

@20. 5&#\$065! / +152,6

+7+6#1\$!\$%&/1&; &1!+#9!. \$%&0!- . /&#!. =!5. ,. 0(!

X. #1&H2&#\$,8*!0+56+,8!. ??0&116; &!3&+2\$8!

1\$+#9+091!- &0&!2?%&,9!38!/ &#!+#9!- . /&#!. =!

5. ,. 0!+#9!#. \$!421\$!38!- %6\$&!?&. ?,&(!

! !V0. /!\$%&!MNYP1!\$. !\$%&!MNNP1*!\$%&0&!

- +1!/6#. 0!?0. 70&11!\$. - +091!0+56+,!6#5,216; 6\$8!

6#!\$%&!5. 1/ &\$65!6#921\$08(!J%&!T,+5>!61!T&+2\$6=2,!1. 56+,!/ . ; &/ &#!\$!\$0. ; &!\$. !&B?+#9!3&+2\$8!

69&+,!1+#9!7+; &!061&!\$. !1/ +,,*!6#9&?	. /?+#6&1!\$%&!\$!?0. 925&9!/ +>&2?!=. 0!- . /&#!. =!

5. ,. 0(!). / &!/ +6#1\$0&+ /! / +>&2?!5. /?+#6&1!,6>&!X. ; &0760,!+#9!S:Z0&+,! =. ,. ,. - &9!126\$!+#9!

/+9&!+\$&/? \$!+\$!0+56+,!6#5,216; 6\$8!- 6\$%!\$%&60! / +>&2?!?0. 925\$1[!% . - &; &0*!0+56+,!&H26\$8!- +1*

+ #9!5. #6#2&1!\$. !3&*!,+5>6#7(!J%&!%61\$. 065+,!9&; &, . ? / &#!. =!3&+2\$8!1\$+#9+091!+#9!\$%&!

5. #6#2+\$6. #!. =!2?%. ,96#7!- %6\$&!3&+2\$8!1\$+#9+091!%+1!+, ,. - &9! =. 0!\$%&!0&?0. 925\$6. #!. =!

- %6\$&#&11!. #!+#!6#1\$6\$2\$6. #+,!,&; &,(!J%&!5. / / &056+,6U+\$6. #!. =!- %6\$&!3&+2\$8!%+1!5. #0632\$&9!

\$. !\$%&!52,\$20+,!0&?0&1&#+\$6. #!. =!- . /&#!. =!5. ,. 0!+1!!\#&7+\$6; &*!. 2\$L. =!?,+5&*!. 0!961\$2036#7!]

3&5+21&!\$%&8!+0&!+\$!\$%&!3. \$\$. /!. =!\$%&!1. 56+,8!5. #1\$025\$&9!3&+2\$8!%6&0+05%8!GD+,,*!MNNY*!?(

Q^RI(!J%&!5. 1/ &\$65!6#921\$08!5. #0632\$&1!\$. !0+56+,! =. 0/ +\$6. #!\$%&+!+15063&1! / &+#6#7!\$. !

96=&0!3. 96&1*!125!\$%&+!\$- %6\$&!- . /&#!+0&!; +,2&9!. ; &0!3,+5>_30. - #!- . /&#!GZ/6!` !

A6#+#\$*!MNNO*!?(!OI(!J%&1&!0+56+,8!9&=6#&9!+??0+61+,1!. =!- . /&#!:1!- . 0\$%&! / +6#5+6#&9!38!\$%&!

3&+2\$8!6#921\$08*!+0&!9&=6#6\$6; &! =. 0/ !!. =!6#1\$6\$2\$6. #+,!0+561/(!

!!!!!!! a&1?6\$&!6#50&+16#7!506\$6561/!*?. ?2,+0! / +>&2?!30+#91!,6>&!F EX*!F +83&,6#&*!

X. ; &0760,*!+#9!T. 336!T0. - #!%+; &!0&5&6; &9! =. 0. /!5. #12/ &01! / . 0&!0&5&#\$,8*!\$%&60!& =. 0\$1!+\$!

0+56+,!6#5,216. #!%+; &!3&&!00T41TF500050712. 854- 2003Tm/TT005. 4(&)0. 2` T- 00#6. /&#:#(8)0H0. 2(5)0. (9)0.

?67 / ! = 0! - . / &#! = 5. , . 0!D. - &; &0!\$%&! ?0. ? . 0\$6. #! = / + &2? ! = 0! - %6\$&! 1 > 6#!\$. # &1!
5. # \$6# 2 &1!\$. ! &B5 &&9!\$%. 1 &! ?0. 925 &9! = 0!3, +5 > ! + #9!30. - #!1 > 6#!\$. # &1(!Z = ! \$%&! QPL ^ P!1% + 9 &1!
?2\$!. 2\$!6#! + ! = 2#9 + \$6. #!, 6#&*!. #, 8! = 6; &! . 0!16B! - 6,, ! = & + \$20 &!9 + 0 > &0! ?67 / &# \$1!GD. ? &*! QPMRI (!!
E169 &! = 0. / ! \$%&! H2 + # \$6\$ + \$6; &!6# &H26\$8!. = 1% + 9 &1! +; +6, +3, &! = 0! - . / &#!. = 5. , . 0*!. \$%&0! + \$\$& / ? \$1!
+ \$!0 + 56 + , !6#5, 216. #!6#! / + > &2? !, 6# &1!% +; &!3 &&#! + 5521 &9!. = 52, \$20 + , ! + ? ?0. ?06 + \$6. #*!\$. > = / *!
+ #9! - %6\$& - + 1%6#7! / . 9 &, 1!. = 5. , . 0(!E! ? &0\$6# &# \$! &B + / ? , &! = !%. - !52, \$20 + , ! + ? ?0. ?06 + \$6. #!
? &0 / & + \$ &9! & = . 0\$1! + \$!0 + 56 + , !6#5, 216. #!6#!5. 1 / & \$651!5 + #!3 &!1 &&#!6#! F EX: 1! V b T b ! / + > &2? !

, 6# &!G" / + 7 &1!Q! ` ! ^ *! F EX!X. 1 / & \$651 *! QPMRI (!J% &!

5. / ? + #8!0 & = 2\$ &9! + 5521 + \$6. #1!. = 52, \$20 + ,!

+ ? ?0. ?06 + \$6. #!38!5, + 6 / 6#7!\$%&! / + > &2? !, 6# &! - + 1!

50 & + \$ &9! - 6\$%! / 2165! = &1\$6; +, !52, \$20 &!6#! / 6#9!\$%. 27%!

6\$: 1!5, & + 0!6#!" / + 7 &1!Q! + #9! ^ ! \$% + \$!\$%&! / + > &2? !, 6# &!61!

#. \$!5. 6#569 &# \$ + , , 8!0 & / 6#615 &# \$!. = !C + \$6; &!E / &065 + #!

52, \$20 &!GT 2UU = &&9d &, , . - *! QPMRI (!J% &! + 9; &0\$61 & / &# \$1!

= & + \$20 &!5, . \$%6#7! + #9! ?0. 925\$! ? + 5 > + 76#7!\$% + \$!6#5, 29 &!!

? + \$ \$ &0#1!0 & / 6#615 &# \$!. = !C + \$6; &!E / &065 + #!52, \$20 &(!

V20\$1062 - 11cmBT5000501065 - 1369165 - 1369165 - 136*2(=)0. 36*2165 - 136

\$%&1&! = 0 / 1! = 1%+, , - !0+56+, !6#5,216. #! / +>&!6\$!1. !\$%&1&!5. / ?+#6&1!5+#!0& / +6#!67#. 0+#\$!. =!

+7+6#1\$!0+56+,!#5,216. #!6#!3&+2\$8! ?0. 925\$1!+0&!#. \$!1. 2#9*!\$%&#!6\$! =. ,,. - 1!\$%+\$!\$%&!0&+1. #1!

3&%6#9!0+56+,!&B5,216; 6\$8!+0&!3+1&9!. #!1. 56+,!+1?&5\$1(!J6=+#8!C6,,*!+#!+11. 56+\$&! ?0. =&11. 0!. =!

!!!!!!! "#112 / / +08*\$%&!0+561\$!70+5\$65&1!\$%+\$!?,+72&!\$%&!5. 1 / &\$65!6#921\$08!\$. 9+8!%+; &!5,&+0!
\$6&1!\$. !3. \$%!%61\$. 065+,!+#9! / . 9&0#15. #5&?\$6. #1!. =!0+56+,!96=&0&!\$%+\$!706; 6,&7&!- %6\$&#&11!
+#9!0&6#=. 05&!- %6\$&!9. / 6#+#5&(!<. - &0=2,!5. 1 / &\$65!5. / ?+#6&1!- +#\$!\$. !70. \$&5\$!\$%&60!
0&?2\$+\$6. #1!+7+6#1\$!+,&7+\$6. #1!. =!0+561\$!70+5\$65&1!- %65%!\$%&8!212+,8!\$08!\$. !0&/ &98!- 6\$%!
\&+18!-6B&1]!\$%+\$!6#; . ,; &!1%+,,. - !&=. 0\$1!+\$!0+56+,!6#5,216. #(!J%&!6#1\$6\$2\$6. #+,!0+561 / !=. 2#9!6#!
\$%&!5. 1 / &\$65!6#921\$08!?. 6#\$1!\$. !,+07&0!6112&1!. =!0+5&!+#9!0+561 / !6#!1. 56&\$8!+\$!,+07&!\$%+\$!+0&!
%2#90&91!. =!8&+01!6#!\$%&! / +>6#7(!A%6,&!\$%&!181\$&/ 65!6112&! . =!0+561 / !\$%+\$!70 / &+\$&1!\$%&!
5. 1 / &\$65!6#921\$08! / +8!1&&/ !9615. 20+76#7*\$%&0&!+0&!5. 2#\$&0L

1. 56&\$8!3+1&9!. #!\1&&+3,&]!. 0!\?23,65!3. 96,8!96=&0&1]!%+1!\$%&!?. \$&#\$6+,!\$. !,&+9!\$. !+!

1. 56&\$8!\$%+\$!9. &1!#. \$!\$?0. -6\$!. =!\$%&! . 34&5\$6-65+\$6. #!. =!+,,- . / &#!+9!\$%&!1?&56-65!. ??0&116. #!

. =!- . / &#!. =!5. ,. 0!GF5j 6\$\$065>*!QPPR*!?(!ORI(!X. #5,216; &8*!\$%&!0+561!\$?0+5\$65&1!6#!\$%&!

5. 1/ &\$65!6#921\$08!5+##. \$!3&!\$0&+\$&9!+1!+#!61. ,+\$&9!\$?0. 3,&/!*+9!\$%&!,+07&0!5. #&\$&B\$!. =!0+5&!

+9!0+561/!6#!\$%&! #6&\$9!)\$+\$&1!%+1!\$. !3&!\$+>&#!6#\$. !+55. 2#!6#!. 09&0!\$. !5. / 3+\$!

6#1\$6\$2\$6. #+,!0+561/!. =!+,,\$8?&1(!!

!

!

!

!

!

!

!

!

K&=8!&1!

E%/ &9*!) +0+(!GQPMQI(!O b c Rac a a20%+ /b!

a2>&! #6; &016\$8!<0&11(!!

E#7&,. 2*!F+8+(!GMNRNI(!I K W Ca B S b ? ? ? ? b ? c ? ? , ? b ? ? bc b a B ? c ?

, ,

T2UUV&&9d&,,- (!GQPMR*!F+8!hI(!Na A ca W R MAC V b T b !

K&\$06& ;&9!=0. /b!%\$\$?1b__ - - - (8. 2\$23&(5. / _- +\$5%m; no10D%- 35Nc7!

%%\$?1b__ - - - (- / +7+U6#&(5. / _1\$. 08_%. - L06%+##+L=&#\$8L3&+2\$8L5%+#76#7L3&+2\$8L

6#921\$08(!

Z / 6*!F65%+&,*!` !A6#+#\$*!D. - +09(!GMNNOI(!Rac a a U S &

!G1&5. #9!&9(I!!S. #9. #b!K. 2\$, &97

<&. ?,&!6#!E / &065+(!GQPMRI(!L O a C Ba a a A Ma P a (!K&\$06&; &9!

=0. / !%%\$?1b__, &+0#6#7,61%(; . +#&- 1(5. / _+_.. 0&+,L5%&/61\$L3+,+#9+L+\$61L/ +>&2?L

?&01. #+,_^hRRPMY(%\$ / ,!

!
!