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#05/&\*\*\*% )<<1<<213/&.:&/81&Y=0@7/?&"3803N1213&&#@03

O.!=&!>.1:0&%&9!=\*!%4&10&K&/88)(1\$5,11)%%&&P

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Q571;&61<N579/7:3&.:&/81&73<7&=70@7/?&"3803N1213/&#@03

"#\$%#&\$!#"&&'()\*+! "#,.-W/!Y'\$,)\*+! d(%\$(0-&-(^!3,\$(!6#0'/-!#(!!)1/\*!@)&-!d5-1!)(!  
"#,.-!Z[ @dH"!/\*'2-(^/W!/00-//9!T6\*-1!\$!\*%1:+-\$1!31#0-//!\$(2!3'1/')(.)!3!\*!61#&!&'  
&,'\*)3,- !\*\$U-%#2-1/!(0,'2)(.!0#&&'()\*+!&-&4-1/7!6\$0',\*+7!/\*\$667!\$(2!/\*'2-(^/7!""7!  
)2-(^6)-2!\$25/)(.!)31#0-//!\$(2!\$(!#1)-(\*\$\*)#(!0#1/-!\$!)(\*-15-(^)#(!\*#!\$//)!\*!%-&!)(!  
&-\*)(.!)%\*-!6#,,#D)(.!)#\$/h!

12 [ @dH"!/\*'2-(^/!D),,!4-0#&-!-(.\$-2!D)\*%!6\$0',\*+!)(!\$!D-,,2-/-).(-27!D-,, :  
#10%-/\*1\$\*-2!\$25/)(.!)3,\$(!\*%\$\*!,-\$2!/\*#!/\*'2-(^/00-//9

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32 [ @dH"!/\*'2-(^/!D),,!4-0#&-!\$0\*5-+!-(.\$-2!)(!%-)1!-2'0\$\*)#(!4+!0#&3,-\*)(.!)\$!  
1-5)\*\$,)e-2!#1)-(\*\$\*)#(!0#1/-!D)\*%)(!%-!6)1/\*!ME!%#1/!#6!-(1#,,&-(\*!\$!""9

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42 [ @dH"!/\*'2-(^/!D),,!4-! 1-\*\$)(-2!61#&!/&-&/\*-1!#(-!\*#!/-&/\*-1!\*D#!\$(2!\*%1#'.%#\*!  
\*%-)1!0\$1--1/!\$\*!""!%1#'.%!0#&&-0-&-(\*9

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@#!-/'1-!\*\$%\*-/-!.\$\$/!\$1-!&-\*7!\*%-!0#,,.-!%\$/!0#&&)\*-2!/.)(6)0\$(\*!%'&\$(!  
1-/#'10-!/\$2!31#6-//)#(\$,!2-5-#3&-(\*,\*1\$)().9!""W/!Ydb!D),,!4-!\$/-// 2!/) (.!2\$\*\$!  
61#&!&,'\*)3,-!\*##,/) (0,'2)(.!)=+""7!A-(e\$4\$17!"#1/-!(1#,,&-(\*!Z"\$5\$!/\$2!  
.1\$2-/7![ @dH"!/\*'2-(^/!D),,!4-! 1-\*\$)(-2!61#&!/&-&/\*-1!#(-!\*#!/-&/\*-1!\*D#!\$(2!\*%1#'.%#\*!  
\*%-)1!0\$1--1/!\$\*!""!%1#'.%!0#&&-0-&-(\*9

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@%-!)(/\*)\*\*#(W/!)(\*-15-(^)#(!6#1!\$(!-(%\$(0-2!\$25/)(.!)31#0-//!\$(2!#1)-(\*\$\*)#(!0#1/-!  
\$1-)(\*-(2-2!\*#!)&31#5-!1-\*(^)#(!\$(2!/\*'2-(^/!D),,!4-! 1-\*\$)(-2!61#&!/&-&/\*-1!#(-!\*#!/-&/\*-1!\*D#!\$(2!\*%1#'.%#\*!  
0#&3,-\*)#(9!

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T9

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9,\*%+;%)&+"#077\*!\$O4&!;0/\$!4/,!%4&!#03=,&9!,-::(%!.8!)\$,%)%-%).\$/0!  
>.\$,%)%-&\$-9&,  
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@%-!Ydb!B\*--1)(.!"#&&)\*--!4-.\$(!\*%-)1!D#1U!(!B-3\*-&4-1!#6!M^EX9!@%)!/)(\$,!.1#3!  
#6!IM!&-&4-1!)(0,'2-2!2-3\$1\*&-(!0%\$)1/7!2)1-0\*#1/7!2-\$(/7!6\$0',\*+!&-&4-1/7!\$(2!  
/\*2-(\*9!O'1)(.!\*%-)1!31#0-//!#6!2)/0#1+7!\*%-.!1#3!1-5)-D-2!3-1\*)(-(\*,)\*-1\$\*1-!#(!  
/\*2-(\*!1-\*-(\*)#(!\$(2!0,#/-,+!1-5)-D-2!)(/\*)\*\*#(\$,!2\$\*\$!#2-\*1&)(-!%-!.1-\$\*-/!\$1-\$!#6!  
/\*2-(\*!(-29! !

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@%-!0#,,--!0#(2'0\*-2!\$/'15-+!\$(2!0#,,-0\*-2!#5-1!a^^!1-/3#(/-/!61#&!/\*2-(\*7!6\$0',\*+!  
\$(2!/\*\$66\$(2!0#&&'()\*+!&-&4-1!61#&!\*%-)1!/15)0-!\$1-\$9!@#,-!-!)(0,'2-2!5\$1)#'/!  
&-&4-1!#6!\*%-!0\$&3'/!0#&&'()\*+!2'1)(.!\*%-!2-5-,#3&-(\*!#6!\*%-!Ydb!\*#3)0!\$(2!)(!\*%-!  
)(\$,!\*\$.-!#6!\*%-!3,\$(W/!2-5-,#3&-(!9!

!

T0\$2-&)0!1-31-/-(\*\$\*)#(!#(!\*%-!Ydb!@-\$&!)/01#//!2)0)(\$1+!\$(2!)(0,'2-!  
1-31-/-(\*\$\*)5-!/61#&!.(-1\$,!2'0\$\*)#(!2)/0)3,)(-/7!%-,\$,%!/0)-(0-/7!D#1U6#10-!

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4!"  
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#\$%&'()\*"+,-.\*!/01 "

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0#'1/-!2#-!/#\*!&-\$/'1-!D%-\*%-1!\*%-'/'2-(\*!/D-1-!\$0\*)5-,+!-(.\$.-2!)(\*%-)1!-2'0\$\*)#(!#1!  
D%\$!\*%--+!,-\$1(-2!)(\*%-!0#!1/-9  
!

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42"  
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#\$%&'()\*'+,-.\*!/01 "

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\*%\$\*)/!3\$1\*!#6!\*%#!Ydb!31-/-(\*-2!\*#!\*%#!-5\$,'\$\*#1/9!T!\$!1-/'\*7!)\*%#(l)!&)//)(.!  
#33#1\*!()\*-!/\*#!\$//!/\*'2-(\*,-\$1)(.!\$/\*%#!)(/\*)\*\*#(!4-.)(/!#3),#\*!,-&-(/\*!#6!\*%#!  
Ydb9!

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@%K( :B)\*-!L-\$66)1&\$\*)#(!"#&&)\*--!)(\*-15)-D-2!\*%#!Ydb!0#&&)\*--!/\*#2)/0//!2-\*\$),!  
#6!\*%#!Ydb!\$//!&-(/\*3,\$(9!@%-!)(/\*)\*\*#(!)(2)0\$\*!2%\$!>4)&<)\$'!%4&!2(&ZT@O)!  
2\$\*\$!D\$!/-2!\$!4\$/-,)(-!2\$\*\$!\$(2!%\$!1-0-(\*,+\$'(0%-2!\*%#11-\$)%!5.00&&!L-(<&\*!  
.8!L%-9&\$%!B\$/'&1&\$%Bbd]9!!?#\*%\$1-!01-2)4,-!&-\$/'1-!\$(2!D),,+)-,2!\$331#31)\$\*-!  
2\$\*\$!\*#14-\*\*-1!6\$0,)\*\$\*-!%#!\$//!&-(/\*%#!Ydb9

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T,\*%#!.%!\*%#!)(/\*)\*\*#(!)(2)0\$\*-2!\*%\$!\*%#!-1!6#0!/D\$!/\*'2-(\*!/'00-//!)(!)-!#6!/\*'2-(\*!  
,-\$1)(.7!4+!5)1\*!-!#6!(0,'2)(.!\$(!#1)-(\*\$\*)#(!0#1/-7!/\*'2-(\*,-\$1)(.!/%#,2!4-!  
\$//!-29!!?+!\$//!//)(.!D%\$!\*%#!)(/\*)\*\*#(!-!3-0!/\*'2-(\*!/\*#4-!\$4,-!#2#7!\*%#)7!#1!  
U(#D!\$!\$!1-/'\*!#6!0#&3,-\*)(!%#!-#1)-(\*\$\*)#(!0,\$//7!\*%#!)(/\*)\*\*#(!D),!4-!\$4,-!#6',,+!  
2#0'&-(/\*'2-(\*!/'00-//!\$(2!\$0%)-5-&-(!\$!)!1-,\$\*-!/\*%#!-1!Ydb9

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T a QEP, C a R c a :

R c a 2: T C c a

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\$\*-(\*)#(!\$(2!\$/))/\*\$(0-!(--2-2!\$!\*%\*-!4-.)((.(!#6!\*%\*-)1!0#,,--!0\$1--19!T22)\*#(\$,!\$//1\$(0-!  
6#,,#D/!\$!\*%\*-!(2!#6!\*%\*-!1-.)/\*1\$\*)#(!3-1)#2!D%-(!/\*2-0%W2',-/\$1-!1-5)-D-2!\*#!-(!'1-!%\*\$\*!  
\*%\*-+!\$1-!)(!%\*-!0#11-0\*!0#1/-/9!@%-!/\*-3!/31#5)2-!\$!0,-\$1!3\$\*%(!6#\*!&2\*!\*%\*-)1!.\$\$,/9!  
T//-(.!)%\*-!/'00-!!#6!\*%\*-!(%\$(0-2!\$25)/)(.!)31#\*#0#,!D),,!31)&\$1),+!4-!4\$/-2!#(!%\*-!1-3#1\*!/!#6!  
\*%\*-!/\*2-(\*W!\$25)(!&--\*)(./9! !

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@%-!1-5)/-2!#1)-(\*\$\*)#(!0#1/-7!JJB!EVEE7!)/!\*\$.%\*!4+!6\$0',\*+!&-&4-1!/D%#!%\$5-!3\$1\*)0)3\$\*-2!)(!  
/3-0)6)0!\*1\$)(.!)#\*!\*\$0%!\*%\*-!0#1/-9!@%-!1-5)/-2!#1)-(\*\$\*)#(!0#1/-!D),,/-15-!#\*!/'33#1\*!\*%\*-!  
-(%\$(0-2!\$25)/)(.!)31#\*#0#,!\$(2!31#5)2-!/\*2-(\*!D%!)\$22)\*#(\$,!/'33#1\*!)(!\$1-!/'0%!\$/  
(\$5).\$\*)(!%\*-!J)41\$1+7!0\$1--!13,\$(())(.7!6)(\$()0\$!,!3,\$(())(.7!|)(\$()0\$2!\$//)/\*\$(0-7!0#,,--!  
/'00-!!/U),,/7!\$(2!.1#3!D#1U9!T//-(.!)%\*-!/'00-!!#6!\*%2-(\*!)(!%\*)/!0#1/-!)/!0'11-(,\*+!4\$/-2!  
31)&\$1),+!#(!%\*-!/\*2/W!.1\$2-/9

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@%-!3,\$(!\*#!)&3,-&-(\*!%\*-!Ydb!4-+#(2!\*%\*-!)(\*)\$,!&#&-(\*!&3%\$/-!\$33-\$1!/!1#(!!\$/!%\*-!  
0#,,--!0#(\*)('!/\*#!%#2!&--\*)(./!6#1!\*%\*)/!/3-0)6)0'3'13#/-9!@%-!-(%\*/)\$&!(2!2-2)0\$\*)#(!\*#!  
/\*2-(\*!/'00-!!/!%)4)\*-2!4+!\*%\*-!)(\*)\*\*#(W!/b1-)/2-(\*7!6\$0+7!\$(2!/\*\$66!)/!0,-\$1,+!-5)2-(f9!!

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\*\*!9),(#\$,-!%'(!.%#)(',\$&/(\$&%&!(\$!^PXA!(\$!5\*22%(((\$!#-!(\$!9\*1\*.%&/!  
;)//\$'(%\*&F !

- E9 "#((-0\*\$!(2!0,-\$1,+!\$1\*)0',\*\$-!%#D!T0%-5)(.!)%\*-!O1-\$&!2\$\*\$!D\$!/-2!\*#!  
2-\*1&)(-\$!(2!)(6,'-(0-!%\*-!Ydb!\*#3)09!!
- M9 "#((-0\*\$!(2!0,-\$1,+!\$1\*)0',\*\$-!%\*-!T0%-5)(.!)%\*-!O1-\$&!2\$\*\$!\*#!%\*-!Ydb!  
\$//-&-(/\*!#6!\*%\*-!(%\$(0-2!\$25)/)(.!)31#0-!!\$(2!\*%\*-!1-5)/-2!#1)-(\*\$\*)#(!0#1/-9
- V9 T22!8'/\*)#(!/\*#!%\*-!/'1/-!d5\$,'\$\*)#(!/\*#!\$//!!/\*2-(\*,-\$1)(.!)\$(2;#1!  
/\$\*)/6\$0\*)#(!D)\*%!\*%\*-!1-5)/-2!#1)-(\*\$\*)#(!0#1/-9!
- \_9 T22!\$(!T25)/)(.!)--24\$0U!/'15-+!\*#!.\$)(!)(.)\*#!#(!/\*2-(\*,-\$1)(.!)\$(2!  
/\$\*)/6\$0\*)#(!D)\*%!\*%\*-!(-D!31#0)!
- I9 j/-!0'11-(\*"B Bd!2\$\*\$!\$!/\$!4\$/-)(-!/\*#!\$//!!/\*2-(\*-(\$.-&-(\*!)(!%\*-!  
\$25)/)(.!)31#0-!!\$(2!\*%\*-!#1)-(\*\$\*)#(!0#1/-9!

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H6!\$(!)(/\*)\*\*#(!1-0-5-!/@%)1\$1\*+!"#&&-(\*7!\*%\*-!)(/\*)\*\*#(!%\$!/\$(!#33#1\*')\*+!\*#1-3#(2!\*#!  
\*%#-!0#&&-(\*!\$!(2!\*%\*-!K(B)\*-!L-\$66)1&\$\*)#(!"#&&)\*-!1-5)-D!/\*%\*-!1-3#(-!\$!3\$1\*!#6!)\*!  
0#&31-%-/)5-!-5\$,\$\*)#(!#6!\*%\*-!)(/\*)\*\*#(9!!

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@%-!"#&&)\*-!/%#2!0%-0U!#(-!#6!\*%\*-!6#,,#D)(.h

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