVWVH

SDWZ RUG /IP DLKHS~~GM~~\* XW/HGX VR REVDLQVHD VHUYLFH@RJLQ.FUHGQMDV

CRULQ RUP DMRQDERXW76I >FJ FBJ >J @ 6@BACHBORU<HUYLFH@MYHOI XIGHQCHV S@DMH  
YLMW~~KWS~~(ffz Z Z /XW/HGXFFXWRP HLCVHUYLFHMFHUYLFHCOMH@JXIGHQCHV CRU><1  
VHUYLFHVWDMV S@DMHYLMW~~KWS~~(ffM~~W~~XW/HGX/