
∴;!;D" ~~E)"% " \$2\$ - \$1"*+ " & ("*H&%" ? * & > ASE"%H)AA"OS"O)%\$1" + ("K\$) - %" + 2"%\$ O & > \$"*+ " *HS"
= &%" * & > *) (1"%H)AA")77AK"*+ ")AA" . \$. OS %" + 2"*HS"O) ') & (& (' / (&*" \$') 1A\$%" + 2"
>A)%%&2& >)* & + (" + "7+ %&*& + ("HSA1; " ? "K\$) - " + 2"\$S7\$ & \$ (> \$" . / %*" \$7 \$ % \$ (* (+ * " A \$ % % " H) ("
% \$ O \$ (* KB2& O \$ " 7\$ > \$ (* " TC4UV" + 2"*HS"1)K%" + 2" \$ @ / & \$1"2/ AAB*& . \$ "% \$ O & > \$] ") A * H + / ' H"
% \$. \$ % * \$ % " N & AA " O \$ ") 11\$1"*+ ' \$ * HS E " \$ O \$ (" & 2" & ("% \$ 7)) * \$ % > H + + A " K \$) % E & (" > + . 7 / * & (' " K \$) % "
+ 2"% \$ O & > \$; "~~

∴;!;D;! " ~~Q (" & (% *) (> \$ % " NHS \$ * HS \$ " H) % " O \$ \$ (" 7 & + - > \$ * & 2 & >) * \$ 1 " % \$ O & > \$ " & (" * HS " = & % * & > * E " K \$) - % " + 2"
% \$ O & > \$ " & (" * HS " = & % * & > * % H) AA " O \$ " 1 \$ * \$. & (\$ 1 " OK " / % & (' " * HS " 1) * \$ " + (" NH & > H " * HS " * \$) > HS " . + % * "
- > \$ (* AK " ^ + & (\$ 1 " * HS " = & % * & > * E ") (1 " * HS (" O) > [1] * & (' " * HS ") ((& O \$ %) - K " 1) * \$ " OK " * HS " (/ . O \$ -
+ 2" K \$) - % " 7 \$ O & + / % AK " % \$ O \$ 1 " TO) % \$ 1 " / 7 + (" > / . / A) * & O \$ " % \$. \$ % * \$ % " 1 / & (' " NH & > H " * HS "
* \$) > HS " % \$ O \$ 1 " C4U " + " . + \$ " + 2 " * HS " * & . \$ V ; " Q ((+ " >) % \$ % H) AA " * HS ") ((& O \$ %) - K " 1) * \$ " O \$ "
\$) AA \$ " * H) (" * HS " 2 & % * " \$ @ / & \$ 1 " 1) K " + 2 " % \$ O & > \$ " & (" * H) * % > H + + A " K \$) - ; "~~

∴;!;D;9"

∴!;!9"

)%"-\$2\$-\$1"*+!&("H\$"?77A&>)*&+(")(1"

<"

∴;9;`" ?AA"*)(%2\$ ")77A&>)(%E"/7+("\$>\$&7*+2"*HS"+22\$ "+2)"7+%&*&+("%H)AA" \$%7+(1"OK"D"7;. ;"+2"
*HS"(\$S*O/%&(\$%%"1)K;"Z &*H&("H&%"*& . \$">+(%*)&(*E"*HS"7\$ %+(.")K" \$@/\$%*"&(2+ .)*&+("
-\$')-1&('"*HS"%*)*/%" +2") (K"+*HS "7+%&*&+(T%V"2+ "NH&>H"HS,%HS")77A&&\$1E") (1"*HS" a / .) (" # \$ % + / > \$ % " M 2 2 & > \$ % " H) A A > + . 7 A K " N & * H % / > H " \$ @ / \$ % * ; "

"

∴;9;!5" Q2") ("77A&>)(*2)&AA%"* +")>>>\$7*+ " \$%7+(1"* +)"\$(*)*&O\$")%%&' (-.\$(*E+ "NH\$(")AA")O)&A)OAS"
-.\$)(%" +2">+ . . / (&>)*&+ (%7 +O\$ / (% / >> \$ % % 2 / A " & (" > + (*) > * & (' " * H) * ") 7 7 A & >) (* E " * H \$ " a / .) (" # \$ % + / > \$ % " M 2 2 & > \$ " .) K " 7 + > \$ \$ 1 " + " * H \$ " + * H \$ " \$ 2 \$ \$ 1 ") 7 7 A & >) (* % ; "

"

∴;9;!!" ? (K*\$)>HS-

>;= \$0\$A+7. \$(*)+2)77+7&)*\$&(2+.)&+(-'\$)-1&('6I#6E"HS)A*H"O\$(\$2&%"E")-(1"+*HS"-
-.)**\$ %;"

::<;9" ?AA(+&>\$%"+2"O))(>&\$%"H)AA"O\$7-\$7)-\$1)"%"++(-)"%7+%%&OAS")2*\$-"O))(>&\$%)(1"
7+%%&&+((%) "\$[(+N(E"NA*H"*HS"\$S>\$7*+(-*H)"O))>(>&\$%"H)*"O\$>+.\$[(+N(-)(1)O)&A)OAS"
)%")-\$%/A"+2"\$)-AK-\$&\$-\$.\$(*,\$%&'(-)*&+(-(+&>\$%"\$*2+*H"(";<;!;9"NA&AA"O\$7+%"\$1"+(-"
&S0-/)K"!4*H;"P)>H(+&>\$%"H)AA"O\$)10\$-%&\$1"OK" a / .)(#\$%+/->\$%"M22&>\$&("HS"
2+AA+N&('N)K%&d"

h — 8+%"*+("HS"=%%& &>*NSO%&*\$"
h — P.)&A"*+*HS"1\$%&'(-)*\$1"?%"+&>)&+(-\$7-\$%\$(*)*&OST%V"
h — P.)&A"*+*\$>HS %""

? 10\$-%&\$. \$(*d" IHS"=%%&-&>*%H)AA")10\$-%&\$"O))(>&\$%+("&%"NSO%&*\$2+-("AS%%"H)("2+/-"
TDV"N+-[1)K%") (1(+*k2K"/(&*" . \$. O\$-%)) (1"1\$%&'(-)*\$1"?%"+&>)&+(-\$7-\$%\$(*)*&OS%"+2"
O))>(>&\$%OK"\$.)&A;" ? 10\$-%&\$. \$(%"H)AA" . &(& .)AAK&(>A/1\$)"1\$%>-&7*+(-+2*HS"7+%%&&+(E"
. &(& . / . "\$S7\$-&\$(>\$E"/)A&2&>)*&+(-\$@/&-1E") (1"HS"1\$)1A&(\$2+-)77AK&('E'/(AS%%"HS"
7+%%&&+("&%"1\$%&'(-)*\$1)"%"+7\$(("/(*&A"2&AA\$1:""

::<;<" PS>\$7*2+-%/7A/%*\$>HS"7A))>\$. \$(*) (1">+(*))>\$1*\$>HS %"/()%&'(\$1"OK"? / /%*"!E" (+"
O))>(>K">)(O\$2&AA\$1)"%")-\$ /A))%&&'(-.\$(*"1/ &('6*\$7%!")(1"9"/(&A&*"H)"O\$\$("
)10\$ %&\$1"i(")>>+1))>N&H"\$%*)O&H\$1"7+>\$1/\$%;"PA&'&O&A&Kd" i (&*" . \$. O\$-%))77AK&('"
./%*" . \$\$" . &(& . / . "\$S7\$-&\$(>\$) (1"@/)&2&>)*&+(-\$@/&-\$. \$(%*"+"OS">+(&1\$-\$1"2+-)"
O))>(*"7+%%&&+ (; "\ /AAB* & . \$"/(&*" . \$. O\$-%&'("7+O)*&+(-)K%*"*/%")-\$ (+*"SA&'&OAS;"
a+N\$O\$E"2/AA"+-7)-*B* & . \$"7+O)*&+(-)K"/(&*" . \$. O\$-% .)K")77AK"2+-7+%%&&+("2+-"HS"
%>H+AA"K\$)-&("NH&>H"*HSK")-\$SA&'&OAS"+)*&("7\$- .)(\$(*%*)% / %;"

::<;<;!"8)-*%& . \$\$. 7A+KSS%"j"7+O)*&+(-)K+-\$7\$- .)(\$(*"j)-\$)AA+N\$1"*+)77AK"*+) (K"7+%%&&+(""
1/-&('HS%">H+AA"K\$)-"H)"N+/A1")AA+N*HS . "+&(>-\$)%\$/7"*+!"5" \ IP;"

::<;<;9" I+ . &(& . &g\$1&%-/7*+(*%*/1\$(%"E"&2)"O))>(>K"+>>/-%"1/-&('HS%">H+AA"K\$)-)(1"
+/%&&1\$"+2*HS">A+\$1"7\$-&+1E"HS"=%%&-&>*%H)AA"2&AA"HS"7+%%&&+("N&H")("\$S\$-(A)">)(1&1)*\$:"

::<;D" G+&>\$%"+2"F))>(>&\$%N&AA"O\$(-. O\$-\$1"i("HS"+1\$"-+2"%%/))>(\$;"?77A&>)*&+("7+>\$%&d"
PA&'&OAS"/(&*" . \$. O\$-% .)K")77AK"2+-)"O))>(>K"OK"/O . &***&(')"(+&A&('S)77A&>)*&+(";

::<;4" ?(K"-+1&2&>)*&+(*"+)G+&>\$%"+2"F))>(>K"H)AA" \$@/&\$)("\$N"7+%%&&(')"(1">))>(\$AA)*&+("7+2"
)&K">+ . . &*. \$(%"O)%\$1"+("HS"7-\$O&+/%"G+&>\$%"+2"F))>(>K;"Q(\$-O&N"7+>\$%&d" IHS"
=%%&-&>*" .)K"%SA\$>*HS")77A&>)(*"NH+E"&("HS"^/1' . \$(*"2*HS"%&\$")1 . &(&%-)*+--+ "
7+-'- .)1 . &(&%-)*+E"O\$%*" . \$\$%*"HS"(\$S1%+2*HS"=%%&-&>*%&("2&AA&(")"O))>(*"7+%%&&+(";

::<;L" ?"AA&%"&('"+2"7+%%&&+("2&AA\$1"%H)AA"O\$7+O&1\$1"/7+(" \$@/\$%*"+"HS"6JI?"+"HS"2& %*) (1"
2&2*\$\$(%H"+2"\$)>H" . +(*H; IHS"=%%&-&>*%H)AA"+22\$-O))>(*"7+%%&&+("%"+"HS"O\$%*"@/)&2&2\$1"
)77A&>)(*;" i (&*" . \$. O\$-%NH+)-\$+22\$-\$1)"O))>(*"7+%%&&+("H)AA"H)O\$+(S"TV"N+-[&('"
1)K"+-\$7+(1"+*HS"+22\$-;" ?"/(&*" . \$. O\$-%NH+"&%"(+*+22\$-\$1)"O))>(*"7+%%&&+(" .)KE"
/7+(-\$@/\$%E"-\$&O\$O\$-O)A"2\$S10)>[1"2+ . "HS" a / .)(#\$%+/->\$%="7\$)-. \$(*)%*"NHK"
*HSK"NS-\$ (+%"\$A\$>\$1"2+- "HS"7+%%&&+(";

":;<;C" IHS"7->+\$1/-"\$>+(*)&(\$1"&("6\$>*k+("::<"%H)AA"(+*)77AK"+"6\$>*k+(%"::DB::L"/(A\$%"
%7\$>k2&\$1"*HS-\$k(:"

":;D;! " IHS"&(k&k)A"&1\$(k2k>)*k+(") (1"(+*k2k>)*k+("+2"/-7A/%"7\$ %+((\$A"N&AA"O\$)>>+ . 7A&k%HS1"OK"
*HS" a / .) (" # \$ % + / > \$ % " M 2 2 k > \$ " (+ " A) * \$ " * H) (" * H \$ " \ k 1) K " + >> / k (" ' k (" * H \$ " 2 k % * 2 / A A " N \$ \$ [" k ("
? 7 k A E " k (% + 2) ") % " * H \$ K ") - \$ [(+ N (; " 8 \$ % + ((\$ A " k 1 \$ (* k 2 k \$ 1 " 2 + " % / - 7 A / % k (" ' % H) A A " O \$ " (+ * k 2 k \$ 1 "
N k & H k (" H \$ \$ T < V " 1) K % " + 2 " * H \$ " * k . \$ " * H \$ K ") - \$ k 1 \$ (* k 2 k \$ 1 ; " 6 / > H " (+ * k 2 k >) * k + (" % H) A A " > + (% k % * " + 2 "
N k * \$ (" (+ * k > \$ " .) k A \$ 1 " * + ") 1 1 - \$ % % " + 2 - \$ > + 1 ") (1 ") (\$.) k A " * + " * H \$ " N + [") 1 1 - \$ % % ; "

6 / - 7 A / % k (" ' .) K " + >> / - 2 + - * H \$ " 2 + A A + N k (" ' - \$) % + (% d "

) ; " - M O \$ " % *) 2 2 k (" ') * % > H + + A " % k * \$ % " T 6 / - 7 A / % " 8 \$ % + ((\$ A V ; "

0 ; " - # \$ 1 / > \$ 1 " 2 / (1 k (' " k (" % 7 \$ > k) A " 7 + ') . % ; "

> ; " - I H \$ " * \$. k () * k + (" + 2 ") (" e I ? " 7 + % k * k + (" + " % 7 \$ > k) A " 2 / (1 \$ 1 " 7 + % k * k + (" 2 + ") \$ ' / A) - "
7 \$.) (\$ (* * \$) > H \$ " N H + " H) % (+ " k . . \$ 1 k) * \$ " \$ * / (" k ' H % * " + ") 7 + % k * k + (E " > A) % k 2 k >) * k + ("
+ -) " 1 \$ % k ' () * \$ 1 " 7 + % k * k + (; "

= \$ 2 k (k * k + (d " ? (" k (O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - " k % " + (\$ " k (" N H k > H " * H \$ " \$. 7 A + K \$ \$ " k % " & 1 \$ (* k 2 k \$ 1 " O K "
* H \$ " = k % * - k > E " > + (% k % * \$ (* " N k * H " * H k % " ? - * k > A \$ " : ; D E) " % % / - 7 A / % ; " " ? " O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - " k % "
+ (\$ " k (" N H k > H " * H \$ " \$. 7 A + K \$ \$ " O + A / (* \$ % - " * + " O \$ " * -) (% 2 \$ - - \$ 1 " k (% * \$) 1 " + 2 ") (+ * H \$ - " \$. 7 A + K \$ \$ "
O \$ k (" 1 \$ % k ' () * \$ 1 ") % ") (" k (O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - ; " " ? " % / - 7 A / % " * -) (% 2 \$ - " k % ") " O + A / (*) - K " + - "
k (O + A / (*) - K " * -) (% 2 \$ - + 2 ") / (k * " . \$. O \$ - " k () > A) % % - + + . " * \$) > H k (' 7 + % k * k + (E " k (> A / 1 k (" " * \$) > H \$ - "
- \$ % + / - > \$) (1 " * -) k (" % 7 \$ > k) A k % * E " 1 / \$ " * + " + O \$ - B

~~*HS \$) \$>+ . 7\$AA(' " \$)%(%2+ " 1+(' + *HS N&%SE"*HS"%&*\$")1 . &(&0%) * + "%H)AA"1\$>A) \$"
% / 7A/% "%HS"&(1&0&1/)!"N&%H"*HS"\$) %* = &%* &>*%\$ (& + &*K"& ("*HS"/O\$>*) \$) + 2"*HS"7+%&&+("
1\$>A) \$1"/- 7A/%;"G+*&>\$+2"*-) (%2\$-d" IHS"= &%* -&>*%H)AA" (+&2K"/ (&* . \$. OS-%+2"*HS& -"
% /-7A/% "%-) (%2\$- "TNHS"*HS-"O+A/ (*)-K"+- &(O+A/ (*)-KV") (1"(\$N")%&&' (. \$(*"OK"\$.)&A"/&(' "
HS"= &% -&>*%\$.)&A")11-\$%:"~~

~~∴;D;D;! "Q2"*HS"\$>HS "NH+ "%0"1\$>A) \$1"/- 7A/%"H)"%\$ OS1"&(") (+*HS "/O\$>*2&\$A1"N&%H& ("*HS"
7 \$O&+ /% "2&OS"K\$) %E"+ "H)"%") .)^+ " + " . &(+ "&(") (+*HS "/O\$>*2&\$A1E"*HS"\$>HS " .)K"
>H+ + %\$ "+ "OS">+ . 7) \$1"&(") (K"+ 2"*H+ %\$ "2&\$A1%"+ ("*HS"O)"%&&"+ 2"= &%* &>*%\$ (& + &*K"2+ "% /-7A/%"
1\$>A))&&+(-;"~~

~~∴;D;4" Q2"*HS"%&*\$")1 . &(&0%) * + "1\$>A) \$) %"/- 7A/%") (&(1&0&1/)!" + *HS "H) ("*HS" + (\$"N&%H"*HS"\$) %*"
= &%* &>*%\$ (& + &*K"E"*HS"%&*\$")1 . &(&0%) * + "%H)AA"& . . \$1&)*\$AK"7A)>\$"&("N && ("*HS" \$)%(%2+ "
% />H"1\$>A) &&+ (") (1"*-) (% . &*%*HS . " + "*HS" a / .) (" # \$ % + / - > \$ % "M2&>\$") (1"* + *HS"\$>HS "T%V"
&(O+&OS1;" IHS"= &%* -&>*%H)AA">+ . 7AS\$"*HS"6/-7A/%"I-)(%2\$-"7-+>\$%E"& (>A/1& (")AA" I (+N(""
O)>)) (>&\$%E"OK"X)->H"!4E"& (" (+ (BA)K+22"K\$)-%:" i (&* . \$. OS-%"NH+)-\$ (" + *%*) (%2\$--\$1"OK"
*HS"\$ (1+2"*HS"6/-7A/%"I-)(%2\$-"7-+>\$% "%H)AA"OS"7A)>\$1"&(") (")O)&A)OAS"7+%&&+ ("2+- "NH&>H"
HS,%HS"&@" /)A&2&\$1"& (" %\$ (& + -&*K"+-1\$-E") % "1\$*- . & (\$1"OK"*HS"= &%* -&>*%;" "Q(")K\$)-& ("NH&>H"*HS"
= &%* -&>*% ">+ (1 />%%) "A)K+22"+ 2">\$- *&2&>)*\$1"\$. 7A+KSS%) (1"%&/% "\$7-\$& . & (")K"A)K+22" (+&&>\$%"
*+ "\$. 7A+KSS%"+ (" + - "OS2+-\$"X)->H"!4E"*HS"*& . \$& (\$"2+- "% /-7A/% "%-) (%2\$-"%\$*2+- "H"& ("*H&%"
%\$>*&+ (" :D" %H)AA"OS"\$S*\$ (1\$1E"N&*H" (+&*&>\$+ 2"/-7A/%"7-+O&1\$1"*+ "\$. 7A+KSS%OS"NSS ("X)K"
C") (1"!9E"\$. 7A+KSS%"/O . &*%& (") (K"- \$@ / \$ % * 2+- "O+A/ (*)-K"/-7A/%"OK" (+ "A)*\$- "H) ("X)K"
!DE") (1"*HS"/-7A/% "%-) (%2\$-"7-+>\$% "%N&*H"\$. 7A+KSS% "%H)AA"+>> /- "OS"NSS ("X)K"!4") (1"X)K"
<5;" "Q(")K\$)-*HS"= &%* -&>*% 1+\$%" (+* ">+ (1 />%%) "A)K+22"+ 2">\$- *&2&>)*\$1"\$. 7A+KSS%E"*HS"/-7A/%"
%-) (%2\$-"7-+>\$% "%N&*H"\$. 7A+KSS% "%H)AA"+>> /- "OK"X)->H"!4:"~~

~~∴;D;L" ZHS(\$OS "*N+ "T9V"+ " . + \$7\$ %+(% "H)OS"*HS%) . \$%\$ (& + &*K") (f& ("E"*HS"7\$ %+("*+ "OS"
1\$>A) \$1"/- 7A/% "%H)AA"OS"1\$*\$. & (\$1"OK"*HS">)"%&& (" + 2"A+ %%; "6 />H">)"%&& (" + 2"A+ %%; "N&AA") ["\$
7A)>\$"& ("*HS"7 \$ %\$ (>\$+ 2)AA"7\$ %+(% "NH+ "H)OS"*HS%) . \$%\$ (& + &*K") (f& (") (1"NH+ ">+ /A"
OS")22\$>\$1"OK"*H&%"7 +>\$%&:"~~

~~∴;D;C" IHS" a / .) (" # \$ % + / - > \$ % "M2&>\$"%H)AA"7 +O&1\$ "N & **\$ (" (+&>\$") (1"\$.)&A" (+&>\$"+ "\$>HS "%
% /O\$>*% + &(O+A/ (*)-K") (%2\$ E"%%)&& ("*HS") / - \$ + 2"*HS"*) (%2\$ "N&*H" \$) + ("*HS \$2+ \$E") (1"
&(2+ . & ("*HS" . " + 2"*HS& " & 'H"*%") . \$\$& ("N&*H"*HS"= &%* &>*% \$7 \$ %\$ (*)&OS"&2"*HS"\$>HS "%+ "
-\$@ / \$ % % ;:"~~

~~∴;D;:" Z&*H& (")2+ / BK\$) -7\$ &+ 1E"*\$>HS "%NH+ "H)OS"OSS ("1\$>A) \$1"/- 7A/%"2+ . ") \$' /A) "
7+ %&&+ (" %H)AA" "H)OS"7 \$2\$ \$ (>\$& (" \$ / - (& ("* + *HS"%>H+ + A"2+ . "NH& "H"*H&K" "H)OS"OSS (" "
% /-7A/% \$1;" "I\$)>HS "% .)K">+ . 7AS\$"*HS")77A&>)"&&+ (") (K)*& . \$1/ & ("*HS"2+ / "TDV"K\$) "
7\$ &+ 1">+ . . \$ (>& (" + ("*HS& "&(O+A/ (*)-K"/-7A/%"1)*\$Tb/AK"!V;"~~

~~∴;D;`" d"" IHS"2+AA+N& ("7 +>\$1/ \$ % "%H)AA"OS"/%\$1"\$SS>\$7*NHS \$& (" "
>+ (2A&>"N&*H">+ . 7\$AA(' " \$)%(%; " a + N\$OS E"*HS"\$7 +O&&+ (% "1+ (" + *)77AK" + "1\$>A))&&+ (" "
+ 2"/-7A/% "%%)22")>H+ + A) (1") (&(O+A/ (*)-K") (%2\$ "NHS" \$ "HS" + *)A" / - . OS " + 2" = &%* &>*% "
7+ %&&+ (% "H)"%") (+* "OSS (" \$1 />\$1;" IHS"7 +O&&+ ("N+ /A1")77AK" + (AK"&2"*HS" + *)A" / - . OS " + 2"
>+ / (%\$& ("7+ %&&+ (% "H)OS"OSS (" \$1 />\$1;"~~

∴;D;`;! "ZHS("HS"(/.0S "2"\$AS . \$(*)K">+/(%\$A+ "7+%%&*%+(%"&%"\$1/>\$1"&(")(+(BA)K"+22"%&*/)*)&+("T%>H++A">A+%/\$E">+(%+A&1)*&+(E"+ "+0\$ %*)22&('VE"HS"AS)%*"%\$(&+ "\$AS . \$(*)K">+/(%\$A+ T%V"NH+ "%,))\$>\$1\$(%&A\$1")(1"\$S7\$ &\$(>\$1")%"")>A)%%+ +. "\$\$)>HS "N&AA"O\$ "1\$>A) \$1"%/-7A/%") (1"7A)>\$1"& ("HS"%/-7A/%"\$)\$>HS "7++A;"

"

"

6*\$7"!%H)AA"0\$'k("(\\$0 /) K"!%*) (1%H)AA">+(>A/1\$"+(" ?7 &A"!5*H;" ? (K"7+%k&k+ ("*H)*
N)%7+%\$1"\\$0 /) K"!%*+)2*\$ "0/"0\$2+ \$" ?7 &A"!5*H"%H)AA"0\$7) *+2"6*\$7!" ;F)>>(>k\$%"
H)\$H\$=k%* &>*N)%".)1\$)N) \$+2"7 &+ "*" "\\$0 /) K"!%*E"NH&H" +>>/-\$1"1/ & ("*H\$"
>/-\$(*%>H+ +A"K\$) E"%H)AA"0\$'k(>A/1\$1"1/ & ("6*\$7!" ;" ?0)&A)0!\$7+%k&k+ (%%H)AA"0\$")%" "
-\$%/A*"+2"M(\$B6*+7"%*)22k('E-\$*k \$. \$(*, \$%&') *k+ (% "(+k>\$%) (1") (K"+*H\$ - \$) %+ (%2+ "
NH&H"O)>>(>k\$%"\$S&k%* ;" IHS" =k%* &>*%H)AA">+ . 7A\$*\$H\$M(\$B6*+7"%*)22k('7 +>\$%%"OK" (+ "
A)*\$ "%H) (" \\$0 /) K"!4*H%+ "%H)*\$H+%\$7+%k&k+ (% ".)K"O\$'k(>A/1\$1"*H\$6*\$7!"7 +>\$%%" ? (K"
%/0%\$@/\$(*O)>>(>k\$%" +>>/ & ("')2*\$ " ?7 &A"!5*H"N&AA"0\$".)1\$)O)&A)0!\$*+ " \$.)k(k(' "
%/-7A/%"*\$)>H\$-%"

!!!

∴;4;!∴:"Q2")AA*H+%\$-\$2\$-\$1"2+)"7+%&*k+("1\$>A&("\$*H\$"+22\$-2+ "\$H\$7+%&*k+("A\$)O&("+"7A)>\$-\$(\$*
7+%&A0A\$E*\$H\$("\$H\$7+%&*k+("N&AA"O\$&(>+7+)*\$1"(&+"*H\$"/7A/%"7+>+\$%&";

∴;4;!∴:"6\$A\$>*k+(("2+.")-+("*\$H\$>)(1&1)*\$%"H)AA"O\$".)1\$"OK"*H\$="&%* &>*7 &(>&7)A"+"
1\$%&'(\$T%VE"O)\$%1"+(")(1"2+AA+N&("\$*H\$"\$>+.".\$(1)*k+(("2+."*\$H\$&(\$O&N"7)(\$A;"IHS"
&(\$O&N"7)(\$A"+1\$%&'(\$T%V"%H)AA"&(>A/1\$d"

);" IHS"7 &(>&7)A"+ "1\$%&'(\$S\$]"

0;" 0)'&(&('B/(&*".\$.O\$T%VE"2+."*\$H\$%>H++A"%&SE"\$A\$>\$1"OK"*H\$O)'&(&('"/(&*%&*)22"
)%&&'(\$1")*H\$%>H++A"%&\$]7 &+&K"%H)AA"O\$"*+&(>A/1\$"')1\$"A\$O\$A") (1,+ "%/O\$>")\$)E"
NHS\$")77A&>)OAS;"

>?"(\$NAK"+7\$(\$1"%&*\$%E"6J I ?"N&AA")77+&(&*7)(\$A".\$.O\$-%;"

1;" M*H\$ "7) *k>&7)(\$%"./%)AAKB)'-\$1"/7+("OK"*H\$7 &(>&7)A") (1"6J I ?B-\$7-\$%\$(\$)*&O\$%"+(" *H\$>+."&*\$S\$;"

∴;4;9" _____"

JA)%% + + . "7+%&*k+ (%*H)*"O\$>+."\$")O)&A)OAS"+ "+7\$(")%)"-\$%/A*" +2"&(B=&%* &>*7\$-.)(\$(\$*
>A)%% + + . "\$>)H\$ %&)">>\$7& (&'7+%&*k+ (%)*+*H\$ "%&*\$%,\$1\$7) *.\$(\$%E"7\$ "∴;4;!N&AAE")2*\$") (K"
A+>)A")%&&'(-.\$(\$>H)('\$%E"O\$&(>+7+)*\$1"(&+"*H\$"/7A/%"7++A;"

PA&'&O&A&*K"2+-"*-)(%2\$d"-i (&*".\$.O\$-%"./%*"\$.S\$*" .&(&./."SS7\$-&\$(>\$")(1"@/)&2&>)*k+(" -
-\$@/&-\$.\$(\$%") (1".)K" (+*O\$&("7-+O)*k+(-K"%*)*/%&("+-1\$-""O\$"\$A&'&OAS"2+-"*-)(%2\$-&(&(+
O)>)(*"7+%&*k+ (%E"\$S>\$7"*H)*"7-+O)*k+(-K"/(&*".\$.O\$-%".)K")77AK"2+-"O)>)(*"7+%&*k+ (%
2+-"*H\$%>H++A"K\$)-&("NH&>H"*H\$K")-\$"

1;"

!D"

"
0;" ~~0) ')&(&('B/(k*" . \$. 0\$ T%VE"2 + . "H\$">H++A"%k*\$E"%\$A\$>*\$1"OK"H\$"0) ')&(&('"/ (k*"%)22"~~
~~)%&k' (\$1)"*H\$">H++A"%&k*\$J"7 &+ &k*K"%H)AA"0\$ + "k (>A/1\$' -)1\$"A\$0\$A") (1, + "%/0^\$>*) - \$)E"~~
~~NH\$ "\$)77A&>)0A\$;"~~
"
>;" ~~?*"(\$NAK"+7\$(\$1"%&k*\$%E"6JI?"N&AA")77+k(*7)(\$A" . \$. 0\$-%;"~~
"
1;" ~~M*H\$ "7) *k>k7)(%/" . /*/))AKB) ' \$\$1"/7+("OK"H\$"7 &(>k7)A") (1"6JI?B \$7 \$%\$(*)&k0\$%" + ("~~

P1/>)*&+("OK*H\$a / .)("#\$%+ /->\$%M22k>SE"/7+("HS-\$>+ . . \$(1)*&+ ("2%*)22"ASOSA"
k(%* />*&+ (")1 . k(k%*)*+ %;"IHS\$)%+(%2+ ") (K" \$>+ . . \$(1\$1*)(%2\$ "+*H\$*H)("2+ "
-\$)%+(%"+2% / 7A/%%H)AA"OS"1\$&(\$)\$1k("N k&k('"OK*H\$a / .)22"ASOSA" k(%* />*&+ (")A"
)1 . k(k%*)*+ %") (1"1\$AAOS \$1"*+ "H\$a / .)("#\$%+ /->\$%M22k>\$"NH&H"%H)AA"7 +O&1\$")>+7K"
+ "H\$")22\$>\$1\$>H\$ %;"6 />H"7\$ %+((\$A%H)AA"OS*)(%2\$ \$1k(*+)("\$S&*&('"O)>)(>K" k(""
NH&H"*H\$K"N&AA"OS")OAS"+7\$ 2+ . . " + "\$22\$>*kO\$AK;"

"

" ~~?%"+ + ("%)(")1 . k(k%*)*+ "*")(%2\$ "%%O&k('">+(%&1\$ \$1"OK*H\$a / .)("#\$%+ /->\$%"
=7)) * . \$(E"O / ("AS%*%*H) ("H& *K" T<5V" N+ [k('"1)K"%2+ . "H\$ k(k%*)*&+ ("2"*H\$"
)1 . k(k%*)*kOS*)(%2\$ E"*H\$"%&\$")1 . k(k%*)*+ "+" a / .)("#\$%+ /->\$%" \$7 \$%\$ (*)&OS" T+ (AK"
OK"1&\$>*&+ ("2"*H\$a / .)("#\$%+ /->\$%"=7) * . \$(*"N&AA" . \$\$*"N&H"*H\$"\$. 7A+K\$\$"+d"~~

"

) ;" ~~Q(2+ . . "*H\$"\$. 7A+K\$\$"+2"*H\$"7 +OAS\$.]"~~

"

O;" ~~PS7 \$%%" \$)%(%)H)*")(")1 . k(k%*)*kOS*)(%2\$ "%%O&k('">+(%&1\$ \$1") (1"NH)*")>*&+ (%"
N+ /A1"AS)1"*+)(")1 . k(k%*)*kOS*)(%2\$ -]"~~

"

" ~~ZH\$(\$OS "7+%&OASE">\$ *k2k>)*\$1\$. 7A+K\$\$%N&AA" (+*OS" . +OS1"N&H+ /"*H\$& ">+(%\$(E) ("1"
N&AA"OS"&OS(")AA")O)kA)OAS"+7*k+(%)%*+ "NH&H"%&\$*H\$K"N&AA"OS" . +OS1;"IHS"7) *k\$%)' '\$\$"
H)")1 . k(k%*)*kOS*)(%2\$ %" .)K"OS"\$22\$> /)\$1"N&H+ "N&H+ /"\$. 7A+K\$\$">+(%\$(;"~~

"

IHS"=k%*-k>* .)K*-) (%2\$-)" / (k* . \$. OS-"O\$>)/%"+2%/O%*) (1)-1"7\$-2+- .)(>\$"+-+*H\$-"
>+(>\$-("-\$')-1k('"H&%,HS-)O&A&*K"*+ % />>\$%2/AAK"7\$-2+- . "H\$1 / *k\$%"+2"H&%,HS-"7+%&k&+ (:"
IHS-\$)%+(%"+2- "H\$*"-) (%2\$-%H)AA"OS"7 +O&1\$1"*+ "H\$a / (k* . \$. OS-"&("N-k&k('")%"+ + (" "
2\$)%&OAS"7-k+-"*+ "H\$*"-) (%2\$-;" ? "%&\$")1 . k(k%*)*+ "-+ " a / .)("#\$%+ /->\$%"-\$7-\$%\$ (*)&OS"
%H)AA" . \$\$*"N&H"*H\$"/ (k* . \$. OS-"*+ "\$S7A)& ("H\$-\$)%+(%"+2- "H\$*"-) (%2\$-)"%"+ + (")2\$)%&OAS"
7-k+-"*+ "H\$*"-) (%2\$-;" i (k* . \$. OS-%%H)AA"OS*"-) (%2\$--\$1k (*+ "\$S&*&('"O)>)(>&\$%"+2- "NH&H"
*H\$K")-\$"@ /)A&2&\$1:"