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Â Â UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 Â Â FORM 10-Q Â Â (Mark One) Â Â Â Â Â Â â˜’ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 Â For the quarterly period ended September 30, 2024 or Â Â Â Â Â â˜ TRANSITION REPORT UNDER SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 Â For the Transition Period from to Commission File No. 001-32919 Â Â Ascent Solar Technologies, Inc. (Exact name of registrant as specified in its charter) Â Â Â Â Â Â Delaware Â 20-3672603 (State or other jurisdiction ofincorporation or organization) Â (I.R.S. EmployerIdentification No.) Â Â 12300 Grant Street, Thornton, CO Â 80241 (Address of principal executive offices) Â (Zip Code) Â Registrantâ€™s telephone number including area code: 720-872-5000 Â Â Securities registered pursuant to Section 12(b) of the Act: Â Title of each class Trading Symbol(s) Name of exchange on which registered Common ASTI NasdaqÂ Capital Markets Â Indicate by check mark whether the issuer (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes â˜’ No â˜ Indicate by check mark whether the registrant has submitted every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (Â§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). â˜’ Yes â˜ No Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of â€œlarge accelerated filer,â€ â€œaccelerated filerâ€ and â€œsmaller reporting companyâ€ in Rule 12b-2 of the Exchange Act: Â Large accelerated filer Â â˜ Accelerated filer Â â˜ Â Â Â Â Â Â Non-accelerated filer Â â˜’ Smaller reporting company Â â˜’ Â Â Â Â Â Â Â Â Emerging growth company Â â˜ If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.â˜ Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes â˜ No â˜’ As of November 14, 2024, there were 1,324,804 shares of our common stock issued and outstanding. Â Â Â ASCENT SOLAR TECHNOLOGIES, INC. Quarterly Report on Form 10-Q For the Period Ended September 30, 2024 Table of Contents Â PART I. FINANCIAL INFORMATION Â Item 1. Unaudited Condensed Financial Statements 1 Unaudited Condensed Balance Sheets - as of September 30, 2024 and December 31, 2023 1 Unaudited Condensed Statements of Operations and Comprehensive Income - For the Three and Nine Months Ended September 30, 2024 and 2023 2 Unaudited Condensed Statements of Changes in Stockholdersâ€™ Equity (Deficit) - For the Three and Nine Months Ended September 30, 2024 and 2023 3 Unaudited Condensed Statements of Cash Flow - For the Nine Months Ended September 30, 2024 and 2023 5 Notes to the Unaudited Condensed Financial Statements 6 Item 2. Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations 19 Item 3. Quantitative and Qualitative Disclosures About Market Risk 24 Item 4. Controls and Procedures 24 PART II. OTHER INFORMATION 26 Item 1. Legal Proceedings 26 Item 1A. Risk Factors 26 Item 2. Unregistered Sales of Equity Securities and Use of Proceeds 26 Item 3. Defaults Upon Senior Securities 27 Item 4. Mine Safety Disclosures 27 Item 5. Other Information 27 Item 6. Exhibits 28 SIGNATURES 33 Â Â Â Â Table of ContentsÂ FORWARD-LOOKING STATEMENTS This Quarterly Report on Form 10-Q includes â€œforward-looking statementsâ€ that

involve risks and uncertainties. Forward-looking statements include statements concerning our plans, objectives, goals, strategies, future events, future net sales or performance, capital expenditures, financing needs, plans or intentions relating to acquisitions, business trends and other information that is not historical information and, in particular, appear under headings including â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operationsâ€ and â€œOverview.â€ When used in this Quarterly Report, the words â€œestimates,â€ â€œexpects,â€ â€œanticipates,â€ â€œprojects,â€ â€œplans,â€ â€œintends,â€ â€œbelieves,â€ â€œforecasts,â€ â€œforesees,â€ â€œlikely,â€ â€œmay,â€ â€œshould,â€ â€œgoal,â€ â€œtarget,â€ and variations of such words or similar expressions are intended to identify forward-looking statements. All forward-looking statements are based upon information available to us on the date of this Quarterly Report. These forward-looking statements are subject to risks, uncertainties and other factors, many of which are outside of our control, that could cause actual results to differ materially from the results discussed in the forward-looking statements, including, among other things, the matters discussed in this Quarterly Report in the sections captioned â€œRisk Factorsâ€ and â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operations.â€ Factors you should consider that could cause these differences are: â€¢Our operating history and lack of profitability; â€¢Our ability to develop demand for, and sales of, our products; â€¢Our ability to attract and retain qualified personnel to implement our business plan and corporate growth strategies; â€¢Our ability to develop sales, marketing and distribution capabilities; â€¢Our ability to successfully develop and maintain strategic relationships with key partners; â€¢The accuracy of our estimates and projections; â€¢Our ability to secure additional financing to fund our short-term and long-term financial needs; â€¢Our ability to maintain the listing of our common stock on the Nasdaq Capital Market. â€¢The commencement, or outcome, of legal proceedings against us, or by us, including ongoing litigation proceedings; â€¢Changes in our business plan or corporate strategies; â€¢The extent to which we are able to manage the growth of our operations effectively, both domestically and abroad, whether directly owned or indirectly through licenses; â€¢The supply, availability and price of equipment, components and raw materials, including the elements needed to produce our photovoltaic modules; â€¢Our ability to expand and protect the intellectual property portfolio that relates to our photovoltaic modules and processes; â€¢Our ability to maintain effective internal controls over financial reporting; â€¢Our ability to achieve projected operational performance and cost metrics; â€¢General economic and business conditions, and in particular, conditions specific to the solar power industry; and â€¢Other risks and uncertainties discussed in greater detail elsewhere in this Quarterly Report and in Part I, Item 1A â€œRisk Factorsâ€ of our Annual Report on Form 10-K for the year ended December 31, 2023 There may be other factors that could cause our actual results to differ materially from the results referred to in the forward-looking statements. We undertake no obligation to publicly update or revise forward-looking statements to reflect subsequent events or circumstances after the date made, or to reflect the occurrence of unanticipated events, except as required by law. References to â€œwe,â€ â€œus,â€ â€œour,â€ â€œAscent,â€ â€œAscent Solarâ€ or the â€œCompanyâ€ in this Quarterly Report mean Ascent Solar Technologies, Inc. Â Table of ContentsASCENT SOLAR TECHNOLOGIES, INC.Â PART I. FINANCIAL INFORMATION Item 1. Condensed Financial Statements CONDENSED BALANCE SHEETS (unaudited) Â Â Â September 30, Â Â December 31, Â Â Â 2024 Â Â 2023 Â ASSETS Â Â Â Â Â Â Current Assets: Â Â Â Â Â Â Cash and cash equivalents Â $ 3,721,546 Â Â $ 1,048,733 Â Trade receivables, net of allowance of $0Â and $0, respectively Â Â 4,275 Â Â Â - Â Inventories, net Â Â 457,896 Â Â Â 447,496 Â Prepaid and other current assets Â Â 132,319 Â Â Â 39,279 Â Total current assets Â Â 4,316,036 Â Â Â 1,535,508 Â Â Â Â Â Â Â Property, Plant and Equipment: Â Â 19,679,918 Â Â Â 21,177,892 Â Accumulated depreciation Â Â (19,429,536) Â Â (20,131,008) Property, Plant and Equipment, net Â Â 250,382 Â Â Â 1,046,884 Â Â Â Â Â Â Â Other Assets: Â Â Â Â Â Â Operating lease right-of-use assets, net Â Â 2,007,001 Â Â Â 2,364,672 Â Patents, net of accumulated amortization of $179,603Â and $173,387Â Â Â respectively Â Â 47,762 Â Â Â 53,978 Â Equity method investment Â Â 66,411 Â Â Â 68,867 Â Other non-current assets Â Â 1,228,399 Â Â Â 1,228,797 Â Â Â Â 3,349,573 Â Â Â 3,716,314 Â Total Assets Â $ 7,915,991 Â Â $ 6,298,706 Â LIABILITIES AND STOCKHOLDERSâ€™ EQUITY (DEFICIT) Â Â Â Â Â Â Current Liabilities: Â Â Â Â Â Â Accounts payable Â $ 449,841 Â Â $ 579,237 Â Related party payables Â Â 11,539 Â Â Â 4,231 Â Accrued expenses Â Â 459,905 Â Â Â 1,354,159 Â Accrued payroll Â Â 396,029 Â Â Â 160,477 Â Accrued professional services fees Â Â 207,704 Â Â Â 849,282 Â Accrued interest Â Â 556,932 Â Â Â 628,145 Â Current portion of operating lease liability Â Â 555,495 Â Â Â 491,440 Â Conversions payable (Note 12) Â Â - Â Â Â 1,089,160 Â Current portion of convertible notes, net Â Â - Â Â Â 354,936 Â Bridge loan Â Â 315,744 Â Â Â - Â Other payable Â Â - Â Â Â 250,000 Â Total current liabilities Â Â 2,953,189 Â Â Â 5,761,067 Â Long-Term Liabilities: Â Â Â Â Â Â Non-current operating lease liabilities Â Â 1,615,945 Â Â Â 2,043,025 Â Accrued warranty liability Â Â 21,225 Â Â Â 21,225 Â Total liabilities Â Â 4,590,359 Â Â Â 7,825,317 Â Commitments and contingencies (Note 17) Â Â Â Â Â Â Stockholdersâ€™ Equity (Deficit): Â Â Â Â Â Â Series A preferred stock, $.0001Â par value; 750,000Â shares authorized; 48,100Â Â Â and 48,100Â shares issued and outstanding, respectively ($935,678Â andÂ Â Â $899,069Â Â Liquidation Preference, respectively) Â Â 5 Â Â Â 5 Â Common stock, $0.0001Â par value, 500,000,000Â authorized; 1,275,429Â Â Â and 238,996Â shares issued and outstanding, respectively Â Â 128 Â Â Â 24 Â Additional paid-in capital Â Â 493,468,895 Â Â Â 480,942,860 Â Accumulated deficit Â Â (490,152,872) Â Â (482,478,436) Accumulated other comprehensive loss Â Â 9,476 Â Â Â 8,936 Â Total stockholdersâ€™ equity (deficit) Â Â 3,325,632 Â Â Â (1,526,611) Total Liabilities and Stockholdersâ€™ Equity (Deficit) Â $ 7,915,991 Â Â $ 6,298,706 Â Â The accompanying notes are an integral part of these unaudited condensed financial statements. 1 Table of ContentsASCENT SOLAR TECHNOLOGIES, INC.Â CONDENSED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME (unaudited) Â Â Â Three Months Ended September 30, Â Â Nine Months Ended September 30, Â Â Â 2024 Â Â 2023 Â Â 2024 Â Â 2023 Â Revenues Â Â Â Â Â Â Â Â Â Â Â Â Products Â $ 8,550 Â Â $ 209,496 Â Â $ 41,893 Â Â $ 395,106 Â Milestone and engineering Â Â - Â Â Â 20,458 Â Â Â - Â Â Â 60,374 Â Total Revenues Â Â 8,550 Â Â Â 229,954 Â Â Â 41,893 Â Â Â 455,480 Â Costs and Expenses Â Â Â Â Â Â Â Â Â Â Â Â Costs of revenue Â Â 76,796 Â Â Â 692,752 Â Â Â 147,708 Â Â Â 1,820,816 Â Research, development and manufacturingÂ Â Â operations Â Â 603,534 Â Â Â 344,942 Â Â Â 1,716,766 Â Â Â 2,832,956 Â Selling, general and administrative Â Â 1,216,976 Â Â Â 1,407,493 Â Â Â 3,888,455 Â Â Â 4,178,146 Â Share-based compensation Â Â 354,410 Â Â Â 139,067 Â Â Â 799,345 Â Â Â 2,104,378 Â Depreciation and amortization Â Â 17,730 Â Â Â 23,723 Â Â Â 57,139 Â Â Â 73,947 Â Impairment loss Â Â - Â Â Â - Â Â Â 524,481 Â Â Â - Â Total Costs and Expenses Â Â 2,269,446 Â Â Â 2,607,977 Â Â Â 7,133,894 Â Â Â 11,010,243 Â Loss from Operations Â Â (2,260,896) Â Â (2,378,023) Â Â (7,092,001) Â Â (10,554,763) Other Income/(Expense) Â Â Â Â Â Â Â Â Â Â Other income/(expense), net Â Â 742,162 Â Â Â 756,859 Â Â Â 768,496 Â Â Â 766,859 Â Warrant settlement (Note 15) Â Â - Â Â Â - Â Â Â (743,462) Â Â - Â Interest expense Â Â (170,838) Â Â (288,109) Â Â (604,473) Â Â (2,118,023) Total Other Income/(Expense) Â Â 571,324 Â Â Â 468,750 Â Â Â (579,439) Â Â (1,351,164) Income/(Loss) on Equity Method Investments Â Â (1,295) Â Â - Â Â Â (2,996) Â Â (170) Net Income/(Loss) Â $ (1,690,867) Â $ (1,909,273) Â $ (7,674,436) Â $ (11,906,097) Net Income/(Loss) Per ShareÂ (Basic and Diluted) Â $ (1.37) Â $ (404.00) Â $ (10.46) Â $ (6,640.00) Weighted Average Common SharesÂ Â Â OutstandingÂ (Basic) Â Â 1,232,242 Â Â Â 4,732 Â Â Â 733,855 Â Â Â 3,548 Â Weighted Average Common SharesÂ Â Â OutstandingÂ (Diluted) Â Â 1,232,242 Â Â Â 4,732 Â Â Â 733,855 Â Â Â 3,548 Â Other Comprehensive Income/(Loss) Â Â Â Â Â Â Â Â Â Â Â Â Foreign currency translation gain/(loss) Â Â 2,774 Â Â Â 19,940 Â Â Â 540 Â Â Â 21,810 Â Net Comprehensive Income/(Loss) Â $ (1,688,093) Â $ (1,889,333) Â $ (7,673,896) Â $ (11,884,287) Â The accompanying notes are an integral part of these unaudited condensed financial statements. 2 Table of ContentsASCENT SOLAR TECHNOLOGIES, INC.Â CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERSâ€™ EQUITY (DEFICIT) (unaudited) For the Three and Nine Months Ended September 30, 2024 Â Â Â Series APreferred Stock Â Â Common Stock Â Â AdditionalPaid-In Â Â Accumulated Â Â Other Accumulated Comprehensive Â Â TotalStockholdersâ€™Equity Â Â Â Shares Â Â Amount Â Â Shares Â Â Amount Â Â Capital Â Â Deficit Â Â Income (Loss) Â Â (Deficit) Â Balance at January 1, 2024 Â Â 48,100 Â Â Â $ 5 Â Â Â 238,996 Â Â $ 24 Â Â $ 480,942,860 Â Â $ (482,478,436) Â $ 8,936 Â Â $ (1,526,611) Conversion of L1 NoteÂ Â Â into Common Stock Â Â - Â Â Â - Â Â Â 24,118 Â Â Â 3 Â Â Â 1,256,689 Â Â Â - Â Â Â - Â Â Â 1,256,692 Â Sale of common stock Â Â - Â Â Â - Â Â Â 151,795 Â Â Â 15 Â Â Â 4,455,225 Â Â Â - Â Â Â - Â Â Â 4,455,240 Â Exercise of prefunded warrants Â Â - Â Â Â - Â Â Â 218,775 Â Â Â 22 Â Â Â (22) Â Â - Â Â Â - Â Â Â - Proceeds from sale on ATM facility, Â Â net of expenses of $617,694 Â Â - Â Â Â - Â Â Â 553,427 Â Â Â 55 Â Â Â 8,341,165 Â Â Â - Â Â Â - Â Â Â 8,341,220 Â Common stock issued to settle liabilities Â Â - Â Â Â - Â Â Â 3,500 Â Â Â - Â Â Â 38,500 Â Â Â - Â Â Â - Â Â Â 38,500 Â Warrant repurchase Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (3,600,000) Â Â - Â Â Â - Â Â Â (3,600,000) Warrant settlement Â Â - Â Â Â - Â Â Â - Â Â Â 743,459 Â Â Â - Â Â Â - Â Â Â 743,459 Â Share-based compensation Â Â - Â Â Â - Â Â Â 800 Â Â Â - Â Â Â 429,983 Â Â Â - Â Â Â - Â Â Â 429,983 Â Net Loss Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (5,983,569) Â Â - Â Â Â (5,983,569) Foreign Currency Translation Â Â Â Adjustment Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (2,234) Â Â (2,234) Balance at June 30, 2024 Â Â 48,100 Â Â $ 5 Â Â Â 1,191,411 Â Â $ 119 Â Â $ 492,607,859 Â Â $ (488,462,005) Â $ 6,702 Â Â $ 4,152,680 Â Share-based compensation Â Â - Â Â Â - Â Â Â 15 Â Â Â - Â Â Â 354,395 Â Â Â - Â Â Â - Â Â Â 354,395 Â Proceeds from sale on ATM facility, Â Â net of expenses of $36,194 Â Â - Â Â Â - Â Â Â 84,003 Â Â Â 9 Â Â Â 506,641 Â Â Â - Â Â Â - Â Â Â 506,650 Â Net Loss Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (1,690,867) Â Â - Â Â Â (1,690,867) Foreign Currency Translation Â Â Â Adjustment Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 2,774 Â Â Â 2,774 Â Balance at September 30, 2024 Â Â 48,100 Â Â $ 5 Â Â Â 1,275,429 Â Â $ 128 Â Â $ 493,468,895 Â Â $ (490,152,872) Â $ 9,476 Â Â $ 3,325,632 Â The accompanying notes are an integral part of these unaudited condensed financial statements. 3 Table of ContentsASCENT SOLAR TECHNOLOGIES, INC.Â CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERSâ€™ DEFICIT (unaudited) For the Three and Nine Months Ended September 30, 2023 Â Â Â Series APreferred Stock Â Â Series 1BPreferred Stock Â Â Common Stock Â Â AdditionalPaid-In Â Â Accumulated Â Â Other Accumulated Comprehensive Â Â TotalStockholdersâ€™Equity Â Â Â Shares Â Â Amount Â Â Shares Â Â Amount Â Â Shares Â Â Amount Â Â Capital Â Â Deficit Â Â Income (Loss) Â Â (Deficit) Â Balance at January 1, 2023 Â Â 48,100 Â Â $ 5 Â Â Â - Â Â $ - Â Â Â 205,746 Â Â $ 21 Â Â $ 448,343,158 Â Â $ (447,427,862) Â $ (16,024) Â $ 899,298 Â Conversion of L1 NoteÂ Â Â into Common Stock Â Â - Â Â Â - Â Â Â - Â Â Â 452 Â Â Â - Â Â Â 1,240,818 Â Â Â - Â Â Â - Â Â Â 1,240,818 Â Conversion of Sabby Note intoÂ Â Â Common Stock Â Â - Â Â Â - Â Â Â - Â Â Â 631 Â Â Â - Â Â Â 2,123,649 Â Â Â - Â Â Â - Â Â Â 2,123,649 Â Share-based compensation Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 1,965,311 Â Â Â - Â Â Â - Â Â Â 1,965,311 Â Proceeds from issuance of Â Â Â Series 1B Preferred Stock Â Â - Â Â Â - Â Â Â 900 Â Â Â - Â Â Â - Â Â Â - Â Â Â 900,000 Â Â Â - Â Â Â - Â Â Â 900,000 Â Preferred Stock issuance cost Â (20,000) Â Â Â Â Â Â Â Â Â (20,000) Common stock issued for services Â Â - Â Â Â - Â Â Â - Â Â Â 15 Â Â Â - Â Â Â 92,750 Â Â Â - Â Â Â - Â Â Â 92,750 Â Down round deemed dividend Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 11,653,986 Â Â Â (11,653,986) Â Â - Â Â Â - Â Net Loss Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (9,996,824) Â Â - Â Â Â (9,996,824) Foreign Currency Translation Â Â Â Adjustment Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 1,870 Â Â Â 1,870 Â Balance at June 30, 2023 Â Â 48,100 Â Â $ 5 Â Â Â 900 Â Â $ - Â Â Â 206,844 Â Â $ 21 Â Â $ 466,299,672 Â Â $ (469,078,672) Â $ (14,154) Â $ (2,793,128) Conversion of L1 NoteÂ Â Â into Common Stock Â Â - Â Â Â - Â Â Â - Â Â Â 1,063 Â Â Â - Â Â Â - Â Â Â (603,657) Â Â - Â Â Â - Â Â Â (603,657) Conversion of Sabby Note intoÂ Â Â Common Stock Â Â - Â Â Â - Â Â Â - Â Â Â 741 Â Â Â - Â Â Â 151,949 Â Â Â - Â Â Â - Â Â Â 151,949 Â Prepayment of Common StockÂ Â Â Purchase Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 2,088,290 Â Â Â - Â Â Â - Â Â Â 2,088,290 Â Share-based compensation Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â 139,067 Â Â Â - Â Â Â - Â Â Â 139,067 Â Net Loss Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â (1,909,273) Â Â - Â Â Â (1,909,273) Foreign Currency Translation Â Â Â Adjustment Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â Â Â - Â

assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Operating results for the three and nine months ended September 30, 2024, are not necessarily indicative of the results that may be expected for the year ending December 31, 2024. NOTE 3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIESThe Companyâ€™s significant accounting policies were described in Note 2 to the audited financial statements included in the Companyâ€™s Annual Report on Form 10-K for the year ended December 31, 2023. There have been no significant changes to our accounting policies as of September 30, 2024.Revenue Recognition:Product revenue. The Company recognizes revenue for the sale of PV modules and other equipment sales at a point in time following the transfer of control of such products to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. For module and other equipment sales contracts that contain multiple performance obligations, the Company allocates the transaction price to each performance obligation identified in the contract based on relative standalone selling prices, or estimates of such prices, and recognizes the related revenue as control of each individual product is transferred to the customer. 6 Table of ContentsÂ During the three months ended September 30, 2024 and 2023, the Company recognized product revenue of $8,550 and $209,496, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized product revenue of $41,893 and $395,106, respectively. Milestone and engineering revenue. Each milestone and engineering arrangement is a separate performance obligation. The transaction price is estimated using the most likely amount method and revenue is recognized as the performance obligation is satisfied through achieving manufacturing, cost, or engineering targets. During the three months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $20,458, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $60,374, respectively. Government contracts revenue. Revenue from government research and development contracts is generated under terms that are cost plus fee or firm fixed price. The Company generally recognizes this revenue over time using cost-based input methods, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs of the contract. In applying cost-based input methods of revenue recognition, the Company uses the actual costs incurred relative to the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize.Cost based input methods of revenue recognition are considered a faithful depiction of the Companyâ€™s efforts to satisfy long-term government research and development contracts and therefore reflect the performance obligations under such contracts. Costs incurred that do not contribute to satisfying the Companyâ€™s performance obligations are excluded from the input methods of revenue recognition as the amounts are not reflective of transferring control under the contract. Costs incurred towards contract completion may include direct costs plus allowable indirect costs and an allocable portion of the fixed fee. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.No government contract revenue was recognized during the three and nine months ended September 30, 2024 and 2023.Accounts Receivable. As of September 30, 2024 and December 31, 2023, the Company had an accounts receivable, net balance of $4,275 and $0, respectively. As of September 30, 2024 and December 31, 2023, the Company had an allowance for doubtful accounts of $0 and $0, respectively.Deferred revenue for the nine months ended September 30, 2024 was as follows: Â Balance as of January 1, 2024 $ 935 Â Additions Â 7,700 Â Recognized as revenue Â (7,700) Balance as of September 30, 2024 $ 935 Â Other Assets: Other assets is comprised of the following: Â Â September 30, Â Â December 31, Â Â Â Â 2024 Â Â 2023 Â Lease security deposit Â $ 625,000 Â Â $ 625,000 Â Spare machine parts Â Â 603,399 Â Â Â 603,797 Â Total Other Assets Â $ 1,228,399 Â Â $ 1,228,797 Â Other Income/(Expense), net: Other income/(expense), net is comprised as follows: 7 Table of ContentsÂ Â Â Three months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â Â 769,983 Â Other Â Â Â - Â Â Â Â (13,124) Total Other Income/(Expense), net Â $ Â 742,162 Â Â $ Â 756,859 Â Â Â Â Â Â Â Â Â Â Â Â Nine months ended Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ Â - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â Â 769,983 Â Other Â Â Â 26,334 Â Â Â Â (3,124) Total Other Income/(Expense), net Â $ Â 768,496 Â Â $ Â 766,859 Â Earnings per Share: Earnings per share (â€œEPSâ€) are the amount of earnings attributable to each share of common stock. Basic EPS has been computed by dividing income available to common stockholders by the weighted-average number of common shares outstanding during the period. Income available to common stockholders has been computed by deducting dividends accumulated for the period on cumulative preferred stock (whether or not earned) and deemed dividends due to down round financings from net income. For the nine months ended September 30, 2023, income available to common stockholders was adjusted for deemed dividends due to down round financings of $11,653,986 (See Note 10 in the Company's Annual Report on Form 10-K for the year ended December 31, 2023). Diluted earnings per share has been computed by dividing income available to common stockholders adjusted on an if-converted basis for the period by the weighted average number of common shares and potentially dilutive common share outstanding (which consist of warrants, options, restricted stock units and convertible securities using the if-converted or treasury stock method to the extent they are dilutive). Approximately 202 thousand and 11 thousand shares of dilutive shares were excluded from the three months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Approximately 128 thousand and 5 thousand shares of dilutive shares were excluded from the nine months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows:Â Â Â Three months ended Â Â Nine months ended Â Â Â September 30, 2023 Â Â September 30, 2023 Â Net Loss Â $ Â (1,909,273) Â $ Â (11,906,097) Down round deemed dividend Â Â Â - Â Â Â Â (11,653,986) Net Loss attributable to common shareholders Â Â Â (1,909,273) Â Â Â (23,560,083) Earnings Per Share (Basic and Diluted) Â Â Â (404.00) Â Â Â (6,640.00) Recently Issued Accounting PoliciesIn November 2023, the FASB issued ASU 2023-07, Segment Reporting: Improvement to Reportable Segment Disclosures ("ASU 2023-07"). ASU 2023-07 improves segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment, and contain other disclosure requirements. The amendments in ASU 2023-07 are effective for all public entities for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. Management is evaluating the impact of this ASU on the Company's financial statements. 8 Table of ContentsÂ In December 2023, the FASB issued ASU 2023-09, Income Taxes: Improvements to Income Tax Disclosures ("ASU 2023-09"). ASU 2023-09 improves income tax disclosures by requiring public entities annually to (1) disclose specific categories in the rate reconciliation and (2) provide additional information for reconciling items that meet a quantitative threshold. ASU 2023-09 is effective for public entities for annual periods beginning after December 15, 2024. Entities are permitted to early adopt the standard for annual financial statements that have not yet been issued or made available for issuance. Management is evaluating the impact of this ASU on the Company's financial statements. NOTE 4. LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN During the year ended December 31, 2023, the Company sold Series 1B preferred stock and completed a public offering to fund operations. Further discussion of these transactions can be found in Notes 13 and 14 in the Company's Annual Report on Form 10-K for the year ended December 31, 2023. The Company continues to enter into financing arrangements in 2024 to fund operations.The Company currently has limited production capabilities in its Thornton facility and continues to focus on restarting production at industrial scale while continuing its research and development activities to improve its PV products. The Company does not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until it has fully implemented this strategy. During the nine months ended September 30, 2024, the Company used $6,897,159 in cash for operations.Current committed product revenues are not anticipated to result in a positive cash flow position for the next twelve months and although the Company has, as of September 30, 2024, working capital of $1,362,847, Management does not believe cash liquidity is sufficient for the next twelve months and will require additional financing or committed purchase orders.The Company continues to look for ways to expand its production of PV films at industrial scale and to secure long-term contracts for the sale of such output. The Company also continues activities related to securing additional financing through strategic or financial investors, but there is no assurance the Company will be able to raise additional capital on acceptable terms or at all. If the Company's revenues do not increase rapidly, and/or additional financing is not obtained, the Company will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on the Company's future operations.As a result of the Companyâ€™s recurring losses from operations and the potential need for additional financing to fund its operating and capital requirements, there is uncertainty regarding the Companyâ€™s ability to maintain liquidity sufficient to operate its business effectively, which raises doubt as to the Companyâ€™s ability to continue as a going concern. Management cannot provide any assurances that the Company will be successful in accomplishing any of its plans. These unaudited condensed financial statements do not include any adjustments that might be necessary should the Company be unable to continue as a going concern. NOTE 5. RELATED PARTY TRANSACTIONSIn September 2021, the Company and TubeSolar AG ("TubeSolar"), a former significant stakeholder in the Company, entered into a Long-Term and Joint Development Agreement ("JDA") where the Company would provide PV foils for use in TubeSolar's solar modules for agricultural photovoltaic applications. The Company and TubeSolar also jointly established Ascent Solar Technologies Germany GmbH (â€œAscent Germanyâ€), in which TubeSolar holds of 30% of the entity. Ascent Germany was established to operate a PV manufacturing facility in Germany that will produce and deliver PV Foils exclusively to TubeSolar. There were no Company contributions to Ascent Germany during the nine months ended September 30, 2024 and 2023.In June, 2023, TubeSolar filed an application for insolvency proceedings with the insolvency court. Since then, there has been no activity under the JDA and minimal activity in Ascent Germany. Management continues to monitor this situation. NOTE 6. SWITZERLAND ASSETSOn April 17, 2023, the Company entered into an Asset Purchase Agreement (the â€œAsset Purchase Agreementâ€) with Flisom AG (â€œSellerâ€), pursuant to which, among other things, the Company purchased certain assets relating to thin-film photovoltaic manufacture and production from Seller (collectively, the â€œAssetsâ€). The purchase price paid by the Company was $4,083,926 9 Table of ContentsÂ (including $1,283,926 of transaction costs). The Company also entered into a sublease agreement allowing the Company to use the manufacturing facility where the Assets are located. During the year ended December 31, 2023, Management concluded that these assets were impaired and recognized an impairment loss of $3,283,715. The remaining carrying value of the Assets, as of December 31, 2023, was $786,000. On April 1, 2024, the Company entered into an agreement with the manufacturing facility landlord (â€œLandlordâ€) and sold all but one piece of equipment from the Assets to the Landlord for 1 CHF and forgiveness of $221,519 in payables and any potential future claims the manufacturing facility Landlord may have. The carrying value of the Assets sold was $746,000. At March 31, 2024, the Company designated the Assets as assets held for sale as all of the following criteria have been met: (i) a formal commitment to a plan to sell a property has been made and exercised; (ii) the property is available for sale in its present condition; (iii) actions required to complete the sale of the property have been initiated; (iv) sale of the property is probable and we expect the sale will occur within one year; and (v) the property is being actively marketed for sale at a price that is reasonable given its current market value. Assets held for sale were recorded in Property, Plant and Equipment, net in the unaudited condensed balance sheets. Upon designation as an asset held for sale, the Company recorded the carrying value of the property at the lower of its carrying value or its estimated fair value, less estimated costs to sell, and depreciation of the property ceases. As the estimated fair value of $221,519 and the price the Company sold the Assets for is less than their carrying value, the Company recorded an impairment loss of $524,481. Upon completion of the sale, on April 1, 2024, the Company wrote off the remaining carrying value of the Assets and the payables to the Landlord. In September, 2023, Flisom filed for bankruptcy in Switzerland. In February, 2024, the Swiss bankruptcy administrator closed the bankruptcy proceedings due to a lack of assets unless a creditor demands that the bankruptcy proceedings be carried out within the specified period and makes an advance to cover the costs. The deadline for creditors to make their demand has lapsed and the bankruptcy proceedings remained closed. As the bankruptcy proceedings are closed, the Company reversed the Swiss liabilities and recognized a gain on extinguishment of liabilities of $541,021 in Other income/(expense) on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024. NOTE 7. PROPERTY, PLANT AND EQUIPMENTThe following table summarizes property, plant and equipment as of September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â Â 2024 Â Â 2023 Â Furniture, fixtures, computer hardware and Â Â Â computer software Â $ 468,588 Â Â $ 468,588 Â Manufacturing machinery and equipment Â Â 19,122,828 Â Â Â 20,661,222 Â Leasehold improvements Â Â 15,994 Â Â Â 15,995 Â Manufacturing machinery and equipment, Â Â Â in progress Â Â 72,508 Â Â Â 32,087 Â Depreciable property, plant and equipment Â Â 19,679,918 Â Â Â 21,177,892 Â Less: Accumulated depreciation and amortization Â Â (19,429,536) Â Â (20,131,008) Net property, plant and equipment Â $ 250,382 Â Â $ 1,046,884 Â Â Depreciation expense for the three months ended September 30, 2024 and 2023 was $16,832 and $18,931, respectively. Depreciation expense for the nine months ended September 30, 2024 and 2023 was $50,923 and $59,570, respectively. Depreciation expense is recorded under â€œDepreciation and amortization expenseâ€ in the unaudited Condensed Statements of Operations. NOTE 8. OPERATING LEASEThe Companyâ€™s lease is primarily comprised of manufacturing and office space. This lease is classified and accounted for as an operating lease. The building lease term is for 88 months commencing on September 21, 2020 at a rent of $50,000 per month including taxes, insurance and common area maintenance until December 31, 2020. Beginning January 1, 2021, the rent 10 Table of ContentsÂ adjusted to $80,000 per month on a triple net basis and shall increase at an annual rate of 3% per annum until December 31, 2027. Effective September 1, 2023, the lease was amended to reduce the rentable square feet from approximately 100,000 to approximately 75,000 square feet and the rent and tenant share of expenses were decreased in proportion to the reduction in the rentable square feet. As of September 30, 2024 and December 31, 2023, assets and liabilities related to the Companyâ€™s leases were as follows:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â Â 2024 Â Â 2023 Â Operating lease right-of-use assets, net Â $ 2,007,001 Â Â $ 2,364,672 Â Current portion of operating lease liability Â Â 555,495 Â Â Â 491,440 Â Non-current portion of operating lease liability Â Â 1,615,945 Â Â Â 2,043,025 Â During the three months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $190,497 and $236,925, respectively. During the nine months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $571,492 and $770,836, respectively. Future maturities of the operating lease liability are as follows:Â Remainder of 2024 Â $ 192,283 Â 2025 Â Â 792,203 Â 2026 Â Â 815,969 Â 2027 Â Â 840,449 Â Total lease payments Â Â 2,640,904 Â Less amounts representing interest Â Â (469,464) Present value of lease liability Â $ 2,171,440 Â Â The remaining weighted average lease term and discount rate of the operating leases is 39 months and 7.0%, respectively. Â NOTE 9. INVENTORIESInventories, net of reserves, consisted of the following at September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â Â 2024 Â Â 2023 Â Raw materials Â $ 457,381 Â Â $ 445,721 Â Work in process Â Â 515 Â Â Â 1,775 Â Finished goods Â Â - Â Â Â - Â Total Â $ 457,896 Â Â $ 447,496 Â Â NOTE 10. BRIDGE LOANÂ Â PrincipalBalance1/1/2024 Â New loans Â Principal Payments Â PrincipalBalance9/30/2024 Â Discount Â Bridge Loan, net of discount Â Bridge Loans $ â€” Â $ 1,240,800 Â $ (904,803) $ 335,997 Â $ (20,253) $ 315,744 Â On February 27, 2024, the Company entered into a loan agreement ("Loan 1") with a lender ("Lender") for an aggregate principal amount of $375,000. The Company paid origination fees of $25,000 for net proceeds of $350,000. The discount is recorded as interest expense ratably over the term of the loan. Under Loan 1, the Company will make weekly payments of 11 Table of ContentsÂ $19,420 for 28 weeks for a total repayment of $543,750. The Company also had an early repayment option where the Company would repay an aggregate of $478,125 if repaid by April 15, 2024. On April 17, 2024, the Company entered into a new loan agreement ("Loan 2") with the Lender. Under Loan 2, the Company borrowed an aggregate principal amount of $685,000, incurred origination fees of $34,250, and repaid the outstanding balance of Loan 1 of $428,310 for net proceeds of $222,440. Under Loan 2, the Company will make weekly payments of $31,000 for 32 weeks for a total repayment of $993,250. This loan is secured by a lien on the Company's assets.As of September 30, 2024, principal and interest payable on Loan 2 was $248,953 and $3,451, respectively. The Company also recognized $139,233 and $499,272 in interest expense during the three and nine months ended September 30, 2024, respectively.On April 1 and 2, 2024, the Company closed two loan agreements with a second lender ("Lender 2") for an aggregate principal amount of $180,800. These loans have an original issuance discount of $20,800 for net proceeds of $160,000. The Company will repay a total of $202,496 under these loans. The loans mature on January 1, 2025 and are payable in monthly installments as defined in the loan agreements. Upon a default event, outstanding principal and interest payable is convertible into Company stock at a 25% discount; however, the conversion price cannot be below $25.At September 30, 2024, principal and interest payable on these loans was $87,044 and $0, respectively. The Company also recognized $16,334 and $34,297 in interest expense during the three and nine months ended September 30, 2024, respectively.The carrying amount of these bridge loans approximate fair value due to its short maturity and because the Company's current borrowing rate does not materially differ from market rates for similar bank borrowings and is considered to be Level 2 input on the fair

value hierarchy. Â NOTE 11. OTHER PAYABLEOn June 30, 2017, the Company entered into an agreement with a vendor (â€œVendorâ€) to convert the balance of their account into a note payable in the amount of $250,000. The note bears interest of 5% per annum and matured on February 28, 2018. On September 25, 2024, the Company entered into a Note Termination and Release Agreement with the Vendor where the Company agreed to a one-time payment of $175,000 in exchange for the termination of the note payable. Upon payment, the remaining note and interest payable were forgiven and the Company recognized a gain on extinguishment of liabilities of $165,548 in Other income/(expense), net on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024. NOTE 12. CONVERTIBLE NOTESThe following table provides a summary of the activity of the Company's secured, convertible, promissory notes:Â Â PrincipalBalance12/31/2023 Â Notes converted Â Notes paid Â Net PrincipalBalance9/30/2024 Â L1 Capital Global Opportunities Master Fund, Ltd $ 406,667 Â $ (400,000) $ (6,667) $ â€” Â During the nine months ended September 30, 2024, $400,000 of principal was converted for 6,184 shares of common stock. The note matured on June 19, 2024 and the Company paid the remaining principal and interest payable. During the nine months ended September 30, 2024 and 2023, the Company had interest expense of $463,397 and $2,070,669, respectively, of which, $19,260 and $1,773,633, respectively was due to accretion of discount on the note. During the three months ended September 30, 2023, the Company had interest expense of $271,162, of which, $231,536 was due to accretion of discount on the note. Conversions Payable represents the economic difference between the applicable conversion price of the notes payable and floor price of $65. This amount is payable either in shares valued as the VWAP on the conversion day or in cash. If the VWAP on the conversion day is less than the floor price, then the economic different between the conversion day VWAP and the floor price becomes payable in cash and is recorded as Cash payable on the unaudited Condensed Balance Sheet. During the nine months ended September 30, 2024, $1,279,782 of conversions payable was converted into 17,934 shares of common stock and 12 Table of ContentsÂ $199,997 of Cash payable. The Cash payable was paid in April 2024 with the close of the Company's public offering (see Note 15). NOTE 13. SERIES A PREFERRED STOCKAs of January 1, 2024, there were 48,100 shares of Series A Preferred Stock outstanding. Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8% per annum when and if declared by the Board of Directors at its sole discretion. The dividends may be paid in cash or in the form of common stock (valued at 10% below market price, but not to exceed the lowest closing price during the applicable measurement period), at the discretion of the Board of Directors. The dividend rate on the Series A Preferred Stock is indexed to the Company's stock price and subject to adjustment. The Series A Preferred Stock may be converted into shares of common stock at the option of the Company if the closing price of the common stock exceeds $23.2 billion, adjusted for reverse stock splits, for twenty consecutive trading days, or by the holder at any time. The Company has the right to redeem the Series A Preferred Stock at a price of $8.00 per share, plus any accrued and unpaid dividends, plus the make-whole amount (if applicable). At September 30, 2024, the preferred shares were not eligible for conversion to common shares at the option of the Company. The holder of the preferred shares may convert to common shares at any time. After making adjustment for the Companyâ€™s prior reverse stock splits, all 48,100 outstanding Series A preferred shares are convertible into less than one common share. Upon any conversion (whether at the option of the Company or the holder), the holder is entitled to receive any accrued but unpaid dividends.Except as otherwise required by law (or with respect to approval of certain actions), the Series A Preferred Stock shall have no voting rights. Upon any liquidation, dissolution or winding up of the Company, after payment or provision for payment of debts and other liabilities of the Company, the holders of Series A Preferred Stock shall be entitled to receive, pari passu with any distribution to the holders of common stock of the Company, an amount equal to $8.00 per share of Series A Preferred Stock plus any accrued and unpaid dividends.As of September 30, 2024, there were 48,100 shares of Series A Preferred Stock outstanding and accrued and unpaid dividends of $550,879. NOTE 14. SERIES Z PREFERRED STOCKOn June 20, 2024, the Company entered into a Securities Purchase Agreement (the â€œPurchase Agreementâ€) with Paul Warley, the Companyâ€™s Chief Executive Officer (the â€œPurchaserâ€) pursuant to which it issued and sold one (1) share (the â€œShareâ€) of the Companyâ€™s newly designated Series Z Preferred Stock, par value $0.0001 per share (the â€œSeries Z Preferred Stockâ€), to such Purchaser for an aggregate purchase price of $1,000. The Series Z Preferred Stock is recorded as Accrued Expenses in the unaudited Condensed Balance Sheets. The Share of Series Z Preferred Stock is not convertible into, or exchangeable for, shares of any other class or series of stock or other securities of the Company. The Share of Series Z Preferred Stock has no rights with respect to any distribution of assets of the Company, including upon a liquidation, bankruptcy, reorganization, merger, acquisition, sale, dissolution or winding up of the Company, whether voluntarily or involuntarily. The holder of the Share of Series Z Preferred Stock will not be entitled to receive dividends of any kind.The outstanding share of Series Z Preferred Stock shall be redeemed in whole, but not in part, at any time (i) if such redemption is ordered by the Board of Directors in its sole discretion or (ii) automatically upon the effectiveness of the amendment to the Certificate of Incorporation implementing a reverse stock split. Upon such redemption, the holder of the Series Z Preferred Stock will receive consideration of $1,000 in cash.The Share of Series Z Preferred Stock will have 180,000,000 votes and will vote together with the outstanding shares of the Companyâ€™s common stock as a single class exclusively with respect to any proposal to amend the Companyâ€™s Certificate of Incorporation to effect a reverse stock split of the Companyâ€™s common stock. The Share of Series Z Preferred Stock will be voted, without action by the holder, on any such reverse stock split proposal in the same proportion as shares of common stock are voted on such proposal (excluding any common shares that are not voted). The Series Z Preferred Stock otherwise has no voting rights, except as may otherwise be required by the General Corporation Law of the State of Delaware.On August 22, 2024, the Company redeemed the Series Z Preferred Stock and repaid the consideration received. 13 Table of ContentsÂ Â NOTE 15. STOCKHOLDERSâ€™ EQUITY (DEFICIT)Common StockAt September 30, 2024, the Company had 500 million shares of common stock, $0.0001 par value, authorized for issuance. Each share of common stock has the right to one vote. As of September 30, 2024, the Company had 1,275,429 shares of common stock outstanding. The Company has not declared or paid any dividends related to the common stock during the three or nine months ended September 30, 2024 and 2023.During the nine months ended September 30, 2024, $400,000 of convertible debt principal was converted into 6,184 shares of common stock and $1,279,782 of conversions payable was converted into 17,934 shares of common stock. 3,500 shares of common stock was also issued to settle liabilities.As part of the December 19, 2022 Securities Purchase Contract (the â€œPurchase Contractâ€) with two institutional investors (the â€œInvestorsâ€), the Company issued to the Investors certain common stock warrants (the â€œWarrantsâ€). The Warrants have certain â€œfull ratchetâ€ anti-dilution adjustments that are triggered when the Company issues securities with a purchase or conversion, exercise or exchange price that is less than the exercise price of the Warrants then in effect at any time. Under the full ratchet anti-dilution adjustments, if the Company issues new securities at a price lower than the then applicable exercise price, (i) the exercise price is reduced to the lower new issue price and (ii) the number of warrant shares is proportionately increased. The Warrants have been previously adjusted following past issuances of Company securities. As of April 18, 2024, there were approximately 67 thousand Warrants exercisable at an exercise price of $147.27, that were repurchased and cancelled. See below for additional information.On March 6, 2024 and March 7, 2024, the Company entered into Warrant Repurchase Agreements (the â€œRepurchase Agreementsâ€), with each of the Investors. Pursuant to the Repurchase Agreements, if the Company closes a new capital raising transaction with gross proceeds in excess of $5 million (â€œQualified Financingâ€), the Company will repurchase the Warrants from the Investors for an aggregate purchase price of $3.6 million. Following the delivery of the purchase price to the Investors, the Investors will relinquish all rights, title and interest in the Warrants and assign the same to the Company, and the Warrants will be cancelled. On April 12, 2024, the Company entered into Amended and Restated Warrant Repurchase Agreements (the â€œAmendmentsâ€) with each of the Investors. Pursuant to the Amendments, on April 12, 2024, the Company and the Investors agreed to the following:â€¢ First Repurchase. On April 12, 2024, the Investors agree to convey, assign and transfer 50% of the Warrants to the Company in exchange for the payment by the Company for an aggregate purchase price of $1.8 million.â€¢Second Repurchase. On or before April 18, 2024, the Investors agree to convey, assign and transfer all remaining Warrants to the Company for an aggregate purchase price of $1.8 million. To extend the repurchase deadline, on April 12, 2024 the Company agreed to issue the Investors approximately 85,500 warrants in aggregate at an exercise price of $11.68 per warrant. These warrants will be exercisable at any time, and from time to time, in whole or in part, commencing six months from the closing of the offering and expiring five and a half (5.5) years from the date of issue, and will be exercisable for cash only unless an effective registration statement is not available at the time of exercise, in which case the warrants could be exercised on a cashless basis. The Company recorded an expense of $743,462 as Warrant settlement expense on the unaudited Condensed Statement of Operations. The expense represents the estimated fair value of the warrants at the issuance date and was determined using the Black Scholes model using the following inputs:Â Â Inputs Expected stock price volatility 154.5 % Dividend yield 0 % Risk-free interest rate 4.75 % Expected life of the warrants (in years) 2.75 Â On April 9, 2024 the Company entered into a placement agency agreement (the â€œPlacement Agent Agreementâ€) with Dawson James Securities Inc. (â€œDawson Jamesâ€) pursuant to which the Company engaged Dawson James as the placement 14 Table of ContentsÂ agent for a registered public offering by the Company (the â€œOfferingâ€), of up to $6 million of shares of common stock or, in lieu of common stock, one prefunded warrant to purchase a share of common stock on a best efforts basis. The Company agreed to pay Dawson James a placement agent fee in cash equal to 8.00% of the gross proceeds from the sale of the shares of common stock; provided, however, that the placement agent fee shall equal 4% for investors that the Company directs to the Offering. The Company also agreed to reimburse Dawson James for all reasonable travel and other out-of-pocket expenses, including the reasonable fees of legal counsel, not to exceed $155,000. On April 18, 2024, the Company, completed closings under the Offering of common stock. Aggregate gross proceeds from all closings under the offering total $5.09 million before deducting offering expenses. In the completed closings, the Company issued an aggregate of (i) 151,795 common shares and (ii) 211,623 Pre-Funded Warrants. The Pre-Funded Warrants are immediately exercisable at a price of $0.0001 per share of common stock and only expire when such Pre-Funded warrants are fully exercised.As of September 30, 2024, all 211,623 of the Pre-Funded Warrants were exercised into common stock.The net proceeds from the closings of the Offering were utilized to retire approximately $200,000 of cash payable and $3.6 million to repurchase and cancel the Warrants that were both issued with our secured notes issued in December 2022. The repurchase of these warrants eliminated a substantial potential future issuance of common stock at a substantially reduced price. These warrants would have been adjusted in accordance with their terms to provide for the purchase of approximately 850 thousand shares of the Companyâ€™s common stock at an exercise price of $11.68 if they had not been repurchased by the Company. On May 16, 2024, the Company entered into an At The Market Offering Agreement (the â€œATM Agreementâ€) with H.C. Wainwright & Co., LLC, as sales agent (â€œWainwrightâ€), to sell shares of its common stock, par value $0.0001 per share (the â€œSharesâ€), having an aggregate sales price of up to $4,219,000, from time to time, through an â€œat the market offeringâ€ program under which Wainwright will act as sales agent. The sales, if any, of the Shares made under the ATM Agreement will be made by any method permitted by law deemed to be an â€œat the market offeringâ€ as defined in Rule 415 promulgated under the Securities Act of 1933, as amended (the â€œSecurities Actâ€), including sales made directly on or through the Nasdaq Capital Market or on any other existing trading market for the Companyâ€™s common stock. The Company will pay Wainwright a commission rate equal to 3.0% of the aggregate gross proceeds from each sale of Common Stock and will also reimburse Wainwright for certain specified expenses in connection with entering into the ATM Agreement, including certain fees and out-of-pocket expenses of its legal counsel. On May 23, 2024, the Company increased the amount available for sale under the ATM Agreement, up to an additional aggregate offering price of $4,344,000 and on May 30, 2024, the Company again increased the amount available for sale under the ATM Agreement by an additional aggregate offering price of $3,981,000.As of September 30, 2024, the Company sold 637,429 shares of common stock at an average price of $14.90 per share, resulting in aggregate gross proceeds of approximately $9.5 million. The Company anticipates that the at-the-market offering will continue throughout the next reporting period. Preferred StockAt September 30, 2024, the Company had 25 million shares of preferred stock, $0.0001 par value, authorized for issuance. Preferred stock may be issued in classes or series. Designations, powers, preferences, rights, qualifications, limitations and restrictions are determined by the Companyâ€™s Board of Directors. 15 Table of ContentsÂ The following table summarizes the designations, shares authorized, and shares outstanding for the Companyâ€™s Preferred Stock as of September 30, 2024:Â Preferred Stock Series Designation Â SharesAuthorized Â Â SharesOutstanding Â Series A Â Â 750,000 Â Â Â 48,100 Â Series 1A Â Â 5,000 Â Â Â â€” Â Series B-1 Â Â 2,000 Â Â Â â€” Â Series B-2 Â Â 1,000 Â Â Â â€” Â Series 1B Â Â 900 Â Â Â â€” Â Series C Â Â 1,000 Â Â Â â€” Â Series D Â Â 3,000 Â Â Â â€” Â Series D-1 Â Â 2,500 Â Â Â â€” Â Series E Â Â 2,800 Â Â Â â€” Â Series F Â Â 7,000 Â Â Â â€” Â Series G Â Â 2,000 Â Â Â â€” Â Series H Â Â 2,500 Â Â Â â€” Â Series I Â Â 1,000 Â Â Â â€” Â Series J Â Â 1,350 Â Â Â â€” Â Series J-1 Â Â 1,000 Â Â Â â€” Â Series K Â Â 20,000 Â Â Â â€” Â Series Z Â Â 1 Â Â Â â€” Â WarrantsAs of September 30, 2024, there are approximately 143,000 outstanding warrants with exercise prices between $11.68 and $74,086 per share.Â Series A Preferred StockRefer to Note 13 for information on Series A Preferred Stock.Â Series Z Preferred StockRefer to Note 14 for information on Series Z Preferred Stock.Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, and K Preferred StockThere were no transactions involving the Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, or K during the three and nine months ended September 30, 2024. NOTE 16. SHARE-BASED COMPENSATIONIn January 2024, the Company granted 4,590 shares of restricted stock units to employees and directors. One third of these shares vested on March 31, 2024. The remaining unvested shares will vest pro rata on January 1, 2025 and January 1, 2026. The Company also granted members of our advisory board an aggregate of 200 shares of restricted stock units. The advisory shares originally vested pro rata on January 1, 2025 and January 1, 2026; however, were amended to vest pro rata on June 30, 2024 and January 1, 2025.The Company had a total of 3,191 unvested units as of September 30, 2024 that are expected to vest in the future. Total unrecognized share-based compensation expense from the remaining unvested restricted stock as of September 30, 2024 was approximately $855,000 and is expected to be recognized over 1.25 years. The following table summarizes non-vested restricted stock and the related activity as of September 30, 2024:Â 16 Table of ContentsÂ Â Â Shares Â Â Weighted Average Grant Date Fair Value Â Non-vested at January 1, 2024 Â Â 19 Â Â $ 59,600 Â Granted Â Â 4,850 Â Â Â 75.87 Â Vested Â Â (1,658) Â Â 327.03 Â Forfeited Â Â (20) Â Â 77.00 Â Non-vested at September 30, 2024 Â Â 3,191 Â Â $ 502.35 Â The fair values of the respective vesting dates of RSUs were approximately $7,143 and $269,860 for the nine months ended September 30, 2024 and 2023, respectively. In August 2024, the Company granted 124,850 stock options terminating 10 years from the date of grant to employees, directors, and advisory board members. One third of these options vested on September 15, 2024. The remaining unvested options will vest pro rata on January 1, 2025 and January 1, 2026. The Company had a total of 83,220 unvested options as of September 30, 2024 that are expected to vest in the future. Total unrecognized share based compensation expense from the remaining unvested options as of September 30, 2024 was approximately $345,000 and is expected to be recognized over 2 years. The Company had approximately 41,630 exercisable options as of September 30, 2024. The following table summarizes options activity as of September 30, 2024:Â Â Â Shares Â Â Weighted Average Exercise Price Â Stock Options Outstanding at January 1, 2024 Â Â - Â Â $ - Â Granted Â Â 124,850 Â Â Â 4.15 Â Exercised Â Â - Â Â Â - Â Forfeited / Expired Â Â - Â Â Â - Â Stock Options Outstanding at September 30, 2024 Â Â 124,850 Â Â $ 4.15 Â The weighted average remaining contractual term for these options at September 30, 2024, was approximately 9.9 years. Based on the Black-Scholes option pricing model, the options estimated weighted average fair values at the date of grant of $4.15 per share. The fair values were estimated using the following weighted average assumptions: Â Inputs Â Expected stock price volatility Â 188.87 % Dividend yield Â 0 % Risk-free interest rate Â 3.64 % Expected life of the options (in years) Â 5.5 Â The Company utilized the simplified method for estimating the stock options granted as the Company has experienced significant changes in its business and the historical data may not provide a reasonable basis upon which to estimate expected term. NOTE 17. COMMITMENTS AND CONTINGENCIESOn August 15, 2023, Wainwright filed an action against the Company in the New York State Supreme Court in New York County. The complaint alleges a breach by the Company of an investment banking engagement letter entered into in October 2021. The Wainwright engagement letter expired in April 2022 without any financing transaction having been completed. The complaint claims that Wainright is entitled, under a â€œtail provisionâ€, to an 8% fee and 7% warrant coverage on the Companyâ€™s $15 million secured convertible note financing. The complaint seeks damages of $1.2 million, 22 common stock warrants with a per share exercise price of $60,500, and attorney fees. On May 15, 2024, the Company and Wainwright reached a settlement agreement. The settlement did not have a material impact on our financial statements. 17 Table of ContentsÂ The Company is subject to various legal proceedings, both asserted and unasserted, that arise in the ordinary course of business. The Company cannot predict the ultimate outcome of such legal proceedings or in certain instances provide reasonable ranges of potential losses. However, as of the date of this report, the Company believes that none of these claims will have a material adverse effect on its financial position or results of operations. In the event of unexpected subsequent developments and given the inherent unpredictability of these legal proceedings, there can be no assurance that the Companyâ€™s assessment of any claim will reflect the ultimate outcome, and an adverse outcome in certain matters could, from time to time, have a material adverse effect on the Companyâ€™s financial position or results of operations in particular quarterly or annual periods. NOTE 18. SUBSEQUENT EVENTS Subsequent to September 30, 2024, the Company sold 49,325 shares of common stock under the ATM Agreement at an average price of $2.87 per share, resulting in aggregate gross proceeds of approximately $141,400.On October 17, 2024, the Company entered into a securities purchase agreement with accredited investors for a convertible

preferred stock financing for approximately $1.9 million of gross proceeds and will issue approximately 1,900 shares of Series 1C convertible preferred stock (â€œSeries 1C Preferred Stockâ€) at a purchase price of $1,000 per share. Through November 14, 2024, the Company received approximately $665,000 of gross proceeds and will receive the remaining balance during the fourth quarter. The Series 1C Preferred Stock is convertible into common stock at any time after April 17, 2025 at the option of the holder at an initial fixed conversion price of $2.50 per share of common stock; however, the holder may not convert any portion to the extent that the holder would beneficially own more than 4.99% of the Company's outstanding shares of Common Stock outstanding immediately after giving effect to the conversion.Holders of the Series 1C Preferred Stock will be entitled to dividends on the per share stated value of $1,000 in the amount of 10% per annum, payable quarterly. The dividend rate will increase to 15% if any of the Series 1C Preferred Stock remains outstanding on or after October 17, 2027. Unless the Company elects to pay dividends on the Series 1C Preferred Stock in cash, the Company will cumulate the dividends, in which case the accrued dividend amount shall be added to the stated value of each share of Series 1C Preferred Stock.If at any time the closing sale price of the Companyâ€™s common stock equals at least 300% of the conversion price for the most recent 20 consecutive trading days, the Company shall have the right to redeem all, but not less than all, of the Series 1C Preferred Stock then outstanding in cash at a price equal to 110% of the stated value of the shares being redeemed.Upon our liquidation, dissolution or winding up, holders of Series 1C Preferred Stock shall be entitled to receive in cash out of the assets of the Company, before any amount shall be paid to the holders of any of shares of common stock, an amount per share of Series 1C Preferred Stock equal to the greater of (A) 110% of the stated value of such preferred share and (B) the amount per share such holder would receive if such holder converted such preferred share into common stock immediately prior to the date of such payment.On any matter presented to the stockholders of the Company for their action or consideration at any meeting of stockholders of the Company (or by written consent of stockholders in lieu of meeting), each holder of outstanding shares of Series 1C Preferred Stock shall be entitled to cast the number of votes equal to the number of whole shares of common stock into which the outstanding shares of Series 1C Preferred Stock held by such holder are convertible as of the record date (but only after giving effect to the maximum percentage conversion limitations referred to above). Except as provided by law or by the other provisions of the Series 1C Preferred Stock, holders of Series 1C Preferred Stock shall vote together with the holders of common stock as a single class and on an as-converted to common stock basis. 18 Table of ContentsÂ Item 2. Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations The following discussion of our financial condition and results of operations should be read in conjunction with our unaudited financial statements and the notes to those financial statements appearing elsewhere in this Form 10-Q and our audited financial statements and related notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2023 which was filed with the SEC on February 21, 2024. This discussion and analysis contains statements of a forward-looking nature relating to future events or our future financial performance. As a result of many factors, our actual results may differ materially from those anticipated in these forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. You should carefully read the â€œRisk Factorsâ€ section of this Quarterly Report and of our Annual Report on Form 10-K for the year ended December 31, 2023 to gain an understanding of the important factors that could cause actual results to differ materially from our forward-looking statements. Please also see the section entitled â€œForward-Looking Statements.â€ Overview We target high-volume production and high-value specialty solar markets. These include terrestrial and space power beaming, space, aerospace, agrivoltaics, and high-value niche manufacturing/construction sectors. This strategy enables us to fully leverage what we believe are the unique advantages of our technology, including flexibility, durability and attractive power to weight and power to area performance. It further enables us to offer unique, differentiated solutions in large markets with less competition, and more attractive pricing. Specifically, we focus on commercializing our proprietary solar technology in two high-value PV verticals: I. Aerospace: Space, Near-space and Fixed Wing UAV II. Agrivoltaics We believe the value proposition of Ascentâ€™s proprietary solar technology not only aligns with the needs of customers in these verticals, but also overcomes many of the obstacles other solar technologies face in these unique markets. Ascent has the capability to design and develop finished products for end users in these areas as well as collaborate with strategic partners to design and develop custom integrated solutions for products like airships and fixed-wing UAVs. Ascent sees significant overlap in the needs of end users across some of these verticals and believes it can achieve economies of scale in sourcing, development, and production in commercializing products for these customers. The integration of Ascent's solar modules into space, near space, and aeronautic vehicles with ultra-lightweight and flexible solar modules is an important market opportunity for the Company. Customers in this market have historically required a high level of durability, high voltage and conversion efficiency from solar module suppliers, and we believe our products are well suited to compete in this premium market. For the nine months ended September 30, 2024, we generated $41,893 of total revenue. As of September 30, 2024, we had an accumulated deficit of $490,152,872. Due to the high durability enabled by the monolithic integration employed by our technology, the capability to customize modules into different form factors and what we believe is the industry leading light weight and flexibility provided by our modules, we believe that the potential applications for our products are extensive, including integrated solutions anywhere that may need power generation such as vehicles in space or in flight, or dual-use installations on agricultural land. 19 Table of ContentsÂ Commercialization and Manufacturing Strategy We manufacture our products by affixing a thin Copper-Indium-Gallium-diSelenide ("CIGS") layer to a flexible, plastic substrate using a large format, roll-to-roll process that permits us to fabricate our flexible PV modules in an integrated sequential operation. We use proprietary monolithic integration techniques which enable us to form complete PV modules with little to no back-end assembly cost of inter- cell connections. Traditional PV manufacturers assemble PV modules by bonding or soldering discrete PV cells together. This manufacturing step typically increases manufacturing costs and at times proves detrimental to the overall yield and reliability of the finished product. By reducing or eliminating this added step using our proprietary monolithic integration techniques, we believe we can achieve cost savings in, and increase the reliability of, our PV modules. We plan to continue the development of our current PV technology to increase module efficiency, improve our manufacturing tooling and process capabilities and reduce manufacturing costs. We also plan to continue to take advantage of research and development contracts to fund a portion of this development. Significant Trends, Uncertainties and Challenges We believe the significant trends, uncertainties and challenges that directly or indirectly affect our financial performance and results of operations include: â€¢Our operating history and lack of profitability; â€¢Our ability to develop demand for, and sales of, our products; â€¢Our ability to attract and retain qualified personnel to implement our business plan and corporate growth strategies; â€¢Our ability to develop sales, marketing and distribution capabilities; â€¢Our ability to successfully develop and maintain strategic relationships with key partners; â€¢The accuracy of our estimates and projections; â€¢Our ability to secure additional financing to fund our short-term and long-term financial needs; â€¢Our ability to maintain the listing of our common stock on the Nasdaq Capital Market; â€¢The commencement, or outcome, of legal proceedings against us, or by us, including ongoing litigation proceedings; â€¢Changes in our business plan or corporate strategies; â€¢The extent to which we are able to manage the growth of our operations effectively, both domestically and abroad, whether directly owned or indirectly through licenses; â€¢The supply, availability and price of equipment, components and raw materials, including the elements needed to produce our photovoltaic modules; â€¢Our ability to expand and protect the intellectual property portfolio that relates to our photovoltaic modules and processes; â€¢Our ability to maintain effective internal controls over financial reporting; â€¢Our ability to achieve projected operational performance and cost metrics; and â€¢General economic and business conditions, and in particular, conditions specific to the solar power industry. Basis of Presentation: The accompanying unaudited condensed financial statements have been derived from the accounting records of Ascent Solar Technologies, Inc. as of September 30, 2024 and December 31, 2023, and the results of operations for the three and nine months ended September 30, 2024 and 2023. 20 Table of ContentsÂ Critical Accounting Policies and Estimates Critical accounting policies used in reporting our financial results are reviewed by management on a regular basis. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and related disclosure of contingent assets and liabilities. Processes used to develop these estimates are evaluated on an ongoing basis. Estimates are based on historical experience and various other assumptions that are believed to be reasonable for making judgments about the carrying value of assets and liabilities. Actual results may differ as outcomes from assumptions may change. The Companyâ€™s significant accounting policies were described in Note 3 to the audited financial statements included in the Companyâ€™s Annual Report on Form 10-K for the year ended December 31, 2023. There have been no significant changes to our accounting policies as of September 30, 2024. Results of Operations Â Comparison of the Three Months Ended September 30, 2024 and 2023 Â Â Â Three Months Ended September 30, Â Â Â Â Â Â 2024 Â Â 2023 Â Â $ Change Â Revenues Â Â Â Â Â Â Â Â Â Products Â $ 8,550 Â Â $ 209,496 Â Â $ (200,946) Milestone and engineering Â Â - Â Â Â 20,458 Â Â Â (20,458) Total Revenues Â Â 8,550 Â Â Â 229,954 Â Â Â (221,404) Â Â Â Â Â Â Â Â Â Costs and Expenses Â Â Â Â Â Â Â Â Â Cost of Revenue Â Â 76,796 Â Â Â 692,752 Â Â Â (615,956) Research, development and Â Â Â manufacturing operations Â Â 603,534 Â Â Â 344,942 Â Â Â 258,592 Â Selling, general and administrative Â Â 1,216,976 Â Â Â 1,407,493 Â Â Â (190,517) Share-based compensation Â Â 354,410 Â Â Â 139,067 Â Â Â 215,343 Â Depreciation and amortization Â Â 17,730 Â Â Â 23,723 Â Â Â (5,993) Impairment loss Â Â - Â Â Â - Â Â Â - Â Total Costs and Expenses Â Â 2,269,446 Â Â Â 2,607,977 Â Â Â (338,531) Loss From Operations Â Â (2,260,896) Â Â (2,378,023) Â Â 117,127 Â Â Â Â Â Â Â Â Â Other Income/(Expense) Â Â Â Â Â Â Â Â Â Other income/(expense), net Â Â 742,162 Â Â Â 756,859 Â Â Â (14,697) Warrant settlement (Note 15) Â Â - Â Â Â - Â Â Â - Â Interest Expense Â Â (170,838) Â Â (288,109) Â Â 117,271 Â Total Other Income/(Expense) Â Â 571,324 Â Â Â 468,750 Â Â Â 102,574 Â Income/(Loss) on Equity Method Investments Â Â (1,295) Â Â - Â Â Â (1,295) Net (Loss)/Income Â $ (1,690,867) Â $ (1,909,273) Â $ 218,406 Â Total Revenues. Our total revenues decreased by $221,404, or 96%, for the three months ended September 30, 2024 when compared to the same period in 2023. This is primarily due to a large customer order and engineering revenue in the prior period that was not repeated in the current period. Cost of revenue. Cost of revenues is primarily comprised of repair and maintenance, material costs, and direct labor and overhead expenses. Our Cost of revenues decreased by $615,956, or 89%, for the three months ended September 30, 2024 when compared to the same period in 2023. This decrease is primarily due to a decrease in manufacturing activities and sales as the Company continued to focus on product and technology improvements in the current period. Research, development and manufacturing operations. Research, development and manufacturing operations costs include costs incurred for product development, pre-production and production activities in our manufacturing facility. It also includes costs related to technology development. Research, development and manufacturing operations costs increased by $258,592, 21 Table of ContentsÂ or 75%, for the three months ended September 30, 2024 when compared to the same period in 2023. This is primarily due to the Company continued to focused on product and technology improvements in the current period. Selling, general and administrative. Selling, general and administrative expenses decreased by $190,517, or 14%, for the three months ended September 30, 2024 when compared to the same period in 2023. The decrease in costs is due primarily to decreased professional services and other administrative expenses incurred during the current period. Share-based compensation. Share-based compensation expense increased by $215,343 or 155% for the three months ended September 30, 2024 when compared to the same period in 2023. The increase is due to the Company's RSU and option grant to employees, directors, and advisory board in 2024. Other Income/Expense. Other income was $571,324 for the three months ended September 30, 2024. This includes a gain on settlement of liabilities, interest income, and the reversal of a Swiss liability which were partially offset by interest expense. In comparison, other income for the same period in 2023 was $468,750, primarily due to a one-time employee retention credit, partially offset by interest expense, resulting in an increase of $102,574 between the two periods. Net Loss. Our Net Loss decreased by $218,406, or 11%, for the three months ended September 30, 2024 compared to the same period in 2023 due primarily to the items mentioned above. Â Comparison of the Nine Months Ended September 30, 2024 and 2023 Â Â Â Nine Months Ended September 30, Â Â Â Â Â Â 2024 Â Â 2023 Â Â $ Change Â Revenues Â Â Â Â Â Â Â Â Â Product Revenue Â $ 41,893 Â Â $ 395,106 Â Â $ (353,213) Milestone and engineering Â Â - Â Â Â 60,374 Â Â Â (60,374) Total Revenues Â Â 41,893 Â Â Â 455,480 Â Â Â (413,587) Â Â Â Â Â Â Â Â Â Costs and Expenses Â Â Â Â Â Â Â Â Â Cost of Revenue Â Â 147,708 Â Â Â 1,820,816 Â Â Â (1,673,108) Research, development and Â Â Â manufacturing operations Â Â 1,716,766 Â Â Â 2,832,956 Â Â Â (1,116,190) Selling, general and administrative Â Â 3,888,455 Â Â Â 4,178,146 Â Â Â (289,691) Share-based compensation Â Â 799,345 Â Â Â 2,104,378 Â Â Â (1,305,033) Depreciation and amortization Â Â 57,139 Â Â Â 73,947 Â Â Â (16,808) Impairment loss Â Â 524,481 Â Â Â - Â Â Â 524,481 Â Total Costs and Expenses Â Â 7,133,894 Â Â Â 11,010,243 Â Â Â (3,876,349) Loss From Operations Â Â (7,092,001) Â Â (10,554,763) Â Â 3,462,762 Â Â Â Â Â Â Â Â Â Other Income/(Expense) Â Â Â Â Â Â Â Â Â Other Income/(Expense), net Â Â 768,496 Â Â Â 766,859 Â Â Â 1,637 Â Warrant settlement Â Â (743,462) Â Â - Â Â Â (743,462) Interest Expense Â Â (604,473) Â Â (2,118,023) Â Â 1,513,550 Â Total Other Income/(Expense) Â Â (579,439) Â Â (1,351,164) Â Â 771,725 Â Income/(Loss) on Equity Method Investments Â Â (2,996) Â Â (170) Â Â (2,826) Net (Loss)/Income Â $ (7,674,436) Â $ (11,906,097) Â $ 4,231,661 Â Total Revenues. Our total revenues decreased by $413,587, or 91%, for the nine months ended September 30, 2024 when compared to the same period in 2023. This is primarily due to a large customer order and engineering revenue in the prior period that was not repeated in the current period. Cost of revenue. Cost of revenues is primarily comprised of repair and maintenance, material costs, and direct labor and overhead expenses. Our Cost of revenues decreased by $1,673,108, or 92%, for the nine months ended September 30, 2024 when compared to the same period in 2023. This decrease is primarily due to a decrease in manufacturing activities and sales as the Company continued to focused on product and technology improvements in the current period. 22 Table of ContentsÂ Research, development and manufacturing operations. Research, development and manufacturing operations costs include costs incurred for product development, pre-production and production activities in our manufacturing facility. Research, development and manufacturing operations costs also include costs related to technology development. Research, development and manufacturing operations costs decreased by $1,116,190, or 39%, for the nine months ended September 30, 2024 when compared to the same period in 2023. This is primarily due to a decrease in preproduction and manufacturing operations cost as the Company continued to focused on product and technology improvements in the current period. Selling, general and administrative. Selling, general and administrative expenses decreased by $289,691, or 7% for the nine months ended September 30, 2024 compared to the same period in 2023. This decrease is primarily due to lower personnel and administrative costs incurred during the first quarter of the current year compared to the prior period. This decrease is partially offset by higher personnel, professional services and other administrative costs incurred during the second and third quarter of the current year. Share-based compensation. Share-based compensation expense decreased by $1,305,033 or 62% for the nine months ended September 30, 2024 when compared to the same period in 2023. The decrease is due to the termination of our former CEO in April 2023. This is partially offset with the Company's RSU and options granted to employees, directors, and advisory board in 2024. Other Income/Expense. Other expense was $579,439 for the nine months ended September 30, 2024, compared to other expense of $1,351,164 for the same period in 2023, a decrease of $771,725. The decrease is due primarily to a decrease in interest expense resulting from the conversions and payoff of the December 2022 convertible debt and other income recognized, partially offset by the warrant settlement expense incurred in 2024. Other income in 2024 included a gain on settlement of liabilities, interest income, and the reversal of a Swiss liability. Other income in 2023 included a one-time employee retention credit. Net Loss. Our Net Loss decreased by $4,231,661, or 36%, for the nine months ended September 30, 2024 compared to the same period in 2023 due primarily to the items mentioned above. Â Liquidity and Capital Resources The Company currently has limited PV production at its manufacturing facility. The Company does not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until it has fully restarted its production at industrial scale and achieved desired improvements to its PV products. During the nine months ended September 30, 2024 the Company used $6,897,159 in cash for operations. Additionally, projected total revenues are not anticipated to result in a positive cash flow position for the year overall and, as of September 30, 2024, while the Company has working capital of $1,362,847, Management does not believe cash liquidity is sufficient for the next twelve months and will require additional financing. The Company continues activities related to securing additional financing through strategic or financial investors, but there is no assurance the Company will be able to raise additional capital on acceptable terms or at all. If the Companyâ€™s revenues do not increase rapidly, and/or additional financing is not obtained, the Company will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on the Company's future operations. As a result of the Companyâ€™s recurring losses from operations, and the need for additional financing to fund its operating and capital requirements, there is uncertainty regarding the Companyâ€™s ability to maintain liquidity sufficient to operate its business effectively, which raises doubt as to the Companyâ€™s ability to continue as a going concern. Management cannot provide any assurances that the Company will be successful in accomplishing any of its plans. These condensed financial statements do not include any adjustments that might be necessary should the Company be unable to continue as a going concern. Statements of Cash Flows Comparison of the Nine Months Ended September 30, 2024 and 2023 For the nine months ended September 30, 2024, our cash used in operations was $6,897,159 compared to $7,329,398 for the nine months ended

September 30, 2023, a decrease of $432,239. This decrease is due primarily to decreases in 23 Table of ContentsÂ manufacturing activities as the Company continues to focus on product and technology improvements. For the nine months ended September 30, 2024, cash used in investing activities was $421 compared to $3,863,963 used in investing activities for the nine months ended September 30, 2023. This change was primarily the result of the asset acquisition in Zurich, Switzerland in the prior period. During the nine months ended September 30, 2024, net cash used in operations of $6,897,159 were primarily funded from 2023 and 2024 financing agreements. Off Balance Sheet Transactions As of September 30, 2024, we did not have any off-balance sheet arrangements as defined in Item 303(a)(4)(ii) of Regulation S-K. Smaller Reporting Company Status We are a â€œsmaller reporting companyâ€ meaning that the market value of our stock held by non-affiliates is less than $700 million and our annual revenue was less than $100 million during the most recently completed fiscal year. We may continue to be a smaller reporting company if either (i) the market value of our stock held by non-affiliates is less than $250 million or (ii) our annual revenue was less than $100 million during the most recently completed fiscal year and the market value of our stock held by non-affiliates is less than $700 million. As a smaller reporting company, we may rely on exemptions from certain disclosure requirements that are available to smaller reporting companies. Specifically, as a smaller reporting company we may choose to present only the two most recent fiscal years of audited financial statements in our Annual Report on Form 10-K and smaller reporting companies have reduced disclosure obligations regarding executive compensation. Item 3. Quantitative and Qualitative Disclosures About Market Risk Foreign Currency Exchange Risk We hold no significant funds and have no significant future obligations denominated in foreign currencies as of September 30, 2024. Although our reporting currency is the U.S. Dollar, we may conduct business and incur costs in the local currencies of other countries in which we may operate, make sales and buy materials. As a result, we are subject to currency translation risk. Further, changes in exchange rates between foreign currencies and the U.S. Dollar could affect our future net sales and cost of sales and could result in exchange losses. Interest Rate Risk Our exposure to market risks for changes in interest rates relates primarily to our cash equivalents and investment portfolio. As of September 30, 2024, our cash equivalents consisted operating accounts held with financial institutions and money market fund investments. From time to time, we may hold restricted funds, investments in U.S. government securities and high-quality corporate securities. The primary objective of our investment activities is to preserve principal and provide liquidity on demand, while at the same time maximizing the income we receive from our investments without significantly increasing risk. The direct risk to us associated with fluctuating interest rates is limited to our investment portfolio, and we do not believe a change in interest rates will have a significant impact on our financial position, results of operations, or cash flows. Item 4. Controls and Procedures Evaluation of Disclosure Controls and Procedures We maintain disclosure controls and procedures designed to ensure that information required to be disclosed in our reports filed or submitted under the Securities Exchange Act of 1934, as amended (the â€œExchange Actâ€) is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms. Our disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in our reports filed under the Exchange Act is accumulated and communicated to management as appropriate to allow timely decisions regarding required disclosures. Our management conducted an evaluation required by Rules 13a-15 and 15d-15 under the Exchange Act of the effectiveness of our disclosure controls and procedures as defined in Rules 13a-15 and 15d-15 under the Exchange Act as of September 30, 2024. Based on this evaluation, our management concluded the design and operation of our disclosure controls and procedures were effective as of September 30, 2024. 24 Table of ContentsÂ Changes in Internal Control Over Financial Reporting There were no changes in internal control over financial reporting during the nine months ended September 30, 2024 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. 25 Table of ContentsÂ PART II. OTHER INFORMATION Item 1. Legal Proceedings From time to time, we may become involved in legal proceedings arising in the ordinary course of our business. Except as discussed in Note 17 to the financial statements, there were no events required to be reported under Item 1 for the nine months ended September 30, 2024, within Part II, Item 1 of this report. Item 1A. Risk Factors In addition to the information set forth in this Form 10-Q, you should carefully consider the risk factors disclosed under the heading â€œRisk Factorsâ€ in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2023. Except as set forth below, there have been no material changes to our risk factors from those included in our Annual Report on Form 10-K for the year ended December 31, 2023. As long as our executive officers, board members and advisory board members, in the aggregate, maintain their current holdings of our equity securities, they will be able to significantly influence all matters requiring stockholder approval. Upon completion of the Series 1C Preferred Stock funding, executive officers, directors, and advisory board members hold an aggregate of approximately 1,900 shares of Series 1C Preferred Stock. The Series 1C Preferred Stock is entitled to vote along with our common stock on an as-converted to common basis. The shares of Series 1C Preferred Stock owned by such executive officers, directors and advisors (after giving effect to the 4.99% maximum percentage conversion limitations described above) would be entitled to cast, in the aggregate, approximately 15% votes on any matter to be considered by stockholders for approval at any meeting of stockholders of the Company (or by written consent of stockholders in lieu of meeting), based upon approximately 1,324,804 shares of common stock currently outstanding. These executive officers, directors, and advisors, therefore, will, for the foreseeable future, have significant influence over our management and affairs, and will be able to significantly influence all matters requiring stockholder approval, including the election of directors and significant corporate transactions such as mergers or sales of our Company or assets. We may not be able to maintain our current listing for our common stock on the Nasdaq Capital Market. Failure to maintain the listing of our common stock on Nasdaq could adversely affect the liquidity of our common stock. Our inability to maintain our current listing on Nasdaq may limit the liquidity of our stock, increase its volatility, and hinder our ability to raise capital. If our common stock is delisted by Nasdaq, our common stock may be eligible for quotation on an over-the-counter quotation system or on the pink sheets. Upon any such delisting, our common stock would become subject to the regulations of the SEC relating to the market for penny stocks. A penny stock is any equity security not traded on a national securities exchange that has a market price of less than $5.00 per share. The regulations applicable to penny stocks may severely affect the market liquidity for our common stock and could limit the ability of shareholders to sell securities in the secondary market. In such a case, an investor may find it more difficult to dispose of or obtain accurate quotations as to the market value of our common stock, and there can be no assurance that our common stock will be eligible for trading or quotation on any alternative exchanges or markets. Delisting from Nasdaq could adversely affect our ability to raise additional financing through public or private sales of equity securities, would significantly affect the ability of investors to trade our securities and would negatively affect the value and liquidity of our common stock. Delisting could also have other negative results, including the potential loss of confidence by employees, the loss of institutional investor interest and fewer business development opportunities. As previously disclosed, during 2023 and 2024 we were not in compliance with (x) the $1.00 minimum bid price requirement set forth in Nasdaq Listing Rule 5550(a)(2) for continued listing on The Nasdaq Capital Market (the â€œBid Price Requirementâ€) and (y) Nasdaq Listing Rule 5550(b)(1) which requires companies listed on Nasdaq to maintain a minimum of $2,500,000 in stockholdersâ€™ equity for continued listing (the â€œEquity Ruleâ€). In September 2024, the Company received written notice from Nasdaq indicating that the Company had regained compliance with the Bid Price Requirement and the Equity Rule. The Company will be subject to a one year Nasdaq Listing Panel Monitor. The Company intends to monitor its bid price and stockholders' equity to remain in compliance with the applicable listing requirements. Item 2. Unregistered Sales of Equity Securities and Use of Proceeds 26 Table of ContentsÂ Not applicable. Issuer Purchases of Equity Securities We did not repurchase any of our equity securities during the nine months ended September 30, 2024. Item 3. Defaults Upon Senior Securities Not applicable. Item 4. Mine Safety Disclosures Not applicable. Item 5. Other Information Â Rule 10b5-1 Sales Plans Our policy governing transactions in our securities by directors, officers, and employees permits our officers, directors, and certain other persons to enter into trading plans complying with Rule 10b5-1 under the Exchange Act. Generally, under these trading plans, the individual relinquishes control over the transactions once the trading plan is put into place and can only put such plans into place while the individual is not in possession of material non-public information. Accordingly, sales under these plans may occur at any time, including possibly before, simultaneously with, or immediately after significant events involving our company. During the nine months ended September 30, 2024, none of our directors or executive officers had a Rule 10b5-1 plan in effect. 27 Table of ContentsÂ Item 6. Exhibits The exhibits listed on the accompanying Index to Exhibits on this Form 10-Q are filed or incorporated into this Form 10-Q by reference. EXHIBIT INDEX Â Exhibit No. Description Â Â Â Â Â Â 1.1 Â 2024 Placement Agency Agreement (incorporated by reference to Exhibit 1.1 to our Quarterly Report on Form 10-Q for the quarter ended March 31, 2024) Â Â Â Â Â Â 3.1 Â Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.2 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216)) Â Â Â Â Â Â 3.2 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2011) Â Â Â Â Â Â 3.3 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed February 11, 2014) Â Â Â Â Â Â 3.4 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated August 26, 2014. (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 2, 2014) Â Â Â Â Â Â 3.5 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated October 27, 2014 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K dated October 28, 2014) Â Â Â Â Â Â 3.6 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated December 22, 2014. (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K dated December 23, 2014) Â Â Â Â Â Â 3.7 Â Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed on February 17, 2009) Â Â Â Â Â Â 3.8 Â First Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.3 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2009) Â Â Â Â Â Â 3.9 Â Second Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed January 25, 2013) Â Â Â Â Â Â 3.10 Â Third Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed December 18, 2015) Â Â Â Â Â Â 3.11 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated May 26, 2016 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed June 2, 2016) Â Â Â Â Â Â 3.12 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated September 15, 2016 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 16, 2016) Â Â Â Â Â Â 3.13 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated March 16, 2017 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed March 17, 2017) Â Â Â Â Â Â 3.14 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated July 19, 2018 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed July 23, 2018) Â Â Â Â Â Â 3.15 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated September 23, 2021 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 24, 2021) 28 Table of ContentsÂ Â Â Â Â Â Â 3.16 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated January 27, 2022 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed February 2, 2022) Â Â Â Â Â Â 3.17 Â Form of Series 1B Preferred Stock Certificate of Designation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on June 30, 2023) Â Â Â Â Â Â 3.18 Â Amendment to the Series 1B Preferred Stock Certificate of Designation dated July 25, 2023 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on July 31, 2023) Â Â Â Â Â Â 3.19 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated September 8, 2023 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on September 15, 2023). Â Â Â Â Â Â 3.20 Â Certificate of Designation of Series Z Preferred Stock dated June 20, 2024 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on June 21, 2024) Â Â Â Â Â Â 3.21 Â Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company dated August 13, 2024 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on August 19, 2024) Â Â Â Â Â Â 3.22 Â Certificate of Designations of Rights and Preferences of Series 1C Convertible Preferred Stock dated October 17, 2024 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on October 23, 2024) Â Â Â Â Â Â Â Â 4.1 Â Form of Common Stock Certificate (incorporated by reference to Exhibit 4.1 to our Registration Statement on Form SB-2/A filed on June 6, 2006 (Reg. No. 333-131216)) Â Â Â Â Â Â Â Â 4.2 Â Certificate of Designations of Series A Preferred Stock (filed as Exhibit 4.2 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739)) Â Â Â Â Â Â Â Â 4.3 Â Description of Securities (incorporated by reference to Exhibit 4.3 to our Annual Report on Form 10-K filed May 13, 2021) Â Â Â Â Â Â Â Â 4.4 Â Form of 2023 Common Warrant (incorporated by reference to Exhibit 4.4 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.5 Â Form of 2023 Prefunded Warrant (incorporated by reference to Exhibit 4.6 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.6 Â Form of 2023 Placement Agent Warrant (incorporated by reference to Exhibit 4.5 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.7 Â Form of 2023 Common Warrant Agency Agreement (incorporated by reference to Exhibit 4.7 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.8 Â Form of 2023 Prefunded Warrant Agency Agreement (incorporated by reference to Exhibit 4.8 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.9 Â Form of 2023 Securities Purchase Agreement (incorporated by reference to Exhibit 4.9 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â Â Â Â 4.10 Â Form of 2024 Placement Agentâ€™s Warrant (incorporated by reference to Exhibit 4.4 to our Registration Statement on Form S-1 (File no. 333-277070) Amendment No. 3 filed on April 9, 2024). Â Â Â Â Â Â Â Â 4.11 Â Form of 2024 Pre-Funded Warrant (incorporated by reference to Exhibit 4.6 to our Registration Statement on Form S-1 (File no. 333-277070) Amendment No. 1 filed on February 23, 2024) Â Â Â Â Â Â 4.12 Â Form of 2024 Pre-Funded Warrant Agency Agreement (incorporated by reference to Exhibit 4.8 filed with Amendment No. 1 to the Companyâ€™s Registration on Form S-1 (File no. 333-277070) filed on February 23, 2024) Â Â Â Â Â Â 4.13 Â Form of 2024 Common Stock Warrants issued to extend the Warrant Repurchase Agreements (incorporated by reference to Exhibit 4.13 to our Quarterly Report on Form 10-Q for the quarter ended March 31, 2024) Â Â 29 Table of ContentsÂ Â Â 10.1 CTR Â Securities Purchase Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.1 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216)) Â Â Â Â 10.2Â CTR Â Invention and Trade Secret Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.2 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216)) Â Â Â Â 10.3 Â Patent Application Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.3 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216)) Â Â Â Â 10.4Â CTR Â License Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.4 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216)) Â Â Â Â 10.5 Â Letter Agreement, dated November 23, 2005, among the Company, ITN Energy Systems, Inc. and the University of Delaware (incorporated by reference to Exhibit 10.16 to our Registration Statement on Form SB-2/A filed on May 26, 2006 (Reg. No. 333-131216)) Â Â Â Â 10.6Â CTR Â License Agreement, dated November 21, 2006, between the Company and UD Technology Corporation (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on November 29, 2006) Â Â Â Â 10.7 Â Novation Agreement, dated January 1, 2007, among the Company, ITN Energy Systems, Inc. and the United States Government (incorporated by reference to Exhibit 10.23 to our Annual Report on Form 10-KSB for the year ended December 31, 2006) Â Â Â Â Â Â 10.8â€ Â Executive Employment Agreement, dated April 4, 2014, between the Company and Victor Lee (filed as Exhibit 10.1 to our Current Report on Form 8-K filed on April 9, 2014) Â Â Â Â Â Â 10.9â€ Â Seventh Amended and Restated 2005 Stock Option Plan (incorporated by reference to Annex B of our definitive proxy statement dated April 22, 2016) Â Â Â Â Â Â 10.10â€ Â Seventh Amended and Restated 2008 Restricted Stock Plan Stock Option Plan (incorporated by reference to Annex A of our definitive proxy statement dated April 22, 2016) Â Â Â Â Â Â 10.11+ Â Industrial Lease for 12300 Grant Street, Thornton, Colorado dated September 21, 2020 (incorporated by reference to Exhibit 10.50 to our Annual Report on Form 10-K filed January 29, 2021) Â Â Â Â Â Â 10.12+ Â Long-Term Supply and Joint Development Agreement dated September 15, 2021 (incorporated by reference to Exhibit 10.2 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2021) Â Â Â Â Â Â 10.13 Â Fleur Capital Unsecured Convertible Promissory Note dated January 3, 2022 (incorporated by reference to Exhibit 10.13 to our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022) Â Â Â Â Â Â 10.14 Â Nanyang Unsecured Convertible Promissory Note dated January 21, 2022 (incorporated by reference to Exhibit 10.14 to our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022) Â Â Â Â Â Â 10.15 Â Bridge Promissory Note dated August 3, 2022 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on August 8, 2022) Â Â Â Â Â Â 10.16 Â Securities Purchase Agreement dated August 8, 2022 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on August 8, 2022) Â Â Â Â 10.17 Â Form of Common Stock Warrant Related to Securities Purchase Agreement dated August 8, 2022

(incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on August 8, 2022) Â Â Â Â Â 10.18 Â Common Stock Warrant dated August 19, 2022 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on August 19, 2022) Â Â Â Â Â 10.19â€ Â Separation Agreement and Release of Claims between the Company and Victor Lee dated September 21, 2022 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 22, 2022) Â Â Â Â 10.20â€ CTR Â Employment Agreement between the Company and Jeffrey Max dated September 21, 2022 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 27, 2022) 30 Table of ContentsÂ Â Â Â Â Â 10.21â€ Â Separation Agreement between the Company and Michael Gilbreth effective December 11, 2022 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on December 12, 2022) Â Â Â Â Â 10.22â€ Â Employment Agreement between the Company and Paul Warley dated December 12, 2022 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on December 12, 2022) Â Â Â Â Â 10.23 Â Securities Purchase Contract, dated as of December 19, 2022 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on December 20, 2022) Â Â Â Â Â 10.24 Â Form of Security Agreement, dated as of December 19, 2022 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on December 20, 2022) Â Â Â Â Â 10.25 Â Form of Registered Advance Note 2022 (incorporated by reference to Exhibit 4.1 to our Current Report on Form 8-K filed on December 20, 2022) Â Â Â Â Â 10.26 Â Form of Private Placement Advance Note (incorporated by reference to Exhibit 4.2 to our Current Report on Form 8-K filed on December 20, 2022) Â Â Â Â Â 10.27 Â Form of 2022 Common Stock Warrant (incorporated by reference to Exhibit 4.3 to our Current Report on Form 8-K filed on December 20, 2022) Â Â Â Â Â 10.28 Â Waiver and Amendment Agreement, dated as of March 29, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 29, 2023) Â Â Â Â Â 10.29 Â Amendment to Waiver and Amendment Agreement (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on April 13, 2023) Â Â Â Â Â 10.30 Â Common Stock Securities Purchase Agreement dated April 14, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on April 20, 2023) Â Â Â Â Â 10.31 Â Asset Purchase Agreement, dated as of April 17, 2023 (incorporated by reference to Exhibit 2.1 to our Current Report on Form 8-K filed on April 21, 2023) Â Â Â Â Â 10.32 Â Transition Services Agreement, dated as of April 17, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on April 21, 2023) Â Â Â Â Â 10.33 Â Sublease Agreement, dated as of April 17, 2023 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on April 21, 2023) Â Â Â Â Â 10.34 Â Technology License Agreement, dated as of April 17, 2023 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on April 21, 2023) Â Â Â Â Â 10.35 Â Letter Agreement, dated as of April 20, 2023 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed on April 21, 2023) Â Â Â Â Â 10.36â€ Â CEO Employment Agreement between the Company and Paul Warley dated as of May 1, 2023 Â Â Â Â Â 10.37 Â Waiver and Amendment Agreement, dated as of May 25, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on May 26, 2023) Â Â Â Â Â 10.38 Â Form of Series 1B Preferred Stock Purchase Agreement dated June 29, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on June 30, 2023) Â Â Â Â Â 10.39 Â 2024 Placement Agent Agreement (incorporated by reference to Exhibit 1.1 filed with Amendment No. 3 to the Companyâ€™s Registration on Form S-1 (File no. 333-274231)) Â Â Â Â Â 10.40â€ Â Employment Agreement between the Company and Bobby Gulati dated as of October 19, 2023 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on October 23, 2023) Â Â Â Â Â 10.41â€ Â Employment Agreement between the Company and Jin Jo dated as of October 19, 2023 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on October 23, 2023) Â Â Â Â Â 10.42â€ Â Ascent Solar 2023 Equity Incentive Plan (as amended in May 2024) (incorporated by reference to Annex A of our definitive proxy statement filed June 20, 2024) Â Â Â 31 Table of ContentsÂ Â Â 10.43 Â Warrant Repurchase Agreement dated March 6, 2024 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 7, 2024) Â Â Â Â Â 10.44 Â Warrant Repurchase Agreement dated March 7, 2024 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on March 7, 2024) Â Â Â Â Â 10.45 Â Cedar Loan Agreement dated April 17, 2024 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on April 18, 2024) Â Â Â Â Â 10.46 Â At The Market Offering Agreement, dated May 16, 2024, by and between Ascent Solar Technologies, Inc. and H.C. Wainwright & Co., LLC (incorporated by reference to Exhibit 10.1 to our Current report on Form 8-K filed on May 16, 2024) Â Â Â Â Â 10.47 Â Securities Purchase Agreement dated June 20, 2024 between Ascent Solar Technologies, Inc. and Paul Warley (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on June 21, 2024) Â Â Â Â Â 10.48 Â Form of Series 1C Convertible Preferred Stock Securities Purchase Agreement dated October 17, 2024 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 7, 2024) Â Â Â Â Â 31.1* Â Chief Executive Officer Certification pursuant to section 302 of the Sarbanes-Oxley Act of 2002 Â Â Â Â 31.2* Â Chief Financial Officer Certification pursuant to section 302 of the Sarbanes-Oxley Act of 2002 Â Â Â Â 32.1* Â Chief Executive Officer Certification pursuant to section 906 of the Sarbanes-Oxley Act of 2002 Â Â Â Â 32.2* Â Chief Financial Officer Certification pursuant to section 906 of the Sarbanes-Oxley Act of 2002 Â Â 101.INS Â Inline XBRL Instance Document â€“ the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL document. Â Â 101.SCH Â Inline XBRL Taxonomy Extension Schema Document Â Â 101.CAL Â Inline XBRL Taxonomy Extension Calculation Linkbase Document Â Â 101.DEF Â Inline XBRL Taxonomy Extension Definition Linkbase Document Â Â 101.LAB Â Inline XBRL Taxonomy Extension Label Linkbase Document Â Â 101.PRE Â Inline XBRL Taxonomy Extension Presentation Linkbase Document Â Â 104 Â Cover Page Interactive Data File (embedded within the Inline XBRL document) Â Â * Â Filed herewith Â Â Â CTR Â Portions of this exhibit have been omitted pursuant to a request for confidential treatment. Â Â Â â€ Â Denotes management contract or compensatory plan or arrangement. Â Â Â + Â Certain portions of the exhibit have been omitted pursuant to Rule 601(b)(10) of Regulation S-K. The omitted information is (i) not material and (ii) would likely cause competitive harm to the Company if publicly disclosed. 32 Table of ContentsÂ ASCENT SOLAR TECHNOLOGIES, INC. SIGNATURES Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on the 14th day of November, 2024. Â Â Â Â Â November 14, 2024 By: /s/ PAUL WARLEY Â Â Paul WarleyChief Executive Officer(Principal Executive Officer) Â Â Â November 14, 2024 By: /s/ JIN JO Â Â Jin JoChief Financial Officer(Principal Financial and Accounting Officer) Â 33 EX-31.1 2 asti-ex31_1.htm EX-31.1 EX-31.1 Exhibit 31.1 ASCENT SOLAR TECHNOLOGIES, INC. CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 I, Paul Warley, certify that: 1. I have reviewed this Quarterly Report on Form 10-Q of Ascent Solar Technologies, Inc.; 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; 4. The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; (c) Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and (d) Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and 5. The registrantâ€™s other certifying officers and I have disclosed, based on our most recent evaluation, to the registrantâ€™s auditors and the audit committee of registrantâ€™s board of directors (or persons performing the equivalent functions): (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting. Â November 14, 2024 Â Â Â Â Â /s/ PAUL WARLEY Â Â Paul WarleyChief Executive Officer(Principal Executive Officer) Â EX-31.2 3 asti-ex31_2.htm EX-31.2 EX-31.2 Exhibit 31.2 ASCENT SOLAR TECHNOLOGIES, INC. CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 I, Jin Jo, certify that: 1. I have reviewed this Quarterly Report on Form 10-Q of Ascent Solar Technologies, Inc.; 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; 4. The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; (c) Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and (d) Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and 5. The registrantâ€™s other certifying officers and I have disclosed, based on our most recent evaluation, to the registrantâ€™s auditors and the audit committee of registrantâ€™s board of directors (or persons performing the equivalent functions): (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting. Â November 14, 2024 Â Â Â Â By: /s/ JIN JO Â Â Jin JoChief Financial Officer(Principal Financial and Accounting Officer) Â Â EX-32.1 4 asti-ex32_1.htm EX-32.1 EX-32.1 Exhibit 32.1 Â ASCENT SOLAR TECHNOLOGIES, INC. CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 In connection with the Quarterly Report of Ascent Solar Technologies, Inc. (the â€œCompanyâ€) on Form 10-Q for the period ended September 30, 2024 as filed with the Securities and Exchange Commission on the date therein specified (the â€œReportâ€), I, Paul Warley, Chief Executive Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that: 1.The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and 2.The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. Â November 14, 2024 Â Â Â Â Â /s/ PAUL WARLEY Â Â Paul WarleyChief Executive Officer(Principal Executive Officer) Â EX-32.2 5 asti-ex32_2.htm EX-32.2 EX-32.2 Exhibit 32.2 Â ASCENT SOLAR TECHNOLOGIES, INC. CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 In connection with the Quarterly Report of Ascent Solar Technologies, Inc. (the â€œCompanyâ€) on Form 10-Q for the period ended September 30, 2024 as filed with the Securities and Exchange Commission on the date therein specified (the â€œReportâ€), I, Jin Jo, Chief Financial Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that: 1.The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and 2.The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. Â November 14, 2024 Â Â Â By: /s/ JIN JO Â Â Jin JoChief Financial Officer(Principal Financial and Accounting Officer) Â EX-101.SCH 6 asti-20240930.xsd XBRL TAXONOMY EXTENSION SCHEMA WITH EMBEDDED LINKBASES DOCUMENT 100000 - Document - Document and Entity Information link:presentationLink link:calculationLink link:definitionLink 100010 - Statement - CONDENSED BALANCE SHEETS link:presentationLink link:calculationLink link:definitionLink 100020 - Statement - CONDENSED BALANCE SHEETS (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 100030 - Statement - CONDENSED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME link:presentationLink link:calculationLink link:definitionLink 100040 - Statement - CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY (DEFICIT) link:presentationLink link:calculationLink link:definitionLink 100050 - Statement - CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY (DEFICIT) (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 100060 - Statement - CONDENSED STATEMENTS OF CASH FLOWS link:presentationLink link:calculationLink link:definitionLink 995455 - Disclosure - ORGANIZATION link:presentationLink link:calculationLink link:definitionLink 995465 - Disclosure - BASIS OF PRESENTATION link:presentationLink link:calculationLink link:definitionLink 995475 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES link:presentationLink link:calculationLink link:definitionLink 995485 - Disclosure - LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN link:presentationLink link:calculationLink link:definitionLink 995495 - Disclosure - RELATED PARTY TRANSACTIONS link:presentationLink link:calculationLink link:definitionLink 995505 - Disclosure - ASSET ACQUISITION link:presentationLink link:calculationLink link:definitionLink 995515 - Disclosure - PROPERTY, PLANT AND EQUIPMENT link:presentationLink link:calculationLink link:definitionLink 995525 - Disclosure - OPERATING LEASE link:presentationLink link:calculationLink link:definitionLink 995535 - Disclosure - INVENTORIES link:presentationLink link:calculationLink link:definitionLink 995545 - Disclosure - BRIDGE LOAN link:presentationLink link:calculationLink link:definitionLink 995555 - Disclosure - OTHER PAYABLE link:presentationLink link:calculationLink link:definitionLink 995565 - Disclosure - CONVERTIBLE NOTES link:presentationLink link:calculationLink link:definitionLink 995575 - Disclosure - SERIES A PREFERRED STOCK link:presentationLink link:calculationLink link:definitionLink 995585 - Disclosure - SERIES 1B PREFERRED STOCK link:presentationLink link:calculationLink link:definitionLink 995595 - Disclosure - SERIES Z PREFERRED STOCK link:presentationLink link:calculationLink link:definitionLink 995605 - Disclosure - STOCKHOLDERS' EQUITY (DEFICIT) link:presentationLink link:calculationLink link:definitionLink 995615 - Disclosure - SHARE-BASED COMPENSATION link:presentationLink link:calculationLink link:definitionLink 995625 - Disclosure - COMMITMENTS AND CONTINGENCIES link:presentationLink link:calculationLink link:definitionLink 995635 - Disclosure - SUBSEQUENT EVENTS link:presentationLink link:calculationLink link:definitionLink 995645 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Policies) link:presentationLink link:calculationLink link:definitionLink 995655 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Tables) link:presentationLink link:calculationLink link:definitionLink 995665 - Disclosure - ASSET ACQUISITION (Tables) link:presentationLink link:calculationLink link:definitionLink 995675 - Disclosure - PROPERTY, PLANT AND EQUIPMENT (Tables) link:presentationLink link:calculationLink link:definitionLink 995685 - Disclosure - OPERATING LEASE (Tables) link:presentationLink link:calculationLink link:definitionLink 995695 - Disclosure - INVENTORIES (Tables) link:presentationLink link:calculationLink link:definitionLink 995705 - Disclosure - BRIDGE LOAN (Tables) link:presentationLink link:calculationLink link:definitionLink 995715 - Disclosure - CONVERTIBLE NOTES (Tables) link:presentationLink link:calculationLink link:definitionLink 995725 - Disclosure - STOCKHOLDERS' EQUITY (DEFICIT) (Tables) link:presentationLink link:calculationLink link:definitionLink 995735 - Disclosure - SHARE-BASED COMPENSATION (Tables) link:presentationLink link:calculationLink link:definitionLink 995745 - Disclosure - ORGANIZATION - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995755 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995765 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Deferred Revenue (Details) link:presentationLink link:calculationLink link:definitionLink 995775 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Other Assets (Details) link:presentationLink link:calculationLink link:definitionLink 995785 - Disclosure - OPERATING LEASE - Schedule Future Maturities of Operating Lease Liability (Details) 2 link:presentationLink link:calculationLink link:definitionLink 995795 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Other Income/(Expense), Net

(Details) link:presentationLink link:calculationLink link:definitionLink 995805 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Schedule of Net Loss Attributable to Common Shareholders (Details) link:presentationLink link:calculationLink link:definitionLink 995815 - Disclosure - LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995825 - Disclosure - RELATED PARTY TRANSACTIONS - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995835 - Disclosure - ASSET ACQUISITION - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995845 - Disclosure - PROPERTY, PLANT AND EQUIPMENT - Schedule of Property, Plant and Equipment (Details) link:presentationLink link:calculationLink link:definitionLink 995855 - Disclosure - PROPERTY, PLANT AND EQUIPMENT - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995865 - Disclosure - OPERATING LEASE - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995875 - Disclosure - OPERATING LEASE - Schedule of Assets and Liabilities Related to Company's Lease (Details) link:presentationLink link:calculationLink link:definitionLink 995885 - Disclosure - OPERATING LEASE - Schedule Future Maturities of Operating Lease Liability (Details) link:presentationLink link:calculationLink link:definitionLink 995895 - Disclosure - INVENTORIES - Schedule of Inventories (Details) link:presentationLink link:calculationLink link:definitionLink 995905 - Disclosure - BRIDGE LOAN - Summary of Bridge Loan (Details) link:presentationLink link:calculationLink link:definitionLink 995915 - Disclosure - BRIDGE LOAN - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995925 - Disclosure - OTHER PAYABLE - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995935 - Disclosure - CONVERTIBLE NOTES - Schedule of Convertible Notes (Details) link:presentationLink link:calculationLink link:definitionLink 995945 - Disclosure - CONVERTIBLE NOTES - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995955 - Disclosure - SERIES A PREFERRED STOCK - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995965 - Disclosure - SERIES Z PREFERRED STOCK - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995975 - Disclosure - STOCKHOLDERS' EQUITY (DEFICIT) - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995985 - Disclosure - STOCKHOLDERS' EQUITY (DEFICIT) - Schedule of Fair Value of Warrants (Details) link:presentationLink link:calculationLink link:definitionLink 995995 - Disclosure - STOCKHOLDERS' EQUITY (DEFICIT) - Schedule of Stock by Class (Details) link:presentationLink link:calculationLink link:definitionLink 996005 - Disclosure - SHARE-BASED COMPENSATION - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996015 - Disclosure - SHARE-BASED COMPENSATION - Summary of Non-vested Restricted Stock and Related Activity (Details) link:presentationLink link:calculationLink link:definitionLink 996025 - Disclosure - SHARE-BASED COMPENSATION - Summary of Stock Options Activity (Details) link:presentationLink link:calculationLink link:definitionLink 996035 - Disclosure - SHARE-BASED COMPENSATION - Summary of Weighted Average Assumptions Used to Estimate Fair Values (Details) link:presentationLink link:calculationLink link:definitionLink 996045 - Disclosure - COMMITMENTS AND CONTINGENCIES - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996055 - Disclosure - SUBSEQUENT EVENTS - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink Statement [Line Items] Statement [Line Items] Debt Instrument [Axis] Debt Instrument Purchase price, including transaction costs Asset Acquisition, Consideration Transferred, Transaction Cost Increase (Decrease) in Accounts Receivable Accounts receivable Increase (Decrease) in Accounts Payable, Related Parties Related party payable Preferred Stock, Redemption, Term, Required Make-Whole Dividend Preferred Stock Redemption Term Required Make Whole Dividend Preferred stock, redemption, term, required make-whole dividend Entity Address, Postal Zip Code Entity Address, Postal Zip Code Prepayment of Common Stock purchase Adjustments to additional paid in capital prepayment of common stock purchase Adjustments to additional paid in capital prepayment of common stock purchase. Convertible Notes Convertible Notes [Member] Convertible Notes [Member] Entity Incorporation, State or Country Code Entity Incorporation, State or Country Code Other Comprehensive Income (Loss), Net of Tax, Portion Attributable to Parent [Abstract] Other Comprehensive Income/(Loss) Percentage of sale of common stock commission on aggregate gross proceeds. Percentage Of Sale Of Common Stock Commission On Aggregate Gross Proceeds Percentage of commission on aggregate gross proceeds Interest Interest Paid, Excluding Capitalized Interest, Operating Activities Loss Contingency, Damages Sought, Value Damages value Agreement entered date Agreement Entered Date Agreement entered date. Series 1A preferred stock conversion. Series One A Preferred Stock Conversion Series 1A preferred stock conversion Share-Based Payment Arrangement, Nonvested Award, Excluding Option, Cost Not yet Recognized, Amount Total unrecognized share-based compensation expense Share-Based Payment Arrangement, Tranche One [Member] Tranche One Series 1B Preferred Stock Series One B Preferred Stock [Member] Series One B Preferred Stock. Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Lessee, Operating Lease, Description Lease terms description Fleur note. Fleur Note [Member] Fleur Note Aggregate purchase price for remaining warrants. Aggregate Purchase Price For Remaining Warrants Aggregate purchase price for remaining warrants Gain (Loss) On Derivative And Extinguishment Of Debt, Net Gain Loss On Derivative And Extinguishment Of Debt Net Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net Change in fair value of derivatives and gain on extinguishment of liabilities, net Number of rentable square feet of building. Number Of Rentable Square Feet Of Building Number of rentable square feet of building Long-Term Debt, Type [Domain] Long-Term Debt, Type Schedule of Stock by Class [Table Text Block] Schedule of Stock by Class Accrued Interest, Current Accrued Interest Current Accrued interest Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year Remainder of 2024 Preferred Stock [Text Block] Series A Preferred Stock Lessee, Operating Leases [Text Block] OPERATING LEASE Commitments and Contingencies Disclosure [Text Block] COMMITMENTS AND CONTINGENCIES Accrued Salaries, Current Salary payable Stock, Class of Stock [Table] Schedule Of Stock By Class [Table] Product and Service [Axis] Product and Service Short-Term Debt, Terms Short-Term Debt, Terms Current portion of convertible notes, net Net Principal Balance Convertible Notes Payable Current Conversion Of Stock To Equity, Amount Conversion Of Stock To Equity Amount Non-cash conversions of convertible notes to equity Depreciation, Depletion and Amortization Depreciation and amortization Depreciation, Depletion and Amortization, Total Collaborative Arrangement and Arrangement Other than Collaborative [Domain] Collaborative Arrangement and Arrangement Other than Collaborative Cumulative Effect, Period of Adoption [Domain] Payments to Acquire Productive Assets Payments on purchase of assets Payments to Acquire Productive Assets, Total Total consideration for asset purchase Purchase price paid Conversion of prefunded warrants amount. Conversion of prefunded warrants Amount Exercise of prefunded warrants Related Party Transaction [Line Items] Related Party Transaction [Line Items] Concentration Risk Benchmark [Axis] Concentration Risk Benchmark Equity [Text Block] STOCKHOLDERS' EQUITY (DEFICIT) Series H Preferred Stock [Member] Series H Preferred Stock Title and Position [Axis] Title of Individual Sale of Stock [Domain] Sale of Stock Proceeds from sale on ATM facility, net of expenses (in shares) Stock issued during period shares on ATM facility. Stock Issued During Period Shares On ATM Facility Inventory, Work in Process, Net of Reserves Work in process Summary of Settlement of Debt Schedule of Debt Conversions [Table Text Block] Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Gain (Loss) Arising During Period, Net of Tax Foreign currency translation gain/(loss) Fair Value Measurement Inputs and Valuation Techniques [Line Items] Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Line Items] Entity Central Index Key Entity Central Index Key Letter agreement. Letter Agreement [Member] Letter Agreement Disclosure of Share-Based Compensation Arrangements by Share-Based Payment Award [Table Text Block] Summary of Non-vested Restricted Stock and Related Activity Common Stock, Value, Subscriptions Aggregate sales price of common stock Increase (Decrease) in Operating Capital [Abstract] Changes in operating assets and liabilities: Common Stock, Shares, Issued Common stock, shares issued (in shares) Other Assets Total other assets Asset selling terms. Asset Selling Terms Asset selling terms Placement Agent Agreement. Placement Agent Agreement [Member] Fair Value Measurement Inputs and Valuation Techniques [Table] Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Table] Short-Term Debt [Text Block] BRIDGE LOAN Measurement Input, Expected Dividend Rate [Member] Dividend Yield LIQUIDITY AND CONTINUED OPERATIONS [Abstract] Liquidity And Continued Operations [Abstract] Business Description and Basis of Presentation [Text Block] BASIS OF PRESENTATION Preferred Stock [Member] Preferred Stock Income Statement [Abstract] Sabby Volatility Warrant Master Fund, LTD. Sabby Volatility Warrant Master Fund, L T D [Member] Sabby Volatility Warrant Master Fund, LTD Series1 B Preferred Stock [Member] Series1 B preferred stock. Series 1B Preferred Stock Entity Address, State or Province Entity Address, State or Province Lease commencement date. Lease Commencement Date Lease commencement date Series 1 B Preferred Stock Series One B Preferred Stock [Text Block] Series one B preferred stock. Non-recurring engineering fees receivable. Non Recurring Engineering Fees Receivable Non-recurring engineering fees receivable Concentration Risk Type [Domain] Concentration Risk Type Contract with Customer, Liability, Revenue Recognized Recognized as revenue Revenue recognized Recognized as revenue Customer [Axis] Customer Customer Concentration Risk [Member] Customer Concentration Risk Adjusted number of warrants. Adjusted Number of Warrants Percentage of rent increase in annual rate. Percentage Of Rent Increase In Annual Rate Percentage of rent increase in annual rate Series F Preferred Stock [Member] Series F Preferred Stock Preferred stock number of votes, Preferred Stock Number Of Votes Preferred stock number of votes Cover [Abstract] Subsequent Event [Line Items] Earnings Per Share, Basic Net Income/(Loss) Per Share (Basic) Earnings Per Share, Basic, Total Earnings Per Share (Basic) Series I C Preferred Stock Series I C Preferred Stock [Member] Series I C Preferred Stock. Manufacturing facility landlord. Manufacturing Facility Landlord [Member] Manufacturing Facility Landlord Convertible Notes Payable, Total Convertible Notes Payable Conversions notes payable Asset Acquisition [Axis] Property, Plant, and Equipment, Fair Value Disclosure Estimated fair value Stock issued during period, value, issued to settle liabilities. Stock Issued During Period, Value, Issued To Settle Liabilities Common stock issued to settle liabilities Share-Based Payment Arrangement, Expense Share-based compensation Bridge loan, net of discount. Bridge Loan, net of discount Retained Earnings (Accumulated Deficit) Accumulated deficit Retained Earnings (Accumulated Deficit), Total Stock Options Outstanding, Shares, Beginning Balance Stock Options Outstanding, Shares, Ending Balance Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number Supplemental Cash Flow Elements [Abstract] Non-Cash Transactions: Assets, Current [Abstract] Current Assets: Short-Term Debt [Abstract] Net Cash Provided by (Used in) Operating Activities Net cash used in operating activities Net cash used in operating activities Weighted Average Grant Date Fair Value, Forfeited Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeitures, Weighted Average Grant Date Fair Value Product and Service [Domain] Product and Service Accumulated Other Comprehensive Income (Loss), Net of Tax Accumulated other comprehensive loss Accumulated Other Comprehensive Income (Loss), Net of Tax, Total Lessee, Operating Lease, Term of Contract Lease term Debt Instrument [Line Items] Debt Instrument [Line Items] Property, Plant and Equipment, Net Property, Plant and Equipment, net Carrying value of assets Lessee, Operating Lease, Liability, to be Paid, Year Four 2027 Other. Other Other Net Cash Provided by (Used in) Operating Activities [Abstract] Operating Activities: Vesting [Axis] Common Stock, Par or Stated Value Per Share Common stock, par value (in dollars per share) Manufacturing machinery and equipment in progress. Manufacturing Machinery And Equipment In Progress [Member] Manufacturing machinery and equipment, in progress Measurement Input Type [Domain] Measurement Input Type Statement of Cash Flows [Abstract] Counterparty Name [Axis] Counterparty Name Equity Method Investments Equity method investment Warrant settlement amount. Warrant Settlement Amount Warrant settlement expense Warrant settlement (Note 15) Class of Warrant or Right, Number of Securities Called by Warrants or Rights Warrants exercisable for number shares of common stock Equity Components [Axis] Equity Components Entity Address, Address Line One Entity Address, Address Line One Extinguishment of Debt, Amount Aggregate Early repayment option aggregate amount Number of institutional investors. Number Of Institutional Investors Number of institutional investors Net Loss Attributable to Common Shareholders Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] Employee-related Liabilities, Current Accrued liabilities Employee-related Liabilities, Current, Total Accrued payroll Lucro. Lucro [Member] Lucro Related Party Transaction [Table] Schedule Of Related Party Transactions By Related Party [Table] Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period Shares of restricted stock units granted Shares granted Intangible Asset, Finite-Lived [Table] Schedule Of Finite Lived Intangible Assets [Table] Bridge new loans. Bridge new loans New loans Property, Plant and Equipment [Line Items] Property Plant And Equipment [Line Items] Unsecured Debt, Current Notes payable Subsequent Event Type [Axis] Subsequent Event Type Nonoperating Income (Expense) Total Other Income/(Expense) Secured convertible note financing. Secured convertible note financing Secured convertible note financing Risk-free interest rate Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate Photovoltaic thin film solar cells. Photovoltaic Thin Film Solar Cells [Member] Photovoltaic Thin Film Solar Cells Gain on settlement of liabilities, net Gain on settlement of liabilities Gain (Loss) from Litigation Settlement Gain (Loss) from Litigation Settlement, Total Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number Beginning Balance, Non-vested Shares Ending Balance, Non-vested Shares Shares granted Number of unvested units Amendment Flag Amendment Flag Operating lease liabilities Increase (Decrease) in Operating Lease Liability Proceeds from payments to patent activity. Proceeds From Payments To Patent Activity Patent activity costs Operating Lease, Liability, Noncurrent Non-current operating lease liabilities Co-venturer [Member] TubeSolar AG Inventory, Finished Goods, Net of Reserves Finished goods Debt Instrument, Name [Domain] Debt Instrument, Name Gain on lease modification Gain Loss On Lease Modification Gain loss on lease modification. Sale of Stock, Price Per Share Common stock price per share Average price per share Net Income/(Loss) Net income/(loss) Lessee, Lease, Description [Table] Stock Options Outstanding, Shares, Exercised Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period Share-based compensation (in shares) Number of options exercisable Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Number Customer [Domain] Customer Series E Preferred Stock [Member] Series E Preferred Stock Conversions payable Conversions payable current. Conversions Payable, Current Equity Component [Domain] Equity Component Statistical Measurement [Domain] Statistical Measurement Short-Term Debt [Line Items] Short Term Debt [Line Items] Interest Expense, Debt Interest expense upon conversion Interest Expense, Debt, Total Interest expense Total Other Income/(Expense), net Other Nonoperating Income (Expense) Other income/(expense), net Stock options termination period Share-Based Compensation Arrangement by Share-Based Payment Award, Expiration Period One third member. One Third [Member] One Third Debt Instrument, Increase, Accrued Interest Interest accrued on convertible debt Furniture and Fixtures [Member] Furniture, fixtures, computer hardware and computer software Down round deemed dividend Adjustments To Down Round Deemed Dividend Adjustments to down round deemed dividend. Preferred Stock, Shares Issued Preferred stock, shares issued (in shares) Additions of deferred revenue. Additions Of Deferred Revenue Additions Cost of Goods and Service, Excluding Depreciation, Depletion, and Amortization Costs of revenue Cost of Goods and Service, Excluding Depreciation, Depletion, and Amortization, Total BD one investment holding LLC. B D One Investment Holding L L C [Member] BD 1 Notes (related party) BD1 Debt Instrument, Unamortized Discount, Total Debt Instrument, Unamortized Discount Less: Discount Balance Less: Discount Balance Discount Original issuance discount First repurchase. First Repurchase [Member] First Repurchase Lease initial payment. Lease Initial Payment Lease initial payment Other Assets, Noncurrent [Abstract] Other Assets: Prepaid Expense and Other Assets, Current Prepaid and other current assets Securities Purchase Agreement Securities Purchase Agreement [Member] Securities purchase agreement. Preferred Stock, Liquidation Preference, Value Preferred stock, liquidation preference Collaborative Arrangement and Arrangement Other than Collaborative [Axis] Collaborative Arrangement and Arrangement Other than Collaborative Class of Stock [Domain] Class of Stock Cumulative Effect, Period of Adoption, Adjustment [Member] Comprehensive Income (Loss), Net of Tax, Attributable to Parent Net Comprehensive Income/(Loss) Flisom AG. Flisom AG [Member] Flisom AG Common Stock, Shares, Outstanding Common stock, shares outstanding (in shares) Common Stock, Shares, Outstanding, Beginning Balance Common Stock, Shares, Outstanding, Ending Balance Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding [Roll Forward] Series 1A preferred stock. Series1 A Preferred Stock [Member] Series 1A Preferred Stock Series D-1 Preferred Stock [Member] Series D1 Preferred Stock [Member] Series D-1 Preferred Stock Preferred Stock, Par or Stated Value Per Share Preferred stock, par value (in dollars per share) Milestone and engineering. Milestone And Engineering [Member] Milestone and engineering Revenue Benchmark [Member] Revenue Benchmark Proceeds from Issuance or Sale of Equity, Total Proceeds from Issuance or Sale of Equity Proceeds from issuance or sale of equity Asset Acquisition [Abstract] Finite-Lived Intangible Assets [Line Items] Finite Lived Intangible Assets [Line Items] Entity Interactive Data Current Entity Interactive Data Current Lessee operating lease liability payments due after year four. Lessee Operating Lease Liability Payments Due After Year Four Thereafter Product [Member] Products Payment for Debt Extinguishment or Debt Prepayment Cost Payment for early extinguish of debt Document Quarterly Report Document Quarterly Report Wainwright engagement letter. Wainwright engagement letter [Member] Wainwright engagement letter [Member] Percentage of warrant coverage on secured convertible note financing. Percentage of warrant coverage on secured convertible note financing Percentage of warrant coverage on secured convertible note financing Convertible Debt [Table Text Block] Schedule of Convertible Debt Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in

Period, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, Vested Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Cash and cash equivalents at end of period Cash and cash equivalents at beginning of period Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Total Related Party Transactions Disclosure [Text Block] RELATED PARTY TRANSACTIONS Statistical Measurement [Axis] Statistical Measurement Series D Preferred Stock [Member] Series D Preferred Stock Operating Lease, Cost Operating lease costs Share-Based Payment Arrangement, Tranche Three [Member] Tranche Three Convertible Debt [Member] Convertible Debt Related and Nonrelated Parties [Domain] Related Party Lease, Cost Rent per month Lease, Cost, Total Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block] Schedule Future Maturities of Operating Lease Liability Milestone Arrangement Milestone Arrangement [Member] Milestone arrangement. Repurchase and cancel of warrants. Repurchase and cancel of warrants Down round deemed dividend Down round deemed dividend Down Round Deemed Dividend Down round deemed dividend. Stock issued during period, shares, issued to settle liabilities. Stock Issued During Period, Shares, Issued To Settle Liabilities Common stock issued to settle liabilities (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, Granted Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Period for Recognition Unrecognized share-based compensation expense, period for recognition Machinery and Equipment [Member] Manufacturing machinery and equipment Common Stock, Number Of Votes Per Share Common Stock Number Of Votes Per Share Common stock, number of votes per share Effect of foreign exchange rate on cash Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Continuing Operations Ownership [Domain] Ownership Increase (Decrease) in Prepaid Expense Prepaid expenses and other current assets Short-Term Debt [Table] Schedule Of Short Term Debt [Table] Assets Total Assets Expected life of the options (in years) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term Schedule of Long-Term Debt Instruments [Table] Debt Instrument [Table] Impairment of Long-Lived Assets to be Disposed of Impairment loss Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period Shares vested Shares vested Prefunded warrants. Prefunded warrants [Member] Prefunded warrants [Member] LIQUIDITY AND CONTINUED OPERATION Liquidity And Continued Operations [Text Block] LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN New Accounting Pronouncements, Policy [Policy Text Block] Recently Issued Accounting Policies Entity Address, City or Town Entity Address, City or Town Other Accumulated Comprehensive Income (Loss) AOCI Attributable to Parent [Member] Equity [Abstract] Income (Loss) from Equity Method Investments Income/(Loss) on Equity Method Investments Loss on equity method investment Payments of Stock Issuance Costs Sale on ATM facility, net of expenses Dawson James. Dawson James [Member] Dawson James Right-of-use assets acquired through operating lease liabilities. Right Of Use Assets Acquired Through Operating Lease Liabilities Right-of-use assets acquired through operating lease liabilities Shares forfeited Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period Number of forfeited shares Shares forfeited Bridge Loan Beginning, Principal Balance Ending, Principal Balance Bridge loan Preferred Stock, Dividend, Make-Whole Dividend Rate to Market Value Preferred Stock Dividend Make Whole Dividend Rateto Market Value Preferred stock, dividend, make-whole dividend rate to market value Debt Instrument, Face Amount Aggregate principal amount of notes outstanding Aggregate principal amount Sabby. Sabby [Member] Sabby Depreciation Depreciation expense Depreciation, Total Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period, Fair Value Fair value of shares on vesting dates Warrants price per share. Warrants Price Per Share Warrants price per share Adjustments to additional paid in capital warrant repurchased. Adjustments To Additional Paid In Capital Warrant Repurchased Warrant repurchase Note payable excluding convertible note current. Note Payable Excluding Convertible Note Current Other payable Down round deemed dividend Down Round Deened Dividend Down round deened dividend. Private Placement [Member] Private Placement Share-Based Payment Arrangement [Text Block] SHARE-BASED COMPENSATION Series A Preferred Stock [Member] Series A Preferred Stock Gain on settlement of liabilities Gain Loss On Settlement of Liabilities Gain loss on settlement of liabilities. Operating Lease, Weighted Average Discount Rate, Percent Lease discount rate Offering expenses. Offering Expenses Offering expenses Other Income, Nonoperating [Abstract] Notes payable termination Notes Payable Termination Notes payable termination. Stock Options Outstanding, Weighted Average Exercise Price, Forfeited / Expired Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures and Expirations in Period, Weighted Average Exercise Price Preferred Stock, Redemption Price Per Share Preferred stock redemption price per share Proceeds from issuance of Series 1B Preferred Stock Stock Issued During Period, Value, New Issues Lessee, Lease, Description [Line Items] Liabilities, Current [Abstract] Current Liabilities: Accounts Receivable [Member] Accounts Receivable Document Type Document Type Cumulative Effect, Period of Adoption, Adjusted Balance [Member] Fleur Capital Pte Ltd [Member] Fleur Capital Pte Ltd Fleur Capital Pte Ltd. Title of 12(b) Security Title of 12(b) Security Cash and Cash Equivalents, at Carrying Value Cash and cash equivalents Cash and Cash Equivalents, at Carrying Value, Total Income available to common stockholders adjusted for deemed dividends from down round financings Stock Option, Down Round Feature, Increase (Decrease) in Equity, Amount Statement of Stockholders' Equity [Abstract] Document Fiscal Period Focus Document Fiscal Period Focus Engineering revenue recognized. Engineering Revenue Recognized Engineering revenue recognized Research and Development Expense Research, development and manufacturing operations Research and Development Expense, Total Stock Options Outstanding, Shares, Granted Number of stock options granted Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross Accounting Standards Update and Change in Accounting Principle [Table Text Block] Cumulative Effect of Changes in Fianancial Statement Preferred Stock, Dividend Rate, Percentage Preferred stock, dividend rate Property, Plant and Equipment, Gross Property, Plant and Equipment: Depreciable property, plant and equipment Property, Plant and Equipment, Gross, Total Property, Plant and Equipment, Gross, Beginning Balance Property, Plant and Equipment, Gross, Ending Balance Subsequent Event Type [Domain] Subsequent Event Type Measurement Input, Expected Term [Member] Expected Life of the Warrants (In Years) Summary of Weighted Average Assumptions Used to Estimate Fair Values Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block] Warrant exercise price per share Warrant exercise price per share Exercise price Sale of Stock [Axis] Sale of Stock Net Cash Provided by (Used in) Investing Activities [Abstract] Investing Activities: Working capital Working Capital Working capital. Revenue from Contract with Customer, Excluding Assessed Tax Total Revenues Revenues Commitments and contingencies. Commitments And Contingencies [Line Items] Commitments And Contingencies [Line Items] Loss contingency common stock warrant. Loss contingency common stock warrant Common stock warrants Ownership [Axis] Ownership L1 Convertible Note. L1 Convertible Note [Member] L1 Convertible Note Offering shares of common stock warrant to purchase. Offering Shares of Common Stock Warrant to Purchase Offering shares of common stock warrant to purchase Asset purchase agreement. Asset Purchase Agreement [Member] Asset Purchase Agreement Selling, General and Administrative Expense Selling, general and administrative Selling, General and Administrative Expense, Total Short-Term Debt, Type [Axis] Short-Term Debt, Type Series B-1 Preferred Stock [Member] Series B1 Preferred Stock [Member] Series B-1 Preferred Stock Patents, net of accumulated amortization of $179,603 and $173,387 respectively Finite-Lived Intangible Assets, Net Finite-Lived Intangible Assets, Net, Total Finite-Lived Intangible Assets, Net, Beginning Balance Finite-Lived Intangible Assets, Net, Ending Balance Depreciation, Depletion and Amortization, Nonproduction Depreciation and amortization Depreciation, Depletion and Amortization, Nonproduction, Total Short-Term Debt, Type [Domain] Short-Term Debt, Type Debt Instrument, Frequency of Periodic Payment Frequency of periodic payment Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions and Methodology [Abstract] Loan 1 Loan 1 [Member] Loan 1 Liabilities and Equity [Abstract] LIABILITIES AND STOCKHOLDERSâ€™ EQUITY (DEFICIT) Document Period End Date Document Period End Date Net Cash Provided by (Used in) Financing Activities Net cash provided by (used in) financing activities Net Rentable Area Net rentable area Loan 2. Loan 2 [Member] Loan 2 Payments to Acquire Equity Method Investments Contributions to equity method investment Liabilities, Noncurrent [Abstract] Long-Term Liabilities: Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Shares omitted from loss per share, anti-dilutive Maximum outstanding shares owned, Percentage Maximum outstanding shares owned, percentage Maximum outstanding shares owned, percentage. Proceeds from sale on ATM facility, net of expenses Stock issued during period value on ATM facility. Stock Issued During Period Value On ATM Facility APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Share-based compensation APIC, Share-Based Payment Arrangement, Increase for Cost Recognition, Total Debt instrument converted amount Principal amount settled Principal settled during the six months ended June 30, 2023 Notes converted Notes converted Forgiveness of payables to related party. Forgiveness of Payables to Related Party Forgiveness of payables Accrued Liabilities, Current Accrued expenses Accrued Liabilities, Current, Total Deferred Revenue Revenue recognized Deferred Revenue, Total Beginning Balance Ending Balance Preferred Stock, Conversion, Required Common Share Price Preferred Stock Conversion Required Common Share Price Preferred stock, conversion, required common share price (in dollars per share) Adjusted purchase of common stock exercise price Adjusted purchase of common stock exercise price Trading Symbol Trading Symbol Equity, Attributable to Parent Ending balance Beginning balance Total stockholdersâ€™ equity (deficit) Summary of bridge loan. Summary of Bridge Loan Table Text Block Summary of Bridge Loan Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number of Shares [Roll Forward] Payments to Acquire Interest in Joint Venture Contribution to joint venture Debt instrument periodic payment Debt Instrument, Periodic Payment Debt Instrument, Periodic Payment, Total Weekly payments Long-Lived Tangible Asset [Axis] Long-Lived Tangible Asset Class of Warrant or Right, Outstanding Warrants outstanding Outstanding common warrants Conversion price (in dollars per share) Debt Instrument, Convertible, Conversion Price Restricted Stock Units (RSUs) [Member] Restricted Stock Units Sale of Stock, Number of Shares Issued in Transaction Aggregate number of common stock shares for private placement Number of shares issued and sold Conversion of Stock, Shares Issued Conversion of stock shares Related Party Transactions [Abstract] Property, Plant and Equipment [Table] Schedule Of Property Plant And Equipment [Table] Adjustments to additional paid in capital warrant settlement. Adjustments To Additional Paid In Capital Warrant Settlement Warrant settlement Security Deposit Lease security deposit Payments for Repurchase of Warrants Purchase price for repurchase of warrants Warrant repurchase Measurement Input Type [Axis] Measurement Input Type Related party payables Related Party Payables Current Related party payables current. Leases [Abstract] Lowest price to convert debt. Lowest Price to Convert Debt Lowest conversion price Percentage of fees payable under tail provision. Percentage of fees payable under tail provision Percentage of fees payable under tail provision Separation agreement. Separation Agreement [Member] Separation Agreement Deferred Revenue, by Arrangement, Disclosure [Table Text Block] Deferred Revenue Product revenue recognized. Product Revenue Recognized Product revenue recognized Concentration Risk, Percentage Concentration risk, percentage Series G Preferred Stock [Member] Series G Preferred Stock Share-based compensation arrangement by share-based payment award, vesting date. Share-Based Compensation Arrangement by Share-Based Payment Award, Vesting Date Vesting date Equity issued for convertible debt Stock Issued During Period, Value, Conversion of Convertible Securities Conversion of shares Class of Stock [Line Items] Class Of Stock [Line Items] Measurement Input, Price Volatility [Member] Expected Stock Price Volatility Scenario [Axis] Dividend yield Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Dividend Rate Security Exchange Name Note payable conversion. Note Payable Conversion [Member] Note Payable Conversion Counterparty Name [Domain] Counterparty Name Measurement Input, Risk Free Interest Rate [Member] Risk-free Interest Rate Weighted average grant date fair value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested, Weighted Average Grant Date Fair Value Cumulative Effect, Period of Adoption [Axis] Long-Lived Tangible Asset [Domain] Long-Lived Tangible Asset Common stock issued for services Stock Issued During Period, Value, Issued for Services Class of Stock [Axis] Class of Stock Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Accumulated depreciation Less: Accumulated depreciation and amortization Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment, Total Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment, Beginning Balance Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment, Ending Balance Series K Preferred Stock [Member] Series K Preferred Stock [Member] Series K Preferred Stock Lessee, Operating Lease, Liability, to be Paid, Year Three 2027 Stock issued for services. Stock Issued For services Stock issued for services Subsidiary, Ownership Percentage, Noncontrolling Owner Minority stake percentage Subsequent Event [Member] Subsequent Event Maximum [Member] Maximum Liabilities and Equity Total Liabilities and Stockholdersâ€™ Equity (Deficit) Stock issued for warrant settlement. Stock Issued For Warrant Settlement Stock issued for warrant settlement Schedule of assets and liabilities related to lease. Schedule Of Assets And Liabilities Related To Lease Table [Text Block] Schedule of Assets and Liabilities Related to Company's Leases Gain on Swiss liabilities (Note 6) Gain on extinguishment of liabilities Swiss liabilities (Note 6) Gain (Loss) on Extinguishment of Debt Gain (Loss) on Extinguishment of Debt, Total Operating Lease, Right-of-Use Asset Operating lease right-of-use assets, net Supplemental disclosure of cash flow information: Supplemental Cash Flow Information [Abstract] Long-term supply and joint development agreement. Long Term Supply And Joint Development Agreement [Member] Long-Term Supply and Joint Development Agreement Prepayment of equity offering Prepayment of equty offering Prepayment of Equity Offering Prepayment of equity offering. Earnings Per Share, Diluted Net Income/(Loss) Per Share (Diluted) Earnings Per Share, Diluted, Total Earnings Per Share (Diluted) Advisory board member. Advisory Board [Member] Advisory Board Asset Acquisition [Line Items] Leasehold Improvements [Member] Leasehold improvements Other Inventories, Spare Parts, Gross Spare machine parts Liabilities Total liabilities Schedule of Other Assets [Table Text Block] Other Assets Assets, Current Total current assets Net Cash Provided by (Used in) Investing Activities Net cash used in investing activities Preferred Stock, Redemption Amount Redemption amount Stock issued during period share of common stock. Stock Issued During Period Share Of Common Stock Sale of common stock (in shares) Forecast [Member] Forecast [Member] Proceeds from issuance of Series 1B Preferred Stock (in shares) Common stock shares issued Number of shares sold Series B-2 Preferred Stock [Member] Series B2 Preferred Stock [Member] Series B-2 Preferred Stock Convertible notes. Convertible Notes [Text Block] CONVERTIBLE NOTES Entity Filer Category Entity Filer Category Debt Conversion, Converted Instrument, Shares Issued Debt conversion, converted instrument, shares issued (in shares) Debt conversion, converted instrument, shares issued Property, Plant and Equipment [Abstract] Asset Acquisition [Domain] Organization, Consolidation and Presentation of Financial Statements Disclosure [Text Block] ORGANIZATION Current Fiscal Year End Date Current Fiscal Year End Date Securities purchase contract. Securities Purchase Contract [Member] Securities Purchase Contract Lessee, Operating Lease, Liability, Undiscounted Excess Amount Less amounts representing interest Repayments of Short-Term Debt, Total Repayments of Short-Term Debt Principal Payments Principal Payments Repayment of bridge loans Share-Based Payment Arrangement, Noncash Expense Share-based compensation Share-Based Payment Arrangement, Noncash Expense, Total Legal Fees Legal fees Related and Nonrelated Parties [Axis] Related Party Entity Registrant Name Entity Registrant Name Debt current and noncurrent. Debt Current And Noncurrent Principal Balance, beginning Principal Balance, ending Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Schedule Of Share Based Compensation Arrangements By Share Based Payment Award [Table] Debt Instrument, Maturity Date Loans mature date Entity Emerging Growth Company Entity Emerging Growth Company Class of warrant or right issued during period. Class Of Warrant Or Right Issued During Period Prefunded warrants issued Additions to debt conversions payable. Additions To Debt Conversions Payable Increase in conversions payable Weighted Average Number of Shares Outstanding, Basic Weighted Average Common Shares Outstanding (Basic) Weighted Average Number of Shares Outstanding, Basic, Total Vesting [Domain] Lessee, Operating Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract] Common Stock, Shares Authorized Common stock, shares authorized (in shares) Bridge Loan [Member] Bridge Loans Bridge Loan Interest Payable, Current Interest payable BD one exchange agreement. B D One Exchange Agreement [Member] B D One Exchange Agreement Proceeds from Issuance of Common Stock Aggregate gross proceeds Proceeds from issuance of Common Stock Concentration Risk Type [Axis] Concentration Risk Type Payment for termination of note payable Repayments of Unsecured Debt Debt Disclosure [Abstract] Stock Options Outstanding, Weighted Average Exercise Price, Granted Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Grants in Period, Weighted Average Exercise Price Earnings Per Share, Policy [Policy Text Block] Earnings Per Share Share-Based Payment Arrangement [Abstract] Debt, Current, Total Debt, Current Principal Balance, beginning Principal Balance, ending Assets Sold under Agreements to Repurchase, Carrying Amount Carrying value of assets sold Proceeds from Issuance of Warrants Aggregate purchase price Accounting Policies [Abstract] Series C Preferred Stock [Member] Series C Preferred Stock Summary of Stock Options Activity Share-Based Payment Arrangement, Option, Activity [Table Text Block] Stock issued during period value of common stock. Stock Issued During Period Value Of Common Stock Sale of common stock Inventory, Raw Materials, Net of Reserves Raw materials Equity, Attributable to Parent [Abstract] Stockholdersâ€™ Equity (Deficit): Increase (Decrease) In Accrued Interest Payable Increase Decrease In Accrued Interest Payable Accrued interest Potential milestone earnings from engineering contract costs. Potential Milestone Earnings From Engineering Contract Costs Potential milestone earnings from engineering contract costs Percentage of warrants investors agree to convey assign and transfer. Percentage Of Warrants Investors Agree To Convey Assign And Transfer Purchase price for repurchase of warrants Percentage of warrants investors agree to convey, assign and transfer Crowdex convertible note. Crowdex Convertible Note [Member] Crowdex Convertible Notes Crowdex Note (related party) Interest income Interest

Income, Other Statement [Table] Statement [Table] Property, Plant and Equipment [Table Text Block] Property, Plant and Equipment Stated value percentage Stated Value Percentage Stated value percentage. Weighted average remaining contractual term Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Weighted Average Remaining Contractual Term Subsequent Event [Table] Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price [Abstract] Preferred Stock, Shares Authorized Preferred stock, shares authorized (in shares) Pre-funded warrants were exercised into common stock. Pre-funded warrants were exercised into common stock Pre-funded warrants were exercised into common stock Exercise of prefunded warrants (in shares) Series I Preferred Stock [Member] Series I Preferred Stock [Member] Series I Preferred Stock Securities Act File Number Entity File Number Accrued and Unpaid Dividends Accruedand Unpaid Dividends Accrued and unpaid dividends Floor price. Floor Price Floor price Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Net change in cash and cash equivalents Earnings Per Share [Abstract] Warrants and Rights Outstanding, Term Warrants expiring term Adjustments to inventory reserve expense. Adjustments To Inventory Reserve Expense Inventory reserve expense Inventory Disclosure [Abstract] Statement of Financial Position [Abstract] Operating Income (Loss) Loss from Operations Accrued Bonuses, Current Declared but unpaid cash bonus payable Shares Issued, Price Per Share Purchase price of share Expected stock price volatility Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate Entity Shell Company Entity Shell Company Payment of cash payable. Payment of cash payable Accrued Professional Fees, Current Accrued professional services fees Fair Value Measurement Inputs and Valuation Techniques [Table Text Block] Schedule of Fair Value of Warrants Entity Tax Identification Number Entity Tax Identification Number Assets [Abstract] ASSETS Exercise of Pre-funded warrants. Exercise of Pre-funded Warrants Exercise of prefunded warrants Entity Current Reporting Status Entity Current Reporting Status Net Loss attributable to common shareholders Net Income (Loss) Available to Common Stockholders, Basic Net Income (Loss) Available to Common Stockholders, Basic, Total Former president and chief executive officer. Former President And Chief Executive Officer [Member] Former President and Chief Executive Officer ASSET ACQUISITION Asset Acquisition [Text Block] L1 Capital Global Opportunities Master Fund Ltd. L1 Capital Global Opportunities Master Fund Ltd [Member] L1 Capital Global Opportunities Master Fund, Ltd Gross proceeds received Proceeds from issuance of Series 1B Preferred Stock Proceeds from Issuance of Convertible Preferred Stock Property, Plant and Equipment Disclosure [Text Block] PROPERTY, PLANT AND EQUIPMENT Commitments and contingencies. Commitments And Contingencies [Table] Commitments And Contingencies [Table] Long-Term Debt, Type [Axis] Long-Term Debt, Type Subsequent Events [Abstract] Inventory Disclosure [Text Block] INVENTORIES Revenue from Contract with Customer [Policy Text Block] Revenue Recognition Document Fiscal Year Focus Document Fiscal Year Focus Share-Based Payment Arrangement, Tranche Two [Member] Tranche Two Series A preferred stock, $.0001 par value; 750,000 shares authorized; 48,100 and 48,100 shares issued and outstanding, respectively ($935,678 and $899,069 Liquidation Preference, respectively) Preferred Stock, Value, Issued Stock Options Outstanding, Shares, Forfeited / Expired Stock Options Outstanding, Shares, Forfeited / Expired Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures and Expirations in Period Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures and Expirations in Period, Total Purchase of equipment not yet paid at end of period Capital Expenditures Incurred but Not yet Paid Finite-Lived Intangible Assets, Accumulated Amortization Patents, amortization Convertible notes payable current and noncurrent. Convertible Notes Payable Current And Noncurrent Net Principal Balance Customer one. Customer One [Member] Customer One City Area Code City Area Code Warrants and Rights Outstanding, Measurement Input Fair value of warrants Liabilities, Current Total current liabilities Inventory, Net Inventories, net Total Stock Issued During Period, Shares, Conversion of Convertible Securities Conversion of shares (in shares) Organization, Consolidation and Presentation of Financial Statements [Abstract] Local Phone Number Local Phone Number Preferred Stock, Shares Outstanding Preferred stock, shares outstanding (in shares) Preferred Stock, Shares Outstanding, Beginning Balance Preferred Stock, Shares Outstanding, Ending Balance Additional Paid in Capital Additional paid in capital Additional Paid in Capital, Total Commitments and Contingencies Disclosure [Abstract] Employee retention credit Employee Retention Tax Credit Employee retention tax credit. Shares issued Shares, Issued Ending balance (in shares) Beginning balance (in shares) Preferred stock, conversion, required common share value Preferred Stock, Conversion, Required Common Share Value Preferred stock, conversion, required common share value. Debt Issuance Costs, Net, Total Debt Issuance Costs, Net Origination fees paid Summary of Asset Price Allocation Asset Acquisition [Table Text Block] Standard Product Warranty Accrual, Noncurrent Accrued warranty liability Operating Lease, Liability, Current Current portion of operating lease liability Offering shares of common stock under at the market offering program. Offering Shares of Common Stock Under at the Market Offering Program Aggregate sales price of common stock Foreign Currency Translation Adjustment Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Adjustment, Net of Tax Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Adjustment, Net of Tax, Total Debt Instrument, Interest Rate, Stated Percentage Stated interest rate Convertible Preferred Stock, Shares Issued upon Conversion Convertible preferred stock, shares issued upon conversion (in shares) Retained Earnings [Member] Accumulated Deficit Other Income/(Expense), Net Schedule of Other Nonoperating Income (Expense) [Table Text Block] Document Transition Report Document Transition Report Lessee, Operating Lease, Liability, to be Paid, Year Two 2026 Series J-1 Preferred Stock Series J1 Preferred Stock [Member] Series J-1 Preferred Stock Cash payble. Cash Payable Cash payable Stock Options Outstanding, Weighted Average Exercise Price, Exercised Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Minimum [Member] Minimum Common Stock [Member] Common Stock Aggregate intrinsic value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Aggregate Intrinsic Value Milestone and engineering arrangement. Milestone And Engineering Arrangement [Member] Milestone and Engineering Arrangement Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value Non-vested, Weighted Average Grant Date Fair Value, Beginning Balance Non-vested, Weighted Average Grant Date Fair Value, Ending Balance Additional Paid-in Capital [Member] Additional Paid-In Capital Proceeds from Short-Term Debt, Total Proceeds from Short-Term Debt Net proceeds Proceeds from bridge loans Return of equipment purchased on credit Return of equipment purchased on credit. Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Adjustments to reconcile net income (loss) to cash used in operating activities: Conversion price percentage Conversion Price Percentage Conversion price percentage. Lessee, Operating Lease, Liability, to be Paid, Year One 2025 Other Assets, Noncurrent Other non-current assets Total Other Assets Working capital deficit. Working Capital Deficit Working capital deficit Sabby Convertible Note. Sabby Convertible Note [Member] Sabby Tube solar AG. Tubesolar A G [Member] TubeSolar Schedule of Inventory, Current [Table Text Block] Schedule of Inventory, Net of Reserves Joint venture Joint Venture [Member] JV Entity Common Stock, Shares Outstanding Entity Common Stock, Shares Outstanding Debt Instrument, Convertible, Conversion Ratio Convertible discount rate Series one A preferred stock. Series One A Preferred Stock [Member] Series 1A Preferred Stock Scenario [Domain] Title and Position [Domain] Title of Individual Preferred Stock issuance cost Preferred Stock issuance cost Adjustments to Additional Paid in Capital, Stock Issued, Issuance Costs Common stock, $0.0001 par value, 500,000,000 authorized; 1,275,429 and 238,996 shares issued and outstanding, respectively Common Stock, Value, Issued Asset Acquisition, Date of Acquisition Agreement Date of asset acquisition agreement Asset Acquisition [Table] Series Z preferred stock. Series Z Preferred Stock [Member] Series Z Preferred Stock Loss on disposal of assets Gain (Loss) on Disposition of Assets Gain (Loss) on Disposition of Assets, Total Payment of convertible notes, cash payable, and other payable Repayments Of Convertible Notes Cash Payable And Other Payable Repayments of convertible notes cash payable and other payable. Other Nonoperating Income (Expense) [Abstract] Other Income/(Expense) Nanyang convertible notes. Nanyang Convertible Notes [Member] Nanyang Convertible Notes Operating Lease, Liability Operating Lease, Liability, Total Present value of lease liability Commitments and Contingencies Commitments and contingencies (Note 17) Sabby note. Sabby Note [Member] Sabby Note Percentage of gross proceeds from sale of Units. Percentage of gross proceeds from sale of Units Series J Preferred Stock [Member] Series J Preferred Stock [Member] Series J Preferred Stock Weighted Average Number of Shares Outstanding, Diluted Weighted Average Common Shares Outstanding (Diluted) Weighted Average Number of Shares Outstanding, Diluted, Total Significant Accounting Policies [Text Block] SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES Accounts Receivable, after Allowance for Credit Loss, Current Accounts receivable, net balance Accounts Receivable, after Allowance for Credit Loss, Current, Total Trade receivables, net of allowance of $0 and $0, respectively Unvested options expected to vest Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number Lessee, Operating Lease, Liability, to be Paid Total lease payments Increase (Decrease) in Inventories Inventories Increase (Decrease) in Inventories, Total Warrant repurchase agreements. Warrant Repurchase Agreements [Member] Warrant Repurchase Agreements Milestones receivable. Milestones Receivable Milestones receivable Concentration Risk Benchmark [Domain] Concentration Risk Benchmark Operating Costs and Expenses [Abstract] Costs and Expenses Entity Small Business Entity Small Business Debt Disclosure [Text Block] OTHER PAYABLE Increase decrease in accounts payable excluding related party. Increase Decrease In Accounts Payable Excluding Related Party Accounts payable Repayments of Debt Total repayment Notes paid Notes paid Common stock issued for services (in shares) Stock Issued During Period, Shares, Issued for Services Reverse stock split ratio Stockholders' Equity Note, Stock Split, Conversion Ratio Employees and directors member. Employees and Directors [Member] Employees and Directors Other Liabilities Disclosure [Text Block] OTHER PAYABLE Compensation Related Costs, Policy [Policy Text Block] Share-Based Compensation Total consideration paid Asset Acquisition, Consideration Transferred Asset Acquisition, Consideration Transferred, Total Purchase price paid Other Other income (expense) Other income (expense). Interest Expense, Excluding Warrant Liability Interest Expense Excluding Warrant Liability Interest expense Preferred Stock, Conversion, Required Common Share Price, Term Preferred Stock Conversion Required Common Share Price Term Preferred stock, conversion, required common share price, term Potential earnings from non recurring engineering contract fees. Potential Earnings From Non Recurring Engineering Contract Fees Potential earnings from non recurring engineering contract fees Net Cash Provided by (Used in) Financing Activities [Abstract] Financing Activities: Stock Options Outstanding, Weighted Average Exercise Price, Ending Balance Stock Options Outstanding, Weighted Average Exercise Price, Beginning Balance Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price Amortization of Debt Discount (Premium) Accretion of debt discount Amortization of debt discount Convertible Notes Payable, Noncurrent Non-current convertible notes, net Net Principal Balance Unsecured Debt [Member] Unsecured Debt Series Z preferred stock. Series Z Preferred Stock [Text Block] SERIES Z PREFERRED STOCK Gross proceeds from securities. Gross Proceeds From Securities Gross proceeds from securities ATM Agreement [Member] A T M Agreement [Member] ATM Agreement [Member] ATM Agreement Summary of convertible notes prepayment. Summary of Convertible Notes Prepayment [Table Text Block] Summary of Convertible Notes Prepayment Operating Lease, Weighted Average Remaining Lease Term Remaining lease term Description of stock option vesting Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Rights Second repurchase. Second Repurchase [Member] Second Repurchase Subsequent Events [Text Block] SUBSEQUENT EVENTS Conversions payable. Conversions payable Accounts Payable, Current Accounts payable Accounts Payable, Current, Total Debt Instrument, Principal [Roll Forward] Debt Instrument Principal Roll Forward Debt Instrument, Principal [Roll Forward] Preferred Stock, Dividend Issuance Term Preferred Stock Dividend Issuance Term Preferred stock, dividend issuance term Operating lease asset amortization. Operating Lease Asset Amortization Operating lease asset amortization Costs and Expenses Total Costs and Expenses Accounts Receivable, Allowance for Credit Loss, Current Allowance for doubtful accounts Government research and development. Government Research And Development [Member] Government Research and Development Increase (Decrease) in Accrued Liabilities Accrued expenses Increase (Decrease) in Accrued Liabilities, Total Debt instrument conversion payable amount Debt Instrument Conversion Payable Amount Debt instrument conversion payable amount. XML 8 R1.htm IDEA: XBRL DOCUMENT v3.24.3 Document and Entity Information - shares 9 Months Ended Sep. 30, 2024 Nov. 14, 2024 Cover [Abstract] Â Â Entity Registrant Name Ascent Solar Technologies, Inc. Â Entity Central Index Key 0001350102 Â Current Fiscal Year End Date --12-31 Â Entity Filer Category Non-accelerated Filer Â Entity Current Reporting Status Yes Â Document Type 10-Q Â Document Period End Date Sep. 30, 2024 Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q3 Â Amendment Flag false Â Entity File Number 001-32919 Â Entity Emerging Growth Company false Â Entity Small Business true Â Entity Shell Company false Â Entity Common Stock, Shares Outstanding Â 1,324,804 Entity Incorporation, State or Country Code DE Â Entity Tax Identification Number 20-3672603 Â Entity Address, Address Line One 12300 Grant Street Â Entity Address, City or Town Thornton Â Entity Address, State or Province CO Â Entity Address, Postal Zip Code 80241 Â Document Quarterly Report true Â Document Transition Report false Â Entity Interactive Data Current Yes Â City Area Code 720 Â Local Phone Number 872-5000 Â Title of 12(b) Security Common Â Trading Symbol ASTI Â Security Exchange Name NASDAQ Â X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei_CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter

period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 9 R2.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED BALANCE SHEETS - USD ($) Sep. 30, 2024 Dec. 31, 2023 Current Assets: Â Â Cash and cash equivalents $ 3,721,546 $ 1,048,733 Trade receivables, net of allowance of $0 and $0, respectively 4,275 0 Inventories, net 457,896 447,496 Prepaid and other current assets 132,319 39,279 Total current assets 4,316,036 1,535,508 Property, Plant and Equipment: 19,679,918 21,177,892 Accumulated depreciation (19,429,536) (20,131,008) Property, Plant and Equipment, net 250,382 1,046,884 Other Assets: Â Â Operating lease right-of-use assets, net 2,007,001 2,364,672 Patents, net of accumulated amortization of $179,603 and $173,387 respectively 47,762 53,978 Equity method investment 66,411 68,867 Other non-current assets 1,228,399 1,228,797 Total other assets 3,349,573 3,716,314 Total Assets 7,915,991 6,298,706 Current Liabilities: Â Â Accounts payable 449,841 579,237 Related party payables 11,539 4,231 Accrued expenses 459,905 1,354,159 Accrued payroll 396,029 160,477 Accrued professional services fees 207,704 849,282 Accrued interest 556,932 628,145 Current portion of operating lease liability 555,495 491,440 Conversions payable Â 1,089,160 Current portion of convertible notes, net Â 354,936 Bridge loan 315,744 Â Other payable Â 250,000 Total current liabilities 2,953,189 5,761,067 Long-Term Liabilities: Â Â Non-current operating lease liabilities 1,615,945 2,043,025 Accrued warranty liability 21,225 21,225 Total liabilities 4,590,359 7,825,317 Commitments and contingencies (Note 17) Stockholdersâ€™ Equity (Deficit): Â Â Series A preferred stock, $.0001 par value; 750,000 shares authorized; 48,100 and 48,100 shares issued and outstanding, respectively ($935,678 and $899,069 Liquidation Preference, respectively) 5 5 Common stock, $0.0001 par value, 500,000,000 authorized; 1,275,429 and 238,996 shares issued and outstanding, respectively 128 24 Additional paid in capital 493,468,895 480,942,860 Accumulated deficit (490,152,872) (482,478,436) Accumulated other comprehensive loss 9,476 8,936 Total stockholdersâ€™ equity (deficit) 3,325,632 (1,526,611) Total Liabilities and Stockholdersâ€™ Equity (Deficit) $ 7,915,991 $ 6,298,706 X - DefinitionAccrued Interest, Current + ReferencesNo definition available. + Details Name: asti_AccruedInterestCurrent Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionConversions payable current. + ReferencesNo definition available. + Details Name: asti_ConversionsPayableCurrent Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionNote payable excluding convertible note current. + ReferencesNo definition available. + Details Name: asti_NotePayableExcludingConvertibleNoteCurrent Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionRelated party payables current. + ReferencesNo definition available. + Details Name: asti_RelatedPartyPayablesCurrent Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedProfessionalFeesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14 + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI 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-Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB

-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B 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-Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI 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Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_AssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionShort-Term financing which is expected to be paid back relatively quickly, such as by a subsequent longer-term loan. Also called swing loan or bridge financing. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_BridgeLoan Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommitmentsAndContingencies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of the portion of long-term debt due within one year or the operating cycle if longer identified as Convertible Notes Payable. Convertible Notes Payable is a written promise to pay a note which can be exchanged for a specified amount of another, related security, at the option of the issuer and the holder. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ConvertibleNotesPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThis item represents the carrying amount on the entity's balance sheet of its investment in common stock of an equity method investee. This is not an indicator of the fair value of the investment, rather it is the initial cost adjusted for the entity's share of earnings and losses of the investee, adjusted for any distributions (dividends) and other than temporary impairment (OTTI) losses recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481664/323-10-45-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-25 + Details Name: us-gaap_EquityMethodInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -

Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef 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-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_Liabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) 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http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_PreferredStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -

Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount as of the balance sheet date of the aggregate standard product warranty liability that is expected to be paid after one year or beyond the normal operating cycle, if longer. Does not include the balance for the extended product warranty liability. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(5) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_StandardProductWarrantyAccrualNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 10 R3.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED BALANCE SHEETS (Parenthetical) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Allowance for doubtful accounts $ 0 $ 0 Patents, amortization $ 179,603 $ 173,387 Preferred stock, par value (in dollars per share) $ 0.0001 Â Preferred stock, shares authorized (in shares) 25,000,000 Â Common stock, par value (in dollars per share) $ 0.0001 $ 0.0001 Common stock, shares authorized (in shares) 500,000,000 500,000,000 Common stock, shares issued (in shares) 1,275,429 238,996 Common stock, shares outstanding (in shares) 1,275,429 238,996 Series A Preferred Stock Â Â Preferred stock, par value (in dollars per share) $ 0.0001 $ 0.0001 Preferred stock, shares authorized (in shares) 750,000 750,000 Preferred stock, shares issued (in shares) 48,100 48,100 Preferred stock, shares outstanding (in shares) 48,100 48,100 Preferred stock, liquidation preference $ 935,678 $ 899,069 X - DefinitionAmount of allowance for credit loss on accounts receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionValue of the difference between preference in liquidation and the par or stated values of the preferred shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_PreferredStockLiquidationPreferenceValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesAPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 11 R4.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME - USD ($) 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Total Revenues $ 8,550 $ 229,954 $ 41,893 $ 455,480 Costs and Expenses Â Â Â Â Costs of revenue 76,796 692,752 147,708 1,820,816 Research, development and manufacturing operations 603,534 344,942 1,716,766 2,832,956 Selling, general and administrative 1,216,976 1,407,493 3,888,455 4,178,146 Share-based compensation 354,410 139,067 799,345 2,104,378 Depreciation and amortization 17,730 23,723 57,139 73,947 Impairment loss Â Â 524,481 Â Total Costs and Expenses 2,269,446 2,607,977 7,133,894 11,010,243 Loss from Operations (2,260,896) (2,378,023) (7,092,001) (10,554,763) Other Income/(Expense) Â Â Â Â Other income/(expense), net 742,162 756,859 768,496 766,859 Warrant settlement (Note 15) 0 Â (743,462) Â Interest expense (170,838) (288,109) (604,473) (2,118,023) Total Other Income/(Expense) 571,324 468,750 (579,439) (1,351,164) Income/(Loss) on Equity Method Investments (1,295) Â (2,996) (170) Net Income/(Loss) $ (1,690,867) $ (1,909,273) $ (7,674,436) $ (11,906,097) Net Income/(Loss) Per Share (Basic) $ (1.37) $ (404) $ (10.46) $ (6,640) Net Income/(Loss) Per Share (Diluted) $ (1.37) $ (404) $ (10.46) $ (6,640) Weighted Average Common Shares Outstanding (Basic) 1,232,242 4,732 733,855 3,548 Weighted Average Common Shares Outstanding (Diluted) 1,232,242 4,732 733,855 3,548 Other Comprehensive Income/(Loss) Â Â Â Â Foreign currency translation gain/(loss) $ 2,774 $ 19,940 $ 540 $ 21,810 Net Comprehensive Income/(Loss) (1,688,093) (1,889,333) (7,673,896) (11,884,287) Products Â Â Â Â Total Revenues $ 8,550 209,496 $ 41,893 395,106 Milestone and engineering Â Â Â Â Total Revenues Â $ 20,458 Â $ 60,374 X - DefinitionInterest Expense, Excluding Warrant Liability + ReferencesNo definition available. + Details Name: asti_InterestExpenseExcludingWarrantLiability Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionWarrant settlement amount. + ReferencesNo definition available. + Details Name: asti_WarrantSettlementAmount Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expense for award under share-

based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5 + Details Name: us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionCost of product sold and service rendered, excluding depreciation, depletion, and amortization. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostOfGoodsAndServiceExcludingDepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionTotal costs of sales and operating expenses for the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostsAndExpenses Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe current period expense charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_DepreciationAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate amount of write-downs for impairments recognized during the period for long-lived assets held for abandonment, exchange or sale. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-15 + Details Name: us-gaap_ImpairmentOfLongLivedAssetsToBeDisposedOf Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of income (loss) for proportionate share of equity method investee's income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481664/323-10-45-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(13)(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromEquityMethodInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI

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946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI 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-Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_NonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OperatingCostsAndExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax, before reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (a) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481839/830-10-45-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482014/830-20-35-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-12 + Details Name: us-gaap_OtherComprehensiveIncomeForeignCurrencyTransactionAndTranslationGainLossArisingDuringPeriodNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherNonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_SellingGeneralAndAdministrativeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asti_MilestoneAndEngineeringMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 12 R5.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY (DEFICIT) - USD ($) Total L1 Convertible Note Sabby Note Preferred Stock Cumulative Effect, Period of Adoption, Adjusted Balance [Member] Preferred Stock Series A Preferred Stock Preferred Stock Series 1B Preferred Stock Common Stock Common Stock L1 Convertible Note Common Stock Sabby Note Additional Paid-In Capital Additional Paid-In Capital L1 Convertible Note Additional Paid-In Capital Sabby Note Accumulated Deficit Other Accumulated Comprehensive Income (Loss) Beginning balance at Dec. 31, 2022 $ 899,298 Â Â Â $ 5 Â $ 21 Â Â $ 448,343,158 Â Â $ (447,427,862) $ (16,024) Beginning balance (in shares) at Dec. 31, 2022 Â Â Â Â 48,100 Â 205,746 Â Â Â Â Â Â Â Conversion of shares Â $ 1,240,818 $ 2,123,649 Â Â Â Â Â Â Â $ 1,240,818 $ 2,123,649 Â Â Conversion of shares (in shares) Â Â Â Â Â Â Â 452 631 Â Â Â Â Â Share-based

compensation 1,965,311 Â Â Â Â Â Â Â Â 1,965,311 Â Â Â Â Proceeds from issuance of Series 1B Preferred Stock 900,000 Â Â Â Â Â Â Â Â 900,000 Â Â Â Â Proceeds from issuance of Series 1B Preferred Stock (in shares) Â Â Â Â Â 900 Â Â Â Â Â Â Â Â Preferred Stock issuance cost (20,000) Â Â Â Â Â Â Â Â (20,000) Â Â Â Â Common stock issued for services 92,750 Â Â Â Â Â Â Â Â 92,750 Â Â Â Â Common stock issued for services (in shares) Â Â Â Â Â 15 Â Â Â Â Â Â Â Â Down round deemed dividend Â Â Â Â Â Â Â Â 11,653,986 Â Â (11,653,986) Â Net Income (Loss) (9,996,824) Â Â Â Â Â Â Â Â Â Â Â Â (9,996,824) Â Foreign Currency Translation Adjustment 1,870 Â Â Â Â Â Â Â Â Â Â Â Â 1,870 Ending balance at Jun. 30, 2023 (2,793,128) Â Â Â $ 5 Â $ 21 Â Â 466,299,672 Â Â (469,078,672) (14,154) Ending balance (in shares) at Jun. 30, 2023 Â Â Â Â 48,100 900 206,844 Â Â Â Â Â Â Beginning balance at Dec. 31, 2022 899,298 Â Â Â $ 5 Â $ 21 Â Â 448,343,158 Â Â (447,427,862) (16,024) Beginning balance (in shares) at Dec. 31, 2022 Â Â Â Â 48,100 Â 205,746 Â Â Â Â Â Â Â Â Net Income (Loss) (11,906,097) Â Â Â Â Â Â Â Â Â Â Â Â Ending balance at Sep. 30, 2023 (2,906,812) Â Â Â $ 5 Â $ 21 Â Â 468,075,321 Â Â (470,987,945) 5,786 Ending balance (in shares) at Sep. 30, 2023 Â Â Â Â 48,100 900 208,648 Â Â Â Â Â Â Â Â Beginning balance at Jun. 30, 2023 (2,793,128) Â Â Â $ 5 Â $ 21 Â Â 466,299,672 Â Â (469,078,672) (14,154) Beginning balance (in shares) at Jun. 30, 2023 Â Â Â Â 48,100 900 206,844 Â Â Â Â Â Â Conversion of shares Â (603,657) $ 151,949 Â Â Â Â Â Â Â (603,657) $ 151,949 Â Â Conversion of shares (in shares) Â Â Â Â Â Â Â 1,063 741 Â Â Â Â Â Prepayment of Common Stock purchase 2,088,290 Â Â Â Â Â Â Â Â 2,088,290 Â Â Â Â Share-based compensation 139,067 Â Â Â Â Â Â Â Â 139,067 Â Â Â Â Net Income (Loss) (1,909,273) Â Â Â Â Â Â Â Â Â Â Â Â (1,909,273) Â Foreign Currency Translation Adjustment 19,940 Â Â Â Â Â Â Â Â Â Â Â Â 19,940 Ending balance at Sep. 30, 2023 (2,906,812) Â Â Â $ 5 Â $ 21 Â Â 468,075,321 Â Â (470,987,945) 5,786 Ending balance (in shares) at Sep. 30, 2023 Â Â Â Â 48,100 900 208,648 Â Â Â Â Â Â Â Â Beginning balance at Dec. 31, 2023 (1,526,611) Â Â $ 5 Â Â $ 24 Â Â 480,942,860 Â Â (482,478,436) 8,936 Beginning balance (in shares) at Dec. 31, 2023 Â Â Â 48,100 Â Â 238,996 Â Â Â Â Â Â Â Conversion of shares Â $ 1,256,692 Â Â Â Â Â $ 3 Â Â $ 1,256,689 Â Â Â Conversion of shares (in shares) Â Â Â Â Â Â Â 24,118 Â Â Â Â Â Â Â Sale of common stock 4,455,240 Â Â Â Â Â $ 15 Â Â 4,455,225 Â Â Â Â Sale of common stock (in shares) Â Â Â Â Â Â Â 151,795 Â Â Â Â Â Â Â Â Exercise of prefunded warrants Â Â Â Â Â Â $ 22 Â Â (22) Â Â Â Â Exercise of prefunded warrants (in shares) Â Â Â Â Â Â 218,775 Â Â Â Â Â Â Â Share-based compensation 429,983 Â Â Â Â Â Â Â Â 429,983 Â Â Â Â Share-based compensation (in shares) Â Â Â Â Â Â 800 Â Â Â Â Â Â Â Proceeds from sale on ATM facility, net of expenses 8,341,220 Â Â Â Â Â Â Â $ 55 Â Â 8,341,165 Â Â Â Â Proceeds from sale on ATM facility, net of expenses (in shares) Â Â Â Â Â Â 553,427 Â Â Â Â Â Â Â Common stock issued to settle liabilities 38,500 Â Â Â Â Â Â Â Â 38,500 Â Â Â Â Common stock issued to settle liabilities (in shares) Â Â Â Â Â Â 3,500 Â Â Â Â Â Â Â Warrant repurchase (3,600,000) Â Â Â Â Â Â Â Â (3,600,000) Â Â Â Â Warrant settlement 743,459 Â Â Â Â Â Â Â Â 743,459 Â Â Â Â Net Income (Loss) (5,983,569) Â Â Â Â Â Â Â Â Â Â Â Â (5,983,569) Â Foreign Currency Translation Adjustment (2,234) Â Â Â Â Â Â Â Â Â Â Â Â (2,234) Ending balance at Jun. 30, 2024 4,152,680 Â Â Â $ 5 Â $ 119 Â Â 492,607,859 Â Â (488,462,005) 6,702 Ending balance (in shares) at Jun. 30, 2024 Â Â Â Â 48,100 Â 1,191,411 Â Â Â Â Â Â Â Beginning balance at Dec. 31, 2023 $ (1,526,611) Â Â $ 5 Â Â $ 24 Â Â 480,942,860 Â Â (482,478,436) 8,936 Beginning balance (in shares) at Dec. 31, 2023 Â Â Â 48,100 Â Â 238,996 Â Â Â Â Â Â Â Exercise of prefunded warrants (in shares) 211,623 Â Â Â Â Â Â Â Â Â Â Â Â Net Income (Loss) $ (7,674,436) Â Â Â Â Â Â Â Â Â Â Â Â Ending balance at Sep. 30, 2024 3,325,632 Â Â Â $ 5 Â $ 128 Â Â 493,468,895 Â Â (490,152,872) 9,476 Ending balance (in shares) at Sep. 30, 2024 Â Â Â Â 48,100 Â 1,275,429 Â Â Â Â Â Â Â Beginning balance at Jun. 30, 2024 4,152,680 Â Â Â $ 5 Â $ 119 Â Â 492,607,859 Â Â (488,462,005) 6,702 Beginning balance (in shares) at Jun. 30, 2024 Â Â Â Â 48,100 Â 1,191,411 Â Â Â Â Â Â Â Share-based compensation 354,395 Â Â Â Â Â Â Â Â 354,395 Â Â Â Â Share-based compensation (in shares) Â Â Â Â Â Â 15 Â Â Â Â Â Â Â Â Proceeds from sale on ATM facility, net of expenses 506,650 Â Â Â Â Â Â Â $ 9 Â Â 506,641 Â Â Â Proceeds from sale on ATM facility, net of expenses (in shares) Â Â Â Â Â Â 84,003 Â Â Â Â Â Â Â Â Net Income (Loss) (1,690,867) Â Â Â Â Â Â Â Â Â Â Â Â (1,690,867) Â Foreign Currency Translation Adjustment 2,774 Â Â Â Â Â Â Â Â Â Â Â Â 2,774 Ending balance at Sep. 30, 2024 $ 3,325,632 Â Â Â $ 5 Â $ 128 Â Â $ 493,468,895 Â Â $ (490,152,872) $ 9,476 Ending balance (in shares) at Sep. 30, 2024 Â Â Â Â 48,100 Â 1,275,429 Â Â Â Â Â Â Â X - DefinitionAdjustments to additional paid in capital prepayment of common stock purchase. + ReferencesNo definition available. + Details Name: asti_AdjustmentsToAdditionalPaidInCapitalPrepaymentOfCommonStockPurchase Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAdjustments to additional paid in capital warrant repurchased. + ReferencesNo definition available. + Details Name: asti_AdjustmentsToAdditionalPaidInCapitalWarrantRepurchased Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAdjustments to additional paid in capital warrant settlement. + ReferencesNo definition available. + Details Name: asti_AdjustmentsToAdditionalPaidInCapitalWarrantSettlement Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAdjustments to down round deemed dividend. + ReferencesNo definition available. + Details Name: asti_AdjustmentsToDownRoundDeemedDividend Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionConversion of prefunded warrants amount. + ReferencesNo definition available. + Details Name: asti_ConversionOfPrefundedWarrantsAmount Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPre-funded warrants were exercised into common stock. + ReferencesNo definition available. + Details Name: asti_PreFundedWarrantsWereExercisedIntoCommonStock Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock issued during period share of common stock. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodShareOfCommonStock Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock issued during period, shares, issued to settle liabilities. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodSharesIssuedToSettleLiabilities Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock issued during period shares on ATM facility. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodSharesOnAtmFacility Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock issued during period, value, issued to settle liabilities. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodValueIssuedToSettleLiabilities Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued during period value of common stock. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodValueOfCommonStock Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued during period value on ATM facility. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodValueOnAtmFacility Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 - SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of decrease in additional paid in capital (APIC) resulting from direct costs associated with issuing stock. Includes, but is not limited to, legal and accounting fees and direct costs associated with stock issues under a shelf registration. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalStockIssuedIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (a) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details Name: us-gaap_OtherComprehensiveIncomeLossForeignCurrencyTransactionAndTranslationAdjustmentNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type:

duration X - DefinitionNumber of shares of stock issued as of the balance sheet date, including shares that had been issued and were previously outstanding but which are now held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2 + Details Name: us-gaap_SharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued during the period as a result of the conversion of convertible securities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_StockIssuedDuringPeriodSharesConversionOfConvertibleSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued in lieu of cash for services contributed to the entity. Number of shares includes, but is not limited to, shares issued for services contributed by vendors and founders. + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodSharesIssuedForServices Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe gross value of stock issued during the period upon the conversion of convertible securities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueConversionOfConvertibleSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionValue of stock issued in lieu of cash for services contributed to the entity. Value of the stock issued includes, but is not limited to, services contributed by vendors and founders. + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodValueIssuedForServices Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionEquity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 13 R6.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY (DEFICIT) (Parenthetical) - USD ($) 3 Months Ended 6 Months Ended Sep. 30, 2024 Jun. 30, 2024 Sale on ATM facility, net of expenses $ 36,194 $ 617,694 X - DefinitionThe cash outflow for cost incurred directly with the issuance of an equity security. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfStockIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 14 R7.htm IDEA: XBRL DOCUMENT v3.24.3 CONDENSED STATEMENTS OF CASH FLOWS - USD ($) 3 Months Ended 6 Months Ended 9 Months Ended 12 Months Ended Sep. 30, 2024 Sep. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Operating Activities: Â Â Â Â Â Â Â Net income/(loss) $ (1,690,867) $ (1,909,273) $ (5,983,569) $ (9,996,824) $ (7,674,436) $ (11,906,097) Â Adjustments to reconcile net income (loss) to cash used in operating activities: Â Â Â Â Â Â Â Depreciation and amortization Â Â Â Â 57,139 73,947 Â Share-based compensation Â Â Â Â 799,327 2,104,378 Â Stock issued for warrant settlement Â Â Â Â 743,459 Â Â Stock issued for services Â Â Â Â 38,500 92,750 Â Gain on lease modification Â Â Â Â Â (84,678) Â Loss on disposal of assets Â Â Â Â Â 77,210 Â Operating lease asset amortization Â Â Â Â 357,671 555,240 Â Amortization of debt discount Â Â Â Â 86,057 1,773,621 Â Loss on equity method investment 1,295 Â Â Â 2,996 170 Â Inventory reserve expense Â Â Â Â (35,173) 111,028 Â Impairment loss Â Â Â Â 524,481 Â Â Gain on settlement of liabilities, net Â Â Â Â (165,548) Â Â Gain on Swiss liabilities (Note 6) (541,021) Â Â Â (541,021) Â Â Other Â Â Â Â (14,949) Â Â Changes in operating assets and liabilities: Â Â Â Â Â Â Â Accounts receivable Â Â Â Â (4,275) 1,769 Â Inventories Â Â Â Â 24,773 (131,764) Â Prepaid expenses and other current assets Â Â Â Â (92,642) (27,139) Â Accounts payable Â Â Â Â (129,396) 705,657 Â Related party payable Â Â Â Â 7,308 (39,279) Â Operating lease liabilities Â Â Â Â (363,025) (541,519) Â Accrued interest Â Â Â Â 19,335 109,435 Â Accrued expenses Â Â Â Â (537,740) (204,127) Â Net cash used in operating activities Â Â Â Â (6,897,159) (7,329,398) Â Investing Activities: Â Â Â Â Â Â Â Payments on purchase of assets Â Â Â Â (421) (3,844,644) Â Patent activity costs Â Â Â Â Â (19,319) Â Net cash used in investing activities Â Â Â Â (421) (3,863,963) Â Financing Activities: Â Â Â Â Â Â Â Proceeds from issuance of Series 1B Preferred Stock Â Â Â Â Â 880,000 Â Proceeds from bridge loans Â Â Â Â 1,153,750 Â Â Repayment of bridge loans Â Â Â Â (904,803) Â Â Prepayment of equity offering Â Â Â Â Â 2,088,290 Â Proceeds from issuance of Common Stock Â Â Â Â 13,303,110 Â Â Warrant repurchase Â Â Â Â (3,600,000) Â Â Payment of convertible notes, cash payable, and other payable Â Â Â Â (381,664) (1,025,423) Â Net cash provided by (used in) financing activities Â Â Â Â 9,570,393 1,942,867 Â Effect of foreign exchange rate on cash Â Â Â Â Â 17,240 Â Net change in cash and cash equivalents Â Â Â Â 2,672,813 (9,233,254) Â Cash and cash equivalents at beginning of period Â Â Â $ 1,048,733 $ 11,483,018 1,048,733 11,483,018 $ 11,483,018 Cash and cash equivalents at end of period $ 3,721,546 $ 2,249,764 Â Â 3,721,546 2,249,764 $ 1,048,733 Non-Cash Transactions: Â Â Â Â Â Â Â Return of equipment purchased on credit Â Â Â Â Â (202,556) Â Exercise of prefunded warrants Â Â Â Â 22 Â Â Non-cash conversions of convertible notes to equity Â Â Â Â 1,256,692 2,912,759 Â Down round deemed dividend Â Â Â Â Â 11,653,986 Â Supplemental disclosure of cash flow information: Â Â Â Â Â Â Â Interest Â Â Â Â $ 398,000 $ 233,436 Â X - DefinitionAdjustments to inventory reserve expense. + ReferencesNo definition available. + Details Name: asti_AdjustmentsToInventoryReserveExpense Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionConversion Of Stock To Equity, Amount + ReferencesNo definition available. + Details Name: asti_ConversionOfStockToEquityAmount Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDown round deened dividend. + ReferencesNo definition available. + Details Name: asti_DownRoundDeenedDividend Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionExercise of Pre-funded warrants. + ReferencesNo definition available. + Details Name: asti_ExerciseOfPreFundedWarrants Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionGain loss on lease modification. + ReferencesNo definition available. + Details Name: asti_GainLossOnLeaseModification Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionIncrease decrease in accounts payable excluding related party. + ReferencesNo definition available. + Details Name: asti_IncreaseDecreaseInAccountsPayableExcludingRelatedParty Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionIncrease (Decrease) In Accrued Interest Payable + ReferencesNo definition available. + Details Name: asti_IncreaseDecreaseInAccruedInterestPayable Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionOperating lease asset amortization. + ReferencesNo definition available. + Details Name: asti_OperatingLeaseAssetAmortization Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionOther. + ReferencesNo definition available. + Details Name: asti_Other Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPrepayment of equity offering. + ReferencesNo definition available. + Details Name: asti_PrepaymentOfEquityOffering Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionProceeds from payments to patent activity. + ReferencesNo definition available. + Details Name: asti_ProceedsFromPaymentsToPatentActivity Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionRepayments of convertible notes cash payable and other payable. + ReferencesNo definition available. + Details Name: asti_RepaymentsOfConvertibleNotesCashPayableAndOtherPayable Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionReturn of equipment purchased on credit. + ReferencesNo definition available. + Details Name: asti_ReturnOfEquipmentPurchasedOnCredit Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued for services. + ReferencesNo definition available. + Details Name: asti_StockIssuedForServices Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionStock issued for warrant settlement. + ReferencesNo definition available. + Details Name: asti_StockIssuedForWarrantSettlement Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. Alternate captions include noncash interest expense. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -

Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfDebtDiscountPremium Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22 + Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 230 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of gain (loss) on sale or disposal of assets, including but not limited to property plant and equipment, intangible assets and equity in securities of subsidiaries or equity method investee. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnDispositionOfAssets1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of gain (loss) recognized in settlement of litigation and insurance claims. Excludes claims within an insurance entity's normal claims settlement process. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48 + Details Name: us-gaap_GainLossRelatedToLitigationSettlement Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDifference between the fair value of payments made and the carrying amount of debt which is extinguished prior to maturity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-4 + Details Name: us-gaap_GainsLossesOnExtinguishmentOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount of write-downs for impairments recognized during the period for long-lived assets held for abandonment, exchange or sale. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-15 + Details Name: us-gaap_ImpairmentOfLongLivedAssetsToBeDisposedOf Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of income (loss) for proportionate share of equity method investee's income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481664/323-10-45-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(13)(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromEquityMethodInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the obligations due for goods and services provided by the following types of related parties: a parent company and its subsidiaries, subsidiaries of a common parent, an entity and trust for the benefit of employees, such as pension and profit-sharing trusts that are managed by or under the trusteeship of the entities' management, an entity and its principal owners, management, or member of their immediate families, affiliates, or other parties with the ability to exert significant influence. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsPayableRelatedParties Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of expenses incurred but not yet paid. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccruedLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in obligation for operating lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -SubTopic 20 -Topic 842 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_IncreaseDecreaseInOperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the amount of outstanding money paid in advance for goods or services that bring economic benefits for future periods. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInPrepaidExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_InterestPaidNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4:

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http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB 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https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards 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-Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount paid by the entity to reacquire the right to purchase equity shares at a predetermined price, usually issued together with corporate debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfWarrants Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for purchases of and capital improvements on property, plant and equipment (capital expenditures), software, and other intangible assets. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480060/805-50-25-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireProductiveAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from issuance of preferred stocks identified as being convertible into another form of financial instrument, typically the entity's common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfConvertiblePreferredStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from a borrowing having initial term of repayment within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromShortTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash outflow for a borrowing having initial term of repayment within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfShortTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowElementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 15 R8.htm IDEA: XBRL DOCUMENT v3.24.3 Pay vs Performance Disclosure - USD ($) 3 Months Ended 6 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Pay vs Performance Disclosure Â Â Â Â Â Â Net Income (Loss) $ (1,690,867) $ (1,909,273) $ (5,983,569) $ (9,996,824) $ (7,674,436) $ (11,906,097) X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 16 R9.htm IDEA: XBRL DOCUMENT v3.24.3 Insider Trading Arrangements 3 Months Ended Sep. 30, 2024 Trading Arrangements, by Individual Â Rule 10b5-1 Arrangement Adopted false Rule 10b5-1 Arrangement Terminated false X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A + Details Name: ecd_TradingArrByIndTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 17 R10.htm IDEA: XBRL DOCUMENT v3.24.3 ORGANIZATION 9 Months Ended Sep. 30, 2024 Organization, Consolidation and Presentation of Financial Statements [Abstract] Â ORGANIZATION NOTE 1. ORGANIZATIONAscent Solar Technologies, Inc. (the â€œCompany") is focusing on integrating its photovoltaic ("PV") products into scalable and high value markets such as terrestrial and space power beaming, aerospace, satellites, near earth orbiting vehicles, fixed wing unmanned aerial vehicles (â€œUAVâ€), and agrivoltaics. The value proposition of Ascentâ€™s proprietary solar technology not only aligns with the needs of customers in these industries, but also overcomes many of the obstacles other solar technologies face in these unique markets. Ascent has the capability to design and develop finished products for end users in these areas as well as collaborate with strategic partners to design and develop custom integrated solutions for products like fixed-wing UAVs. Ascent sees significant overlap of the needs of end users across some of these industries and can achieve economies of scale in sourcing, development, and production in commercializing products for these customers.On August 14, 2024, the Company effected a reverse stock split of the Companyâ€™s common stock at a ratio of one-for-one hundred (the â€œReverse Stock Splitâ€). The Companyâ€™s common stock began trading on a split-adjusted basis on August 15, 2024. Stockholders also received one whole share of common stock in lieu of a fractional share and no fractional shares were issued. All shares and per share amounts in the unaudited condensed financial statements and accompanying notes have been retroactively adjusted to give effect to the Reverse Stock Split. X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for organization, consolidation and basis of presentation of financial statements disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480424/946-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480424/946-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContentReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205/tableOfContent + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 18 R11.htm IDEA: XBRL DOCUMENT v3.24.3 BASIS OF PRESENTATION 9 Months Ended Sep. 30, 2024 Accounting Policies [Abstract] Â BASIS OF PRESENTATION NOTE 2. BASIS OF PRESENTATIONThe accompanying, unaudited, condensed financial statements have been derived from the accounting records of the Company as of September 30, 2024, and December 31, 2023, and the results of operations for the three and nine months ended September 30, 2024, and 2023. The accompanying, unaudited, condensed financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and in accordance with the instructions to Form 10-Q and Article 8 of Regulation S-X. Accordingly, these interim financial statements do not include all of the information and footnotes typically found in U.S. GAAP audited annual financial statements. In the opinion of management, all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair statement have been included. The Condensed Balance Sheet at December 31, 2023, has been derived from the audited financial statements as of that date but does not include all of the information and footnotes included in the Companyâ€™s Annual Report on Form 10-K for the year ended December 31, 2023. These condensed financial statements and notes should be read in conjunction with the financial statements and notes thereto included in the Companyâ€™s Annual Report on Form 10-K for the year ended December 31, 2023.The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Operating results for the three and nine months ended September 30, 2024, are not necessarily indicative of the results that may be expected for the year ending December 31, 2024. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the business description and basis of presentation concepts. Business description describes the nature and type of organization including but not limited to organizational structure as may be applicable to holding companies, parent and subsidiary relationships, business divisions, business units, business segments, affiliates and information about significant ownership of the reporting entity. Basis of presentation describes the underlying basis used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 275 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205/tableOfContent + Details Name: us-gaap_BusinessDescriptionAndBasisOfPresentationTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 19 R12.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES 9 Months Ended Sep. 30, 2024 Accounting Policies [Abstract] Â SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES NOTE 3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIESThe Companyâ€™s significant accounting policies were described in Note 2 to the audited financial statements included in the Companyâ€™s Annual Report on Form 10-K for the year ended December 31, 2023. There have been no significant changes to our accounting policies as of September 30, 2024.Revenue Recognition:Product revenue. The Company recognizes revenue for the sale of PV modules and other equipment sales at a point in time following the transfer of control of such products to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. For module and other equipment sales contracts that contain multiple performance obligations, the Company allocates the transaction price to each performance obligation identified in the contract based on relative standalone selling prices, or estimates of such prices, and recognizes the related revenue as control of each individual product is transferred to the customer.During the three months ended September 30, 2024 and 2023, the Company recognized product revenue of $8,550 and $209,496, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized product revenue of $41,893 and $395,106, respectively. Milestone and engineering revenue. Each milestone and engineering arrangement is a separate performance obligation. The transaction price is estimated using the most likely amount method and revenue is recognized as the performance obligation is satisfied through achieving manufacturing, cost, or engineering targets. During the three months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $20,458, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $60,374, respectively. Government contracts revenue. Revenue from government research and development contracts is generated under terms that are cost plus fee or firm fixed price. The Company generally recognizes this revenue over time using cost-based input methods, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs of the contract. In applying cost-based input methods of revenue recognition, the Company uses the actual costs incurred relative to the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize.Cost based input methods of revenue recognition are considered a faithful depiction of the Companyâ€™s efforts to satisfy long-term government research and development contracts and therefore reflect the performance obligations under such contracts. Costs incurred that do not contribute to satisfying the Companyâ€™s performance obligations are excluded from the input methods of revenue recognition as the amounts are not reflective of transferring control under the contract. Costs incurred towards contract completion may include direct costs plus allowable indirect costs and an allocable portion of the fixed fee. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.No government contract revenue was recognized during the three and nine months ended September 30, 2024 and 2023.Accounts Receivable. As of September 30, 2024 and December 31, 2023, the Company had an accounts receivable, net balance of $4,275 and $0, respectively. As of September 30, 2024 and December 31, 2023, the Company had an allowance for doubtful accounts of $0 and $0, respectively.Deferred revenue for the nine months ended September 30, 2024 was as follows: Â Balance as of January 1, 2024 $ 935 Â Additions Â 7,700 Â Recognized as revenue Â (7,700) Balance as of September 30, 2024 $ 935 Â Other Assets: Other assets is comprised of the following: Â Â September 30, Â Â December 31, Â Â Â 2024 Â Â 2023 Â Lease security deposit Â $ 625,000 Â Â $ 625,000 Â Spare machine parts Â Â 603,399 Â Â Â 603,797 Â Total Other Assets Â $ 1,228,399 Â Â $ 1,228,797 Â Other Income/(Expense), net: Other income/(expense), net is comprised as follows: Â Â Three months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â Â 769,983 Â Other Â Â Â - Â Â Â Â (13,124) Total Other Income/(Expense), net Â $ Â 742,162 Â Â $ Â 756,859 Â Â Â Â Â

financing is not obtained, the Company will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on the Company's future operations.As a result of the Companyâ€™s recurring losses from operations and the potential need for additional financing to fund its operating and capital requirements, there is uncertainty regarding the Companyâ€™s ability to maintain liquidity sufficient to operate its business effectively, which raises doubt as to the Companyâ€™s ability to continue as a going concern. Management cannot provide any assurances that the Company will be successful in accomplishing any of its plans. These unaudited condensed financial statements do not include any adjustments that might be necessary should the Company be unable to continue as a going concern. X - DefinitionLIQUIDITY AND CONTINUED OPERATIONS [Abstract] + ReferencesNo definition available. + Details Name: asti_LiquidityAndContinuedOperationsAbstract Namespace Prefix: asti_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionLIQUIDITY AND CONTINUED OPERATION + ReferencesNo definition available. + Details Name: asti_LiquidityAndContinuedOperationsTextBlock Namespace Prefix: asti_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 21 R14.htm IDEA: XBRL DOCUMENT v3.24.3 RELATED PARTY TRANSACTIONS 9 Months Ended Sep. 30, 2024 Related Party Transactions [Abstract] Â RELATED PARTY TRANSACTIONS NOTE 5. RELATED PARTY TRANSACTIONSIn September 2021, the Company and TubeSolar AG ("TubeSolar"), a former significant stakeholder in the Company, entered into a Long-Term and Joint Development Agreement ("JDA") where the Company would provide PV foils for use in TubeSolar's solar modules for agricultural photovoltaic applications. The Company and TubeSolar also jointly established Ascent Solar Technologies Germany GmbH (â€œAscent Germanyâ€), in which TubeSolar holds of 30% of the entity. Ascent Germany was established to operate a PV manufacturing facility in Germany that will produce and deliver PV Foils exclusively to TubeSolar. There were no Company contributions to Ascent Germany during the nine months ended September 30, 2024 and 2023.In June, 2023, TubeSolar filed an application for insolvency proceedings with the insolvency court. Since then, there has been no activity under the JDA and minimal activity in Ascent Germany. Management continues to monitor this situation. X - ReferencesNo definition available. + Details Name: us-gaap_RelatedPartyTransactionsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for related party transactions. Examples of related party transactions include transactions between (a) a parent company and its subsidiary; (b) subsidiaries of a common parent; (c) and entity and its principal owners; and (d) affiliates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-5Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-6Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 850 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483326/850-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(g)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(e)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 850 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/850/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 850 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483326/850-10-50-6Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 850 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483326/850-10-50-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 850 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483326/850-10-50-1 + Details Name: us-gaap_RelatedPartyTransactionsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R15.htm IDEA: XBRL DOCUMENT v3.24.3 ASSET ACQUISITION 9 Months Ended Sep. 30, 2024 Asset Acquisition [Abstract] Â ASSET ACQUISITION NOTE 6. SWITZERLAND ASSETSOn April 17, 2023, the Company entered into an Asset Purchase Agreement (the â€œAsset Purchase Agreementâ€) with Flisom AG (â€œSellerâ€), pursuant to which, among other things, the Company purchased certain assets relating to thin-film photovoltaic manufacture and production from Seller (collectively, the â€œAssetsâ€). The purchase price paid by the Company was $4,083,926 (including $1,283,926 of transaction costs). The Company also entered into a sublease agreement allowing the Company to use the manufacturing facility where the Assets are located. During the year ended December 31, 2023, Management concluded that these assets were impaired and recognized an impairment loss of $3,283,715. The remaining carrying value of the Assets, as of December 31, 2023, was $786,000. On April 1, 2024, the Company entered into an agreement with the manufacturing facility landlord (â€œLandlordâ€) and sold all but one piece of equipment from the Assets to the Landlord for 1 CHF and forgiveness of $221,519 in payables and any potential future claims the manufacturing facility Landlord may have. The carrying value of the Assets sold was $746,000. At March 31, 2024, the Company designated the Assets as assets held for sale as all of the following criteria have been met: (i) a formal commitment to a plan to sell a property has been made and exercised; (ii) the property is available for sale in its present condition; (iii) actions required to complete the sale of the property have been initiated; (iv) sale of the property is probable and we expect the sale will occur within one year; and (v) the property is being actively marketed for sale at a price that is reasonable given its current market value. Assets held for sale were recorded in Property, Plant and Equipment, net in the unaudited condensed balance sheets. Upon designation as an asset held for sale, the Company recorded the carrying value of the property at the lower of its carrying value or its estimated fair value, less estimated costs to sell, and depreciation of the property ceases. As the estimated fair value of $221,519 and the price the Company sold the Assets for is less than their carrying value, the Company recorded an impairment loss of $524,481. Upon completion of the sale, on April 1, 2024, the Company wrote off the remaining carrying value of the Assets and the payables to the Landlord. In September, 2023, Flisom filed for bankruptcy in Switzerland. In February, 2024, the Swiss bankruptcy administrator closed the bankruptcy proceedings due to a lack of assets unless a creditor demands that the bankruptcy proceedings be carried out within the specified period and makes an advance to cover the costs. The deadline for creditors to make their demand has lapsed and the bankruptcy proceedings remained closed. As the bankruptcy proceedings are closed, the Company reversed the Swiss liabilities and recognized a gain on extinguishment of liabilities of $541,021 in Other income/(expense) on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024. X - ReferencesNo definition available. + Details Name: us-gaap_AssetAcquisitionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for asset acquisition. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 15 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480123/805-50-15-3 + Details Name: us-gaap_AssetAcquisitionTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 23 R16.htm IDEA: XBRL DOCUMENT v3.24.3 PROPERTY, PLANT AND EQUIPMENT 9 Months Ended Sep. 30, 2024 Property, Plant and Equipment [Abstract] Â PROPERTY, PLANT AND EQUIPMENT NOTE 7. PROPERTY, PLANT AND EQUIPMENTThe following table summarizes property, plant and equipment as of September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Furniture, fixtures, computer hardware and Â Â Â computer software Â $ 468,588 Â Â $ 468,588 Â Manufacturing machinery and equipment Â Â 19,122,828 Â Â Â 20,661,222 Â Leasehold improvements Â Â 15,994 Â Â Â 15,995 Â Manufacturing machinery and equipment, Â Â Â in progress Â Â 72,508 Â Â Â 32,087 Â Depreciable property, plant and equipment Â Â 19,679,918 Â Â Â 21,177,892 Â Less: Accumulated depreciation and amortization Â Â (19,429,536) Â Â (20,131,008) Net property, plant and equipment Â $ 250,382 Â Â $ 1,046,884 Â Â Depreciation expense for the three months ended September 30, 2024 and 2023 was $16,832 and $18,931, respectively. Depreciation expense for the nine months ended September 30, 2024 and 2023 was $50,923 and $59,570, respectively. Depreciation expense is recorded under â€œDepreciation and amortization expenseâ€ in the unaudited Condensed Statements of Operations. X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/360/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 6 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 7 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-7 + Details Name: us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R17.htm IDEA: XBRL DOCUMENT v3.24.3 OPERATING LEASE 9 Months Ended Sep. 30, 2024 Leases [Abstract] Â OPERATING LEASE NOTE 8. OPERATING LEASEThe Companyâ€™s lease is primarily comprised of manufacturing and office space. This lease is classified and accounted for as an operating lease. The building lease term is for 88 months commencing on September 21, 2020 at a rent of $50,000 per month including taxes, insurance and common area maintenance until December 31, 2020. Beginning January 1, 2021, the rent adjusted to $80,000 per month on a triple net basis and shall increase at an annual rate of 3% per annum until December 31, 2027. Effective September 1, 2023, the lease was amended to reduce the rentable square feet from approximately 100,000 to approximately 75,000 square feet and the rent and tenant share of expenses were decreased in proportion to the reduction in the rentable square feet. As of September 30, 2024 and December 31, 2023, assets and liabilities related to the Companyâ€™s leases were as follows:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Operating lease right-of-use assets, net Â $ 2,007,001 Â Â $ 2,364,672 Â Current portion of operating lease liability Â Â 555,495 Â Â Â 491,440 Â Non-current portion of operating lease liability Â Â 1,615,945 Â Â Â 2,043,025 Â During the three months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $190,497 and $236,925, respectively. During the nine months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $571,492 and $770,836, respectively. Future maturities of the operating lease liability are as follows:Â Remainder of 2024 Â $ 192,283 Â 2025 Â Â 792,203 Â 2026 Â Â 815,969 Â 2027 Â Â 840,449 Â Total lease payments Â Â 2,640,904 Â Less amounts representing interest Â Â (469,464) Present value of lease liability Â $ 2,171,440 Â Â The remaining weighted average lease term and discount rate of the operating leases is 39 months and 7.0%, respectively. X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/842-20/tableOfContent + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R18.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES 9 Months Ended Sep. 30, 2024 Inventory Disclosure [Abstract] Â INVENTORIES NOTE 9. INVENTORIESInventories, net of reserves, consisted of the following at September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Raw materials Â $ 457,381 Â Â $ 445,721 Â Work in process Â Â 515 Â Â Â 1,775 Â Finished goods Â Â - Â Â Â - Â Total Â $ 457,896 Â Â $ 447,496 Â X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 330 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/330/tableOfContent + Details Name: us-gaap_InventoryDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R19.htm IDEA: XBRL DOCUMENT v3.24.3 BRIDGE LOAN 9 Months Ended Sep. 30, 2024 Debt Disclosure [Abstract] Â BRIDGE LOAN NOTE 10. BRIDGE LOANÂ Â PrincipalBalance1/1/2024 Â New loans Â Principal Payments Â PrincipalBalance9/30/2024 Â Discount Â Bridge Loan, net of discount Â Bridge Loans $ â€” Â $ 1,240,800 Â $ (904,803) $ 335,997 Â $ (20,253) $ 315,744 Â On February 27, 2024, the Company entered into a loan agreement ("Loan 1") with a lender ("Lender") for an aggregate principal amount of $375,000. The Company paid origination fees of $25,000 for net proceeds of $350,000. The discount is recorded as interest expense ratably over the term of the loan. Under Loan 1, the Company will make weekly payments of $19,420 for 28 weeks for a total repayment of $543,750. The Company also had an early repayment option where the Company would repay an aggregate of $478,125 if repaid by April 15, 2024. On April 17, 2024, the Company entered into a new loan agreement ("Loan 2") with the Lender. Under Loan 2, the Company borrowed an aggregate principal amount of $685,000, incurred origination fees of $34,250, and repaid the outstanding balance of Loan 1 of $428,310 for net proceeds of $222,440. Under Loan 2, the Company will make weekly payments of $31,000 for 32 weeks for a total repayment of $993,250. This loan is secured by a lien on the Company's assets.As of September 30, 2024, principal and interest payable on Loan 2 was $248,953 and $3,451, respectively. The Company also recognized $139,233 and $499,272 in interest expense during the three and nine months ended September 30, 2024, respectively.On April 1 and 2, 2024, the Company closed two loan agreements with a second lender ("Lender 2") for an aggregate principal amount of $180,800. These loans have an original issuance discount of $20,800 for net proceeds of $160,000. The Company will repay a total of $202,496 under these loans. The loans mature on January 1, 2025 and are payable in monthly installments as defined in the loan agreements. Upon a default event, outstanding principal and interest payable is convertible into Company stock at a 25% discount; however, the conversion price cannot be below $25.At September 30, 2024, principal and interest payable on these loans was $87,044 and $0, respectively. The Company also recognized $16,334 and $34,297 in interest expense during the three and nine months ended September 30, 2024, respectively.The carrying amount of these bridge loans approximate fair value due to its short maturity and because the Company's current borrowing rate does not materially differ from market rates for similar bank borrowings and is considered to be Level 2 input on the fair value hierarchy. X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for short-term debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/470/tableOfContent + Details Name: us-gaap_ShortTermDebtTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 27 R20.htm IDEA: XBRL DOCUMENT v3.24.3 OTHER PAYABLE 9 Months Ended Sep. 30, 2024 Debt Disclosure [Abstract] Â OTHER PAYABLE NOTE 11. OTHER PAYABLEOn June 30, 2017, the Company entered into an agreement with a vendor (â€œVendorâ€) to convert the balance of their account into a note payable in the amount of $250,000. The note bears interest of 5% per annum and matured on February 28, 2018. On September 25, 2024, the Company entered into a Note Termination and Release Agreement with the Vendor where the Company agreed to a one-time payment of $175,000 in exchange for the termination of the note payable. Upon payment, the remaining note and interest payable were forgiven and the Company recognized a gain on extinguishment of liabilities of $165,548 in Other income/(expense), net on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024. X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for other liabilities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI

https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405/tableOfContent + Details Name: us-gaap_OtherLiabilitiesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R21.htm IDEA: XBRL DOCUMENT v3.24.3 CONVERTIBLE NOTES 9 Months Ended Sep. 30, 2024 Debt Disclosure [Abstract] Â CONVERTIBLE NOTES NOTE 12. CONVERTIBLE NOTESThe following table provides a summary of the activity of the Company's secured, convertible, promissory notes:Â Â PrincipalBalance12/31/2023 Â Notes converted Â Notes paid Â Net PrincipalBalance9/30/2024 Â L1 Capital Global Opportunities Master Fund, Ltd $ 406,667 Â $ (400,000) $ (6,667) $ â€” Â During the nine months ended September 30, 2024, $400,000 of principal was converted for 6,184 shares of common stock. The note matured on June 19, 2024 and the Company paid the remaining principal and interest payable. During the nine months ended September 30, 2024 and 2023, the Company had interest expense of $463,397 and $2,070,669, respectively, of which, $19,260 and $1,773,633, respectively was due to accretion of discount on the note. During the three months ended September 30, 2023, the Company had interest expense of $271,162, of which, $231,536 was due to accretion of discount on the note. Conversions Payable represents the economic difference between the applicable conversion price of the notes payable and floor price of $65. This amount is payable either in shares valued as the VWAP on the conversion day or in cash. If the VWAP on the conversion day is less than the floor price, then the economic different between the conversion day VWAP and the floor price becomes payable in cash and is recorded as Cash payable on the unaudited Condensed Balance Sheet. During the nine months ended September 30, 2024, $1,279,782 of conversions payable was converted into 17,934 shares of common stock and $199,997 of Cash payable. The Cash payable was paid in April 2024 with the close of the Company's public offering (see Note 15). X - DefinitionConvertible notes. + ReferencesNo definition available. + Details Name: asti_ConvertibleNotesTextBlock Namespace Prefix: asti_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 29 R22.htm IDEA: XBRL DOCUMENT v3.24.3 SERIES A PREFERRED STOCK 9 Months Ended Sep. 30, 2024 Equity [Abstract] Â Series A Preferred Stock NOTE 13. SERIES A PREFERRED STOCKAs of January 1, 2024, there were 48,100 shares of Series A Preferred Stock outstanding. Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8% per annum when and if declared by the Board of Directors at its sole discretion. The dividends may be paid in cash or in the form of common stock (valued at 10% below market price, but not to exceed the lowest closing price during the applicable measurement period), at the discretion of the Board of Directors. The dividend rate on the Series A Preferred Stock is indexed to the Company's stock price and subject to adjustment. The Series A Preferred Stock may be converted into shares of common stock at the option of the Company if the closing price of the common stock exceeds $23.2 billion, adjusted for reverse stock splits, for twenty consecutive trading days, or by the holder at any time. The Company has the right to redeem the Series A Preferred Stock at a price of $8.00 per share, plus any accrued and unpaid dividends, plus the make-whole amount (if applicable). At September 30, 2024, the preferred shares were not eligible for conversion to common shares at the option of the Company. The holder of the preferred shares may convert to common shares at any time. After making adjustment for the Companyâ€™s prior reverse stock splits, all 48,100 outstanding Series A preferred shares are convertible into less than one common share. Upon any conversion (whether at the option of the Company or the holder), the holder is entitled to receive any accrued but unpaid dividends.Except as otherwise required by law (or with respect to approval of certain actions), the Series A Preferred Stock shall have no voting rights. Upon any liquidation, dissolution or winding up of the Company, after payment or provision for payment of debts and other liabilities of the Company, the holders of Series A Preferred Stock shall be entitled to receive, pari passu with any distribution to the holders of common stock of the Company, an amount equal to $8.00 per share of Series A Preferred Stock plus any accrued and unpaid dividends.As of September 30, 2024, there were 48,100 shares of Series A Preferred Stock outstanding and accrued and unpaid dividends of $550,879. X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for terms, amounts, nature of changes, rights and privileges, dividends, and other matters related to preferred stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContent + Details Name: us-gaap_PreferredStockTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 30 R23.htm IDEA: XBRL DOCUMENT v3.24.3 SERIES Z PREFERRED STOCK 9 Months Ended Sep. 30, 2024 Equity [Abstract] Â SERIES Z PREFERRED STOCK NOTE 14. SERIES Z PREFERRED STOCKOn June 20, 2024, the Company entered into a Securities Purchase Agreement (the â€œPurchase Agreementâ€) with Paul Warley, the Companyâ€™s Chief Executive Officer (the â€œPurchaserâ€) pursuant to which it issued and sold one (1) share (the â€œShareâ€) of the Companyâ€™s newly designated Series Z Preferred Stock, par value $0.0001 per share (the â€œSeries Z Preferred Stockâ€), to such Purchaser for an aggregate purchase price of $1,000. The Series Z Preferred Stock is recorded as Accrued Expenses in the unaudited Condensed Balance Sheets. The Share of Series Z Preferred Stock is not convertible into, or exchangeable for, shares of any other class or series of stock or other securities of the Company. The Share of Series Z Preferred Stock has no rights with respect to any distribution of assets of the Company, including upon a liquidation, bankruptcy, reorganization, merger, acquisition, sale, dissolution or winding up of the Company, whether voluntarily or involuntarily. The holder of the Share of Series Z Preferred Stock will not be entitled to receive dividends of any kind.The outstanding share of Series Z Preferred Stock shall be redeemed in whole, but not in part, at any time (i) if such redemption is ordered by the Board of Directors in its sole discretion or (ii) automatically upon the effectiveness of the amendment to the Certificate of Incorporation implementing a reverse stock split. Upon such redemption, the holder of the Series Z Preferred Stock will receive consideration of $1,000 in cash.The Share of Series Z Preferred Stock will have 180,000,000 votes and will vote together with the outstanding shares of the Companyâ€™s common stock as a single class exclusively with respect to any proposal to amend the Companyâ€™s Certificate of Incorporation to effect a reverse stock split of the Companyâ€™s common stock. The Share of Series Z Preferred Stock will be voted, without action by the holder, on any such reverse stock split proposal in the same proportion as shares of common stock are voted on such proposal (excluding any common shares that are not voted). The Series Z Preferred Stock otherwise has no voting rights, except as may otherwise be required by the General Corporation Law of the State of Delaware.On August 22, 2024, the Company redeemed the Series Z Preferred Stock and repaid the consideration received. X - DefinitionSeries Z preferred stock. + ReferencesNo definition available. + Details Name: asti_SeriesZPreferredStockTextBlock Namespace Prefix: asti_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 31 R24.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY (DEFICIT) 9 Months Ended Sep. 30, 2024 Equity [Abstract] Â STOCKHOLDERS' EQUITY (DEFICIT) NOTE 15. STOCKHOLDERSâ€™ EQUITY (DEFICIT)Common StockAt September 30, 2024, the Company had 500 million shares of common stock, $0.0001 par value, authorized for issuance. Each share of common stock has the right to one vote. As of September 30, 2024, the Company had 1,275,429 shares of common stock outstanding. The Company has not declared or paid any dividends related to the common stock during the three or nine months ended September 30, 2024 and 2023.During the nine months ended September 30, 2024, $400,000 of convertible debt principal was converted into 6,184 shares of common stock and $1,279,782 of conversions payable was converted into 17,934 shares of common stock. 3,500 shares of common stock was also issued to settle liabilities.As part of the December 19, 2022 Securities Purchase Contract (the â€œPurchase Contractâ€) with two institutional investors (the â€œInvestorsâ€), the Company issued to the Investors certain common stock warrants (the â€œWarrantsâ€). The Warrants have certain â€œfull ratchetâ€ anti-dilution adjustments that are triggered when the Company issues securities with a purchase or conversion, exercise or exchange price that is less than the exercise price of the Warrants then in effect at any time. Under the full ratchet anti-dilution adjustments, if the Company issues new securities at a price lower than the then applicable exercise price, (i) the exercise price is reduced to the lower new issue price and (ii) the number of warrant shares is proportionately increased. The Warrants have been previously adjusted following past issuances of Company securities. As of April 18, 2024, there were approximately 67 thousand Warrants exercisable at an exercise price of $147.27, that were repurchased and cancelled. See below for additional information.On March 6, 2024 and March 7, 2024, the Company entered into Warrant Repurchase Agreements (the â€œRepurchase Agreementsâ€), with each of the Investors. Pursuant to the Repurchase Agreements, if the Company closes a new capital raising transaction with gross proceeds in excess of $5 million (â€œQualified Financingâ€), the Company will repurchase the Warrants from the Investors for an aggregate purchase price of $3.6 million. Following the delivery of the purchase price to the Investors, the Investors will relinquish all rights, title and interest in the Warrants and assign the same to the Company, and the Warrants will be cancelled. On April 12, 2024, the Company entered into Amended and Restated Warrant Repurchase Agreements (the â€œAmendmentsâ€) with each of the Investors. Pursuant to the Amendments, on April 12, 2024, the Company and the Investors agreed to the following:â€¢ First Repurchase. On April 12, 2024, the Investors agree to convey, assign and transfer 50% of the Warrants to the Company in exchange for the payment by the Company for an aggregate purchase price of $1.8 million.â€¢Second Repurchase. On or before April 18, 2024, the Investors agree to convey, assign and transfer all remaining Warrants to the Company for an aggregate purchase price of $1.8 million. To extend the repurchase deadline, on April 12, 2024 the Company agreed to issue the Investors approximately 85,500 warrants in aggregate at an exercise price of $11.68 per warrant. These warrants will be exercisable at any time, and from time to time, in whole or in part, commencing six months from the closing of the offering and expiring five and a half (5.5) years from the date of issue, and will be exercisable for cash only unless an effective registration statement is not available at the time of exercise, in which case the warrants could be exercised on a cashless basis. The Company recorded an expense of $743,462 as Warrant settlement expense on the unaudited Condensed Statement of Operations. The expense represents the estimated fair value of the warrants at the issuance date and was determined using the Black Scholes model using the following inputs:Â Â Inputs Expected stock price volatility 154.5 % Dividend yield 0 % Risk-free interest rate 4.75 % Expected life of the warrants (in years) 2.75 Â On April 9, 2024 the Company entered into a placement agency agreement (the â€œPlacement Agent Agreementâ€) with Dawson James Securities Inc. (â€œDawson Jamesâ€) pursuant to which the Company engaged Dawson James as the placement agent for a registered public offering by the Company (the â€œOfferingâ€), of up to $6 million of shares of common stock or, in lieu of common stock, one prefunded warrant to purchase a share of common stock on a best efforts basis. The Company agreed to pay Dawson James a placement agent fee in cash equal to 8.00% of the gross proceeds from the sale of the shares of common stock; provided, however, that the placement agent fee shall equal 4% for investors that the Company directs to the Offering. The Company also agreed to reimburse Dawson James for all reasonable travel and other out-of-pocket expenses, including the reasonable fees of legal counsel, not to exceed $155,000. On April 18, 2024, the Company, completed closings under the Offering of common stock. Aggregate gross proceeds from all closings under the offering total $5.09 million before deducting offering expenses. In the completed closings, the Company issued an aggregate of (i) 151,795 common shares and (ii) 211,623 Pre-Funded Warrants. The Pre-Funded Warrants are immediately exercisable at a price of $0.0001 per share of common stock and only expire when such Pre-Funded warrants are fully exercised.As of September 30, 2024, all 211,623 of the Pre-Funded Warrants were exercised into common stock.The net proceeds from the closings of the Offering were utilized to retire approximately $200,000 of cash payable and $3.6 million to repurchase and cancel the Warrants that were both issued with our secured notes issued in December 2022. The repurchase of these warrants eliminated a substantial potential future issuance of common stock at a substantially reduced price. These warrants would have been adjusted in accordance with their terms to provide for the purchase of approximately 850 thousand shares of the Companyâ€™s common stock at an exercise price of $11.68 if they had not been repurchased by the Company. On May 16, 2024, the Company entered into an At The Market Offering Agreement (the â€œATM Agreementâ€) with H.C. Wainwright & Co., LLC, as sales agent (â€œWainwrightâ€), to sell shares of its common stock, par value $0.0001 per share (the â€œSharesâ€), having an aggregate sales price of up to $4,219,000, from time to time, through an â€œeat the market offeringâ€ program under which Wainwright will act as sales agent. The sales, if any, of the Shares made under the ATM Agreement will be made by any method permitted by law deemed to be an â€œeat the market offeringâ€ as defined in Rule 415 promulgated under the Securities Act of 1933, as amended (the â€œSecurities Actâ€), including sales made directly on or through the Nasdaq Capital Market or on any other existing trading market for the Companyâ€™s common stock. The Company will pay Wainwright a commission rate equal to 3.0% of the aggregate gross proceeds from each sale of Common Stock and will also reimburse Wainwright for certain specified expenses in connection with entering into the ATM Agreement, including certain fees and out-of-pocket expenses of its legal counsel. On May 23, 2024, the Company increased the amount available for sale under the ATM Agreement, up to an additional aggregate offering price of $4,344,000 and on May 30, 2024, the Company again increased the amount available for sale under the ATM Agreement by an additional aggregate offering price of $3,981,000.As of September 30, 2024, the Company sold 637,429 shares of common stock at an average price of $14.90 per share, resulting in aggregate gross proceeds of approximately $9.5 million. The Company anticipates that the at-the-market offering will continue throughout the next reporting period. Preferred StockAt September 30, 2024, the Company had 25 million shares of preferred stock, $0.0001 par value, authorized for issuance. Preferred stock may be issued in classes or series. Designations, powers, preferences, rights, qualifications, limitations and restrictions are determined by the Companyâ€™s Board of Directors. The following table summarizes the designations, shares authorized, and shares outstanding for the Companyâ€™s Preferred Stock as of September 30, 2024:Â Preferred Stock Series Designation Â SharesAuthorized Â Â SharesOutstanding Â Series A Â Â 750,000 Â Â Â 48,100 Â Series 1A Â Â 5,000 Â Â Â â€” Â Series B-1 Â Â 2,000 Â Â Â â€” Â Series B-2 Â Â 1,000 Â Â Â â€” Â Series 1B Â Â 900 Â Â Â â€” Â Series C Â Â 1,000 Â Â Â â€” Â Series D Â Â 3,000 Â Â Â â€” Â Series D-1 Â Â 2,500 Â Â Â â€” Â Series E Â Â 2,800 Â Â Â â€” Â Series F Â Â 7,000 Â Â Â â€” Â Series G Â Â 2,000 Â Â Â â€” Â Series H Â Â 2,500 Â Â Â â€” Â Series I Â Â 1,000 Â Â Â â€” Â Series J Â Â 1,350 Â Â Â â€” Â Series J-1 Â Â 1,000 Â Â Â â€” Â Series K Â Â 20,000 Â Â Â â€” Â Series Z Â Â 1 Â Â Â â€” Â WarrantsAs of September 30, 2024, there are approximately 143,000 outstanding warrants with exercise prices between $11.68 and $74,086 per share.Â Series A Preferred StockRefer to Note 13 for information on Series A Preferred Stock.Â Series Z Preferred StockRefer to Note 14 for information on Series Z Preferred Stock.Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, and K Preferred StockThere were no transactions involving the Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, or K during the three and nine months ended September 30, 2024. X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-6Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(e)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic

10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18 + Details Name: us-gaap_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 32 R25.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION 9 Months Ended Sep. 30, 2024 Share-Based Payment Arrangement [Abstract] Â SHARE-BASED COMPENSATION NOTE 16. SHARE-BASED COMPENSATIONIn January 2024, the Company granted 4,590 shares of restricted stock units to employees and directors. One third of these shares vested on March 31, 2024. The remaining unvested shares will vest pro rata on January 1, 2025 and January 1, 2026. The Company also granted members of our advisory board an aggregate of 200 shares of restricted stock units. The advisory shares originally vested pro rata on January 1, 2025 and January 1, 2026; however, were amended to vest pro rata on June 30, 2024 and January 1, 2025.The Company had a total of 3,191 unvested units as of September 30, 2024 that are expected to vest in the future. Total unrecognized share-based compensation expense from the remaining unvested restricted stock as of September 30, 2024 was approximately $855,000 and is expected to be recognized over 1.25 years. The following table summarizes non-vested restricted stock and the related activity as of September 30, 2024:Â Â Â Shares Â Â Weighted Average Grant Date Fair Value Â Non-vested at January 1, 2024 Â Â 19 Â Â $ 59,600 Â Granted Â Â 4,850 Â Â Â 75.87 Â Vested Â Â (1,658) Â Â 327.03 Â Forfeited Â Â (20) Â Â 77.00 Â Non-vested at September 30, 2024 Â Â 3,191 Â Â $ 502.35 Â The fair values of the respective vesting dates of RSUs were approximately $7,143 and $269,860 for the nine months ended September 30, 2024 and 2023, respectively.In August 2024, the Company granted 124,850 stock options terminating 10 years from the date of grant to employees, directors, and advisory board members. One third of these options vested on September 15, 2024. The remaining unvested options will vest pro rata on January 1, 2025 and January 1, 2026. The Company had a total of 83,220 unvested options as of September 30, 2024 that are expected to vest in the future. Total unrecognized share based compensation expense from the remaining unvested options as of September 30, 2024 was approximately $345,000 and is expected to be recognized over 2 years. The Company had approximately 41,630 exercisable options as of September 30, 2024. The following table summarizes options activity as of September 30, 2024:Â Â Â Shares Â Â Weighted Average Exercise Price Â Stock Options Outstanding at January 1, 2024 Â Â - Â Â $ - Â Granted Â Â 124,850 Â Â Â 4.15 Â Exercised Â Â - Â Â Â - Â Forfeited / Expired Â Â - Â Â Â - Â Stock Options Outstanding at September 30, 2024 Â Â 124,850 Â Â $ 4.15 Â The weighted average remaining contractual term for these options at September 30, 2024, was approximately 9.9 years. Based on the Black-Scholes option pricing model, the options estimated weighted average fair values at the date of grant of $4.15 per share. The fair values were estimated using the following weighted average assumptions: Â Inputs Â Expected stock price volatility Â 188.87 % Dividend yield Â 0 % Risk-free interest rate Â 3.64 % Expected life of the options (in years) Â 5.5 Â The Company utilized the simplified method for estimating the stock options granted as the Company has experienced significant changes in its business and the historical data may not provide a reasonable basis upon which to estimate expected term. X - DefinitionThe entire disclosure for share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/718/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 33 R26.htm IDEA: XBRL DOCUMENT v3.24.3 COMMITMENTS AND CONTINGENCIES 9 Months Ended Sep. 30, 2024 Commitments and Contingencies Disclosure [Abstract] Â COMMITMENTS AND CONTINGENCIES NOTE 17. COMMITMENTS AND CONTINGENCIESOn August 15, 2023, Wainwright filed an action against the Company in the New York State Supreme Court in New York County. The complaint alleges a breach by the Company of an investment banking engagement letter entered into in October 2021. The Wainwright engagement letter expired in April 2022 without any financing transaction having been completed. The complaint claims that Wainright is entitled, under a â€œtail provisionâ€, to an 8% fee and 7% warrant coverage on the Companyâ€™s $15 million secured convertible note financing. The complaint seeks damages of $1.2 million, 22 common stock warrants with a per share exercise price of $60,500, and attorney fees. On May 15, 2024, the Company and Wainwright reached a settlement agreement. The settlement did not have a material impact on our financial statements.The Company is subject to various legal proceedings, both asserted and unasserted, that arise in the ordinary course of business. The Company cannot predict the ultimate outcome of such legal proceedings or in certain instances provide reasonable ranges of potential losses. However, as of the date of this report, the Company believes that none of these claims will have a material adverse effect on its financial position or results of operations. In the event of unexpected subsequent developments and given the inherent unpredictability of these legal proceedings, there can be no assurance that the Companyâ€™s assessment of any claim will reflect the ultimate outcome, and an adverse outcome in certain matters could, from time to time, have a material adverse effect on the Companyâ€™s financial position or results of operations in particular quarterly or annual periods. X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R27.htm IDEA: XBRL DOCUMENT v3.24.3 SUBSEQUENT EVENTS 9 Months Ended Sep. 30, 2024 Subsequent Events [Abstract] Â SUBSEQUENT EVENTS NOTE 18. SUBSEQUENT EVENTS Subsequent to September 30, 2024, the Company sold 49,325 shares of common stock under the ATM Agreement at an average price of $2.87 per share, resulting in aggregate gross proceeds of approximately $141,400.On October 17, 2024, the Company entered into a securities purchase agreement with accredited investors for a convertible preferred stock financing for approximately $1.9 million of gross proceeds and will issue approximately 1,900 shares of Series 1C convertible preferred stock (â€œSeries 1C Preferred Stockâ€) at a purchase price of $1,000 per share. Through November 14, 2024, the Company received approximately $665,000 of gross proceeds and will receive the remaining balance during the fourth quarter. The Series 1C Preferred Stock is convertible into common stock at any time after April 17, 2025 at the option of the holder at an initial fixed conversion price of $2.50 per share of common stock; however, the holder may not convert any portion to the extent that the holder would beneficially own more than 4.99% of the Company's outstanding shares of Common Stock outstanding immediately after giving effect to the conversion.Holders of the Series 1C Preferred Stock will be entitled to dividends on the per share stated value of $1,000 in the amount of 10% per annum, payable quarterly. The dividend rate will increase to 15% if any of the Series 1C Preferred Stock remains outstanding on or after October 17, 2027. Unless the Company elects to pay dividends on the Series 1C Preferred Stock in cash, the Company will cumulate the dividends, in which case the accrued dividend amount shall be added to the stated value of each share of Series 1C Preferred Stock.If at any time the closing sale price of the Companyâ€™s common stock equals at least 300% of the conversion price for the most recent 20 consecutive trading days, the Company shall have the right to redeem all, but not less than all, of the Series 1C Preferred Stock then outstanding in cash at a price equal to 110% of the stated value of the shares being redeemed.Upon our liquidation, dissolution or winding up, holders of Series 1C Preferred Stock shall be entitled to receive in cash out of the assets of the Company, before any amount shall be paid to the holders of any of shares of common stock, an amount per share of Series 1C Preferred Stock equal to the greater of (A) 110% of the stated value of such preferred share and (B) the amount per share such holder would receive if such holder converted such preferred share into common stock immediately prior to the date of such payment.On any matter presented to the stockholders of the Company for their action or consideration at any meeting of stockholders of the Company (or by written consent of stockholders in lieu of meeting), each holder of outstanding shares of Series 1C Preferred Stock shall be entitled to cast the number of votes equal to the number of whole shares of common stock into which the outstanding shares of Series 1C Preferred Stock held by such holder are convertible as of the record date (but only after giving effect to the maximum percentage conversion limitations referred to above). Except as provided by law or by the other provisions of the Series 1C Preferred Stock, holders of Series 1C Preferred Stock shall vote together with the holders of common stock as a single class and on an as-converted to common stock basis. X - ReferencesNo definition available. + Details Name: us-gaap_SubsequentEventsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483399/855-10-50-2 + Details Name: us-gaap_SubsequentEventsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 35 R28.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Policies) 9 Months Ended Sep. 30, 2024 Accounting Policies [Abstract] Â Revenue Recognition Revenue Recognition:Product revenue. The Company recognizes revenue for the sale of PV modules and other equipment sales at a point in time following the transfer of control of such products to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. For module and other equipment sales contracts that contain multiple performance obligations, the Company allocates the transaction price to each performance obligation identified in the contract based on relative standalone selling prices, or estimates of such prices, and recognizes the related revenue as control of each individual product is transferred to the customer.During the three months ended September 30, 2024 and 2023, the Company recognized product revenue of $8,550 and $209,496, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized product revenue of $41,893 and $395,106, respectively. Milestone and engineering revenue. Each milestone and engineering arrangement is a separate performance obligation. The transaction price is estimated using the most likely amount method and revenue is recognized as the performance obligation is satisfied through achieving manufacturing, cost, or engineering targets. During the three months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $20,458, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $60,374, respectively. Government contracts revenue. Revenue from government research and development contracts is generated under terms that are cost plus fee or firm fixed price. The Company generally recognizes this revenue over time using cost-based input methods, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs of the contract. In applying cost-based input methods of revenue recognition, the Company uses the actual costs incurred relative to the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize.Cost based input methods of revenue recognition are considered a faithful depiction of the Companyâ€™s efforts to satisfy long-term government research and development contracts and therefore reflect the performance obligations under such contracts. Costs incurred that do not contribute to satisfying the Companyâ€™s performance obligations are excluded from the input methods of revenue recognition as the amounts are not reflective of transferring control under the contract. Costs incurred towards contract completion may include direct costs plus allowable indirect costs and an allocable portion of the fixed fee. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.No government contract revenue was recognized during the three and nine months ended September 30, 2024 and 2023.Accounts Receivable. As of September 30, 2024 and December 31, 2023, the Company had an accounts receivable, net balance of $4,275 and $0, respectively. As of September 30, 2024 and December 31, 2023, the Company had an allowance for doubtful accounts of $0 and $0, respectively.Deferred revenue for the nine months ended September 30, 2024 was as follows: Â Balance as of January 1, 2024 $ 935 Â Additions Â 7,700 Â Recognized as revenue Â (7,700) Balance as of September 30, 2024 $ 935 Â Other Assets: Other assets is comprised of the following: Â Â September 30, Â Â December 31, Â Â 2024 Â Â 2023 Â Lease security deposit Â $ 625,000 Â Â $ 625,000 Â Spare machine parts Â Â 603,399 Â Â Â 603,797 Â Total Other Assets Â $ 1,228,399 Â Â $ 1,228,797 Â Other Income/(Expense), net: Other income/(expense), net is comprised as follows: Â Â Three months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â - Â Employee retention credit Â Â - Â Â 769,983 Â Other Â Â Â - Â Â Â (13,124) Total Other Income/(Expense), net Â $ Â 742,162 Â Â $ Â 756,859 Â Â Â Â Â Â Â Â Â Â Nine months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ Â - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â 769,983 Â Other Â Â Â 26,334 Â Â Â Â (3,124) Total Other Income/(Expense), net Â $ Â 768,496 Â Â $ Â 766,859 Â Earnings Per Share Earnings per Share: Earnings per share (â€œEPSâ€) are the amount of earnings attributable to each share of common stock. Basic EPS has been computed by dividing income available to common stockholders by the weighted-average number of common shares outstanding during the period. Income available to common stockholders has been computed by deducting dividends accumulated for the period on cumulative preferred stock (whether or not earned) and deemed dividends due to down round financings from net income. For the nine months ended September 30, 2023, income available to common stockholders was adjusted for deemed dividends due to down round financings of $11,653,986 (See Note 10 in the Company's Annual Report on Form 10-K for the year ended December 31, 2023). Diluted earnings per share has been computed by dividing income available to common stockholders adjusted on an if-converted basis for the period by the weighted average number of common shares and potentially dilutive common share outstanding (which consist of warrants, options, restricted stock units and convertible securities using the if-converted or treasury stock method to the extent they are dilutive). Approximately 202 thousand and 11 thousand shares of dilutive shares were excluded from the three months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Approximately 128 thousand and 5 thousand shares of dilutive shares were excluded from the nine months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows:Â Â Â Three months ended Â Â Nine months ended Â Â Â September 30, 2023 Â Â September 30, 2023 Â Net Loss Â $ Â (1,909,273) Â $ Â

(11,906,097) Down round deemed dividend Â Â Â - Â Â Â Â (11,653,986) Net Loss attributable to common shareholders Â Â Â (1,909,273) Â Â Â (23,560,083) Earnings Per Share (Basic and Diluted) Â Â Â (404.00) Â Â Â (6,640.00) Recently Issued Accounting Policies Recently Issued Accounting PoliciesIn November 2023, the FASB issued ASU 2023-07, Segment Reporting: Improvement to Reportable Segment Disclosures ("ASU 2023-07"). ASU 2023-07 improves segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment, and contain other disclosure requirements. The amendments in ASU 2023-07 are effective for all public entities for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. Management is evaluating the impact of this ASU on the Company's financial statements.In December 2023, the FASB issued ASU 2023-09, Income Taxes: Improvements to Income Tax Disclosures ("ASU 2023-09"). ASU 2023-09 improves income tax disclosures by requiring public entities annually to (1) disclose specific categories in the rate reconciliation and (2) provide additional information for reconciling items that meet a quantitative threshold. ASU 2023-09 is effective for public entities for annual periods beginning after December 15, 2024. Entities are permitted to early adopt the standard for annual financial statements that have not yet been issued or made available for issuance. Management is evaluating the impact of this ASU on the Company's financial statements. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2 + Details Name: us-gaap_EarningsPerSharePolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for revenue from contract with customer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-19Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-18Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-18Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-20Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-20Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-20Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-20Reference 9: http://www.xbrl.org/2003/role/exampleRef -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (e) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-4Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI https://asc.fasb.org/606/tableOfContent + Details Name: us-gaap_RevenueFromContractWithCustomerPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 36 R29.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Tables) 9 Months Ended Sep. 30, 2024 Accounting Policies [Abstract] Â Deferred Revenue Deferred revenue for the nine months ended September 30, 2024 was as follows: Â Balance as of January 1, 2024 $ 935 Â Additions Â 7,700 Â Recognized as revenue Â (7,700) Balance as of September 30, 2024 $ 935 Â Other Assets Other Assets: Other assets is comprised of the following: Â Â September 30, Â Â December 31, Â Â Â 2024 Â Â 2023 Â Lease security deposit Â $ 625,000 Â Â $ 625,000 Â Spare machine parts Â Â 603,399 Â Â Â 603,797 Â Total Other Assets Â $ 1,228,399 Â Â $ 1,228,797 Â Other Income/(Expense), Net Other Income/(Expense), net: Other income/(expense), net is comprised as follows: Â Â Three months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â Â 769,983 Â Other Â Â Â - Â Â Â Â (13,124) Total Other Income/(Expense), net Â $ Â 742,162 Â Â $ Â 756,859 Â Â Â Â Â Â Â Â Â Â Â Â Nine months ended Â Â Â September 30, 2024 Â Â September 30, 2023 Â Gain on settlement of liabilities Â $ Â 165,548 Â Â $ - Â Swiss liabilities (Note 6) Â Â Â 541,021 Â Â Â Â - Â Interest income Â Â Â 35,593 Â Â Â Â - Â Employee retention credit Â Â Â - Â Â Â Â 769,983 Â Other Â Â Â 26,334 Â Â Â Â (3,124) Total Other Income/(Expense), net Â $ Â 768,496 Â Â $ Â 766,859 Â Net Loss Attributable to Common Shareholders Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows:Â Â Â Three months ended Â Â Nine months ended Â Â Â September 30, 2023 Â Â September 30, 2023 Â Net Loss Â $ Â (1,909,273) Â $ Â (11,906,097) Down round deemed dividend Â Â Â - Â Â Â Â (11,653,986) Net Loss attributable to common shareholders Â Â Â (1,909,273) Â Â Â (23,560,083) Earnings Per Share (Basic and Diluted) Â Â Â (404.00) Â Â Â (6,640.00) X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the type of arrangements and the corresponding amounts that comprise the current and noncurrent balance of deferred revenue as of the balance sheet date. + ReferencesNo definition available. + Details Name: us-gaap_DeferredRevenueByArrangementDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the carrying amounts of other assets. This disclosure includes other current assets and other noncurrent assets. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfOtherAssetsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of non-operating income or non-operating expense that may include amounts earned from dividends, interest on securities, gains (losses) on securities sold, equity earnings of unconsolidated affiliates, net gain (loss) on sales of business, interest expense and other miscellaneous income or expense items. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfOtherNonoperatingIncomeExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 37 R30.htm IDEA: XBRL DOCUMENT v3.24.3 PROPERTY, PLANT AND EQUIPMENT (Tables) 9 Months Ended Sep. 30, 2024 Property, Plant and Equipment [Abstract] Â Property, Plant and Equipment The following table summarizes property, plant and equipment as of September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Furniture, fixtures, computer hardware and Â Â Â computer software Â $ 468,588 Â Â $ 468,588 Â Manufacturing machinery and equipment Â Â 19,122,828 Â Â Â 20,661,222 Â Leasehold improvements Â Â 15,994 Â Â Â 15,995 Â Manufacturing machinery and equipment, Â Â Â in progress Â Â 72,508 Â Â Â 32,087 Â Depreciable property, plant and equipment Â Â 19,679,918 Â Â Â 21,177,892 Â Less: Accumulated depreciation and amortization Â Â (19,429,536) Â Â (20,131,008) Net property, plant and equipment Â $ 250,382 Â Â $ 1,046,884 Â X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 38 R31.htm IDEA: XBRL DOCUMENT v3.24.3 OPERATING LEASE (Tables) 9 Months Ended Sep. 30, 2024 Leases [Abstract] Â Schedule of Assets and Liabilities Related to Company's Leases As of September 30, 2024 and December 31, 2023, assets and liabilities related to the Companyâ€™s leases were as follows:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Operating lease right-of-use assets, net Â $ 2,007,001 Â Â $ 2,364,672 Â Current portion of operating lease liability Â Â 555,495 Â Â Â 491,440 Â Non-current portion of operating lease liability Â Â 1,615,945 Â Â Â 2,043,025 Â Schedule Future Maturities of Operating Lease Liability Future maturities of the operating lease liability are as follows:Â Remainder of 2024 Â $ 192,283 Â 2025 Â Â 792,203 Â 2026 Â Â 815,969 Â 2027 Â Â 840,449 Â Total lease payments Â Â 2,640,904 Â Less amounts representing interest Â Â (469,464) Present value of lease liability Â $ 2,171,440 Â X - DefinitionSchedule of assets and liabilities related to lease. + ReferencesNo definition available. + Details Name: asti_ScheduleOfAssetsAndLiabilitiesRelatedToLeaseTableTextBlock Namespace Prefix: asti_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 39 R32.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES (Tables) 9 Months Ended Sep. 30, 2024 Inventory Disclosure [Abstract] Â Schedule of Inventory, Net of Reserves Inventories, net of reserves, consisted of the following at September 30, 2024 and December 31, 2023:Â Â Â As ofSeptember 30, Â Â As ofDecember 31, Â Â Â 2024 Â Â 2023 Â Raw materials Â $ 457,381 Â Â $ 445,721 Â Work in process Â Â 515 Â Â Â 1,775 Â Finished goods Â Â - Â Â Â - Â Total Â $ 457,896 Â Â $ 447,496 Â X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483489/210-10-50-1 + Details Name: us-gaap_ScheduleOfInventoryCurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 40 R33.htm IDEA: XBRL DOCUMENT v3.24.3 BRIDGE LOAN (Tables) 9 Months Ended Sep. 30, 2024 Debt Disclosure [Abstract] Â Summary of Bridge Loan Â PrincipalBalance1/1/2024 Â New loans Â Principal Payments Â PrincipalBalance9/30/2024 Â Discount Â Bridge Loan, net of discount Â Bridge Loans $ â€” Â $ 1,240,800 Â $ (904,803) $ 335,997 Â $ (20,253) $ 315,744 Â X - DefinitionSummary of bridge loan. + ReferencesNo definition available. + Details Name: asti_SummaryOfBridgeLoanTableTextBlock Namespace Prefix: asti_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 41 R34.htm IDEA: XBRL DOCUMENT v3.24.3 CONVERTIBLE NOTES (Tables) 9 Months Ended Sep. 30, 2024 Debt Disclosure [Abstract] Â Schedule of Convertible Debt The following table provides a summary of the activity of the Company's secured, convertible, promissory notes:Â Â PrincipalBalance12/31/2023 Â Notes converted Â Notes paid Â Net PrincipalBalance9/30/2024 Â L1 Capital Global Opportunities Master Fund, Ltd $ 406,667 Â $ (400,000) $ (6,667) $ â€” Â X - DefinitionTabular disclosure of convertible debt instrument. Includes, but is not limited to, principal amount and amortized premium or discount. + ReferencesNo definition available. + Details Name: us-gaap_ConvertibleDebtTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 42 R35.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY (DEFICIT) (Tables) 9 Months Ended Sep. 30, 2024 Equity [Abstract] Â Schedule of Fair Value of Warrants The expense represents the estimated fair value of the warrants at the issuance date and was determined using the Black Scholes model using the following inputs:Â Â Inputs Expected stock price volatility 154.5 % Dividend yield 0 % Risk-free interest rate 4.75 % Expected life of the warrants (in years) 2.75 Â Schedule of Stock by Class The following table summarizes the designations, shares authorized, and shares outstanding for the Companyâ€™s Preferred Stock as of September 30, 2024:Â Preferred Stock Series Designation Â SharesAuthorized Â Â SharesOutstanding Â Series A Â Â 750,000 Â Â Â 48,100 Â Series 1A Â Â 5,000 Â Â Â â€” Â Series B-1 Â Â 2,000 Â Â Â â€” Â Series B-2 Â Â 1,000 Â Â Â â€” Â Series 1B Â Â 900 Â Â Â â€” Â Series C Â Â 1,000 Â Â Â â€” Â Series D Â Â 3,000 Â Â Â â€” Â Series D-1 Â Â 2,500 Â Â Â â€” Â Series E Â Â 2,800 Â Â Â â€” Â Series F Â Â 7,000 Â Â Â â€” Â Series G Â Â 2,000 Â Â Â â€” Â Series H Â Â 2,500 Â Â Â â€” Â Series I Â Â 1,000 Â Â Â â€” Â Series J Â Â 1,350 Â Â Â â€” Â Series J-1 Â Â 1,000 Â Â Â â€” Â Series K Â Â 20,000 Â Â Â â€” Â Series Z Â Â 1 Â Â Â â€” Â X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of input and valuation technique used to measure fair value and change in valuation approach and technique for each separate class of asset and liability measured on recurring and nonrecurring basis. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of an entity's stock, including par or stated value per share, number and dollar amount of share subscriptions, shares authorized, shares issued, shares outstanding, number and dollar amount of shares held in an employee trust, dividend per share, total dividends, share conversion features, par value plus additional paid in capital, the value of treasury stock and other information necessary to a fair presentation, and EPS information. Stock by class includes common, convertible, and preferred stocks which are not redeemable or redeemable solely at the option of the issuer. Includes preferred stock with

redemption features that are solely within the control of the issuer and mandatorily redeemable stock if redemption is required to occur only upon liquidation or termination of the reporting entity. If more than one issue is outstanding, state the title of each issue and the corresponding dollar amount; dollar amount of any shares subscribed but unissued and the deduction of subscriptions receivable there from; number of shares authorized, issued, and outstanding. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-5Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481142/505-10-45-2Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-10Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-8Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Section S99 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-1Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-6Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-7 + Details Name: us-gaap_ScheduleOfStockByClassTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 43 R36.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION (Tables) 9 Months Ended Sep. 30, 2024 Share-Based Payment Arrangement [Abstract] Â Summary of Non-vested Restricted Stock and Related Activity The following table summarizes non-vested restricted stock and the related activity as of September 30, 2024: Â Â Shares Â Â Weighted Average Grant Date Fair Value Â Non-vested at January 1, 2024 Â Â 19 Â Â $ 59,600 Â Granted Â Â 4,850 Â Â Â 75.87 Â Vested Â Â (1,658) Â Â 327.03 Â Forfeited Â Â (20) Â Â 77.00 Â Non-vested at September 30, 2024 Â Â 3,191 Â Â $ 502.35 Â Summary of Stock Options Activity The following table summarizes options activity as of September 30, 2024:Â Â Â Shares Â Â Weighted Average Exercise Price Â Stock Options Outstanding at January 1, 2024 Â Â - Â Â $ - Â Granted Â Â 124,850 Â Â Â 4.15 Â Exercised Â Â - Â Â Â - Â Forfeited / Expired Â Â - Â Â Â - Â Stock Options Outstanding at September 30, 2024 Â Â 124,850 Â Â $ 4.15 Â Summary of Weighted Average Assumptions Used to Estimate Fair Values The fair values were estimated using the following weighted average assumptions: Â Inputs Â Expected stock price volatility Â 188.87 % Dividend yield Â 0 % Risk-free interest rate Â 3.64 % Expected life of the options (in years) Â 5.5 Â X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the significant assumptions used during the year to estimate the fair value of stock options, including, but not limited to: (a) expected term of share options and similar instruments, (b) expected volatility of the entity's shares, (c) expected dividends, (d) risk-free rate(s), and (e) discount for post-vesting restrictions. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (f)(2) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 44 R37.htm IDEA: XBRL DOCUMENT v3.24.3 ORGANIZATION - Additional Information (Details) Aug. 14, 2024 Organization, Consolidation and Presentation of Financial Statements [Abstract] Â Reverse stock split ratio 100 X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionRatio applied to the conversion of stock split, for example but not limited to, one share converted to two or two shares converted to one. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 4 -Subparagraph (SAB Topic 4.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-4 + Details Name: us-gaap_StockholdersEquityNoteStockSplitConversionRatio1 Namespace Prefix: us-gaap_ Data Type: xbrli:pureItemType Balance Type: na Period Type: duration XML 45 R38.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Additional Information (Details) - USD ($) shares in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Finite Lived Intangible Assets [Line Items] Â Â Â Â Â Revenues $ 8,550 $ 229,954 $ 41,893 $ 455,480 Â Revenue recognized Â Â 7,700 Â Â Accounts receivable, net balance 4,275 Â 4,275 Â $ 0 Allowance for doubtful accounts $ 0 Â $ 0 Â $ 0 Shares omitted from loss per share, anti-dilutive 202 11 128 5 Â Income available to common stockholders adjusted for deemed dividends from down round financings Â Â Â $ 11,653,986 Â Products Â Â Â Â Â Finite Lived Intangible Assets [Line Items] Â Â Â Â Â Revenues $ 8,550 $ 209,496 $ 41,893 395,106 Â Milestone and Engineering Arrangement Â Â Â Â Â Finite Lived Intangible Assets [Line Items] Â Â Â Â Â Revenue recognized 0 20,458 0 60,374 Â Government Research and Development Â Â Â Â Â Finite Lived Intangible Assets [Line Items] Â Â Â Â Â Revenues $ 0 $ 0 $ 0 $ 0 Â X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of allowance for credit loss on accounts receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8 + Details Name: us-gaap_ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) in equity for down round feature triggered for stock option classified as equity. Excludes share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3A + Details Name: us-gaap_StockOptionDownRoundFeatureIncreaseDecreaseInEquityAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asti_MilestoneAndEngineeringArrangementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asti_GovernmentResearchAndDevelopmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 46 R39.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Deferred Revenue (Details) 9 Months Ended Sep. 30, 2024 USD ($) Accounting Policies [Abstract] Â Beginning Balance $ 935 Additions 7,700 Recognized as revenue (7,700) Ending Balance $ 935 X - DefinitionAdditions of deferred revenue. + ReferencesNo definition available. + Details Name: asti_AdditionsOfDeferredRevenue Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8 + Details Name: us-gaap_ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us-gaap_ Data Type:

xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of deferred income and obligation to transfer product and service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_DeferredRevenue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 47 R40.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Other Assets (Details) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Accounting Policies [Abstract] Â Â Lease security deposit $ 625,000 $ 625,000 Spare machine parts 603,399 603,797 Total Other Assets $ 1,228,399 $ 1,228,797 X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionGross amount of components of assembled products that can be sold directly or indirectly through sales of assembled products. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherInventoriesSpareParts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of an asset, typically cash, provided to a counterparty to provide certain assurance of performance by the entity pursuant to the terms of a written or oral agreement, such as a lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_SecurityDeposit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 48 R41.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Other Income/(Expense), Net (Details) - USD ($) 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Other Income, Nonoperating [Abstract] Â Â Â Â Gain on settlement of liabilities $ 165,548 Â $ 165,548 Â Swiss liabilities (Note 6) 541,021 Â 541,021 Â Interest income 35,593 Â 35,593 Â Employee retention credit Â $ 769,983 Â $ 769,983 Other Â (13,124) 26,334 (3,124) Total Other Income/(Expense), net $ 742,162 $ 756,859 $ 768,496 $ 766,859 X - DefinitionEmployee retention tax credit. + ReferencesNo definition available. + Details Name: asti_EmployeeRetentionTaxCredit Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionGain loss on settlement of liabilities. + ReferencesNo definition available. + Details Name: asti_GainLossOnSettlementOfLiabilities Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionOther income (expense). + ReferencesNo definition available. + Details Name: asti_OtherIncomeExpense Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDifference between the fair value of payments made and the carrying amount of debt which is extinguished prior to maturity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-4 + Details Name: us-gaap_GainsLossesOnExtinguishmentOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of interest income earned from interest bearing assets classified as other. + ReferencesNo definition available. + Details Name: us-gaap_InterestIncomeOther Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherIncomeDisclosureNonoperatingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 49 R42.htm IDEA: XBRL DOCUMENT v3.24.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Schedule of Net Loss Attributable to Common Shareholders (Details) - USD ($) 3 Months Ended 6 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Earnings Per Share [Abstract] Â Â Â Â Â Â Net Income (Loss) $ (1,690,867) $ (1,909,273) $ (5,983,569) $ (9,996,824) $ (7,674,436) $ (11,906,097) Down round deemed dividend Â Â Â Â Â (11,653,986) Net Loss attributable to common shareholders Â $ (1,909,273) Â Â Â $ (23,560,083) Earnings Per Share (Basic) $ (1.37) $ (404) Â Â $ (10.46) $ (6,640) Earnings Per Share (Diluted) $ (1.37) $ (404) Â Â $ (10.46) $ (6,640) X - DefinitionDown round deemed dividend. + ReferencesNo definition available. + Details Name: asti_DownRoundDeemedDividend Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name

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https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) available to common shareholders. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 6.B) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-5Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B + Details Name: us-gaap_NetIncomeLossAvailableToCommonStockholdersBasic Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 50 R43.htm IDEA: XBRL DOCUMENT v3.24.3 LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN - Additional Information (Details) - USD ($) 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Liquidity And Continued Operations [Abstract] Â Â Net cash used in operating activities $ 6,897,159 $ 7,329,398 Working capital $ 1,362,847 Â X - DefinitionLIQUIDITY AND CONTINUED OPERATIONS [Abstract] + ReferencesNo definition available. + Details Name: asti_LiquidityAndContinuedOperationsAbstract Namespace Prefix: asti_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWorking capital. + ReferencesNo definition available. + Details Name: asti_WorkingCapital Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration XML 51 R44.htm IDEA: XBRL DOCUMENT v3.24.3 RELATED PARTY TRANSACTIONS - Additional Information (Details) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Related Party Transaction [Line Items] Â Â Revenue recognized $ 935 $ 935 TubeSolar AG | JV Â Â Related Party Transaction [Line Items] Â Â Minority stake percentage 30.00% Â X - DefinitionAmount of deferred income and obligation to transfer product and service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_DeferredRevenue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe equity interest of noncontrolling shareholders, partners or other equity holders in consolidated entity. + ReferencesNo definition available. + Details Name: us-gaap_MinorityInterestOwnershipPercentageByNoncontrollingOwners Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(c)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(c)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(g)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1 + Details Name: us-gaap_RelatedPartyTransactionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_CoVenturerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_OwnershipAxis=asti_JointVentureMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 52 R45.htm IDEA: XBRL DOCUMENT v3.24.3 ASSET ACQUISITION - Additional Information (Details) - USD ($) 3 Months Ended 9 Months Ended 12 Months Ended Apr. 01, 2024 Apr. 17, 2023 Sep. 30, 2024 Sep. 30, 2024 Dec. 31, 2023 Asset Acquisition [Line Items] Â Â Â Â Â Â Impairment loss Â Â Â Â $ 524,481 Â Carrying value of assets Â Â Â $ 250,382 250,382 $ 1,046,884 Estimated fair value Â Â Â 221,519 221,519 Â Gain on extinguishment of liabilities Â Â Â $ 541,021 $ 541,021 Â Flisom AG | Photovoltaic Thin Film Solar Cells | Asset Purchase Agreement Â Â Â Â Â Â Asset Acquisition [Line Items] Â Â Â Â Â Â Date of asset acquisition agreement Â Apr. 17, 2023 Â Â Â Â Purchase price paid Â $ 4,083,926 Â Â Â Â Purchase price, including transaction costs Â $ 1,283,926 Â Â Â Â Impairment loss Â Â Â Â Â 3,283,715 Carrying value of assets Â Â Â Â Â Â $ 786,000 Manufacturing Facility Landlord Â Â Â Â Â Â Asset Acquisition [Line Items] Â Â Â Â Â Â Carrying value of assets sold $ 746,000 Â Â Â Â Â Asset selling terms On April 1, 2024, the Company entered into an agreement with the manufacturing facility landlord (â€œLandlordâ€) and sold all but one piece of equipment from the Assets to the Landlord for 1 CHF and forgiveness of $221,519 in payables and any potential future claims the manufacturing facility Landlord may have. Â Â Â Â Â Forgiveness of payables $ 221,519 Â Â Â Â Â X - DefinitionAsset selling terms. + ReferencesNo definition available. + Details Name: asti_AssetSellingTerms Namespace Prefix: asti_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionForgiveness of payables to related party. + ReferencesNo definition available. + Details Name: asti_ForgivenessOfPayablesToRelatedParty Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of consideration transferred in asset acquisition. Includes, but is not limited to, cash, liability incurred by acquirer, and equity interest issued by acquirer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 55 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479908/805-50-55-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480060/805-50-25-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-2 + Details Name: us-gaap_AssetAcquisitionConsiderationTransferred Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of transaction cost incurred as part of consideration transferred in asset acquisition. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 55 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479908/805-50-55-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480060/805-50-25-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 30 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480027/805-50-30-2 + Details Name: us-gaap_AssetAcquisitionConsiderationTransferredTransactionCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDate when asset acquisition agreement is executed, in YYYY-MM-DD format. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 15 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480123/805-50-15-3 + Details Name: us-gaap_AssetAcquisitionDateOfAcquisitionAgreement Namespace Prefix: us-gaap_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 15 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480123/805-50-15-3 + Details Name: us-gaap_AssetAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying amount of assets sold under agreements to repurchase when the carrying amount (or market value, if higher than the carrying amount) of securities or other assets sold under repurchase agreements exceeds 10 percent of total assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(m)(1)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(m)(1)(ii)(A)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_AssetsSoldUnderAgreementsToRepurchaseCarryingAmounts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDifference between the fair value of payments made and the carrying amount of debt which is extinguished prior to maturity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-4 + Details Name: us-gaap_GainsLossesOnExtinguishmentOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount of write-downs for impairments recognized during the period for long-lived assets held for abandonment, exchange or sale. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-15 + Details Name: us-gaap_ImpairmentOfLongLivedAssetsToBeDisposedOf Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionFair value portion of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. +

ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100 + Details Name: us-gaap_PropertyPlantAndEquipmentFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: srt_CounterpartyNameAxis=asti_FlisomAgMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AssetAcquisitionAxis=asti_PhotovoltaicThinFilmSolarCellsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_AssetPurchaseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asti_ManufacturingFacilityLandlordMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 53 R46.htm IDEA: XBRL DOCUMENT v3.24.3 PROPERTY, PLANT AND EQUIPMENT - Schedule of Property, Plant and Equipment (Details) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Property Plant And Equipment [Line Items] Â Â Depreciable property, plant and equipment $ 19,679,918 $ 21,177,892 Less: Accumulated depreciation and amortization (19,429,536) (20,131,008) Property, Plant and Equipment, net 250,382 1,046,884 Furniture, fixtures, computer hardware and computer software Â Â Property Plant And Equipment [Line Items] Â Â Depreciable property, plant and equipment 468,588 468,588 Manufacturing machinery and equipment Â Â Property Plant And Equipment [Line Items] Â Â Depreciable property, plant and equipment 19,122,828 20,661,222 Leasehold improvements Â Â Property Plant And Equipment [Line Items] Â Â Depreciable property, plant and equipment 15,994 15,995 Manufacturing machinery and equipment, in progress Â Â Property Plant And Equipment [Line Items] Â Â Depreciable property, plant and equipment $ 72,508 $ 32,087 X - DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A + Details Name: us-gaap_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_FurnitureAndFixturesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_MachineryAndEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=asti_ManufacturingMachineryAndEquipmentInProgressMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 54 R47.htm IDEA: XBRL DOCUMENT v3.24.3 PROPERTY, PLANT AND EQUIPMENT - Additional Information (Details) - USD ($) 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Property, Plant and Equipment [Abstract] Â Â Â Â Depreciation expense $ 16,832 $ 18,931 $ 50,923 $ 59,570 X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 55 R48.htm IDEA: XBRL DOCUMENT v3.24.3 OPERATING LEASE - Additional Information (Details) 3 Months Ended 9 Months Ended Jan. 01, 2021 USD ($) Sep. 21, 2020 USD ($) Sep. 30, 2024 USD ($) Sep. 30, 2023 USD ($) Sep. 30, 2024 USD ($) Sep. 30, 2023 USD ($) Sep. 01, 2023 ftÂ² Aug. 31, 2023 ftÂ² Lessee, Lease, Description [Line Items] Â Â Â Â Â Â Â Â Lease term Â Â 88 months Â 88 months Â Â Â Lease commencement date Â Sep. 21, 2020 Â Â Â Â Â Â Rent per month | $ $ 80,000 $ 50,000 Â Â Â Â Â Â Percentage of rent increase in annual rate Â Â Â Â 3.00% Â Â Â Net rentable area | ftÂ² Â Â Â Â Â Â Â 100,000 Lease terms description Â Â Â Â This lease is classified and accounted for as an operating lease. The building lease term is for 88 months commencing on September 21, 2020 at a rent of $50,000 per month including taxes, insurance and common area maintenance until December 31, 2020. Beginning January 1, 2021, the rent adjusted to $80,000 per month on a triple net basis and shall increase at an annual rate of 3% per annum until December 31, 2027. Â Â Â Operating lease costs | $ Â Â $ 190,497 $ 236,925 $ 571,492 $ 770,836 Â Â Remaining lease term Â Â 39 months Â 39 months Â Â Â Lease discount rate Â Â 7.00% Â 7.00% Â Â Â Minimum Â Â Â Â Â Â Â Â Lessee, Lease, Description [Line Items] Â Â Â Â Â Â Â Â Net rentable area | ftÂ² Â Â Â Â Â Â Â 75,000 Â X - DefinitionLease commencement date. + ReferencesNo definition available. + Details Name: asti_LeaseCommencementDate Namespace Prefix: asti_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionPercentage of rent increase in annual rate. + ReferencesNo definition available. + Details Name: asti_PercentageOfRentIncreaseInAnnualRate Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionAmount of lease cost recognized by lessee for lease contract. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-3 + Details Name: us-gaap_LesseeLeaseDescriptionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDescription of lessee's operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-3 + Details Name: us-gaap_LesseeOperatingLeaseDescription Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTerm of lessee's operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-3 + Details Name: us-gaap_LesseeOperatingLeaseTermOfContract Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionNet rentable area for properties owned. + ReferencesNo definition available. + Details Name: us-gaap_NetRentableArea Namespace Prefix: us-gaap_ Data Type: dtr-types:areaItemType Balance Type: na Period Type: instant X - DefinitionAmount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 56 R49.htm IDEA: XBRL DOCUMENT v3.24.3 OPERATING LEASE - Schedule of Assets and Liabilities Related to Company's Lease (Details) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Leases [Abstract] Â Â Operating lease right-of-use assets, net $ 2,007,001 $ 2,364,672 Current portion of operating lease liability 555,495 491,440 Non-current operating lease liabilities $ 1,615,945 $ 2,043,025 X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 57 R50.htm IDEA: XBRL DOCUMENT v3.24.3 OPERATING LEASE - Schedule Future Maturities of Operating Lease Liability (Details) Sep. 30, 2024 USD ($) Lessee, Operating Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract] Â Remainder of 2024 $ 192,283 2025 792,203 2026 815,969 2027 840,449 Total lease payments 2,640,904 Less amounts representing interest (469,464) Present value of lease liability $ 2,171,440 X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal

year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OperatingLeaseLiabilitiesPaymentsDueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 58 R51.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES - Schedule of Inventories (Details) - USD ($) Sep. 30, 2024 Dec. 31, 2023 Inventory Disclosure [Abstract] Â Â Raw materials $ 457,381 $ 445,721 Work in process 515 1,775 Total $ 457,896 $ 447,496 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount, net of valuation reserves and adjustments, as of the balance sheet date of unprocessed items to be consumed in the manufacturing or production process. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryRawMaterialsNetOfReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount, net of reserves and adjustments, as of the balance sheet date of merchandise or goods which are partially completed. This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryWorkInProcessNetOfReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 59 R52.htm IDEA: XBRL DOCUMENT v3.24.3 BRIDGE LOAN - Summary of Bridge Loan (Details) - USD ($) 9 Months Ended Sep. 30, 2024 Apr. 02, 2024 Apr. 01, 2024 Short-Term Debt [Line Items] Â Â Â Principal Payments $ (904,803) Â Â Ending, Principal Balance 315,744 Â Â Bridge Loans Â Â Â Short-Term Debt [Line Items] Â Â Â Beginning, Principal Balance 0 Â Â Bridge new loans 1,240,800 Â Â Principal Payments (904,803) Â Â Ending, Principal Balance 335,997 Â Â Discount (20,253) $ (20,800) $ (20,800) Bridge Loan, net of discount $ 315,744 Â Â X - DefinitionBridge loan, net of discount. + ReferencesNo definition available. + Details Name: asti_BridgeLoanNetOfDiscount Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionBridge new loans. + ReferencesNo definition available. + Details Name: asti_BridgeNewLoans Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionShort-Term financing which is expected to be paid back relatively quickly, such as by a subsequent longer-term loan. Also called swing loan or bridge financing. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_BridgeLoan Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe cash outflow for a borrowing having initial term of repayment within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfShortTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ShortTermDebtLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ShortTermDebtTypeAxis=us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 60 R53.htm IDEA: XBRL DOCUMENT v3.24.3 BRIDGE LOAN - Additional Information (Details) 3 Months Ended 9 Months Ended Apr. 17, 2024 USD ($) Apr. 02, 2024 USD ($) Feb. 27, 2024 USD ($) Sep. 30, 2024 USD ($) Sep. 30, 2023 USD ($) Sep. 30, 2024 USD ($) Sep. 30, 2023 USD ($) Apr. 01, 2024 USD ($) $ / shares Short-Term Debt [Line Items] Â Â Â Â Â Â Â Net proceeds Â Â Â Â Â $ 1,153,750 Â Â Interest expense Â Â Â Â $ 271,162 463,397 $ 2,070,669 Â Bridge Loan Â Â Â Â Â Â Â Â Â Short-Term Debt [Line Items] Â Â Â Â Â Â Â Â Â Aggregate principal amount Â $ 180,800 Â $ 87,044 Â 87,044 Â $ 180,800 Net proceeds Â 160,000 Â Â Â Â Â Â Total repayment Â $ 202,496 Â Â Â Â Â Â Loans mature date Â Jan. 01, 2025 Â Â Â Â Â Â Convertible discount rate Â 25 Â Â Â Â Â Â Lowest conversion price | $ / shares Â Â Â Â Â Â Â $ 25 Interest payable Â Â Â 0 Â 0 Â Â Interest expense Â Â Â 16,334 Â 34,297 Â Â Original issuance discount Â $ 20,800 Â 20,253 Â $ 20,253 Â $ 20,800 Bridge Loan | Loan 1 Â Â Â Â Â Â Â Â Â Short-Term Debt [Line Items] Â Â Â Â Â Â Â Â Â Aggregate principal amount Â Â Â $ 375,000 Â Â Â Â Â Origination fees paid Â Â 25,000 Â Â Â Â Â Â Net proceeds Â Â Â $ 350,000 Â Â Â Â Â Frequency of periodic payment Â Â Â weekly Â Â Â Â Â Weekly payments $ 31,000 Â $ 19,420 Â Â Â Â Â Total repayment 993,250 Â 543,750 Â Â Â Â Â Â Short-Term Debt, Terms Â Â Â Â Â Under Loan 1, the Company will make weekly payments of $19,420 for 28 weeks for a total repayment of $543,750. The Company also had an early repayment option where the Company would repay an aggregate of $478,125 if repaid by April 15, 2024. Â Â Payment for early extinguish of debt Â Â $ 478,125 Â Â Â Â Â Â Bridge Loan | Loan 2 Â Â Â Â Â Â Â Â Â Short-Term Debt [Line Items] Â Â Â Â Â Â Â Â Â Aggregate principal amount 685,000 Â Â 248,953 Â $ 248,953 Â Â Origination fees paid 34,250 Â Â Â Â Â Â Â Net proceeds $ 222,440 Â Â Â Â Â Â Â Frequency of periodic payment weekly Â Â Â Â Â Â Â Total repayment $ 428,310 Â Â Â Â Â Â Â Interest payable Â Â Â 3,451 Â 3,451 Â Â Interest expense Â Â Â $ 139,233 Â $ 499,272 Â Â X - DefinitionLowest price to convert debt. + ReferencesNo definition available. + Details Name: asti_LowestPriceToConvertDebt Namespace Prefix: asti_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionRatio applied to the conversion of debt instrument into equity with equity shares divided by debt principal amount. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-7Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-6 + Details Name: us-gaap_DebtInstrumentConvertibleConversionRatio1 Namespace Prefix: us-gaap_ Data Type: xbrli:pureItemType Balance Type: na Period Type: duration X - DefinitionFace (par) amount of debt instrument at time of issuance. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2 + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDescription of the frequency of periodic payments (monthly, quarterly, annual). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3 + Details Name: us-gaap_DebtInstrumentFrequencyOfPeriodicPayment Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDate when the debt instrument is scheduled to be fully repaid, in YYYY-MM-DD format. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentMaturityDate Namespace Prefix: us-gaap_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionAmount of the required periodic payments including both interest and principal payments. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3 + Details Name: us-gaap_DebtInstrumentPeriodicPayment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI

https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DeferredFinanceCostsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of the cost of borrowed funds accounted for as interest expense for debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_InterestExpenseDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionCarrying value as of the balance sheet date of [accrued] interest payable on all forms of debt, including trade payables, that has been incurred and is unpaid. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InterestPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of cash outflow for cost from early extinguishment and prepayment of debt. Includes, but is not limited to, third-party cost, premium paid, and other fee paid to lender directly for debt extinguishment or debt prepayment. Excludes accrued interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (g) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfDebtExtinguishmentCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from a borrowing having initial term of repayment within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromShortTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ShortTermDebtLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDescription of the short-term debt arrangement, and disclosures pertaining to the underlying arrangements, including repayment terms, interest rates, restrictions on assets and activities, debt covenants, and other matters important to users of the financial statements. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ShortTermDebtTerms Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ShortTermDebtTypeAxis=us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asti_Loan1Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asti_Loan2Member Namespace Prefix: Data Type: na Balance Type: Period Type: XML 61 R54.htm IDEA: XBRL DOCUMENT v3.24.3 OTHER PAYABLE - Additional Information (Details) - USD ($) 3 Months Ended 9 Months Ended Sep. 25, 2024 Sep. 30, 2024 Sep. 30, 2024 Jun. 30, 2017 Debt Instrument [Line Items] Â Â Â Â Gain on extinguishment of liabilities Â $ 541,021 $ 541,021 Â Unsecured Debt | Note Payable Conversion Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Notes payable Â Â Â $ 250,000 Payment for termination of note payable $ 175,000 Â Â Â Gain on extinguishment of liabilities Â $ 165,548 Â Â Stated interest rate Â Â Â 5.00% X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDifference between the fair value of payments made and the carrying amount of debt which is extinguished prior to maturity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 50 -Section 40 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481303/470-50-40-4 + Details Name: us-gaap_GainsLossesOnExtinguishmentOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow to repay long-term debt that is not secured by collateral. Excludes repayments of tax exempt unsecured debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfUnsecuredDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionCarrying value as of the balance sheet date of the portion of long-term, uncollateralized debt obligations due within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_UnsecuredDebtCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_ShortTermDebtTypeAxis=us-gaap_UnsecuredDebtMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asti_NotePayableConversionMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 62 R55.htm IDEA: XBRL DOCUMENT v3.24.3 CONVERTIBLE NOTES - Schedule of Convertible Notes (Details) - USD ($) 9 Months Ended Sep. 30, 2024 Dec. 31, 2023 Debt Instrument, Principal [Roll Forward] Â Â Notes converted $ (400,000) Â Net Principal Balance Â $ 354,936 L1 Capital Global Opportunities Master Fund, Ltd Â Â Debt Instrument, Principal [Roll Forward] Â Â Principal Balance, beginning 406,667 Â Notes converted (400,000) Â Notes paid $ (6,667) Â X - DefinitionDebt Instrument, Principal [Roll Forward] + ReferencesNo definition available. + Details Name: asti_DebtInstrumentPrincipalRollForward Namespace Prefix: asti_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of the portion of long-term debt due within one year or the operating cycle if longer identified as Convertible Notes Payable. Convertible Notes Payable is a written promise to pay a note which can be exchanged for a specified amount of another, related security, at the option of the issuer and the holder. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ConvertibleNotesPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe value of the financial instrument(s) that the original debt is being converted into in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_DebtConversionConvertedInstrumentAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of debt and lease obligation, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_DebtCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_DebtInstrumentAxis=asti_L1CapitalGlobalOpportunitiesMasterFundLtdMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 63 R56.htm IDEA: XBRL DOCUMENT v3.24.3 CONVERTIBLE NOTES - Additional Information (Details) - USD ($) 3 Months Ended 9 Months Ended Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Short-Term Debt [Line Items] Â Â Â Debt instrument converted amount Â $ 400,000 Â Debt instrument conversion payable amount Â $ 1,279,782 Â Debt conversion, converted instrument, shares issued Â 17,934 Â Conversion of stock shares Â 6,184 Â Interest expense upon conversion $ 271,162 $ 463,397 $ 2,070,669 Floor price Â $ 65 Â Cash payable Â $ 199,997 Â Amortization of debt discount Â 86,057 1,773,621 Convertible Notes Â Â Â Short-Term Debt [Line Items] Â Â Â Amortization of debt discount $ 231,536 19,260 $ 1,773,633 L1 Capital Global Opportunities Master Fund, Ltd Â Â Â Short-Term Debt [Line Items] Â Â Â Debt instrument converted amount Â $ 400,000 Â X - DefinitionCash payble. + ReferencesNo definition available. + Details Name: asti_CashPayable Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDebt instrument conversion payable amount. + ReferencesNo definition available. + Details Name: asti_DebtInstrumentConversionPayableAmount Namespace Prefix: asti_

Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionFloor price. + ReferencesNo definition available. + Details Name: asti_FloorPrice Namespace Prefix: asti_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. Alternate captions include noncash interest expense. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfDebtDiscountPremium Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe number of new shares issued in the conversion of stock in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_ConversionOfStockSharesIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe value of the financial instrument(s) that the original debt is being converted into in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_DebtConversionConvertedInstrumentAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe number of shares issued in exchange for the original debt being converted in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_DebtConversionConvertedInstrumentSharesIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount of the cost of borrowed funds accounted for as interest expense for debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_InterestExpenseDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ShortTermDebtLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_DebtInstrumentAxis=asti_ConvertibleNotesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asti_L1CapitalGlobalOpportunitiesMasterFundLtdMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 64 R57.htm IDEA: XBRL DOCUMENT v3.24.3 SERIES A PREFERRED STOCK - Additional Information (Details) - USD ($) 9 Months Ended Jan. 01, 2024 Sep. 30, 2024 Dec. 31, 2023 Series A Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares outstanding (in shares) 48,100 48,100 48,100 Preferred stock, dividend rate 8.00% Â Â Preferred stock, dividend, make-whole dividend rate to market value 10.00% Â Â Preferred stock, conversion, required common share value Â $ 23,200,000,000 Â Preferred stock, conversion, required common share price, term Â 20 days Â Preferred stock redemption price per share Â $ 8.00 Â Accrued and unpaid dividends Â $ 550,879 Â Common Stock | Maximum Â Â Â Class Of Stock [Line Items] Â Â Â Convertible preferred stock, shares issued upon conversion (in shares) Â 1 Â X - DefinitionAccrued and Unpaid Dividends + ReferencesNo definition available. + Details Name: asti_AccruedandUnpaidDividends Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPreferred Stock, Conversion, Required Common Share Price, Term + ReferencesNo definition available. + Details Name: asti_PreferredStockConversionRequiredCommonSharePriceTerm Namespace Prefix: asti_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionPreferred stock, conversion, required common share value. + ReferencesNo definition available. + Details Name: asti_PreferredStockConversionRequiredCommonShareValue Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPreferred Stock, Dividend, Make-Whole Dividend Rate to Market Value + ReferencesNo definition available. + Details Name: asti_PreferredStockDividendMakeWholeDividendRatetoMarketValue Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued for each share of convertible preferred stock that is converted. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16 + Details Name: us-gaap_ConvertiblePreferredStockSharesIssuedUponConversion Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe percentage rate used to calculate dividend payments on preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.12-12A(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.12-12(Column A)(Footnote 4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-12B(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 6 -Subparagraph (SX 210.12-14(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-6 + Details Name: us-gaap_PreferredStockDividendRatePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe price per share at which the preferred stock of an entity that has priority over common stock in the distribution of dividends and in the event of liquidation of the entity is redeemed or may be called at. The redemption features of this preferred stock are solely within the control of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-5Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-11 + Details Name: us-gaap_PreferredStockRedemptionPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesAPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 65 R58.htm IDEA: XBRL DOCUMENT v3.24.3 SERIES Z PREFERRED STOCK - Additional Information (Details) 1 Months Ended Jul. 20, 2024 Vote shares Sep. 30, 2024 $ / shares Jun. 20, 2024 USD ($) $ / shares Class of Stock [Line Items] Â Â Â Preferred stock, par value (in dollars per share) Â $ 0.0001 Â Series Z Preferred Stock | Securities Purchase Agreement Â Â Â Class of Stock [Line Items] Â Â Â Number of shares issued and sold | shares 1 Â Â Preferred stock, par value (in dollars per share) Â Â $ 0.0001 Purchase price of share Â Â $ 1,000 Redemption amount | $ Â Â $ 1,000 Preferred stock number of votes | Vote 180,000,000 Â Â X - DefinitionPreferred stock number of votes, + ReferencesNo definition available. + Details Name: asti_PreferredStockNumberOfVotes Namespace Prefix: asti_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -

Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe redemption (or callable) amount of currently redeemable preferred stock. Includes amounts representing dividends not currently declared or paid but which will be payable under the redemption features or for which ultimate payment is solely within the control of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-11 + Details Name: us-gaap_PreferredStockRedemptionAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe number of shares issued or sold by the subsidiary or equity method investee per stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockNumberOfSharesIssuedInTransaction Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPer share or per unit amount of equity securities issued. + ReferencesNo definition available. + Details Name: us-gaap_SharesIssuedPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesZPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_SecuritiesPurchaseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 66 R59.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY (DEFICIT) - Additional Information (Details) 3 Months Ended 9 Months Ended May 30, 2024 USD ($) May 23, 2024 USD ($) May 16, 2024 USD ($) $ / shares Apr. 18, 2024 USD ($) $ / shares shares Apr. 12, 2024 USD ($) $ / shares shares Apr. 09, 2024 USD ($) $ / shares shares Mar. 07, 2024 USD ($) Mar. 06, 2024 USD ($) Sep. 30, 2024 USD ($) $ / shares shares Sep. 30, 2024 USD ($) Vote $ / shares shares Dec. 31, 2023 $ / shares shares Dec. 19, 2022 Investor Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Common stock, shares authorized (in shares) | shares Â Â Â Â Â Â Â Â Â 500,000,000 500,000,000 500,000,000 Â Common stock, par value (in dollars per share) | $ / shares Â Â Â Â Â Â Â Â Â $ 0.0001 $ 0.0001 $ 0.0001 Â Common stock, shares outstanding (in shares) | shares Â Â Â Â Â Â Â Â 1,275,429 1,275,429 238,996 Â Common stock, number of votes per share | Vote Â Â Â Â Â Â Â Â Â 1 Â Â Notes converted Â Â Â Â Â Â Â Â Â $ (400,000) Â Â Conversion of stock shares | shares Â Â Â Â Â Â Â Â Â 6,184 Â Â Conversions notes payable Â Â Â Â Â Â Â Â Â $ 1,279,782 $ 1,279,782 Â Â Debt conversion, converted instrument, shares issued (in shares) | shares Â Â Â Â Â Â Â Â Â 17,934 Â Â Warrants expiring term Â Â Â Â Â 5 years 6 months Â Â Â Â Â Â Â Â Warrant settlement expense Â Â Â Â Â Â Â Â Â $ 0 $ 743,462 Â Â Outstanding common warrants | shares Â Â Â Â Â Â Â Â 143,000 143,000 Â Â Preferred stock, shares authorized (in shares) | shares Â Â Â Â Â Â Â Â 25,000,000 25,000,000 Â Â Preferred stock, par value (in dollars per share) | $ / shares Â Â Â Â Â Â Â Â $ 0.0001 $ 0.0001 Â Â Aggregate gross proceeds Â Â Â Â Â Â Â Â Â $ 13,303,110 Â Â Pre-funded warrants were exercised into common stock | shares Â Â Â Â Â Â Â Â Â 211,623 Â Â Purchase price for repurchase of warrants Â Â Â Â Â Â Â Â Â $ 3,600,000 Â Â Common Stock Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Common stock issued to settle liabilities (in shares) | shares Â Â Â Â Â Â Â Â 3,500 Â Â Minimum Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Warrant exercise price per share | $ / shares Â Â Â Â Â Â Â Â 11.68 $ 11.68 Â Â Maximum Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Warrant exercise price per share | $ / shares Â Â Â Â Â Â Â Â 74,086 $ 74,086 Â Â Prefunded warrants [Member] Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Warrant exercise price per share | $ / shares Â Â Â $ 0.0001 Â Â Â Â Â Â Â ATM Agreement [Member] Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Common stock, par value (in dollars per share) | $ / shares Â Â $ 0.0001 Â Â Â Â Â Â Â Â Â Â Â Â Aggregate gross proceeds Â Â Â Â Â Â Â Â Â $ 9,500,000 Â Â Aggregate sales price of common stock $ 3,981,000 $ 4,344,000 $ 4,219,000 Â Â Â Â Â Â Â Â Â Â Â Â Common stock shares issued | shares Â Â Â Â Â Â Â Â 637,429 Â Â Common stock price per share | $ / shares Â Â Â Â Â Â Â Â $ 14.9 $ 14.9 Â Â Percentage of commission on aggregate gross proceeds Â Â 3.00% Â Â Â Â Â Â Â Â Securities Purchase Contract Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Warrants exercisable for number shares of common stock | shares Â Â Â 67,000 Â Â Â Â Â Â Â Â Warrant exercise price per share | $ / shares Â Â Â $ 147.27 Â Â Â Â Â Â Â Â Â Number of institutional investors | Investor Â Â Â Â Â Â Â Â Â Â Â Â 2 Warrant Repurchase Agreements Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Warrant exercise price per share | $ / shares Â Â Â Â Â $ 11.68 Â Â Â Â Â Â Â Outstanding common warrants | shares Â Â Â Â 85,500 Â Â Â Â Â Â Â Agreement Entered Date Â Â Â Â Â Â Mar. 07, 2024 Mar. 06, 2024 Â Â Â Â Gross proceeds from securities Â Â Â Â Â Â $ 5,000,000 $ 5,000,000 Â Â Â Â Purchase price for repurchase of warrants Â Â Â Â Â Â $ 3,600,000 $ 3,600,000 Â Â Â Â Warrant Repurchase Agreements | First Repurchase Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Percentage of warrants investors agree to convey, assign and transfer Â Â Â Â 50.00% Â Â Â Â Â Â Â Â Aggregate purchase price Â Â Â Â $ 1,800,000 Â Â Â Â Â Â Â Â Warrant Repurchase Agreements | Second Repurchase Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Aggregate purchase price for remaining warrants Â Â Â $ 1,800,000 Â Â Â Â Â Â Â Placement Agent Agreement [Member] Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Percentage of gross proceeds from sale of Units Â Â Â Â Â 4.00% Â Â Â Â Â Â Â Placement Agent Agreement [Member] | Common Stock Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Shares, Issued | shares Â Â Â 151,795 Â Â Â Â Â Â Â Â Placement Agent Agreement [Member] | Prefunded warrants [Member] Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Prefunded warrants issued | shares Â Â Â 211,623 Â Â Â Â Â Â Â L1 Capital Global Opportunities Master Fund, Ltd Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Payment of cash payable Â Â Â Â Â $ 200,000 Â Â Â Â Â Â Dawson James [Member] | Placement Agent Agreement [Member] Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Percentage of gross proceeds from sale of Units Â Â Â Â Â 8.00% Â Â Â Â Â Â Proceeds from issuance or sale of equity Â Â Â $ 5,090,000.00 Â Â Â Â Â Â Â Â Offering shares of common stock warrant to purchase Â Â Â Â Â $ 6,000,000 Â Â Â Â Â Â Â Agreement Entered Date Â Â Â Â Â Apr. 09, 2024 Â Â Â Â Â Dawson James [Member] | Placement Agent Agreement [Member] | Maximum Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Offering expenses Â Â Â Â Â $ 155,000 Â Â Â Â Â Â Sabby | L1 Capital Global Opportunities Master Fund, Ltd Â Â Â Â Â Â Â Â Â Â Â Â Class Of Stock [Line Items] Â Â Â Â Â Â Â Â Â Â Â Â Repurchase and cancel of warrants Â Â Â Â Â $ 3,600,000 Â Â Â Â Â Â Â Adjusted Number of Warrants | shares Â Â Â Â Â 850,000 Â Â Â Â Â Â Â Adjusted purchase of common stock exercise price | $ / shares Â Â Â Â Â $ 11.68 Â Â Â Â Â Â Â X - DefinitionAdjusted number of warrants. + ReferencesNo definition available. + Details Name: asti_AdjustedNumberOfWarrants Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAdjusted purchase of common stock exercise price + ReferencesNo definition available. + Details Name: asti_AdjustedPurchaseOfCommonStockExercisePrice Namespace Prefix: asti_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAggregate purchase price for remaining warrants. + ReferencesNo definition available. + Details Name: asti_AggregatePurchasePriceForRemainingWarrants Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAgreement entered date. + ReferencesNo definition available. + Details Name: asti_AgreementEnteredDate Namespace Prefix: asti_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionClass of warrant or right issued during period. + ReferencesNo definition available. + Details Name: asti_ClassOfWarrantOrRightIssuedDuringPeriod Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionCommon Stock, Number Of Votes Per Share + ReferencesNo definition available. + Details Name: asti_CommonStockNumberOfVotesPerShare Namespace Prefix: asti_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionGross proceeds from securities. + ReferencesNo definition available. + Details Name: asti_GrossProceedsFromSecurities Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionNumber of institutional investors. + ReferencesNo definition available. + Details Name: asti_NumberOfInstitutionalInvestors Namespace Prefix: asti_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - DefinitionOffering expenses. + ReferencesNo definition available. + Details Name: asti_OfferingExpenses Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionOffering shares of common stock under at the market offering program. + ReferencesNo definition available. + Details Name: asti_OfferingSharesOfCommonStockUnderAtTheMarketOfferingProgram Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionOffering shares of common stock warrant to purchase. + ReferencesNo definition available. + Details Name: asti_OfferingSharesOfCommonStockWarrantToPurchase Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPayment of cash payable. + ReferencesNo definition available. + Details Name: asti_PaymentOfCashPayable Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPercentage of gross proceeds from sale of Units. + ReferencesNo definition available. + Details Name: asti_PercentageOfGrossProceedsFromSaleOfUnits Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of sale of common stock commission on aggregate gross proceeds. + ReferencesNo definition available. + Details Name: asti_PercentageOfSaleOfCommonStockCommissionOnAggregateGrossProceeds Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionPercentage of warrants investors agree to convey assign and transfer. + ReferencesNo definition available. + Details Name: asti_PercentageOfWarrantsInvestorsAgreeToConveyAssignAndTransfer Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionPre-funded warrants were exercised into common stock. + ReferencesNo definition available. + Details Name: asti_PreFundedWarrantsWereExercisedIntoCommonStock Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionRepurchase and cancel of warrants. + ReferencesNo definition available. + Details Name: asti_RepurchaseAndCancelOfWarrants Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued during period, shares, issued to settle liabilities. + ReferencesNo definition available. + Details Name: asti_StockIssuedDuringPeriodSharesIssuedToSettleLiabilities Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionWarrant settlement amount. + ReferencesNo definition available. + Details Name: asti_WarrantSettlementAmount Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99

-Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of warrants or rights outstanding. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe number of new shares issued in the conversion of stock in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_ConversionOfStockSharesIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionIncluding the current and noncurrent portions, carrying value as of the balance sheet date of a written promise to pay a note, initially due after one year or beyond the operating cycle if longer, which can be exchanged for a specified amount of one or more securities (typically common stock), at the option of the issuer or the holder. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_ConvertibleNotesPayable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe value of the financial instrument(s) that the original debt is being converted into in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_DebtConversionConvertedInstrumentAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe number of shares issued in exchange for the original debt being converted in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_DebtConversionConvertedInstrumentSharesIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate amount paid by the entity to reacquire the right to purchase equity shares at a predetermined price, usually issued together with corporate debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfWarrants Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfWarrants Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from the issuance of common stock, preferred stock, treasury stock, stock options, and other types of equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ProceedsFromIssuanceOrSaleOfEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPer share amount received by subsidiary or equity investee for each share of common stock issued or sold in the stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of stock issued as of the balance sheet date, including shares that had been issued and were previously outstanding but which are now held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2 + Details Name: us-gaap_SharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPeriod between issuance and expiration of outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_WarrantsAndRightsOutstandingTerm Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=asti_PrefundedWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=asti_ATMAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_SecuritiesPurchaseContractMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_WarrantRepurchaseAgreementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_FirstRepurchaseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SecondRepurchaseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_PlacementAgentAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=asti_L1CapitalGlobalOpportunitiesMasterFundLtdMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asti_DawsonJamesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asti_SabbyMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 67 R60.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY (DEFICIT) - Schedule of Fair Value of Warrants (Details) Sep. 30, 2024 yr Expected Stock Price Volatility Â Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Line Items] Â Fair value of warrants 154.5 Dividend Yield Â Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Line Items] Â Fair value of warrants 0 Risk-free Interest Rate Â Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Line Items] Â Fair value of warrants 4.75 Expected Life of the Warrants (In Years) Â Fair Value Assets And Liabilities Measured On Recurring And Nonrecurring Basis Valuation Techniques [Line Items] Â Fair value of warrants 2.75 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50

-Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionValue of input used to measure outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_WarrantsAndRightsOutstandingMeasurementInput Namespace Prefix: us-gaap_ Data Type: xbrli:decimalItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_MeasurementInputTypeAxis=us-gaap_MeasurementInputPriceVolatilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_MeasurementInputTypeAxis=us-gaap_MeasurementInputExpectedDividendRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_MeasurementInputTypeAxis=us-gaap_MeasurementInputRiskFreeInterestRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_MeasurementInputTypeAxis=us-gaap_MeasurementInputExpectedTermMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R61.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY (DEFICIT) - Schedule of Stock by Class (Details) - shares Sep. 30, 2024 Jan. 01, 2024 Dec. 31, 2023 Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 25,000,000 Â Â Series A Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 750,000 Â 750,000 Preferred stock, shares outstanding (in shares) 48,100 48,100 48,100 Series 1A Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 5,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series B-1 Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 2,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series B-2 Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series 1B Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 900 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series C Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series D Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 3,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series D-1 Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 2,500 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series E Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 2,800 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series F Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 7,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series G Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 2,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series H Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 2,500 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series I Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series J Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1,350 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series J-1 Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series K Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 20,000 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â Series Z Preferred Stock Â Â Â Class Of Stock [Line Items] Â Â Â Preferred stock, shares authorized (in shares) 1 Â Â Preferred stock, shares outstanding (in shares) 0 Â Â X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesAPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_Series1APreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesB1PreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesB2PreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_Series1BPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesCPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesDPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesD1PreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesEPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesFPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesGPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesHPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesIPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesJPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesJ1PreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesKPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesZPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 69 R62.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION - Additional Information (Details) - USD ($) 1 Months Ended 9 Months Ended Aug. 31, 2024 Jan. 31, 2024 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Shares of restricted stock units granted Â Â 4,850 Â Â Total unrecognized share-based compensation expense Â Â $ 345,000 Â Â Number of unvested units Â Â 3,191 Â 19 Number of forfeited shares Â Â 20 Â Â Unrecognized share-based compensation expense, period for recognition Â Â 2 years Â Â Weighted average remaining contractual term Â Â 9 years 10 months 24 days Â Â Weighted average grant date fair value Â Â $ 4.15 Â Â Number of stock options granted 124,850 Â 124,850 Â Â Stock options termination period 10 years Â Â Â Â Unvested options expected to vest Â Â 83,220 Â Â Number of options exercisable Â Â 41,630 Â Â Description of stock option vesting Â Â One third of these options vested on September 15, 2024. The remaining unvested options will vest pro rata on January 1, 2025 and January 1, 2026. Â Â Restricted Stock Units Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Total unrecognized share-based compensation expense Â Â $ 855,000 Â Â Number of unvested units Â Â 3,191 Â Â Unrecognized share-based compensation expense, period for recognition Â Â 1 year 3 months Â Â Fair value of shares on vesting dates Â Â $ 7,143 $ 269,860 Â Employees and Directors | Restricted Stock Units Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Shares of restricted stock units granted Â 4,590 Â Â Â Employees and Directors | Restricted Stock Units | One Third Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Vesting date Â Mar. 31, 2024 Â Â Â Employees and Directors | Restricted Stock Units | Tranche One Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Vesting date Â Jan. 01, 2025 Â Â Â Employees and Directors | Restricted Stock Units | Tranche Two Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Vesting date Â Jan. 01, 2026 Â Â Â Advisory Board | Restricted Stock Units Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Shares of restricted stock units granted Â 200 Â Â Â Advisory Board | Restricted Stock Units | Tranche One Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Vesting date Â Jan. 01, 2025 Jun. 30, 2024 Â Â Advisory Board | Restricted Stock Units | Tranche Two Â Â Â Â Â Share Based Compensation Arrangement By Share Based Payment Award [Line Items] Â Â Â Â Â Vesting date Â Jan. 01, 2026 Jan. 01, 2025 Â Â X - DefinitionShare-based compensation arrangement by share-based payment award, vesting date. + ReferencesNo definition available. + Details Name: asti_ShareBasedCompensationArrangementByShareBasedPaymentAwardVestingDate Namespace Prefix: asti_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionWeighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionAmount of cost to be recognized for nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedShareBasedAwardsOtherThanOptions Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDescription of service or performance condition required to be met for earning right to award under share-based payment arrangement. Includes, but is not limited to, combination of market, performance or service condition. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details

Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingRights Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionFair value of share-based awards for which the grantee gained the right by satisfying service and performance requirements, to receive or retain shares or units, other instruments, or cash. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriodTotalFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher 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https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of fully vested and expected to vest options outstanding that can be converted into shares under option plan. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPeriod from grant date that an equity-based award expires, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardExpirationPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for fully vested and expected to vest options outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageRemainingContractualTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionWeighted average grant-date fair value of options vested. + ReferencesNo definition available. + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_TitleOfIndividualAxis=asti_EmployeesAndDirectorsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=asti_OneThirdMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=us-gaap_ShareBasedCompensationAwardTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=us-gaap_ShareBasedCompensationAwardTrancheTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_TitleOfIndividualAxis=asti_AdvisoryBoardMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 70 R63.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION - Summary of Non-vested Restricted Stock and Related Activity (Details) 9 Months Ended Sep. 30, 2024 $ / shares shares Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number of Shares [Roll Forward] Â Beginning Balance, Non-vested Shares | shares 19 Shares granted | shares 4,850 Shares vested | shares (1,658) Shares forfeited | shares (20) Ending Balance, Non-vested Shares | shares 3,191 Non-vested, Weighted Average Grant Date Fair Value, Beginning Balance | $ / shares $ 59,600 Weighted Average Grant Date Fair Value, Granted | $ / shares 75.87 Weighted Average Grant Date Fair Value, Vested | $ / shares 327.03 Weighted Average Grant Date Fair Value, Forfeited | $ / shares 77 Non-vested, Weighted Average Grant Date Fair Value, Ending Balance | $ / shares $ 502.35 X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionWeighted average fair value as of the grant date of equity-based award plans other than stock (unit) option plans that were not exercised or put into effect as a result of the occurrence of a terminating event. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value at grant date for nonvested equity-based awards issued during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-

gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that vested during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value as of grant date pertaining to an equity-based award plan other than a stock (or unit) option plan for which the grantee gained the right during the reporting period, by satisfying service and performance requirements, to receive or retain shares or units, other instruments, or cash in accordance with the terms of the arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration XML 71 R64.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION - Summary of Stock Options Activity (Details) - $ / shares 1 Months Ended 9 Months Ended Aug. 31, 2024 Sep. 30, 2024 Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding [Roll Forward] Â Â Stock Options Outstanding, Shares, Granted 124,850 124,850 Stock Options Outstanding, Shares, Ending Balance Â 124,850 Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price [Abstract] Â Â Stock Options Outstanding, Weighted Average Exercise Price, Granted Â $ 4.15 Stock Options Outstanding, Weighted Average Exercise Price, Ending Balance Â $ 4.15 X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePriceRollforward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration XML 72 R65.htm IDEA: XBRL DOCUMENT v3.24.3 SHARE-BASED COMPENSATION - Summary of Weighted Average Assumptions Used to Estimate Fair Values (Details) 9 Months Ended Sep. 30, 2024 Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions and Methodology [Abstract] Â Expected stock price volatility 188.87% Dividend yield 0.00% Risk-free interest rate 3.64% Expected life of the options (in years) 5 years 6 months X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsAndMethodologyAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe estimated dividend rate (a percentage of the share price) to be paid (expected dividends) to holders of the underlying shares over the option's term. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedDividendRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe estimated measure of the percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe risk-free interest rate assumption that is used in valuing an option on its own shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionExpected term of award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardFairValueAssumptionsExpectedTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration XML 73 R66.htm IDEA: XBRL DOCUMENT v3.24.3 COMMITMENTS AND CONTINGENCIES - Additional Information (Details) - Wainwright engagement letter [Member] $ / shares in Units, $ in Millions Aug. 15, 2023 USD ($) $ / shares shares Commitments And Contingencies [Line Items] Â Percentage of fees payable under tail provision 8.00% Percentage of warrant coverage on secured convertible note financing 7.00% Secured convertible note financing $ 15.0 Damages value $ 1.2 Common stock warrants | shares 22 Warrant exercise price per share | $ / shares $ 60,500 X - DefinitionCommitments and contingencies. + ReferencesNo definition available. + Details Name: asti_CommitmentsAndContingenciesLineItems Namespace Prefix: asti_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionLoss contingency common stock warrant. + ReferencesNo definition available. + Details Name: asti_LossContingencyCommonStockWarrant Namespace Prefix: asti_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPercentage of fees payable under tail provision. + ReferencesNo definition available. + Details Name: asti_PercentageOfFeesPayableUnderTailProvision Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of warrant coverage on secured convertible note financing. + ReferencesNo definition available. + Details Name: asti_PercentageOfWarrantCoverageOnSecuredConvertibleNoteFinancing Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionSecured convertible note financing. + ReferencesNo definition available. + Details Name: asti_SecuredConvertibleNoteFinancing Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe value (monetary amount) of the award the plaintiff seeks in the legal matter. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9 + Details Name: us-gaap_LossContingencyDamagesSoughtValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_TypeOfArrangementAxis=asti_WainwrightEngagementLetterMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 74 R67.htm IDEA: XBRL DOCUMENT v3.24.3 SUBSEQUENT EVENTS - Additional Information (Details) - USD ($) 9 Months Ended Nov. 14, 2024 Oct. 17, 2024 Oct. 01, 2024 Sep. 30, 2024 Sep. 30, 2023 Jun. 30, 2024 Dec. 31, 2023 Jun. 30, 2023 Dec. 31, 2022 Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Aggregate gross proceeds Â Â Â $ 13,303,110 Â Â Â Â Â Â Gross proceeds received Â Â Â Â Â $ 880,000 Â Â Â Â Preferred stock, par value (in dollars per share) Â Â Â $ 0.0001 Â Â Â Â Â Common Stock Â Â Â Â Â Â Â Â Â Â Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Shares issued Â Â Â 1,275,429 208,648 1,191,411 238,996 206,844 205,746 ATM Agreement Â Â Â Â Â Â Â Â Â Â Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Number of shares sold Â Â Â 637,429 Â Â Â Â Â Â Average price per share Â Â Â Â $ 14.9 Â Â Â Â Â Â Aggregate gross proceeds Â Â Â $ 9,500,000 Â Â Â Â Â Â Subsequent Event | Series I C Preferred Stock Â Â Â Â Â Â Â Â Â Â Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Gross proceeds from securities Â $ 1,900,000 Â Â Â Â Â Â Â Â Shares issued Â 1,900 Â Â Â Â Â Â Â Â Purchase price of share Â $ 1,000 Â Â Â Â Â Â Â Â Gross proceeds received $ 665,000 Â Â Â Â Â Â Â Â Conversion price (in dollars per share) Â $ 2.5 Â Â Â Â Â Â Â Â Maximum outstanding shares owned, Percentage Â 4.99% Â Â Â Â Â Â Â Â Preferred stock, par value (in dollars per share) Â $ 1,000 Â Â Â Â Â Â Â Â Stated interest rate Â 10.00% Â Â Â Â Â Â Â Â Stated value percentage Â 110.00% Â Â Â Â Â Â Â Â Preferred stock, dividend rate Â 15.00% Â Â Â Â Â Â Â Â Preferred stock, conversion, required common share price, term Â 20 days Â Â Â Â Â Â Â Â Subsequent Event | Series I C Preferred Stock | Minimum Â Â Â Â Â Â Â Â Â Â Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Conversion price percentage Â 300.00% Â Â Â Â Â Â Â Â Subsequent Event | ATM Agreement | Common Stock Â Â Â Â Â Â Â Â Â Â Subsequent Event [Line Items] Â Â Â Â Â Â Â Â Â Â Number of shares sold Â Â 49,325 Â Â Â Â Â Â Average price per share Â Â $ 2.87 Â Â Â Â Â Â Aggregate gross proceeds Â Â $ 141,400 Â Â Â Â Â Â X - DefinitionConversion price percentage. + ReferencesNo definition available. + Details Name: asti_ConversionPricePercentage Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionGross proceeds from securities. + ReferencesNo definition available. + Details Name: asti_GrossProceedsFromSecurities Namespace Prefix: asti_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionMaximum outstanding shares owned, percentage. + ReferencesNo definition available. + Details Name: asti_MaximumOutstandingSharesOwnedPercentage Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPreferred Stock, Conversion, Required Common Share Price, Term + ReferencesNo definition available. + Details Name: asti_PreferredStockConversionRequiredCommonSharePriceTerm Namespace Prefix: asti_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionStated value percentage. + ReferencesNo definition available. + Details Name: asti_StatedValuePercentage Namespace Prefix: asti_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe price per share of the conversion feature embedded in the debt instrument. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-5 + Details Name: us-gaap_DebtInstrumentConvertibleConversionPrice1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionThe percentage rate used to calculate dividend payments on preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.12-12A(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.12-12(Column A)(Footnote 4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-12B(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 6 -Subparagraph (SX 210.12-14(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-6 + Details Name: us-gaap_PreferredStockDividendRatePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from issuance of preferred stocks identified as being convertible into another form of financial instrument, typically the

entity's common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfConvertiblePreferredStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPer share amount received by subsidiary or equity investee for each share of common stock issued or sold in the stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of stock issued as of the balance sheet date, including shares that had been issued and were previously outstanding but which are now held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2 + Details Name: us-gaap_SharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPer share or per unit amount of equity securities issued. + ReferencesNo definition available. + Details Name: us-gaap_SharesIssuedPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionDetail information of subsequent event by type. User is expected to use existing line items from elsewhere in the taxonomy as the primary line items for this disclosure, which is further associated with dimension and member elements pertaining to a subsequent event. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483399/855-10-50-2 + Details Name: us-gaap_SubsequentEventLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=asti_ATMAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsequentEventTypeAxis=us-gaap_SubsequentEventMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=asti_SeriesICPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: EXCEL 75 Financial_Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx M4$L#!!0 (.F!;ED'04UB@0 +$ 0 9&]C4')O<',O87!P+GAM M;$V./0L",1!$ \IQO;=!P4)B0-!2L+ (/>QLOD&1#LD)^OCG!CVX>;QA&WPIG M*N*I#BV&5(C(I(/ !47BK9.7:=N')=HI6-Y #OGDK7A.YNJQ<&4GPZ4A!0W_J=0U[R;UEA_6\#MI7E!+ P04 M " #I@6Y9"%$J/>X K @ $0 &1O8U!R;W!S+V-O&ULS9+! M3L,P#(9?!>7>NNG&#E&7"X@32$A, G&++$F^+:)HH,6KW]J1AZX3@ 3C&_O/Y ML^1.!Z%Q.?H T:RF&XFUP])Z+!E1Z(@)(^HE.ISHDA- <^.D7Y&0\0E/Y0 M!X2V:3;@D)11I& &5F$A,MD9+71$13Z>\48O^/ 9^P(S&K!'AP,EX#'4')N>) MX33U'5!,XPPNO1=0+,02_5/;.D .R>G9)?4.([UN"JYO .'MZ?'E[)N98=$ M:M"8?R4K!:1PRRZ37U=W]L']MNF75> <5WR]:[G@MZ+9O,^N/_RNPLX;N[?_ MV/@B*#OX=1?R"U!+ P04 " #I@6Y9F5R<(Q & "<)P $P 'AL+W1H M96UE+W1H96UE,2YX;6SM6EMSVC@4?N^OT'AG]FT+QC:!MK03621A'^_1S80RY8-[9)-NIL\!"SI^\Y%1^?H.'GS[BYBZ(:(E/)X M3-DOV]:[NM-_>X%#BVR]*+ M41B1%G\@M MNN01.+5)#3(?PB=AIAJ4!P"I DQEJ&&^+3&K!'@$WVWO@<(WXV(]ZMOFCU7 MH5A)VH3X$$8:XIQSYG/1;/L'I4;1]E6\W*.76!4!EQC?-*HU+,76>)7 \:V< M/!T3$LV4"P9!AI@S M&L%&KQMUAVC2/'K^!?F<-0HACA*FNVB<5@$_9Y>PTG!Z(++9OVX?H;5,VPLCO='U!=*Y \FIS_I,C0' MHYI9";V$5FJ?JH,@H%\;D>/N5Z> HWEL:\4*Z">P'_T=HWPJOX@L Y M?RY]SZ7ON?0]H=*W-R-]9\'3BUO>1FY;Q/NN,=K7-"XH8U=RSTS0LS0[=R2^JVE+ZU)CA* M]+', <$X>RPP[9SR2';9WH!TU^_9==N0CI3!3ET.X&D*^ VVZG=PZ.)Z8D;D* MTU*0;VYZ<5X&N(YV02Y?9A7;>?8T='[Y\%1L*/O/)8=QXCRHB'NH8:8S\-# MAWE[7YAGE<90-!1M;*PD+$:W8+C7\2P4X&I@+: '@Z]1 O)256 Q6\8#*Y"B M?$R,1>APYY=<7^/1DN/;IF6U;]\I=QEM(EYPFF8$V>KRMYEL<%5'<]56_*P MOFH]M!5.S_Y9KF4Q9Z;RWRT,"2Q;B%D2XDU=[=7GFYRN>B)V^I=W MP6#R_7#)1P_E.^=?]%U#KG[VW>/Z;I,[2$R<><41 71% B.5' 86%S+D4.Z2 MD 83 >LX=SFWJXPD6L_UC6'ODRWSEPVSK> U[F M$RQ#I'[!?
8J*@!&K8KZZKT_9]9P[M'OQ@2";_-;;I/;=X Q\U*M:I60K$3]+ M!WP?D@9CC%OT-^/%&*MIK&MQMHQ#'F 6/,,H68XWX=%FAHSU8NL.8T*;T'5 M0.4_V]0-:/8--!R1!5XQF;8VH^1."CS<_N\-L,+$CN'MB[\!4$L#!!0 (M .F!;EEUG)@'S 4 ,8> 8 >&PO=V]R:W-H965T&UL MM9EO;]LV$,: "N$!PP;$L4@Y_[K$@*,F6[V36-O0S?L!2W1EE!)]$C*3K[] MCI(BI05U=H7Z32+)ND?
\Z2CR.?)R*]5G'0MAR%.6YOIJ$!NS?C,:Z3 6&=?' MKT4JMU<#.GBY\)BL8F,OC":7:[X2,V'^6#\H.!LU*E&2B5PG,B=*+*\& M4_HF\)D-*. X,Q%;_>J86)2%E)_MR5UT-?!LBT0J0F,E./S;B$"DJ56"=OQ7 MBPZ:9]K U\#TA8:"..SA:D:"5Y]9_U2_B50" N@-8'<"^"J!=3_#K +\$K5I6 M8KWEAD\NE=P29>\&-7M0OILR&FB2W*9Q9A3\FD" MR5U>=0.[FUP=)?2
3DR\#0;,PIKY>M*F74H7Y#W,C>Q!M5(1%_&CZ"535/9 M2U_O&2HX$^MCXGM'4'EL[&A/@(??R\TQH6-7^!?-\9LWYY=Z?H=>(#="D7^F M"VT4=,9_76^H4AB[%>P7^D:O>2BN!O
):J$V8C#Y\0=ZZOWBPOM.8E_ CAO8 M,;8^J7O&HU@E%A?ZRSW/A L9UYGJT':VF4RY(G,1QKE,Y2H1^@AZ77CLPD8% M>V*?--@G^V 'T&;%4VAB))
[([^+9!8XK>9Y' 1./>LS%B,;V9#QM&$_1E@6% M4C8GMXD.@?&3@,S)TM@.'$F&%<;#BD;^M0%B0;VA#QK(,_V2>1MDL(W&P#9 M2BIG%G&9>YD/>1C")*1 (ZKT7*RH3$_6\X;U?*].6^?
U4:RE,DF^(C/#3>$< MR7'!3\[A/T"#>C)>-(P7:).::6O^O';V4CR<>L./+B0TJB<2]=JIV-L/ZD&H M1$;H5[A#JIDK.R=+7* OZRO;0?=C?3WLW,)%M]/ Q3H9T;"^C*QE9-_$6*>U
MFQ*7^^@[&=&@OHRM":*H[9A, 3"J(%.^:EP-[3U-Q2W)#7H+.-I2JX++#3]K]_>'ZQA5N/$.86QHZVSH7M9F M%D,IC&8/E^G.WB&\#&W-#-
W/S<@L@W)T9F3X^0A@;4U*/A1&&RAAN)NI"F[0ZG JY6%)U!U218%=E M >6'?061VPKLL$HW3II#6!W66AV&^Y,:>R3,)JP:%[K-TAR;RA M?WK&3CWG-(D']^5M[0[#'4K-.XTB4(=BMSX@[^
^\B%WYG6')&6^Y\&H8MQ MN"Z$<7(?P@*QU@(QW+-\S1W8,^C3<[G-GQFC!O1!PAB<(M4/Q'.R[M<\4 C^M+VCHDAAN:QK]_++@R0J7/=3'M9,2UNLP#'M87L?5&#/5LK1+# MK5(YN$Z5X-
T?(BYPQCPGUB%6>EAKCQAN8-(}LGB.98Y58CM$SL_8\,3SW'R' M\$)^ZX5\W+C,$P,UIEP2RGY:_$QF(BP49-*YGX K52;9N7=P"/OCM_;'Q[T*
MC"Y1N0+YG"UDZB3#!::S^9V3ZQ#VQF_MC8_[D9= +\OI30O)_8!S=;UY']0 M2P,$% @ Z8%N63>4%V4U" GR, !@ !X;"]W;W)KSA^)DA9YZ9D=?6C7BEET,]U4=;GDY4Q
MFP^S69VMU%K6[_5&E?#-4E=K:>"VNI_5FTK)1;-H7RV MFI_IK2GR4MU6J-ZNU[)Z^J0*_7@^P9/G#[[F]RMC/YC-SS;R7MTI\^?FMH*[MV4[+(E^KLLYUB2JU/)']/@[I416$U 8Z_.J63W6_:A?
O7S]K_T1@/QGR7M;K4Q;_SA5F=3]() M6]BEW!;FJW[\774&Q59?IHNZ^1\]=K+1!&7;VNAUMQ@0K/.R_2M_=H[86X#9 MR +2+2 O74"[!8WG9BVRQJPK:>3\K-*J/++2H,U>-
+YI5H,U>6FW\+F\AK=_7Y]_>T.G:(_[Z[0NY/?SF8&?L=*S[). MYZ=6)QG1>:H//GM:!WS2UFOD"P7*+,7ZJ]M_8 +,+[V6=VJ2AI5-MP?YI03'+/D;/:P;Y K MAR.6/(9U/Y>O >4$1X/K'&%
(K\=\%A7>6>!#UGL M(HMY*H:>)H@QSO;$#@ F.X!)$.!MI38R7S1NU&:E*D@L;4C()B1\@!,"::$ M8C$ [(I1Ö;CPX^4[O#Q\,+21Q0LP(VP'+&FV92%XA(N! X'2!V!0G&' X,\4,6.\@B"/DB
MR[;K;2&-6@#70?[)^"^.:$H&P#URD-F2-&4CN/=8%06\E;9#:WN"Q4%. MFW^/!8)S5-ZC0D%)A2I;.YWJY>D6;MKX'=\KXNY5%/$HPL/-\@C2A"5\)"9P MSYDX3)JW$ ^EV:.?
O2B1:UV9_.\F2AHVPEQ,(<>TG(0YG=*4'R6F#L!!JN(\ M<BJ"=:'&9:&S'F":V56>D%RH&O:F,#R O5Y<Y ;J*7_J#-+RJU/G&VD[-+HG9'R4D?46D@_:R"=;!'L-=@F6,9$R M9VME9F(19^*MJD^%&
A4_(_4>(^)A5"BVA@'I$6-078[@[%F7 M!'G..K/: D[U@0A]I3B0D3#-L$CAVG,("1&4.ZUHV&V?$8)?]JQT47A! MNEQ'11(1QX^N')Q,H)81C#TEDC E[C!6>JEJ.[.![&%/?YZI&BW5B&]=_B(1
MYQ$;PG;E4B9(.L+DI"K MC73)%7*.H"/<2GIN)>%>]5.5+^[A7&GI[?6(VW!2''/F!._[_@RQ)3Y8D3)9M M<1@Z#CB*OM[Q3ND\S2PTX3@=DH%',.8) MCL:*7_Z357KH[49?=.V]JVT'9K=$S4-$_'7-
7AY]9A+6[# ,R!L5_[NB0^M[X]=), _<&9W]6.EB >S_ZR\IP?PC MZF8+[Z[4,L]R\YL_+;QI*?!6V@Z]T-<+-%POW"D[ZD<74!RKI8+TL$"U=G-H.HE(AIE$B(#_#=BS::=5M P^.ICI<
MZS^=;N7AQ'Y(Y-"7?5U"PW6)C2> ^NR_:.# *0*^M0YLG+CO/3PE/)XR(AK[M"4VG0B2O\:#7"9X!/1G.YCU"9&0\0_O*AAX9 RP6N6F[K.9135ZB3&YR2(I> MG)Z!@*!V<.TT 3[1-
!*,I&.%,^O+&!8N8PZ?)C3A[WTJY]8EITQ$."8I'S9= M7MF4,)ZRL2*8]64,.SH>V.'MGH/I-03QRKZ5\&"KX]K+.\P=!0C&AT]!/%+I M:.7.^B*$A8N0EAEK3^957>;M7.\-^89)%
2)TZWZQ$\A1U*$CPRE6%](<+" MA4AKP5[EV 3F2[C$:Y'[--H_J/0(^@>5L[VW)^RK*_^4U7T.K6VAEK R>L ! M*57[-DA[8_2F>:'BNS9&KYO+E9)@B!6 [Y<:RH#NQKZCL7LG9_X?4$L#!!0 M (
.F!;EE_T##1F , # . 8 >&PO=V]R:W-H965T&ULM5=KDYLV%/TK&MKJ;&:VR\N V=B>\=KNI#/)UA.:YK,69*-90$02=II? M7TFP&
P+=I/X@]'CGGO/T>M*LR.ASRQ&B(.O:9*QN19SGM_K.@MCE$)V1W*4 MB9X=H2GDHDKW.LLI@I$"I8EN&8:KIQ!GVF*FVK9T,2,%3W"&MA2P(DTA_?0XUTSMI>$WCL=<-
NB+60[W*$#\4[ZEHJ;77B*B1&@_ [8QBVP#&O2 U\-P]TV7!=J:\E6+=E2_B:O^%LF8NW"+$1 [(0D>*)[XI$+*B0%!EG??I* MAZYR*#?
&86',]$-3PI!%BZ5=L[0'66XA%\//@%,"'>7X&Y2KOH^;W8EL>KYK MV&<$^\QL>^KULYS4+"?#+,6F0Y2B"(B5&C[?@AQ2<(!)@< -SL3@)@FD#.1(MG!RQ6%"]JZ<,X37'[LXP#/-,P2
3>=S=LQR&:*Z)\XPA>D#:XK=?3-=X.[!F MG%JG3:7G.Q/+/N'?M+'OJ^VX_<;\F[E]/7%P;&(=9A+/]&'O_0O9=NR'VIG%* M@\8@_P!1+!@OP6FG!U)+;
[8;=''7Y%JV2WP_RUA;>R/_FSS_!]QBCVW[=S%:"YLCRG9^N/V[4EG/*].9+P7Y%PV>ZOG#=I3:9FE_V869O\ MZ1I@7GD/N/X$J"*,*A@S:RLX)7CSR@R?X"\%CM2U"^2J$XD[8R]SIW.W\FW'
M]:;GU+MVXN@R7/^,N]ZXSLNWU =()SAC($$[33N/.&'EL^3LL))KF[X3X2+ M]X(JQN))AZ@T$/T[0OA+13X:ZD?BXC]02P,$% @ Z8%N62P84R^;!P M6R4 !@
!X;"]W;W)KLN"D,_OK[P.AH=C&T^SE2QN2XV.> MX\=^C@T7KT7Y5[460J+O69I7EY.UE)OSZ;1:K$465V?%1N3PRTM19K&$RW(U MK3:EB)=-HRR=$L?QIEF?OB*5FM9?W%].IB$Z_$7,@_-
H\E7$T/+,LD$WF5%#DJQRO$NP; 8VY V@9$;< &&M"V ?UH#ZQMP#[: M@]LV:$*?[F-OA MC&5]=E,4K*FLTL-4?&O6;UJ!7DM>),I[@/ MH_MY%*+Y_5S=!?=/_1PV?T\!@]73_?/MS/T?
5]B&8/=X]/T1= WOX9H=M[MN([0*?IC'J*37W^_F$JXE9IPNFB[O=EW2P:ZI>BNR.6Z0E&^%$M#^]#>/K"T MGX($!QW(FPXWQ$HX%YLS1)U/B#B$&>YG]O'FU!3._]=[]*][[XE!#TE!&SXV
MP/=NU:'?ENZYS,=?]ETP'$1(@+NO#0AW&L! 0 M/BHRH%R7^5V?O4C9(5+6M*-#Z5]4LD)QOD31=UA[*W.TS*96O92?5YMX(2XG ML%97HMR)R=5OOV#/^8\ID<8D"\Q@(UYIR^X$H7J#X-
%EG&H8] M@_LN!;C' T_).AWE!82[1,DZ'889YXZOI)T!YA/'QYXY[Q#^N)XUW"<0,"X7 MZT]0U'90K3=0>V63AUF<;U^@?&[+)%\A, 1E7%=48UYZ>J@.=:DRP68ZC#(6
M,%41'88Y]KBG"!SI..)3$K@#DO"#)-PJR1S, H3\":U$#D&GC1KQ$FI>4LE: MA)TQ*;A^UP1[5?3PH!C#F?J.A/J..K[/JPUB@HZCF'N8S:@@G]0P;>KL(Y+ M<5I;GR5:%%F])C7C;PK=UV_590RKR[
.PS1P/*X$KL-X$%"FQJW#"'88Y;XY M[N 0=V"-.Q2PJ"R2>.\>ZY'/BE(F_PP&'QBRE5,U=AU%*"?JF.LHEX-&2N0Z MBM. <7/ %CZIIB GH.#[@ZMPQ 2##]!TQ520=B[&!PA70@ MSTBG +$J\%]
(+O12%AEZL!:5EN;]+9Q"^(ZO55HC$E8"1YM@)B1W MC-:FEB M0&('G![WAA3H7"VF5K/W(->B1+M)F@'GS8O7'1T^X,=G"4=FBL=CZ M0]+9;VPUE>V0).V0B'9(/J%<2..X,'T>,2CW1,U, \[U?
#=0\}* \WRF9GID MQ/7X^O%WKA?;;>_7N"QC6/DK(64JFB)P+IS/<5@^:FO2F@ $M_'CI8_!J#G M,,;5W:N1$>/>4MF/O+/-V.Z;]Y7MB+5-=ZZUVR'JKL& 8Y[/U5U^:,"=NCQ@ MFG\R 3%U,?;8@
:=:<9VU_P6=UWC?D?@(*._MXG\@>Z$7!=+D&4'J5'/+G/% MTSWM*88-C2J(]1Z.GEB&3DF@KSRF>^,#IQZX<]O8;K?OA40]T8RZ!-J9RREL MK1Q?W3O,C,@
"KPZ$4(3$G;QC%$M>YB=US:^&C1Y@]S=X+ MG=S$5;(P"M*R^KU;.J,J&BVL=^?,48^]C&3.F6HR(Q.;Y[&!%""=(R9V1VS5 M($S2K11+LPKX8RK@#ZE@(C.I8&"SJ-"Y8F)WQ5^;)PFPV;
[>@2E>"=@B9!DL M((T.%7K8RDK"?]$^B[$EANY:,;&$]&5UB0 E;W=?VD;"=^ MOH2248^.1V4+1V6+QF+KCTYGI(G=2'\N2LC:"'VV92GRQ0DP5=7Z?X\;14G M^?0D'1PD5W]0P;GJAPPH'
1,M4,&F*N"(E./V,=#JUGG@HG=!==K^K$9:C+% MGN\[ZLGHS(CT_8!2MCLD6CLH6C<76'X3.F1.[,__YH\26X"?\HGAW-D)MUZ:& S/4TTT-' MQ<[Z3WIC#6Q&^N[)
(6M1I&+YI11Y"OX7=2/Z9R<.3T>_?^WH+BYA/E0H%2_0 ME7/&8?Z5^S=Y]A>RV#2OJGPKI"RRYN-:Q$M1U@#X_:4HY-M%W<'A?:JK_P%0 M2P,$% @ Z8%N6:Z(BE % R"(! !@
!X;"]W;W)K!=W$,XG$\U-.G>Z9G9W]0Y%P MK*TE^4ARTKS[1;)B#-S<@N2;TS_:I('/1;W%00 _;EY]WFS_W-T5Q5[Y:W6_ MWKV^N-OO'WZ[NMK-[XK5;/?
KYJ%8EW]RN[FN9OORM]N/5[N';3%;'%=:W5]I MHY%UM9HMUQ?7KX[_[]WV^M7F<7^_7!?OMLKN<;6:;;^\+>XWGU]?J!=?_\?O MRX]W^\/_N+I^]3#[6-
P4^S\>WFW+WUT]*XOEJECOEINULBUN7U^\47_+K?%A MA>,2_[4L/N]>_%HY[,J'S>;/PV_"Q>N+T6&+BOMBOC\0L (_GXI)<7]_D,KM M^.<)O7BN>5CQY:^_ZMYQY\N=^3#;%9/-
_3^6B_W=ZPO[0ED4M[/^_WOF\]! M<=HA\^#-_>[X[^5ST_+CJT+9?ZXVV[6IY7++5@MUT__G?UU^D&\6$'5.U;0 M3BMHC16T4<<*^FD%O6\%X[2"T5C!
[JI@GE8P&RL8:L<*UFD%J[F"UK'"^+3" MN.\^V*<5[,8*>M<*SFD%I_EC-;H^N-'73V[47&7OMIO/ MRO:P?.D=?G$<<\?URU&R7!_:P\U^6_[ILEQO?SW)LZF;W;A3Y>;]F_=NZF;O
M;Y3<4R;!F\QW;Y0P*_\@G\1!GDS=WV_^0W"__D?X_K^5GZ:N%T[*]S\KE\H? M-U/EIW__^=75OMR@ WLU/Q5_^U1S#AR]=Z[KR==^5+:S8;HN%+S<.A$_Y2_NK_RH^T7.OM['ZVGA?
*_Z3%ZD.Q_5_! M%GC#MN"F+%?LE#=*XP\$LO]-LOJV!QW(Z$CGMTK[V;+Q66X5B:SAZ7XX$Z^U>JYT^DW^]{?07:&G<^?!D%Y M>$R+V^5\N1<@N1S)W?
%5GE)E1]1>=9S=S@=*0=7N)YO5H7R4[+9[1KMYJKL M>_-3WMN?MJQGM%1[VWQ<;E>+]]F1: M1_-P]O7IVG8A"R;DEC6 MWH=+PQ@;VMBVM/I.Y()%2U4SGA>K#5K]>=#J P?
M3\NULKN;E1O_3JY.E[X*,_;GSJ*J'](E:']PV@U254S1K;:^!MAVEY. M4S7=,ISZZA_S6:1WKEYK@Q$9:=6@;(3&7Q#P2\TDL(+&0Q"(2B_L=C@E9,R6QC,1R M"*MU$G7TW$H.Z3_IA=QCHF?
WW$C*KG*[V2]'2LNY^&[.B:SJW:F-S68[D5<> MVD]0S44U#]5\5 M0+42U"-7B?H=E@A9-42U#M9S2ZJWE14Y6 .[6;SVMWEWEK+[Y1%4:S*1K18?EHNBO5"V'C(^-\$U::HYJ*:AVH^J@6H%]):
MA&KQ2:NU6-4R=<>VFF="\:&86U3+!7ER*=R.G"M=[2Q6N5>7IVJS8RV+VIY;2 MCF9>.HYCV2^RO:=V@<9C4=QNB_7\B_)^.UOO[H_)F-,C<:MB+;S2>Y)KS=\> MMZ[,D#G$*;]YJ.:AFH]J
:]%]!:A6HQ]":JEJ):A6GYN--?[2Y7=5>7A77>] M:#S!%SVN?U7TT?$!(%W85]KIRTMM[.BJUGR(3UY[<&]!H[FHYITTV8-\:,% M4++#U*!];,4*U6' 0&9:EE7\%C[7F5Q,T?(MJF6@L&)8S&MNM_
0ZGJ@'RV%1X%D 6#01%A4_WHU4C5(M1+4&U%-4R M5,LIM=YIJKRI*@^>]KO%(8CUJ:HSLD;.N'F"@"9-43:U?9WRIGB07]?0VAG 2GWL0;;:.'V;R&L/ M[4&HYJ*:=]*D$XZAD5-
!P?:48VB0%-5BP4%D6/9H;.K-W4C0PBFJ9:*Q8(Q' MCCUVC,8!D N6-<'}+H_*.H-D4U%]4\K=\643DSN$VTPU>7UDBWS,;5S.EIP=HL MD:;JM.8913?/0S4?
U0)4"U$M0K48U9^^AUS:\Y#+T,W+*:W>!JK8HL;/.2HG M![<$~N(:BZJ>:CFHUJ :J'63NBI(TMO3#XJ6&IL-&J**4FCU*^VQ8/LR^)RH.?:7VBIN'Q^W\;K83O=WEK2:*[)FVYC2?MI"7
M']PUT'0DJGFHYJ-:@&HAJD6H%O<},!.T;(IJ&:KEE%;O,%'<4I/+8=,:CFHUJ :B&J1:@6HUJ":BFJ M9;W'8$[5K7>4*N:IR6.>W_'B4UQ[:7%#-135//Y_H1 L&@H*M M. =:,4*U6'
0=24ZT<(IJF6BL="5Z!0LVYWHU*M$I_Y#$YUR?>C]&%2;HIJ+ M:I[>+]$I6*R=Y! L)$QTHGL0H5J,:@FJI:B6H5I.:?7N424Z]>-]\?;RX:8B2 M.:9F6:UWO\G+#VX(:*)3/YO!]-
""/JH%@LUOSIL6HA4C5(L%!Y%ACQQ#LZWF M?1&T<(IJF6@L&+9FC&U#;TZ,*5C6=O2N4X 7;Y,'7R>?;$\^VY97M2[+OE?T3P4Z^"G[HT
M4=8[^"EG!O<30;A.,RW+:5QPF*)E753S4,U'M0#50L'U4QOH05C5$NZCC:[MD>5,T;(9JN645N\353)4YY.A"DU>[G:,WF@^9'42W6!:G*Y@XD:,D4U3)4RRFMWE.JZ*@N
MCX[*>\K9$QPRO#9!M2FJN:CFH9J/:H'>CA!JJCT>MTYPT/@HJL6HEJ!:BFH9 MJN645FM&1I4R->0ITR&/VQF"9*#F.';S\1AYR:%-!=5<5/-0S4>U -5"5(M0
M+>YY7"9HU135,E3+*:W>5*K@JR$/OG8UE7/G-G)VZ+D-JDU1S44U#]5\5 N, M=H+6;F9Z0K1DA&HQJB6HEJ):AFHYI=5[D%;U('E\)MUV,R^*Q4ZYW6Y6RNYX M*7FMO'F?*K>S^?)^N?
RB[(NCM.8%'\=.I0X+F,(0)WB MH8^H*OEK2!.#UY.7M\>7N]UC^:UKOU%VQ7Y?-JO[Y>S#H4TM.\YOC-9QJ]MF M\P1](M^$P4V&U%Q4\U#-1[4 U4)4BU
M[G=8)FC1%-4R5,LIK=YCJM2P<2XU MW+/'G#WW0:/$J#9%-1?5/%3S42TPVN%?O3560[1FA&HQJB6HEJ):AFHYI=6[M4I4D-N1)XG\\W3-
7MH5L\EFC'>R\U*W1X9_F60X:)$8U%]4\5/1+4"U$-4B M5(M['YD)6C=%M0S5\QF%-UZQVE2@\/VSB6:,= M,W4--UH-
ADT$XQJ+JIYJ.:C6H!J(:I%J!:C6H)J*:IEJ):?']5HSO<9HF4C5(M1+4&U%-4R5,LI MK=YGJHRM^2.FJ#7;&W#C13*]B+YA2U:$$?U0+!YK>FJ$4K1J@6 MF_VGJ$4+IZB6"7:C=V9/
M1NVKRM@:&ZV3LXF\VN"N@R914E55//,]E2SK7LK:"154%#5 MFN\ 0TM&J!8++#B+#T0W+MINS:"9HX135,L%N7!K.2#4U>ZPU+Y>TEW6,<=?E MDBH@:LH#HOU?
ZB<>S>C\M*@V1347U3RSG6P4WEM!@Z."HJHV-@VM=5L5S82B M6HQJ":JEJ):A6DYI]3Y3\4=->7)4>&_E_*W;=HRM(XB!)DE1S44USVQ/WMHZ M64#CH8*"@B &FOI$M5AT$'4%,=!
()ZIE@MWH#F*TEY4$,:JPIBD/:YZ]MW)^ M0*/3O:+-%-5<5//,=CA.>+Z 9C8%13NR&&@<@)5B5$M0+46U#-5R2JNU&JM* M;5K<1*Y6.W:FFX;>_"HXD9<.+,ML7A>1;\W@7H-&3E'-0S4?
U0*KG4YM M7D!!"T:H%G<<;(;:(]!DZFHEJ%:3FGU)E)E7*U_^22N\HJ#3W'0T"NJN:CF MH9J/:H'5SL;:QFBD-UL/&HU%M1C5$E1+42U#M9S2Z@VJBL9:TK1;OS3:R:A=
MT%8M9V1;X^99#)G4FZ*:BVH>JOFH%]!:B&H1JL6HEJ!:BFI9[S&84W7K':7* MMUKR?.MWS!-BM>?SU,;CYC0A\OJ#>PR:>$4U#]5\5 M0+42U"-5B5$M0+46U
M#-7RZDJQKH135,L%N="99!RGL_WL^M7#[&.1SK8? ME^N=?[/?+R^4"^4#YO]?K,Z_O*NF"V*[6&!\L]O M-YO]U]]=['C]WN?-@*^2CJA U M/->,JZ%7:;V^\GV55U@3=2[6R,U)*61-
M#'ERE=KB:1PH)KY81#T_9I0[L4# MYUO(>" VFE&."PEJ4]=$OEPC$]NAU_-VCCNZJK1U^/%@35:8H;Y?+Z2Q_(ZE MH#5R104'B>70&_6NDLC&NX#O%+=J;P\VDP8 4APUQ;!F*6)TR0
M,4MD9/QJ.;WN2@OS3VD&DYDYF"=?;N=?Q^E=]A,2;_>3Y4\X&:8'% 7QR'-_@O=- M8;KJA+0Y7(="'3-']!R'?][PU^!_R8FZGQ4YOHO7Y!"&8'I_ MM)Q"27+*]'XY VYF792
SV:R%:I#96]H^X[6SO53'/5['XVDI_UD_HWJ]R[[M>V&-:'^OVVJ4*S>$"G*QX;IIO,[;S?G(M;?_)(QY)*9$KBA7P+ TT.#\TC2] M; :O,;18NJ'Y]$-I,@MM6YJU":0/,>2F$WAGV@N[UBW\#4$L#!!0 (.F!

M;EF&I@=A;0T 'I[8 >&PO=V]R:W-H965T&ULM9UO M_"I.[N>G.U!OT!S"Y-#-I$-";W3;3=&]?$UM.N+7!"SAI[M.?A!UC M0%'CVU_>M+$C/<+F%TD\"#A_+*L_ZGLI&^?[:EG4'T[NFV9]=GI:S^[E*JM_ M+M>R4+]9E-4]:]3+ZNZT7E55LM3ZKK^Z2K+BY.+\ _:]Z^KBO-PTR[R0 MUY53;U:KK'KZ*)?EXX<3G*^S.WDCF]_6UY5Z=;JGS/.5 M+.J\+)Q*+CZ<7)*SU&.Z0EOBW[E\K]^=O1'N2W+/_2+3 _/)Z[>(KF4LT8C M,O7?@[R2RZ4FJ>WXI*Q[^ _$R/VP^O/LQM5LNK.+--W92K766U!:N\V/Z??=]]$0<5 M%,=<@>XJT&$%_D(%MJO 7ML"WU?@KVW!VU7P7MN"OZO@O[:%8%??WG\Y/&]6B MKG"/7/SO,?>]0EW+#!EV]OCHS?9_VZO_:%-;6Q>NKFUJ/ _]IG M3_[:9T_MU2,Y4]6)]7IO3[+-]7PYK>>P%WI>UK+ (F+^Z<2]W_YDTNZS/3G\@6 MP\T8/3:=U>ML)C^ M9?6]LZGE7/W**?>]2&;O13QD+X*$14B80,)B)"Q!PE(0K)=6?Y]6W]J+1%)! M9WFV/78HYDZV*JLF_V_[ABEZ5MRQT4/"(B1, (&'Q%N8==%Q>0-B@PTS&I0(6 M\F'7!MJP7EB"?5@":UAN[K-*3O31X=Q1_9@Z9*Y?S(F5=&Q.D+ ("1-(6!R, M$Q"&C XBD(R+4>)R%DP'40%M6R\JTWU4IO:H-.7L#R>OZXW*RJ*LG,>LJK*B M<6K9-$NIAT=3:JS08U.#A$5(F$#"XNDX-9QQ;]B](-M,0;!=M,))M,+CHJ4; MR&>R-@7*BCHV4$A8A(0))"P.1X%B4\]U!WD:EU)'"]Z@5 K:L%Y0B-OY+-<: ME233L^K"64HU9CFK1 3W27-Y6VC^ZA9N3'/N.V\ MHW,#5=)0FH#2XAWM,]3W_6&QVJ&8B0(F$_),#=OX9)))Y.)W28_#V?RSTW> M/#DKV=R7VDD^R*W+-$:'CS\;#;V!6;8W?'0DD#0!I<6&[X.&X=!BF[ZU8-2+ MO(7!)IW")E;G>/%)[?>B*:LG9T=WY'=M>Z0Q!E ;#:5%4)J TN(=K3?191X9 MGG%)#.4((2X=38C?PB.33B03NTG^M%IG>:7["D>?W3 F!2J/H;0(2A-06DP, M IER/AW-49"MIBA:/T^=:R9VV?Q\[-X)0SV?6>);9;,YLSXR]UV?4C#&#NF\^EXUT M?/-2I[9(UG7A<]/3R6ABM]%?FGM9&1," M5<]06@2E"2@M)F.Q/"$\Y,/S&=!64Q2MOPZP$]74M2X:N;K/BCO5Y?07@;0Z ML3TK?]M&1>$4*BZAM(B*$U :3&4ED!I*8K6CV0GN*E=<% .6F=4ZQ5,,G_(M;I?&HS\[Y>CD0OKDS#95I0_P7CZ!9F#TKK[.G%$0DI=:^@M A*$U!:3,=B>D)HR$8&V U P M<#U_>.XC16U>/RN=Q*9VB?U5+K-&SE54JN;)&AH#BP(;2(BA-0&DQ'8OI@+F# M660H-6$A#48]RUOH:]KI:VK7U\.S[@=''7,.;0%4VE!9!:0)*B^E894^8SUPZ MFO@:"GJ<>&24F[?0U+33U-2NJ=6(5&W:RS<;J?A&(6U''!T6J)"&T@24%M.Q MD"8A8Z.H&(JY(1^62U$;UT]*)YJI730_)^5Y_FM,"G0!-)0606D"2HNIR3VS M(!@NSTE,!:G+R7"1?8K:OGY8.JU,[5I97]WWPVO+C F":FG%E9OY 7J%6&TB(H M34!I,926,)-\#MGH* W5:C]5![?GL+OGT70JWX^-]NF4G7MTRK!W[,#>L@-[MSPZ#3S;T2H92;.JST&?#_+R%=V:==V;<.I6*\R(K9J^92D'E,Y0606D"2HNA MM 1*2U&T? O8ZC\WL'ONZ*R=2SFMG496K]KI7%<5V,G4C]2E7AWQTKBNYD%6E M^K;VZEAC,J&6&TJ+H#0!I<506L+&-GPZ==WAU;4IJM5^YCH;SNPVO)^YVRJ? MWTEG66:%>9"$RG H+8+2!)06L['C)L1CHZNH$VBS*8K6SU9GS)G=F'^5Z^W! MH>["?A@MJ#]'TB(H34!I,3.LY0Y=/G6'JT>@S:8H6C]:G6)G=L7>+C'99VMW M+5NY4$.CFKH9XP7U[5!:!*4)*"V&TA(VEO+4G4YI.!H5WT+*LT[*,[N4?WDF M=E6N5OH:@A1X47["";3=%$7KW]FQ, ?N'JE/R_%5* M7G=7L()XD%63W^K;4I:-OI:NM6.[15+O#Y9F6M9-V=L[.G0?E"2@MYD87 M3_SA@MW$5)"XU.-TJ,=0&]B/5B?MN5W:[_7]NBH?\KF<.[=/SKN=:_W)6>SM MF5VVVELY.E!0IO^E"2@MYF,)'WJ!R\+A9-]0D(2XF44V6-U" <5==R,&8(*>R@M@M($E!9#:0DWW?9D M?+,<5*/]F!W<0=MJ;K?=UC96^391[<#7_J /'A^RI3Z';8P9U/-#:1&4)]"T M>$?K'>KY 9V245_HQW>=IVX?!JPP1X3IH*$3YE+!NNB8FZXHXD) MF9@*&I'I:QKO[^#.A7.["[?N8*DGRM9=ZX\VC 64>'QP5<65H2"E/!Q=QA79 M-_?H/V^HT>9CHVW\M(FAH/'3IH:O99B5_G[M(#0/K.=T/Y?%I-VWW]2Q=IVU MCT\RG]3E4 D-I450FH#28B@M@=)2%*T?OLY4<[NI_BJ;354\6^IU>V#^['KF M(?RVDO/<>#6!G7QT&]'.&DH34%H,I27IX_[,#>PEGSSEESN[,6WV4U MR[>++U4#BXU^=M7SW=C-4UNHJX;2(BA- 0&DQ'[MJ.KS,%MIBBJ+UGW/366K/ M;JGU -K.B;8Z43_!L#;:1?V@F^W).%/>[*TV.-3:CG^^$P M=(:"-'0T&%[9D**VKY^G3E![=D$=E8^%4Y6JAW+F4JY4-S7/M4TLC!-K.^SH MV$#M,Y0FH+082DL\P_U)B.^Q<#HGL;P6S9WA!Y M6=:,;JAT6VSYLL53$O-@^ %;U9.;G;D$%-90606D"2HNAM 1*2U&T?BX[U>W9 M5?E=0SG*V.C!@REJZ[81.3UX0.]* M5G? MPYIKI[VQB6[DX-W] Z$ØV\<@#][_2,ZNB.'])B)P)T_LQ.4NVCX'NFMT^ ME?K7K+K+U>1M*1=J$]R?]6?5]L'/6]?-.6Z?6SP;=DTY:K)\5YFYU[07]'V2-? PCTE&>$ M#ZRU$$7/MGFRAASS*UH D6^6E.58R"M;V;Q@@!<:E&>VZSB!G>.46%%?RV8L MZM.-R%("X;X)LQ>QY"1G<#JV7M!7?I:BV4P([Z!5[!',1),6/R9M+@>4HAR"#1"@&+!};&$&6 M*2+IQI^*TZI-*N#A><"T;'+6!XPAQ'-?J<+L1Y870LM8(DWF;BCNV]0Q=-6 M? G-N/Y%NU+7=RR4;+B@>066'N0I*9_XJR^0>RA6TK$FJ,Q6<#"@(^;\<&_\)-F?-B MV62ZDRY^TP-W4;".117 MR'.^(-=Q?8,_H]/AGBD=S?#O&])H? 7PZW&1]\G^Q3]=^'U$IO+II<]N"%7WZT J7 M8K5+"409+&Z93)SU9&3DY4+17D1M-#R&>R-@7*BCHV4$A8A(0))"P.1X%B4\]U!WD:EU)'"]Z@5 K:L%Y0B-OY+-<: ME233L^K"64HU9CFK1 3W27-Y6VC^ZA9N3'/N.V\ MHW,#5=)0FH#2XAWM,]3W_6&QVJ&8B0(F$_),#=OX9)))Y.)W28_#V?RSTW> M/#DKV=R7VDD^R*W+-$:'CS\;#;V!6;8W?'0DD#0!I<6&[X.&X=!BF[ZU8-2+ MO(7!)IW")E;G>/%)[?>B*:LG9T=WY'=M>Z0Q!E ;#:5%4)J TN(=K3?191X9 MGG%)#.4((2X=38C?PB.33B03NTG^M%IG>:7["D>?W3 F!2J/H;0(2A-06DP, M IER/AW-49"MIBA:/T^=:R9VV?Q\[-X)0SV?6>);9;,YLSXR]UV?4C#&#NF\^EXUT M?/-2I[9(UG7A<]/3R6ABM]%?FGM9&1," M5<]06@2E"2@M)F.Q/"$\Y,/S&=!64Q2MOPZP$]74M2X:N;K/BCO5Y?07@;0Z ML3TK?]M&1>$4*BZAM(B*$U :3&4ED!I*8K6CV0GN*E=<% .6F=4ZQ5,,G_(M;I?&HS\[Y>CD0OKDS#95I0_P7CZ!9F#TKK[.G%$0DI=:^@M A*$U!:3,=B>D)HR$8&V U P M<#U_>.XC16U>/RN=Q*9VB?U5+K-&SE54JN;)&AH#BP(;2(BA-0&DQ'8OI@+F# M660H-6$A#48]RUOH:]KI:VK7U\.S[@=''7,.;0%4VE!9!:0)*B^E894^8SUPZ MFO@:"GJ<>&24F[?0U+33U-2NJ=6(5&W:RS<;J?A&(6U''!T6J)"&T@24%M.Q MD"8A8Z.H&(JY(1^62U$;UT]*)YJI730_)^5Y_FM,"G0!-)0606D"2HNIR3VS M(!@NSTE,!:G+R7"1?8K:OGY8.JU,[5I97]WWPVO+C F":FG%E9OY 7J%6&TB(H M34!I,926,)-\#MGH* W5:C]5![?GL+OGT70JWX^-]NF4G7MTRK!W[,#>L@-[MSPZ#3S;T2H92;.JST&?#_+R%=V:==V;<.I6*\R(K9J^92D'E,Y0606D"2HNA MM 1*2U&T? O8ZC\WL'ONZ*R=2SFMG496K]KI7%<5V,G4C]2E7AWQTKBNYD%6E M^K;VZEAC,J&6&TJ+H#0!I<506L+&-GPZ==WAU;4IJM5^YCH;SNPVO)^YVRJ? MWTEG66:%>9"$RG H+8+2!)06L['C)L1CHZNH$VBS*8K6SU9GS)G=F'^5Z^W! MH>["?A@MJ#]'TB(H34!I,3.LY0Y=/G6'JT>@S:8H6C]:G6)G=L7>+C'99VMW M+5NY4$.CFKH9XP7U[5!:!*4)*"V&TA(VEO+4G4YI.!H5WT+*LT[*,[N4?WDF M=E6N5OH:@A1X47["";3=%$7KW]FQ, ?N'JE/R_%5* M7G=7L()XD%63W^K;4I:-OI:NM6.[15+O#Y9F6M9-V=L[.G0?E"2@MYD87 M3_SA@MW$5)"XU.-TJ,=0&]B/5B?MN5W:[_7]NBH?\KF<.[=/SKN=:_W)6>SM MF5VVVELY.E!0IO^E"2@MYF,)'WJ!R\+A9-]0D(2XF44V6-U" <5==R,&8(*>R@M@M($E!9#:0DWW?9D M?+,<5*/]F!W<0=MJ;K?=UC96^391[<#7_J /'A^RI3Z';8P9U/-#:1&4)]"T M>$?K'>KY 9V245_HQW>=IVX?!JPP1X3IH*$3YE+!NNB8FZXHXD) MF9@*&I'I:QKO[^#.A7.["[?N8*DGRM9=ZX\VC 64>'QP5<65H2"E/!Q=QA79 M-_?H/V^HT>9CHVW\M(FAH/'3IH:O99B5_G[M(#0/K.=T/Y?%I-VWW]2Q=IVU MCT\RG]3E4 D-I450FH#28B@M@=)2%*T?OLY4<[NI_BJ;354\6^IU>V#^['KF M(?RVDO/<>#6!G7QT&]'.&DH34%H,I27IX_[,#>PEGSSEESN[,6WV4U MR[>++U4#BXU^=M7SW=C-4UNHJX;2(BA- 0&DQ'[MJ.KS,%MIBBJ+UGW/366K/ M;JGU -K.B;8Z43_!L#;:1?V@F^W).%/>[*TV.-3:CG^^$P M=(:"-'0T&%[9D**VKY^G3E![=D$=E8^%4Y6JAW+F4JY4-S7/M4TLC!-K.^SH MV$#M,Y0FH+082DL\P_U)B.^Q<#HGL;P6S9WA!Y M6=:,;JAT6VSYLL53$O-@^ %;U9.;G;D$%-90606D"2HNAM 1*2U&T?BX[U>W9 M5?E=0SG*V.C!@REJZ[81.3UX0.]* M5G? MPYIKI[VQB6[DX-W] Z$ØV\<@#][_2,ZNB.'])B)P)T_LQ.4NVCX'NFMT^ ME?K7K+K+U>1M*1=J$]R?]6?5]L'/6]?-.6Z?6SP;=DTY:K)\5YFYU[07]'V2-? PCTE&>$ M#ZRU$$7/MGFRAASS*UH D6^6E.58R"M;V;Q@@!<:E&>VZSB!G>.46%%?RV8L MZM.-R%("X;X)LQ>QY"1G<#JV7M!7?I:BV4P([Z!5[!',1),6/R9M+@>4HAR"#1"@&+!};&$&6 M*2+IQI^*TZI-*N#A><"T;'+6!XPAQ'-?J<+L1Y870LM8(DWF;BCNV]0Q=-6 M? G-N/Y%NU+7=RR4;+B@>066'N0I*9_XJR^0>RA6TK$FJ,Q6<#"@(^;\<&_\)-F?-B MV62ZDRY^TP-W4;".117 MR'.^(-=Q?8,_H]/AGBD=S?#O&])H? 7PZW&1]\G^Q3]=^'U$IO+II<]N"%7WZT J7 M8K5+"409+&Z93)SU9&3DY4+17D1M-#R&>R-@7*BCHV4$A8A(0))"P.1X%B4\]U!WD:EU)'"]Z@5 K:L%Y0B-OY+-<: ME233L^K"64HU9CFK1 3W27-Y6VC^ZA9N3'/N.V\ MHW,#5=)0FH#2XAWM,]3W_6&QVJ&8B0(F$_),#=OX9)))Y.)W28_#V?RSTW> M/#DKV=R7VDD^R*W+-$:'CS\;#;V!6;8W?'0DD#0!I<6&[X.&X=!BF[ZU8-2+ MO(7!)IW")E;G>/%)[?>B*:LG9T=WY'=M>Z0Q!E ;#:5%4)J TN(=K3?191X9 MGG%)#.4((2X=38C?PB.33B03NTG^M%IG>:7["D>?W3 F!2J/H;0(2A-06DP, M IER/AW-49"MIBA:/T^=:R9VV?Q\[-X)0SV?6>);9;,YLSXR]UV?4C#&#NF\^EXUT M?/-2I[9(UG7A<]/3R6ABM]%?FGM9&1," M5<]06@2E"2@M)F.Q/"$\Y,/S&=!64Q2MOPZP$]74M2X:N;K/BCO5Y?07@;0Z ML3TK?]M&1>$4*BZAM(B*$U :3&4ED!I*8K6CV0GN*E=<% .6F=4ZQ5,,G_(M;I?&HS\[Y>CD0OKDS#95I0_P7CZ!9F#TKK[.G%$0DI=:^@M A*$U!:3,=B>D)HR$8&V U P M<#U_>.XC16U>/RN=Q*9VB?U5+K-&SE54JN;)&AH#BP(;2(BA-0&DQ'8OI@+F# M660H-6$A#48]RUOH:]KI:VK7U\.S[@=''7,.;0%4VE!9!:0)*B^E894^8SUPZ MFO@:"GJ<>&24F[?0U+33U-2NJ=6(5&W:RS<;J?A&(6U''!T6J)"&T@24%M.Q MD"8A8Z.H&(JY(1^62U$;UT]*)YJI730_)^5Y_FM,"G0!-)0606D"2HNIR3VS M(!@NSTE,!:G+R7"1?8K:OGY8.JU,[5I97]WWPVO+C F":FG%E9OY 7J%6&TB(H M34!I,926,)-\#MGH* W5:C]5![?GL+OGT70JWX^-]NF4G7MTRK!W[,#>L@-[MSPZ#3S;T2H92;.JST&?#_+R%=V:==V;<.I6*\R(K9J^92D'E,Y0606D"2HNA MM 1*2U&T?

*R0"=SJ$P0*.F=*%WYG MS_ 69B2ACPE&S>P=E*&(OG@H^76 S',VYRLT$PYA916VX4GM;0MCJ[\5U"OA+98L6H_ M.05V9J!4?JL,:S[P*2X!<>J5R(!GU\B8U+HGKK)GRKRF>FHC591)<'"%;0>#MJ5YV.;%]MK K3%7SRTX#SK:4=G=B;DA39TW-C +C9!1:9! ;=5L^8G>AYBQ_ M/OB5=YQ1-:>&6,GNN7"K6;2P%0:A5H\4E7O.3 #8.4A'K#%8QTG9CCJK K.D MK0:G\+5J;+N5I; <_ '8Z&!Q\Y5CO5FG"V=:Q]O+#$/P1ZDRA#BSEY* MWVHD,=4;,TRHJ*!U.=LBVMWPI (_'4&7>QH)EVZTLOGP.N)M617?/_@/2T% MV%;S&D(].J:51T4J1!N5\W$JZ68V:A@ MEH,PO;9B@1?,)YY@*N5*+C?]X.LIM8MAZ&1\]YQ#K49.3>/!1/]^SN>1Z1C71_MLAGZH$9E9)7&$0\@*:Y07*AU@V)2AV9T;11#5RM,Z3\OG_IS!%7PQ8:1&&(@ MN+H)GT=BMN%.H]>F@U]+R:XC;[]U@2G(S>(U#47V-_"+=3(&NFC)L'?0.]CK"U5>S^B'8,EZ'IC;@M2(+4>%Z(I^-*Y#A'_ULULS2+.Y1,EJB= M-!HLKB91(%*,1#1 M^&>+&75'LN/^>(?^. <1.L2R%PPNC?1>9+R;12009KD2M_(-ION VGF/&2XUR MX1>:UG9(QFGMO"FWSL2@E+KJB]>M#GL.) U7' 9;A7'@V1X46%X*+Z9C:QJP M;$UH/ BA!F\)B5S?RMQ;VI7DYZ$CNY\G%XN;;_7P< M>\)GJSC=8IVW6(-7L'Z%.Z-]X>!*9Y@]]X^)5T=NL"-W/G@3<(Y5#X;)0QCT M!Z,W\(9=L,. -WPM6%3"8P8S8?T&%E9H)T)R./@S63IO:?;72W&WL*.78;EN M3ETE4IQ$5!@.[1JCZ? MW1Y_Z9V^0'G6D1V^A_\|>AOK_MOB"HY[\#HFW&@@ MV3V62[2L^]$A^ +API25T!L0.H-%O<2Y4<)"<@'T'43>-/AR" &X4Y.IDKN5* MID)[<%X\8F%41NM2[^,= FJ/ENY$:F_(^ZO1^<<%VC* <=&MH&2YQ372?0!FH+\GW%L3*TRJ*Q9RPQAJITH2>68&-0.F4%'<6'+D12 MFJQ6VIJW,J4JKJV0D%5&& 61GDA4Q!5I2BDD#(J6+RJBU#.P-J, 7FT *?RE MDE2C&20N9>ZMU0+30AME_R>M8PX-$V13;<6^@URO]E+VUW+'*1H,.QO M6M_6&L/Z\'!/MY54Y"OT_MV&+)";.F.-MUPC"EB1D<["MH7@<#>?FIJZWLP MESH-F:A#S5!H!0FJ1-0<8WA_6,9:>"2K1/#RKoCMEKW[X8W6KWWB;M M,_/#O'VL[X3-20!0N"+7?N^7XPAL^P"V$V^J\.@LC:U$@< /L0 9 >&PO=V]R M:W-H965T>8I "7K_R:-H\ #=M9P+, M--DZW0%VL1]HB;:)4**&I.QF?OV>>RG)=C8QYDLBB?=Q[NN0].7&^<>PTCK2 MC]*6X:JWBK'Z,!R&;*4+%0:NTB56%LX7*N+5+X>A\EKEHE38X60T.AL6RI2] MZTOY=N^O+UT=K2GUO:=0%X7R3Q^U=9NKWKC7?OAFEJO('X;7EY5:ZIF.WZM[MC[=A9R4WA2Z#<25YO;CJ3<Y7JC: MQF]N\IZMNXCEE>YFS0?[2)LE.WO3V>SSP\TO?GG]]O9 M[!TF"8MIH^3@P9G MNAK0\:A/D']DY"[XR[&8[%W_%J,(:"[I]F?M0E&>N$_TWF('AWQWY?"3=9. M7K;&4_(A5"K35SV,0=!^K7O7/_\T/AM=',!ZTF$].63][]7CH(F7 7Z]>_A, M9P.:_7'[\._/WWZ;? OU$XFM&=R5-*V\LC=]]ENZ 1>YV3 M*:,C!6%)YWWMLQ7&@:9+KS7&--(1:_W\T_ED,KIX34B6QO=OT>9Q15^L:"Z@ MZ2]TU.C- ,)_:MU)]FH?:@7C|+U9F6S5)U6X(D4@PG@$*LBY-D6* YC86Q!U:,"O:&3_NC\N/]^ M">E0R,.[>: :BN5LJ" MCB47.[H0KB'%G[:)8"$\&6LB<"+I22 %2@JOUF4JZGQ GY(T+S]IY0$#A$"? M=*:+,;)V/$[U:?250G&%R"9DT@A%U9VY9FK_D MM5D2,]:%P.EY0|>ZK7?C4TJ)9KW)L:5*> ^?^&&M;*TEF5T@:"O1?P%LJLV[M\[/^:#2"T>\)(8Z/"W;E$O'\BM18#6^;R:A=^:#]W,< :"LSE7C^9U)%>B MG0P@,W0-?]O$D[3J3I&DWS6U]@A[.8WIYM(:!7 MGQ1ZXB@#)>+|&"4I44M4Y)998IP**[,;:&>:*76.M7E4#52E$WB3]K$3R,: M!Z/4UN99YG,=S++D3MQKT- !VTTK;%105LMW9+%QNW#M/&3>H(!&"5*::UU2 MH>, '3"3R3W(*LFC:HC!1D,#<.L!" !65LA@,%C0G2^NW+XH8!N+D@XS@V&]%4H, "MAXWA?&99[:75 9O; MDXG@0E2.UO\? [EQSSE7#I$B3?]15/XP7"<*KA2D$C?2G;@U7-V MDH744X.V!_8K+ZS"1.)SF5.Z;P#UZ=[R5L-@/[?#U*<2]B#%T.M2@909(%VKA_?#E%]=3BZS"6B!.DA%EZ4 M##Q3\?)5AV@*FD8J*#*M] <:_9:9%,%S]QEO)H'3*]]? M\K'/)&PQ64B%W$8M@[XSKIP;U%@ HN"2=MC<#^Z5Q+VV(YR"*4[.Q]34IF- MG/R8/C0&V$P0W*:3MN1 M07TSK? G0$2A'+$)M5F6/"%5#HG4I15'@24BRK1RI*%/0;=^O69RGKC;PB|MA M2Q&2?O"(6? "VLNXM-,7ZE&GPOT5<24[(4L^[TT@;E.=BF*-FO/&:)I= M=?=(0TLEM ENY8,J[BLKZ67D?UR3UDU'6K. (>6738NP.>5=I$|FW1[BXPLF%BG2W2T>YKE6[Z]F 7KKT#'F$980'4T>:(Y^NVNDE MNDJNMW,7<5F6OQ05:0GL6P,K"87";%W;0_=YQ_3J02P,$% @ Z8%N61H< MB*FQ P ;@@ 0ID !X;"JW;WJK4ULE59M;]LV M$/[N7W%0BV(%!NB95M.; -.[*(%&L=+T@W#L ^T=+:(2J)*4G'27[\CY:C9 MD!CM%XFD[IY[[H5VFAZD^JIS1 ,/95'IF9<;4Y\%@4YS++GNHQCK^K*3JN2& MMFH?Z%HASYQ2600L#$=!R47ES:?N;*/F4]F80E2X4:";LN3]\0(+>9AYD?=T M<'/VN;$'P7Q:\SW>HOE2;Q3M@@XE$R566L@*%.YFWB(ZNXBMO!/X0^!!/UN# M]60KY5>[^93-O- 2P@)38Q$XO> [Q$HO" A&-;T=,KS-I%9^OG] _:-)ERW7 M>"F+/T5F\IF7>)#ACC>%N9&'CWCT9VCQ4EEH]X1#*QN3Q;311I9'9=]7HFK? M _$8AV<*2?B* C1J,_>[-:18+KGA\ZF2!U!6FM#LPKGJM(FE;F MD? PM>&;6 5QFLOC6BID(S\=BJXVB2OGG)==;Y/AE9'M[SG3-4YQY=#TTJGOT MYN >1*/P_ 3ON.,=GT+_]3R=AEM?WZU@W(>3L'"7(^QD01=75'LP?%O@\]?:* M[ZBA(F)9=['$+I9<@]P!Y<]@N475)=&)+3$]GD;N='#66SAY]^PY.7O<^]"H M2IA&H0\[\6 7VH=4EG5C2#OG*CMPA0[S+<2CQ!\FR8]5[XI7S8[RV2CK0+X\F8RCNI.-SD%4CGE3\283-I67DK! (@+@;RFU;=`0S MKBE!#D'W7^HGP;,94*+:NTFGZ:HTE6G'07?:#=-%.T-B+>3^(JKO:@T%+@C MU; -'GJ@VNG6;HRLW4329D/SR2US^B% 907H^TY*[2Q!KI?C/F_4$L#!!0 M (.F!;ED+@?$X(04 , 9 >&PO=V]R:W-H965T8G>!DY4VW^P2T<%]I6I[VETZUQSW^S9? M8B5L3S=8TTJI324<#HG<3SN5T+6W=F)G[LRLQ/=.B5KO#@ MVZH2YN$PDKG6WWCPL3CMQDP(%>:.$03]N\,+5(J!B,;W-69W MZY(-=[\WZ. ^]=M(%Q8OM/I=%FYYVIUTH-[!D6?Y3C@Q.S%Z!89W$QI_ M>*G>FLC)F@_EQAE:E63G9E^O+J_/;C]^^0"? +L]N+D_ZCD!Y]9^O V6%B[K HNG]ZTDLV64;!B=)R|"WF#3@V<01(GZ0MXPZW"H<<;'L#[MA'1H%OXXFUMG* G^?$YC@$B?A>#"."+:-R/&T2YEOT=QA=_/ZL60 39)"]M: X&B M-$92%4KU M #EM,=)B ;JDU*K;D]+4&EDO0-0\6OO$;;< 2E5LY"AJ1B.K283[$)"$2^]_IRW4?E26CBL MYF@@&?C7 W7+OKP3DN9%TSWB\4)6IA$);HUY$HST04?U'1 M4@2<)DJ3? 4KL#YR1C4*HJ>520Y'6L[%+H113-CXDK(WVUN1' 0406>,0?O!8 M/%T=X)GUX+(LT3>[G:"%Q6%@&J*^X@.B"!>!K<&B)?4;)6).%.UWDHE0\NU0 M&EV!:!JC[RES'%+F#.*@CZR? +F0C/[JKSAH?H\0##K=CW<;+PWNZ:+A25T@3 M!89 %!02RE7=:..[.+D**$363]#R(V4GGZ].",/WQI$NCUH^ M=D\@\KGQ&A**8D9__\]'*?1.$LZ%ZWQ0=R$A'SL%=F6_.,1J,HG8X@G0ZB M-(T[7W1]E^7@$$'THRB:3IB-NDPBI,1O O=@6/AE@9Q4[$AEPZ$^S']UO&C ML,;:L,6^]W4JK LXY !=Y-3W%A$LL*;=*C2<@JY$R7W=I_LVA7P_&$QCD[Y MC12_X3B;$O>(W- HFU(=ZZ.UJH=+^GTH9971ZTV0M)0*8YAP9HRG/,A@ MDE*XTVGG5CN2%!PUXH$:#%54$HUI>1JGG4]HN>WP/<&%Y>_3VG/C#DPC!SJ" M.IY&Z3B%GSI781WNA&I]F]A7P4QR'QR^ZO%> 6,M_(O,KZ:[DC^ G_%_KEG0' G55:A6?BW)U]KY#,\T+:S MV^?M67C5/6X/;^//PM#5PYVF)-.XEXVZH6]L!DXW_HTWUXY>C/YS24]T+-R! MUDNMW6; #K:/_MG?4$L#!!0 (.F!;EG()?FOD@( )$% 9 >&PO M=V]R:W-H965TK%7JWU/;RV_'>V$?%4%HH;WDG$U M@JMJZ'OJZS DJB>J)";G;60)=%F*3>^JB22W(%*YD=!<.Z7A')O,G*Y1SD9

*MB:UFE..C!+4M2R(_9LC$;NR%WCZQH)M"VX0_&55D@TO4/ZI':59^RY+3$KFB M@H/$]=B;AL-98NM=P3/%G3J(P7:R$N+5+F[SL1=80<@PTY:!F-<;7B)CELC(M^-UP>NV1%G@8[]FO7>^FEQ51>"G8"\UU,?8&'N2X)ENF%V)W@TT_J>7+!%/N M";NZ-HX\R+9*B[(!&P4EY?6;O#??X0 P"#X!1 T@|_OGQX6M_/ER->&T*;]K 'J:G#T"?@" M[@37A8(YSS'_%^\;(:V::*]F%ITD7&+5@SCH0A1$R0F^N.TN=GSQ9]WQ-^1: MR ^XHBIC0FTEPL_I2FEI?H=?QS]N"9/CA-8B0U61#,>>\8!"^8;>Y-N7\#SX M?D)NTLI-3K'_[S).@H]+NW]XFL-%#PZ88?]1**HN<.-[L88&8!*9,(93&G.; M@"7 6C#C7,HW0#28"])8KE"VMP2$YW"%69,-738>=];*$KAGQJ79=&=!=N;O MU2@I80]^0I+VN_$@M%&2=OM1V'DQ)@;*H9(B0Z4@#5,)N_ U^VKFFG)H?/8>-M$+F".SCK/ E-6$,SN#AW-/UN8|)CM^$?V*1$N7'#0)F.MUS7CFFS[;R9UC;[M6UX/JSLB-Y0K8+@VT*#73SV0]0"H%UI4SG0KH8V%75B8F8G2%[CJM1!ZO[' MM%-X\@=02P,$% @ Z8%N62TRW*#M!0 J@X !D !X;"]W;W)K&ULM5=M;QLW#/[>7T&X6]<"A_C>'-MM$B!ITJU#7X*^ M;!^&?9#O:)^0. ^DFR7&\7S]2NG/LU$FZ 0."6">1U$/R(24=&;2YLA6B@YNF M5O9X4#G7OAP,;5%A(^R!;E'1RER;1CCZ-(NA;0V*TBLU]3"-X]-A(Z0:G!SŸ MN4MS'}42L6^!G=U ,;2T-=P M8Z64#2HKMO*#]^/!;?+R+&=+Y+_";QD)7=&@-[,M/ZBC >EL>#F %AC85C"X)^MKO$UUC4;(AA_=38'FRU9<7O<6W_C?2=?9L+B:UW_+DM7'0\F RAQ+I:U^Z17 MOV#GSXCM%;JV_C^L@FPZ'D"QM$XWG3(A:*0*O^*FB\.6PB2^1R'M%%*/.VSD M49X+)TZ.C%Z!86FRQ@/OJMWYS]?P+N/IQ^.AHX, M\O2PZ)3/@G)ZC_(4WFOE*@L7JL1R5W](0#9HTA[-6?J@P< 8'D 61Y#&:?Z MO6SC7>;M9??8.\>9@W-IBUK;14'XXW1FG2$F_+G/V6 KWV^+'J:,E;46!QP.B MOT5SC8.39T^3P_C5 TCS#=+\(>N/Y>%!Y?W0/GS\<@%)? !;II]<&JQ!V8H: M/E#!U%HH"[=SEV)-]>:VISAX>]DD4H$BKJ%GD/9+3[96K3P SQ[M.DF3]!6-DBC-XV@2QS1^#M,XIW$&+^@KRT;1=#KV\VD MX,PLJ5% .@Z$B,!5'"%]UTPJU!@**!DN0RFD0WA<0"X/(+L#S 8.!9/""""LI5 M+(!$4L,+?D +U-+ *Y'60CB$=N.V:+S3Y"-!&H^ZPF#@"];V!=\"EJ"-7$@E M?'^9(]@D 9Y-L ^!:HTN$,MN,1O%6];Z"(*TU.(*;:B.0%AVBIRS#O"&VJ]% M,%3L,6>S=4'UG7U#2N$%:(5S6#[Q+M(273M*$\#WG3B16R(#3CM*!@&._D@/LJS:#RZ&P]16PV5*#FB* QMLJ76^@BM*0)I M%YA>UF40W,V$WR@?3Z(D'8&<>Q&*]VP-IY2D&H@EGA('3)1NZGM8HCK6?\N4 MM&<*:P>*[(0TW;4[TX8]',OO(=#A)! B(A3%TC"<_<3)DP MM8[FI%K0$50+5?@(A51WL4HG49;<1[HT3:,\YY3=[]$C),F2#:FS]'&23*>9 MJX5)0MSV,:=?BQ0)(FDBI2H@ *PA>(G2^RW2/<, /4;TXG@L)D1YOY8B+:C MK,K;4J'']J420+0; 8"6X&Z7Y)]2>V%A\B/*1PF%F%1:J%>"\Y>KV'R5R,"R7_ M1M9)LFF49KV%?$I?XVOV_K9,RZ7A)D"K8AA7D51NX8FG)1,K'*O5[N ;FGM M3:3[N,VG&AES*WV'T[;O>11N3=IW6I_G^G!>7]I*23TW2T4Z./$)3]G)-)"C=S) (5:4^\?7?B**Q".-B#4/V[B^0HJ:C>D M$R@0]/W-F#:CN!=">U@AO1'%VU_"EvD3]U_K*"M '=E-!E',1W,H0;B?UM! MAU&6], "MZ1;>T@S+,32XIW6Y9L[;10.![9L-524X/G[/ >1A+7UI37 M^9S@SXUN:-I<476P;.BI5C:R%OS<4%>WQFO(EB>/E:4_U@CAC(\K&ULA55A;]LV$/TK!W4K6L'S9,5.O,0V8"^F0K2P$[4T\ZBRMKF, M8Y-7*)@9J@8EK6R4%LS24)>Q:32RPH-$'\:=)C:#]QS\O*NHEX,6M8B0]HOS9WFD9GSU)P@=)P)4'C9AXM M1Y>KL8OW =\X;LW!-S@GF5+?W>"W8AXE3A#6F%O'P.CO":^QKAT1R?BGXXSZ M+1WP\'O/_L%[)R\9,WBMZC]X8:MY-(V@PUK:WNOMA^Q\S-Q?+FJC?^%;8A- M+R+(6V.5Z,"D0' 9_MFNR\,!8)]\ D@[0.IUAXV\RAMFV6*FU1:TBR8V]^&M M>C2)X](=RH/5M,H)9Q?KQX^W]W"W_'.Y^G0[BRU1NH4X[^"K $]?@?!*GY6TME8%;66!QC()2]\GW>M9I2<)'[9PEDR@#1)QR?XSGI_9Y[O[!6^&\PLW"'3 MU\]T&N&O96:LIKOP]TMF]?X92Y'Y'>F83G.(RH @_H)H\7;-Z/SY.J$TG&O M='R* ?]/XC3\R_KQ%D:C(1SQP%K"[ZW$+J6CBP'8"N%:B8;)9T'I46,!7%H% MC&JDU(A4CJ_= H%S))]36LV:L9C)' M4!LWY)I*+E*'Y7&&'$U("FPK(CGB]=DLP),JB;]8ZF;. MOX=[QZ.+B7=,RDHH2""]'T'7<J<^,Z:MP0-!E>3"+0H?>'@56-[[>9LM2]_6=%SR5] M%T#K&T6'TPW&PO=V]R:W-H965T*RS BNF1(}&03M;]2IF:*]NQ[I6R'+G5)7C)(JF MXXIQ$2P7;FVME@O9F)(+7"O0354Q=7>,I=P=!G'0+0+5SRZ\+8A?%R4;-KO$+SM3[U6-!0W*#FO4&@N!2C<'@9'\<'QQ-H[@\\<=WHP!LMD(^57._F0'P:1#0A+ MS(Q%8/1W@RLL2PM$87QK,8/^2.LX''?H[QUWXK)A&E>R _)S4QP&^P'DN&5-M:2[E[B]L^>Q9O$R6VOV"SMLFLP"R1AM9MWK0X#A_WH"8>D=4A< MW/X&%^4),VRY4{'(REH3FATXJLZ;@N/"7LJ54;3+R<\L5Q?GGT\O/WTX_G@*MYQ>?3J\68T.P=G.Z9AD>.!E0$&M4-!LO7+^-I].Z92"=]I)/GT'_M-IZ'L&X0)R/X 0L^%0A; M65(=$$%%JDBFLM"4%(@_K@Q5IQD?&:E7!N%SISS-MYS3@-J?'TAB\^QK!B-3?D M\VI$1Y!N4/G$19NX0&EGL-H0?)=[$#I\CTDRU#VA'1O2MH=Y(A\7[$} %HZRPMIFL"!VH@+.O(R>]585*UUCM@+;^;BB>:Xp:Q40^E-F+ M8Q<4VMYJP[X_WAIS04J@-F1Y9ZJR]-OL+ H-4J(Y/+E@ W"\I?:OT3(B*:9I MF,YGSO$5)&5TBTCB.?F3;8VNP99WH37>%3PKK'Q$,)E&K4LB-5UR3/G MF?5H-@LR[(I2M(7D\:W(VU)2-O9&KV"Z!S;_.)5XY<+DJP[("421&EWBWK"R M(0F9# .#SEZ-UQVH00*_NA_>U*&PO=V]R:W-H965TWZU+DU^2M&Z;&'!2%VV'KD'<;A^&?:"DL\5&(E62 MLN-_OSN2MN76-@;LBRV)Q^>>>^Y%U-5*FP=;(#IXK$IEKSN%<_7K7L]F!5;" M)KI&12MS;2KAZ-8L>K8V*"_J2I[PW[_1:\24G7&5_[9G1E?Z<:54N&= =M4 ME3#K&SHZSKZ&P>W,M%X?A!;WQ5BP7.T'VM[PS=];8HN:Q06:D5&)Q?=R:# MUS<7;.\- I2XLJUKX$A2K1_XYD-^W>DS(2PQO<<8SR7O(A"J4=6P79X MV8&LL4Y7<3,Q[*0* ^(QZM#;,.H?V3",&X:>=W#D6;X53HROC%Z!86M"XPL?`M]M-J*V3BI,R(W2VZ641 MZ28@#8\@O8)/6KG"PE3EF._O[Q&K+;7AAMK-\"3@#.L$SOM=&/:'%R?PSK>AMGGN\\R-XT^^-=&OX>Y):9Z@:_CD48X"X. S!'?+:UB+#ZPZU@$6SQ,[XV9/! MB_Z;$P0OM@0O3J%3P$:BY5Q09:(QF,/,Z>SA$,_32'_C*%P7D"Q](+$PMZ M#A^%;]@580!${H(KT"'L^.=BU!WT^V +09&R\3%Z0+UNG5*Y5(L$WNLR1W-Z M R$'"B==28^T(NES)'E5L0#@08X9*A1O +U&A> *-5L"]0^EGE M(.?4@5DI&#I=,WNXT<+DO.6M--3YVG@DZ2Q873*^S0SR0$C@2]'V5XDUI BU MD(2K(!.V &WXDF%Y_#%]JJN*AHGU<9PM1=F0:W(PZ!/#E&<< 9D'FJ:UD1EV M(6T<*.TX3'S,D ,F.+)#ZR KM275@BWDC>$;7A=U7-I&F)4DRO&2]D>,ZQE 1GNW[%K2BL-5.VF#6^5FF* M<,U#+M9D1#;Q! O? KZ B:&C=UB08\.Y$-;;&7YC@ --;G/$ZG1.?#]LXWL* MHX2ZDWO"%:NFRL=RBRS/BJI.0?M:7RM?SMLJC&3NJQ /^MBJX*42E&ZJN,Q)S M5WC/$Y@XHE,[K%)RLYG$X*<$,=G0BVGS0X,K'4NYD%RY+%M(L7^%EU\L9=H.0^" E>X1SV!KS6?5]2ZK=X9#3V>SJ?; M(883='O>;)+8J/A?!PKO\93W, PO M+_O=T ?;IRN_6$[U8Z.[OZRH&\E-&Q ZW.MW>:&'6R_OL;_ E!+ M P04 " #[@6Y9%!0@6[P% K#@ &0 'AL+W=OWM9M78*X78$-^\!(UQ81 MB51)*H[WZW<\]]]R'J,.E=3> ^8 YT5Y7&'_6*$ JWPZ/M"]Z4']B:#7;FUE4JX-$KUWAKV)H5)7#R6CT>E@I;7K'AW'MTAT?VB:4VO"E M;]4E7*K4R[M\@W[MTO7.E%$61A>'Q8JP7/'RL+OV>AAU*KBLV7EM#CN=' MO9/QV].1\/ *5YZ==^DT1R;>V-/+S+CWHC(<0E9T$0%/[=\AF7I0"!QN<6 ML]>Y%,/UW_?H\?8$*5YF2Q__ MTC*=G;SJ4=;X8*O6& PJ;=)_==?JL&:P/WK"8-(:3"+OY"BR/%=!'1\ZNR0G MIX$F/V*H6TJ0HM&)DS(+#KH9=.)Y-K]Y-9_0W75Y-?YY>74W/:?;AXNSWPV$ MNIP99BW2:4*:/('T$[VW)A2>IB;G_*']$*PZ:I-[-[:J>3K8 SK@>T. ^K39#39 MVX*WVX6Z&_%VG\";?FYT6-$_)]<^.%3#OYMB3!![FR&D0][Z6F5\U$,+>':W MW#M^)6S)>G2PA>!>1W!O&_H/Y6([TI\7'Z8TWAO04Y!T8>BWQC"T3?KV*11, M9[;JE5D1F\".<](F6%(TXZQO.FCV=-FXK$ 7T,G",:,[^V(Y8MG^Y)/Z.#K M[;@Q/GB)N@X%7:Z)-R):\>>)13XS<'GLX*S7.:WL&CM"M=S.NP MZ\;Y1H$+Z"X+G16D VGO&\2@3$[>ECE9A+LS?DF^4(X? ,YDI0.S\XW,#"_ + M%1K>ZX51 < S=J((M,4@82=ZS8+-;OI4*T>WJFR8GM-H,!J-QE0CA@V.GX"X MY]*7@'R#>+J8*8,8,9%:0.$%B$CP2?/:02]A_YS&??BE 7V KZ><0"",UUAH$X5HC&IR+1&?6;0VMG(Z5:4R<#:3P>-;/$$\N- F MT-A F36W[(*^+CE66)\0$M\A"+-@):N(L9_D\@(H)6E!Q5%6*N_EN$!^L.DC M-);2"^E5A\F\GM)0DJP)"?CW*>J!8T:;Q%)AE#)-(OF[B:T7H>0\1'KGK M([2LA'!F04TM[Q\J-290KL2LCU>)N7%-'3*<=(RWJC+ZOW:O8K=@** R&'B=M%KTJN2^^45./MO.L()>((7+,DT MD8&$N*P(?DC!ZR@W0+$"M%7P)6!=O1+TO/4.6);U5$P+;63Q\EVO8K!GEKE MK7B.;4%DB\9GC>[%W-&!5@U"-)D%7I_KV=:G#@#Z* MOT=AI4'Z*(E;?*#2B1Z9:_VN# QIDRA??VS(1M%! '. ^/!"""W-J TS)^ MX[X\0H=%JL85V%313QNI&X 9[:])/KH$DVJR,,(64I# 0.D;#S"0EHV=6WM M;&W11/%9$K/Y_,M0[!,>=Z1G%Z+S68MP,85H*=YG!?TLMU$*J56]V=CM,!8*M97]!$SHP/%M+ MW1]JV25&:)-[SJ5:@N1 ;D,GS0*W;9I,-MV'NOFSM;>DU!W72J=S#[NK[;E\ ML.FB.%R[P,?A+Y\I4O+08IT3R.(.-^%6H$>,@*W+08IT3R.(-^%6H$.>%6H$ HH>9.'2%$'\GLO4*86P#FH!]G7: MMIJ0$"QB%]^]K0<[QH+? M8DP&QD@F"#; I:UJW?EY,:UJ'%(R9T,G KPF F)U!NZ0L%JY+'6>ML@,)F74*:^?'9-_Y]= 9,Q,F/J V/H]P44HE@0/;)H,@9; ^?[9 MI:U2V:,4< 0[)[=2/7Y:(GAPB>O"MD!CKEEY\V7YF_=E8W*UWRC8(C_@D2JVK7=M=Y M''IPTI[DEY>MQ&/7LMVF!_M MG 8L@:[K$IEZSCRHP<%;8N*/"Z5HM[MP&'C!,QW61,@< 4"T:/QF>_IN9!; M+M J(#) #='KFDW ACRXI:I=+9&IF> CO@!@\=CB"BP4,)FU%&Q/"I'-.%C&6+Z M/$[KQ,6%%@40B9220@9,,<[" #2@D*T+PNZ"NC:3"76$VKAIUH/.*'6$]< (M8+.48K6OHYWXNSV)8O>0\XZB"RQ*H+X(!Z?>]BWR2; TUF93.]WI M)01W=TVW+:9[NRT=7 ,B8#T>3:)@>CKQXA@S\Z7V,(J"D^&(?:K$T5OC3@XY M&1OH>4%-$PD(()$&M&QCBC8R<:U24$F_1Y)QY$0%D($P/1A50]QJ;;UI;XW= MCL/ZHB%[K'B?VY6_K>AHAHC1GK3^(KV,8W,M0 @@YB$HIN-HTV%MTY)L&X(/FLY-$Y9;_F:O'-2N-$^A<].W,%U[C%]D0;NOTTVGMF4#8.?D+TMC MV'>NZ<@^\ HCJS?>2\(F=]V <\WH47(=B2S#?F6N('GI5GL&L8L)]_OL#*MB]*6LBGGT=KW8I6>P1;V>" C0ZE5EN9W%^A](6*-LNW1*0A#D9@2HI6R#., M><4[N#$.AM$IN5C05^'H=574JS62LGO9')D9719=*(.6M*IX9N.\@5@MA5%U M@DWWKJ:,1}$M; H&5FS,K+!?HEH98_.(?FBAR8M'JEPRP38:8(*RZ36QH)2 MOH&4 FLHY"S$5XM%$'Y)^!V\Z::&"#2.)BAM5J6CV7G4-PI;H(_B1BH MZ^3P7^>FTE>XA+H:K-5B@8I=>_6AH)XQ#4J'&@B-%GDN6FU/BA:FT'+]K+9U MM4_ "$2;D1D^\;G$'<]=^F\A6* 7_R:%SSZ_D;!:>SR$+7K[OT506D MP)/1]*D[7Y.*($U6?+5ULQ">#IH(&X!]J3K5QC+VF^Q.CGS.3L-)JT76Z7YJ MB1>PB"Y\N<'U$?P[V@H]QL[!5H$!ZHN1IX.]F1L@\: Q/^)-#RH-EA0]@"_ MP>J*^AS?>V-^YV_ 470UQYA$C;H.IXI0K\A6$717=(ET*[%R: MC@RD/[P(P_]$2>#U4^#[\%_,W4/L)B/@TN:!K!F;&W"T=H!*"=^"Z6()'^K. M"UXE*/@E!5GJ=-]U.C&:S-Q\V 0B*WO9T&;:U1!>+:8MY[3:?&^P-^)NGR'? M8_DOGVW/O"4UMK7HLJ?Y]Q.F+/IQ,#]\2R(!@,W'LV9I12)E^&9&$_BMBP M_\6017TOKG-VNCMZT3_Y$AR];YAVG>R^N(+AV>[P6S;M(_-C/^OO^FE?][/X M$PR/)KO#P&+O_/=P0GWC?[#(#34UR;[0QMP%*M\IC**Q45G;GEK=;$QJ':BM MP/7T!C&U]RF@)I"^)^=-#$O9-Y$MHWK!A\QP_P")0R+1K9YXF]1,7_L6^S) M_O%79,=/D-U9[,E&\P"-%/\, P9 _#) \PG85<#>!NS'@+T+V'7 ?@KPR(Q' MOM]AY:ZYK& M4#GK(J.?:P&@M,()\'Y9P!':!]S ?W'ZYG]02P,$% @ Z8%N6;.B(&ULM5A=;]LV%'WW MKR"\;F@!6Y8MRW'2)(#3I&T&- GB?CP,>Z EVB(BB1)Q?%^_0Y)2;83VT$+ M[*61*=YSS_TZ%'NZ%/)!)8QI\I2EN3IK)UH7)[V>BA*64>6)@N5X,QF7? S-?KOA.V-+ MM?%,3"0S(1[,C^OXK.T;0BQED38(%'\>V0>6I@8(-/ZI,-N-2V.X^5RC?[2Q M(Y895>R#2'_P6"=G[7&;QD.RU3?B^5G5L43&KQ(I,K^2Y9N[S!HDZA46F25 M,1AD/'=_Z5.5APV#L;_'8% 9#"QOY\BRO*2:GI]*L232[::>;"A6FN0X[DI MRE1+O.6PT^?3SY/[J^[%9'1U23[MI&/R1>0Z4>0JCUF\;=\#JX;:H*9V,3@(.&6%1P*_0P;^8'@ +VA"#2Q>L \O MH9)U+U#"F-S1%3I+DXF4-%\P^_S79*:T1)O\O2MXASW M(3IAY((("IJOR +9TDC?L!,>^T29A"HBYIA.9(Y'YA4Z-GH@9/A2K\1X!!B",[!N!$QG@H([A:XL%I(MJ&9F"[3PU;0X9PU0O5WR!<]IFJ]J!/QL$.)) M(;LD!G). ^AZ2M&)55?>MF[1UEV2[[MD/2/$7EXW!GY?NM3, ^WCT"='H3<^:GUWEF]A, K'Y!T)!D>>'[1P1,X9=Z\& M/M:/L.P_<[:#O>LDN/0'7A"ZS!FNCX:KJK3!I,DD'^>W[1N3U1AAV??WTV^J M:OAG!3SJ(>!S>@;,A@==\8C'V61%A&-PDCF#BPW)CO(&5,\!)T- NG*,QHY M*1/VS5L#$V=3=4I@>'!4;"K1_TMJ-8 MM8LWUHG-SK(.B%8!K9L@@DR8[\(2'64&N!:1C=G:[::SHRN.O>.ZSNY35+C& MO4AI]-"=1HE(FX)@UGAD&&0B9JG3F=[CD<', 'A$OF&**(B5]!8\5)$7H&OG MPGLAO592UUY*93MGJX]>>*8*3>4(GK2N\P*%0 6KKG=*:$*"B@L<;SPUK=8? MCW&PD-]:EVB]&%L,5IRE,?&Q=,_50W&ULE59=4]LX%/TK M&G>W3YE\&"AL@*

*$-C#;E\26 M[MCD<\KJJ4?VH8,=A;6U3+@U94CWSB2 M172JJ2@=C]^-:JE,,CV+:Y_<],RV02M#GYSP;5U+M[XD;5?GR239+'Q6915X M830]:V1);XCP9)O25>D-0=*&5_[F,DV)3ON/F^B_QZQ TLF/5U9_445 MH3I/3A)1T$*V.GRVJX_4XSGB>+G5/OZ*56=[E"8B;WVP=>^,"FIENG_YV/.P MXW R?LS&A[1W26'>7*%;Y008Y/7-V)1Q;(QH_1*C1&\4IPTV9!X==!;\PO;[[MO;VYO[V>W<_%Q>R#N+J;W=_,_KB>7=US .%8'CNI%F+92)KS.,ZM\853$/ M,I"8M^"H9JO6!;;9[F/%A/50W,,I1PR-D$%(K:E$KZ3(< KEEA MS))\[#.&UCR@Q8),B6,F+FD*@1Q6\(NR$=9RYKL\V SK0#?ITNX@W./^V*C. M75PT3FGV2S&_H<+I)B6A3(2RD)R2,GXGIM*+GDI(S(=+@I4? \SQU_M@4R& M6$57A/R)R!:S)@##V_?G*3I^#1(E- XNU1\8L;%R>E !KX.!&_B@51 MU/PQGE?2H2*DL4MRP"6LV661O2?'IU[@G;CW-&:"_ >4MPPXMV#7!95I$L:B MAUN%+*6W#*T!O&&Z28@=)2R<!H/!:#B$J&8)VA-*81MM]I;=01RQ?U M!G ;FRQ+1_&IP[2S4ZB"87,?02A.8XA!22T4@N>!F824-YQ@W;/.XY'3A=K. M@\>W,/L/WR=NTE(Z95L/<94RJC$G*D"I'XC,,AD>!TF(0U:@]9O702<1.(,; M?L*L@R,^L>"V=3Z2E;4><^^_JR"7AH%@ N5=\.*KYEB1, 0T)KH[%,V0[U0 M(0TGS%%$J!0\[@",-D<-%L2T>FLDJP1-[0700"]0,$+AH/7F8P>5'T*|0??$,:L43(7L"=]PP?*;.G::&&GW;IYXEIB'"A;..U0!1B*?/_X']P MOZ_HG^@%E]-(G$-YJZ437UL)D]-K=H"P6XZ!U+;PPWV?W=':K.DF5\:[801D M0G>!VJYNKY\7W:WKR;R[N]Y*5T+_Z-L"KN/A\5$B7'(=#).,&UU\MK'"%)L<&V%J8C$7_P@FVE_+I-U!+ P04 " #I@6Y9];=)/>4& .$@ M&0 'AL+W=OJI(]6N+HHI-W57-(C^2_51XNG<8N2JH)*ITPI+&77@]OIV[LY[P\;OBI:N\YWP98LC/G&M#W^DUX,)*T2:$L\($O]6=$]:,Q#4^-Y@#MHC6;#[?8O^GV [;%E(1_=&_U>E M/K\>G]$2IFLM?]DUK]38\\IXR5&N_IUG'O[&(@DMIY4S3"T*!09?POGDH_ M= 3.)Z\(S!J!6=['A2T_+?T\N;*FK6PO!MH_"68&J2AQ"HY*(_>8E5!SM\| M?KE[?/CSR\[S^+A*SX?K\8>L+PX3AJ(NP@Q>P7B0KPSI<^=>"A32OOR8ZC3 MZC3;ZG0W.PCX2-5(G$R&8C:9S0_@G;0VG@2\D]?PZH6C[S657CRL\.G$_VX7 MSEMDQ/]?,C>BS5]&8Y:\=95,Z'H &CBR*QK<_;+],WD\H"N\U;7^2'TOQ>/ MPQ#O/WQ^$-/SD7B&)3J>\$;SYZ*|=G6V4/AH M%0D$E]"*X*MU@E40$@G!B^L5PO-=E%&EJ&C-S)5RC)A8\+>?8U%V"PUER, M8-*>B);),<;;60CE7TY[P='@!4W""3+ZD_O#ZIS]-LOY[/9Y'*W^.[XY%W MA/7IY7$(U\X9G7!-AQ,4$*IM^LP);]Z< M!L@##FAD YXE;BSLT874\"V)%+'#(R]FIK8(UO=:6@28=2/QJJWP:\]9(1EZ MN1QR=B,\>HZ0&1#%+3RAMTEURAOX6%/Y)H3\E(,DV!H3']JIZ)342X0GGQN-" M^^HQX+3CT7U&70)P31 ;=M$+N1&E\5L#@IZ5L4$/F,$[Z-EHWDVM0@ M\8)*RE0"U1 $LRY%82P[&"K/1Q<7XA];:YKX_1-95GOG$1-V]B[Q[J.JT:/= M+:HH0)@8Y>B\I5KQ F49&O\6RYU+1N+WH*';'OUZY$)6+(AYK+S&:X"E0$ ^I MY-I0!O&=1Z3WQL)+Z4FD"37CWCMD<;QV=#XN2<.4* 4B71YGZK!H*0N:LWF^8[!;L@2ZUPE.^D=HRF$3*/7C?9Y7LSBG+AYH7*8"M7(@VF_ ^;AL ^U"4K0]Q2N7%[4)X143(7L"=&[""P.Q:+V@2HJ*"M35L*DR M[F P=ZG1)?"VRF_-@&E;Y:1SY-U><.$YRKAJL:/W789A M0HE O7+\NB&M?_D<3 R2*0N)HJOCPRYW-=*^TY[#4=5PCNZ.NT6I4\18HE?#M6X=EO<6F)3#J2X<\;W/=2HVTX7R/!J7,_U99N>%Q*$Q7[$8T<#8V3+RE[Q(< MF'F_DF_IT'!)V7#WBLG#1$+=L#+>R2+%"]Q>0B7,#N(=07Z!@H7A#;TNN@>..W? T@NPR_!+!K0]C\?U]FW[8\=MO./OML=?2MY)N^0A0E,& MT\WVP9J[@7QGM3A*|Y25C*&[">&;BC>> #VI^ ;OX"4$#!!0 M (.F!;EF5+_HJTPP *(E 9 >&PO=V]R:W-H965T)U.G.Z1M^=E.3O7@5L\7EAXY8=LDRE41=9_'<==V<7;G>,=$:F9+&-[FRU_ M45Z>$=$+L]CP_V+IUHZ&.R(LCG+]>>KZP_BYM.O5Q=7EW=B]R:+=:B5V7MS:'T3@,M_3'G[IC^$\=,Q,O[#\%RS7>_XON_RS!.Y4?B$$W$/UN?_@, MO4&MAP'3&SQ![RP,LS*U.IV+2DSQS[.IL05P\Z]M CMZP^WTR)=.3"Y#]78' MSF)4<:]V3G_^J3?NOGZ&VV'-[?YZ]>WZEEI1*W*LSFJ29\;V/Q62+;6=Q" M^43<%%E4AA9.R"\/Q.>%$A=9DLMTA8>||C]0F'\O$"N$Q1(C8R6RF;CY322@M$&.)3". 1X5TAU+=2YW!OR\OPQ@HI\DSC@4Z%A>>#3HR@038A:C!%:F;8"8HA MT%3 67!IRG AA$3;CM);7FALA/Q* MDD*V$A,Z C]ZIE7$2B9->:XXMD6*0VTL*50*8R&,C+,4EPB;)#,? I8@KS*P M$7/2&,&])!6T4$&G,$T5U0B1IFU"YEA#Z?L?-1 FR6KT3J5MSL&/8NXJ_[TDA2=/KI,%M#Y7C%W80,+\N2Q@P"=@Y0+'8S!B;X2J2F4E"2 M&2MB_17<'IE0V!6)LHLL\LAQ FO35H=T.'H*U@8^9K5A8 ,*63E?(.$OM+JG M0[&^G($SME$Y!GK(-R2V\W$#=""X>CXS\?9_\3< MN!L,CH:/F/N0(8*F#)LV6@JU++K,@2,6^6ANZ1!0!)M",LBK-\@P;L.U>I M*AR0* 3[J,R15!:*;2KRN#1B!I/!MC-=)/CO@5T)8%Q/6HX:Y8.U0*6;'$;\ MN2SD@$L'[+L8J=.\K"!KJ@RS)0V2//,B,X:<>:8M@9AJ5!+' QG4ZKA;QTF*M^LA,8JKL4BFN7"DJ$@=018K\1=$P)%%:8=$9LO$WMJRGK4J5!^(*]/*\RF#; M9:)=E1!%4PBL8Z@T/K9O9Z_.(L^RAY>1(E,2EK.R($W- 0AZLY1%U&1-EC=6MKI1/66HD]+"DO.)%+ B-F\EHGN,H103__ =-SO';V&;\Y@:2>K"U(K@9PZWR>Q?] /6'#4%@H4 MB;\9-3?/!$;CG873N5BW%7M1E(DT\X?I:6E5B^$JY&R*]M2II"WU$,8E M127V=]KJ,D5[4+']"5BR\M*@"(U5U5!78>AD/!Q80WMFX(^ ZI$KF@A\2PB M72A^2[LYJE#=M9336'&=TGI+)I&IK\OH?0YCM]#@0A""$EQO5OD*!]G'KN"Y M@?0-AW0<%7QX%B.4!.0A]]KXK)?(B HB")=:!+.J]*:5.,2BC\GYB"S=4,QU MUH9>?5IED:5T%6Y+8 M0CK-5W2+FFX@4D7>'3M@_$I/!J',61=IY MZU%PU.UV;M>*K8J-7?=6[&W0W,*

*M*M:42O24Q*D8:VLILTM=%\&:)D1$(D#/E*%QFG)"R2DE@W#(^6]VEFM GHXRLZ(+* MAVS.8:37*&&4T%1$+$6<+L?:%%]>85|=(27ED[*L:W(1CS5", M:$P#]2 (_&WH%8UCA00\OE6@6GU-E;A__(+^H1 /8AZ)H%:/)EA5@E4(+9D5LF9$DLF(LRWB*AK0U$'A39$-:J)4W<:%Y' V@CPYF=__ M.;^^_3W ,UOIQ_H>G'&;K^Z^%F?G<-HW=H 743YC%%;(GF'*J'RV>(C4D] M$4E#=/TMCS*XK1*]F5%)HEB\A:R'Q0R]^?7M2)= 45U(#RHZ[TLZY@DZ"YI= M(,L8(-,PARWI5]WI,QI .B[2K6:Z#L;4[IBU.V:!9YURIU)<"9XV!/]S"]'H M1M)$_-NFM(0>MD.KY7DI,A+0L0;K3U"^H=KDMU^P8_S>IKLGL(+5NV"U84. MK@)H$)%'*(.LKH&LK@'Z8DF;"R6T4T'K64SP;[C^C[V1OIF7^%QH(FQZW]^ M60X_: M.^P/3=^VG ,1+9&F@2UL&%Z["KM687>JZ%Q[Y325O/M(SJF;5B>><#Z. P; M0\?SANVE('8H "EF2YI!RM"0^WA--"2CTKV%*J MV38UG5= [[8+J":QAC%L;XYYO6W'[=*$GL(8+7NV"=[YMQ3LJ62A8VSO<5+X; MUF#NU\S]3N9W),V7T(#D/$I7\#0.UA# G[_/NA/VM?>N)["&]C8]0W&^6]X MPN()B+[0FD[L=5#X?'5<83? V7A^;IF<>EG)+I&DX#L2>>$#B79>#.]L'>$1" M([QF<4BB!!1LJ&(K6NGVVM3TA=:4O6MKL'7&$N[LF5[M1$]H32=V+1+N[I%^ MKH2/FQYL^_[PL'[;P^P3Q;MKC!W9_1#F_$ 1:E2M@+WV@N[\R*OOIT]H34M MV?5=V#EC8??:9O6%UG1BUVCAS@[F)PO;/7HE<:%_/MJ8C\,LT_#<@\+6]U[2 MU1>2.\)742I03)>09URX4#._.A0#B3+BO?V1R8E2XK#-24AY2H SB\9DR\# M]2F@_O0S^1]02P,$% @ Z8%N6<'MR,&T @ X0< !D !X;"]W;W)K M&ULK55M;]HP$/XK5C9-K=0UK]#"(!*03$-:.P;M MIFG:!Y,<&#6Q4]M ^^]G.R&C74#5UB^) [W+/<[Z7W/6VC-^)%8!$#WE&1=]: M25ET;5LD*\BQ.&<%4/5EP7B.I1+YTA8%!YP:4)[9GN.T[1P3:H4]HYOPL,?6 M,B,4)AR)=9YC_CB$C&W[EFOM%%.R7$FML,->@9"

P[2>6J;UU:(4%7F=RRK:?H(JGI?D2E@GS M1-O2I])EH60M),LKL+I!3FCYQ@]5'O8 [B& 5P&\YX#@ ,"O /Y+/005('BI MAU8%,*';9>PF<1&6..QQMD5<6RLV?3#9-VB5+T)UG\PD5U^)PLEP,OTRB:]FRI[J-9[:3R/2QJ>P=|^^B*4;D2**8II WXZ#B^XIA[&(]$B34CY.!*#VAL"FDI1LK0-BUX: MF]!M7_I>$]LY[C!ZK+CNT^MHK^96DY'-]N^5=Q@U6E=.+55&:Z]-[-RX$NS M+ 1*V)K*LDEK;;V!/F8,/],/W>]N{(;=!':G^5Z^8/?;G\KC!?$BI0!@OERCG7 MZX*7"Z44)"O,Q)PS]>:O..:[4#@:N#=3W!6-R)V=]58/?P-02P,$% @ MZ8%N60VZ7*,'!@ #2L !D !X;"]W;W)K&UL MM9II;^,V$(;_"N&FQ19(;1T^4\= $IV+9#=(=ML/13_0$FVKJ\,EZ20+],>7 MI!39V(H2CERS-V65GQ?GZHM=CT8IDF'6+ M-0'I&41%PBL'A[(CW4;4K#W<^O=$\%+X*98T9NBO3W)..KR\ZX@V*RP)N4/Q3/ :D"4@Y&1S*P#[6H%\9](\U M&%0&@SV#L7' 8%@9#(]M8509C/8,S/$!@W%E,#[68%(93)07? 0+NHKC M1.H0IRC,RZ=)JO*=0SA.4O;SM,=%N]*Z%U5M.&4;UH$\'17Y'S%D)O'}&ZQ M]_3V$XU]3\1;!VV]!GUM:8'O<=Y%AGF.+,,RT>='[T[:XOK1H]Y).LNLDJ, MH<$X1V!L0V'Z&HQ[/,;68#P8;WP8;X(C,-6=LM&"__2#.1K_VL()9RKS5*X MH^*EI(F*,/:CQ&F>I$VB0*Z8?W_7[XD'X$D+ 0 M"-80Y* 6Y. (049%)L;8$1' .(HQ)VWJU(.5:? >]IKS5[U_FR AG7$A81XD MS(>$!9"P$ C6$.VP%NU0*X\'*=,UH>73COY!9VUZ+1E#Q9#3TJ?9V!"O:>]I M5XAO:PW>UG*T_IPJ-TB8!PGS(6$!)"P$@C7D-JKE-M+* [9[02"@.+PDJ%HA* M\25Y1%7F3'*$\WPCYG/T0-K4LD]-FY P!Q+F0L*\$C;9>2B-KF$WGTD?LL4 M$A8"P1IB'==B'6O%^H%P)5$\3PG"0J0B6JF=M=:V]GRA(0YD# 7$N9!PGQ(M6)"TO88.A4;4+"'$B8"PGS]#_^ MIU7"4%KV7 Q%*68L620D%IV8^(NB8I-S<;4H*,),%*)"#+,P3_)E:=5%GU8$ MS3=)&M=EZEY*G+2JIV"OT\,=FDM :4Y%VYV#F!.C/QDU!SQN2SW+'DZL0;.> MUU)O,#+[$VMO -52;S0RQO:P62\ C3:$HC55L[,E8WYC[BBS13-YM0I&BSE9 M,) TYQLAVA/-][C@@[H0@-)'*%I3E=O=.%.[-3* [$WDSV[1G M2]#]-E": TIS06D>*,T'I06@M!'*UM3N=M_-[/]?6\DFZ+8<*,T!I;F@- ^4 MYH/2 E!:"$5K:GN[A62]=M.7?+3XTX6-"3- :6YH#0/E.:#TH**MKM8-QJ\ MV<<*H1HME=K;.1J7$;I4YRKERH\8M):G?.K2^NSFE3JQN?NF!>NV5+NF1=^ M>3)SBR\BMYANDQRN9:U$$T9W9$(C)9G+\L+7JS5P;QYP7F1J8\K@F-"907Q M_:(H^.N%;* ^ 3O[%U!+ P04 " #I@6Y9IEQ.$+ " "P!@ &0 'AL M+W=O7VWP(0Y:6+G M)B)->*4H83 12%9%@<7S)5"^&3B^\S(Q)!C=P:(^-DSOF#":[S@>,904 A4X8!Z]<:1D"I M(=(R'AM.I_VD 6Z/7]B_6._:RQQ+&'ZB^1J-7 ^.2B'!:ZHFO+--VC\6($9 MI[(^T:;)]1R455+QH@%K!05A]1L_-778 OC1'D#0 0)_!80-(+1&:V76UA@K MG":*;Y PV9K-#&@VH+%][(5HG$KO)E? 3X8_KVZ_HYFHXNT(]--,; M):\H(+Y 0RE!2819CFX(GA-*% &)ID"Q@APICD:\!*%[_BC1#>AJHJ,Q*$RH M/-9,]|,Q.GI_G+A*"S6?<[-&U&4M*M@C:@;E*0J]$Q1X0=0!'QV&CR'3<-_" MP]=P5Y>GK5'0UBBP?.$>/NM,HM_#N51"[IL_78YJBJB;PIS%"UGB# :./FP2 MQ!]<],,[O^]]O+WG\A>N0U;M^$A]O2N!($584M${1\5YB#T^*)7Z0#;#7&" M&*BN(M3,? H7+C5GQ\4/PM9[VL M,;!/M3\'];KC-^7T^WY\'NT*?YL7>%'H!?&.KGYA>_AV+)6%2BUEHI'=Z MIHE$W1_KO/'2MI@Y5[IAV>%*7RD@3()>7W"N7@+3M=I+*OT+4$L#!!0 (M .F!;EEK6:+1W (%,' 9 >&PO=V]R:W-H965TB_K1)=$;2;IFDO##G JA-GM@/EV^_L M0(9*H&\2._$]O^<4UYIOK.4NO\TG75; DI51\T$TIRYRX9Y^-9- P3A>8L@Y$DJDA3*C=7P,6Z[S2= MW8,Q6RRU>>#&O9PN8 +Z.1])G+F52L)2R!03&9$P[SN#YN559-;;!3\8K-7> MF)A,ID*\F,E]TG<\8P@XS+11H'A;P35P;H30QM^MIE,A3>#^>*=^9W/'7*94 MP;7@/UFBEWVGZY $YK3@>BS6WV";3]OHS017]DK6V[6>0V:%TB+=!J.#E&7E MG;YN]V$OP/>/!/C; -_Z+D'6Y0W5-.Y)L2;2K$8U,["IVF@TQS+S429:XEN& M<3I^-V.!T_WW[^2X>U@U)P('>%+B20!XHWIADH(N;D,0=)-@.]8>'Y#G MR0TY^_A&QL6\JN3|*CG? ZK:.Z Y!*8#&6].-_ZX;1 LR!3*B+&F0.Z9FE)-? M0.4N[0WY/9@J+?'T_*E+K#00U!LP%76ITP N"([1.1>N< MI#T)C4>.VV+*Z0;[G59U],X!W0\#+_*">GRWPG=/XDV)$)J* K'89.TIS6RI ML$P#SG2=F>Z!F?,@C(+PB)FH,A.=-#,JZ61%>0'F4)?;PG?56F:W\T#E0N6*43,,=*[Z& VLFSAY42+W+;-J=#8A.UPB7\]D&8! MOI\+H7<3TXFK_VC\#U!+ P04 " #I@6Y97D?(46X" Q!@ &0 'AL M+W=OAZ('6E[;1*A1)6DK^?LN*4554L7H81+CYG9&5I<)960#VH+H,EC MS@LU=K9:EZ>NJ[(MY%2=B!(*W%D+F5.-4[EQ52F!KBPIYV[@=0,WIZQPT1ZN M7".0:4Z8V*2+(5X,)/9:NQXQA!PR+11H/C8PP0X M-T)HXU>CZ;0E#;$[?E:_M-DQRY(JF A^SU9Z.W9&#EG!FNZXGHOJ*S1YK,%, M<&5_255C8P1G.Z5%WI#10(N5U,R='[X\356- Z(N%E3ZKPN%;Q1:@'E"0F] MCR3P@JB'/CE,GT*&=-_2PY=T%T.WR8,V>6#UPK>2-_F>R)2IC NUDT!^G"V5 MEOAN_>S+5PM&_8+FOIVJDF8P=O!'"9![<- (/[_R!]Z4O[7]2>Y$];+.'AJ33 M.:WP)=(@&>6]+VE-'UBZ:03[-(J'XLN.NCN'B\' M804II).X=B/7Y7V&XKX#&WT>O/+4 M XN&40=6NV([%]HTTVJ4;EBA"(K(ND'5$RU*>|>70F/'L,,MJG20 M!H#[:R'T\|2TC?8KD?X&4$L#!!0 (.F!;EE:J; !@P, + 0 9 M>&PO=V]R:W-H965T1^+E9+9G M_*O8 DCT+ <^HF%M;*8M;VQ;)%G(L;E@!5#U9,YYCJ9I\8XN" TY+49[9GN., M[!P3:D6S\MZ21S.VDQFAL.1(I/(<|^|+R-A^;KG6ZXTGLME*?<..9@7>P KD MEV+)5WK5_=? R^15,L]8P#W+_B:IW,ZMB852 M6.-=)I_8_G>H$PJU7\(R4?Y%^ZIO.+90LA.2Y;58C2 GM/K%WVH0+8'RZ1=X MM< [%@1G!'XM\-\J"&I!4)*I4BDYQ%CB:,;9'G'=6[GIBQ)FJ5;1$ZK? ^TIR M]90HG8P63P_Q;Q_1X^>[/] U6E5O'[$U6G"2;@],DS1^Q@D)IGXH#I\6<7H M_;L/,UNJZ-K#3NI(BRJ2=R;2%'UB5&X%^DA32+MZ6XVZ&;KW.O2%-VBX@N(& M^2<;OWD1? NGGG\MFR[B_A-XCF)X MENB?1]4!/4C(Q;]]L"NWH-J-KQ:WHL)S"VU' C@+V!%/__DCIQ?^DB9-(L- MF74H!@W%8,@]6G)"$U+@#"WQ=[4\2='"KO(8E1YZ87R)KJ=.,'\|F?W2QC(8 MZU(LALPZ6,(&2SB(14TY0C=7Z(!G@3-,$^BC4UF%+3J^&XZ#X C.8,1+X1@R MZ\ 9-7!&@W!:*UWOUS*HOG2FF32+#9EUJ(T;:F.CZ]78)$639K$ALP[%24-Q M,OSMP890^O:Y.3F9F\[1M!R,=RD:0V8=--,&S?0MTY*JHV-Y;FI.3W"X7N!, MG&,H@Y$NA6+(K /%=0[G-;A#_LLZYK;YFJOSC[G MA]/I^)C08,R+"1ERZQ+R#H2\04(Q$0G;4=D+Q#O]9M3A-CSY9+S3XY-W.NGB M'_?K)G$X*;N#1\CVAGVEU@>IRY5T*#'_9""])YKAL!>_::/G8+M5XN7 -V6I M+%"9;]EO^$N=IT!,I@K:3.S5$J<5Z5QU5#LJ(L&)^9 M5.5G>;D%G +7'=3S-6/RM:$#-/^DB/X'4$L#!!0 (.F!;EEV;JK+"@D M .%= 9 >

*APZ|W7DK[&@R0T*4$VB6HAJ$:K%J*8HS:S[.CC6 ML:93GNO>R72>SW2YSR][+W(FH_AT>08JKFH)E#-0S4?U0)4DZ@65MKNH?E^ M3*1AD5&_UQ\>'+RCD2]*,ZNV#GUU[*FO#SNWHV\W]*>GG?@UN-R-..:%:BZJ M"53S4,U'M0#5)*J%G<-H5J??.\QZG;A"/N8ZCN=IL5I M]7>G-^TMM:YK- Z&:@+5/%3S42U -8EJ8:49&9%!8XKSY"5C= L5I9FU76?(M.O80V4%M?W?>TJY@ZQ)'\V2H)E#-0S4?U0)4DZ@65MK1X.>)R\7HUBE*,\N[MCI]U[/FS=_?WJ;Y/:OUI+EPT:@9JKFH)E#-0S4?U0)4DZ@6 MHEI4:<;-L5[OHM?I'.R_T>P9I9D%7J?/.O;X6;'__OEN53YT79]8/^E4./_J+ M3F^GV?HN6;Y/OG>Q%JL1^AH6@W57%03[..AFHJ] :1)5 M1+:HTXRB^TQEV M>_M] !I;HS2S#ZB#:QUI;7N&QGI' M VRHYJ*:0#4/U7Q4"U!-HEJ(:E&E[>[U>\/&DW8TS49IYM H=9RM>RS.MMZ9 MK\=0:*II^^IM:QK57%03J.:AFHJ] :1)5 M1+4*U&-44I9F%7V? ANIMP#31| M2A=-MZ&:BVH"U3Q4\U$M0#6):B&J1:@6HYJB-+,?]$-P77LA:_>QTN?(:W&2 MO\G&.+-I\FDZF^93G9U\8\[>8.NN @W+H9I -0_5?%0+4$VB6HAJ4:7MGO;W M!@?G &B;BM+,+J#.PW7M>3@U74SGJ\;@JWW-UK6,4M2/WA^]@6H)E$M M1+4(U6)44Y1FUGR=INOVT<-_,H1TC6HNJ@E4|U#-1[4 U22JA:@6H5J,:HK2 MS'Z@#N1U[8&\YRS\\SV^ZL+_[G R]HR.W6_=,Z Q/%03J.:AFH]J :1)5 LK MK7R2M+X[WWD]'.]E=*KEQO;%8G3C%*69Q5PG\+KV!)Y*OKQX((]&Z5#-136! M:AZJ^:@6H)I$M1#5(E2+44U1FEGS=2RO.T(/Y-%D'JJYJ"90S4,U'J4"5).H M%]):A&HQJBE*,_N!.KW7M:?WOO] 'DWKH9J+:@+5/%3S42U -8EJ8?;T+\MB^AV;U4,U%-8%J'JKYJ!:@ MFD2U$-4B5(M135&:V0_46;V>?=RZ[SZVM_NM>P8TO8=JHM*./9KIH:WZJ!:@ MFD2U$-4B5(M135&:6?-U+]JGS^6]^UTY[^Y3O1F?RG;X;X=:%S>:MT,U@6H> MJOFH%]*:1+40U2)4BU%-49K9!>Q,<,K.<,I</:779NP=.)6ZO-% 'JH)5/-0S4>U -4D MJH6H%E7:[NV^RT'34_4HL5X,=+ WV;H;0#.#]'90S4,U'J4"5).H%])-A&HQ MJBE*,SN+.E@X1,? P&Z(10E1S44V@FH=]/JH%]"91+42U"-5B5%.49O8#=6QP:$TC7=VLG|l_Y=!1S: MLX GG0-\3/7=:C$IJG^;&K;=++ WV;H;0#.#]'90S4,U'J4"5).H%])-A&HQ MJBE*,SN+.E@X1,? P&Z(10E1S44V@FH=]/JH%]"91+42U"-5B5%.49O8#=81P M:!_#K^%XX(1Y=^UHZ^X 31*BFA@>SM':[72&W=[^V0&:$42U -4DJH6H%]%: MC&J*TLQ"KS."0WM&,.XXU\GC-$]FCC];?BK^^?#XN$SSU6(SEYJ*LERGCE=T M!J^<.)\TECT:$D0U%]4$JGFHYJ-:@&H2U4)4BU M1C5%:6;G4"<)AY?HV0 : M(40U%]4$JGFHYJ-:@&H2U4)4BU M1C5%:48_,*HCA"/[2(?DZ_K"X;E7'U) M]N \)E_+V?R:^@"[U+8/0#47U02J>:CFCP['XNLV/,L0H*U^5 M1+4*U&-44 MI9G570<#1_9@H)L\9/\4 4T(HEJ(:A&J MQ:BF*,VL^3HA.+)FE*X^&O5=W@E,%K=%C:?;6M?_7$WSKXW%3H:IKE'-1351 M:>8(^)<-0PB@S?]H%]"-1+40U2)4BU%-49I9[W5F<&3/#'ZXN]-I.3;(YE[_ M^L+? YBFA;'WP7X4"RI%$;2.,V5MI7?IH3!#5!*IYJ.:/#@ M4"M M7>B6HAJ$:K%J*8HS2S[.O WL@?^OOTF0+&02KY,YZMY8R>!1@)1S44U M@6H>JOFH%J":1+40U2)4BU%-49K98=3!P=$8O1V 9@11S44U@6H>JOFH%J": M1+40U2)4BU%-49K9#]09P9%]M,'MI0+]Y5$OLN8' ^Q&Z^I'DX&H)E#-0S6_ MTHPA3LM9PP^N Z"9/U0+42U"M1C5%*49=3VN,W]C>^;O)OGTZ6MQ;$\\(&!O MJFWYHJ+:@+5/%3S42U -8EJ(:I%]!:CFJ(TLY.HHX/C#GD2,$:S@:CFHII M-0_5? %0+4$VB6HAJ$:K%J*8HS>P'ZFS@V#[.X,X\1.54@K=E.F!V;(9QN]FZ M-T 3@]F4,U#-;_2CD[U':#-2E0+42U"M1C5%*69A5Z'_|;V\-^[R?^NBN/] MB?/KJKSX7Y;XWY\'"+"-#&!G6]^GP+27W1Z.]W.*O27\X-S;NL#R(34-;JY MJ"90S4,UO]+&NQ8QN=^GB\R9 MZ;MBU8O796@IG=X_;+_)EX\EZ7Q:YOEROO[R02<3G98+%#^_6R[SYV_*!IZ6 MZ9_KS;OZ/U!+ P04 " #(@6Y9UQ_Z\QD# "_"P &0 'AL+W=O>\|[-(?8,MET M%DHEIZXKPP7$6)9X DP_F7$18Z678N[*1 ",;%!,W<#S:FZ,"7-:#;LW%*T& M3Q4E#(?R32.L7AL ^7KIN,[VXT1F2^4V7!;C03/80SJ.AD*O7)SE(C$P"3A M# F8-9TS_[3METV /7%#8"UW[I&1,N5\:1;]J.EXAA%0")6!P/JR@@Y0:I T MC_L,U,ESFL#=^RWZN16OQ4RQA ZGMR12BZ9S[*(9CBE:L37%Y)JA]\D%-I M?]$Z. ^LY*$REXG$6K!G$A&VN^"KQZ 7S\0$&0!@>6]2619=K'"K8;@:R3, M:8UF;JQ4&ZW)$6;>RE@_93H.-4:3ZXZWR^N!MW>:/P)]7Y>]R=WZ'.W=]*[O MJ"=?T!$::Q]$*07$9^@<$X%N,$WMZA8+@9F2^C@H3*CT$*VLG|I_Y=!1S: MLX GG0-\3/7=:C$IJG^;&K;=++ WV;H;0#.#]'90S4,U'J4"5).H%])-A&HQ MJBE*,SN+.E@X1,? P&Z(10E1S44V@FH=]/JH%]"91+42U"-5B5%.49O8#=81P M:!_#K^%XX(1Y=^UHZ^X 31*BFA@>SM':[72&W=[^V0&:$42U -4DJH6H%]%: MC&J*TLQ"KS."0WM&,.XXU\GC-$]FCC];?BK^^?#XN$SSU6(SEYJ*LERGCE=T M!J^<.)\TECT:$D0U%]4$JGFHYJ-:@&H2U4)4BU M1C5%:6;G4"<)AY?HV0 : M(40U%]4$JGFHYJ-:@&H2U4)4BU M1C5%:48_,*HCA"/[2(?DZ_K"X;E7'U) M]N \)E_+V?R:^@"[U+8/0#47U02J>:CFCP['XNLV/,L0H*U^5 M1+4*U&-44 MI9G570<#1_9@H)L\9/\4 4T(HEJ(:A&J MQ:BF*,VL^3HA.+)FE*X^&O5=W@E,%K=%C:?;6M?_7$WSKXW%3H:IKE'-1351 M:>8(^)<-0PB@S?]H%]"-1+40U2)4BU%-49I9[W5F<&3/#'ZXN]-I.3;(YE[_ M^L+? YBFA;'WP7X4"RI%$;2.,V5MI7?IH3!#5!*IYJ.:/#@ M4"M MT

MX[BU==AJH@$<:@?A=S@B\W728#QG7#-1]V8LRZAX=N8R\IJ,S9]J6_IF?$9S M,N?ZO@$'X;K]C69L7J3-
*J%M8B'K4NOT5IM=.FA.UR<5$1A>MYD1[*Z:$B=A,\;4&Q+]NP$A3_VYC>8"![0)6.Y#?GP=JRL^)8]A5S!OV M!.-(FF((U**_1I,$69T$/O[]P9Z2.$Y3/P*8WT$<8P@\C3B".0 /&!+']CVX*
*M\SZ*5N^I:/W_R^%O4$L#!!0 (.F!;EF7BKL*

*-8?20$3; M8T.P6BP^0"X99K>]9!:G3%]6P]U37SU?]?K5Z$IND^K-\%H7:LR[E)JG55_G8KYZE2-+J28AZD_?U MP<#N;Y*LZ-UBQS99D6VR7R(=]@8]5CV5K_-29K_*HD[R:"7+/!_VM-*
V..R'K;'6P.6H@ MX^2A:K?4R4.8)!ASQZH$ZXS6=7M$>WY$\7X(M3!NV_;NIQF>2WD)*G%3);; MYZQX;$ZCKJ(/+J,=AX_/W2!>R?\SC.5ZG:W$I%QM-Z*H=^,H1=X %M53]ESU*
M6)%LQ+#W<0A+BI3QHE:#Q-QB=RIU;'.EZJ?==':75M<(%8RBO,K5#NFD+3@;<7B[+032.B'D#QU V@BD?2)()Y]SZ0) 7B"0 M%[200?+&7BH6"-G^>[$2;))5J[RLME(
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[I_@ZF' M.7:]6_4POT=KWX.Q4,.THA%{)>0+%5\F+'#"^)[%H>-%SOB $'.*1BP5)XIX MC"VX M$W&(A9E#(U:'Z]VI0?)#MY,5:)@I-&)5C$)W,N-LX3N=&8:I0:-V0SSGH7HT M[YW1
*MXZ'9.#3BP'%&&$G_QGWQmU8IV-6T(FM M$-V.(G6#%23C32#N@&%>T(F]@"9WG>),QURA$[L"QS0@)N8/G=@?:(;"SF!G M S.*06R4O1R%G<6)*
JA@R#$PL1C$8@')RJ=LF%0,8JF K.53-K1E1=^SZF8* MGQ)B,C&H98(JCT%,S"D&L5...>]]/"$F9A6#NM8 K0QVSIPTS9ICDGS7D8:8
MF&.,DSK&A)B88XR3.L:"F)AC#&+'X)@V;$QCCC&)'8-C7D!,3#7F*9M;/RXA M)F8=|Y3-K4Z:9F(",D_6W&K#$\1$5TV^NL/5#9X0$[.0>(>@D),S$(6_>+]7K76F:0UV]IU^^/\#\7)86
M9B&+NL-VI'GJ3@LQ,0M9U+70D9[T)YB8A2SJ6@BKTSM.MS +6=2U$(H)VX(V M9B&;NA9",6$!;&,6LJEKH6-=CX.Y:6,6LJF7=8YC-N:$F)B%;.K5'0RS^]H3 M9B'[1,L[.|S.(X19R#
*[E*D^G%K+1M\B^>IWGJ"QMS$)V:Z%^>W!U[+WY%U!+ P04 M " #I@6Y9R%S!4B " #0)P &@ 'AL+U]R96QS+W=O3EL4]^NW]MM2;IGVYG+EX_^_(_$[O-9K\N/[OU M[V,YC?*
\8G/YTPWO=E3(VB]=VV)9QU:2/P_5T39>#W)TG-XN7MU4$O+Q)D^8. M4@C2^8,,@FS^((<@GS\H("CF#\H0E.@^_F#'B#H8?Z@1PAZG#](EBCC MDB!I@C6!UH)<"X'7@F
+@=B"9 N!V8)H"X':@FP+@=N"< N!W()T"X'=@G@+ M@=Z>BN!WHIZ*X'>.GG9)M!;46\ET%M1;R706U%O)=!;46\ET%M1;R706U%O M)=!;46\ET-M0;R/0VU!O(]#;4&\CT-*
LFFR4$>AOJ;01Z&^IM!'H;ZFT$>AOJ M;01Z&^IM!'H;ZFT$>COJ[01Z.^KM!'H[ZNT$>COJ[01Z^V2SFT!O1[V=0&]' MO9U ;T>]G4!O1[V=0&]'O9U [T"]@T#O0+V#0.] O8-
*[T"]@T#O0+V#0.^8 M?*PDT#M0[R#0.U#O(- [4.\@T#M0[R#0.Z/>F4#OC'IG KTSZIT)],ZH=R;0 M.Z/>F4#OC'IG KWSY&<3 KTSZIV_4^\Z?AY*O?9\K?'YWTGU>+ZW7!]_67Z=*
MG+!SP3G=5M3GOU!+ P04 " #I@6Y9XB$R0O$! 9)P $P %M#;VYT M96YT7U1Y<&5S72YX;6S-VLM.PS 0!=!?J;)%C>LG#]%N@"VPX =,,J51D]BR
M72A_CY,"$@@J4)&XFT:M[;D3CW16/;][]A0GVZ[MX[Q8I>3/&(O5BCH;2^>I MSRM+%SJ;\M?PP+RMUO:!F)C-#*M/C4=Y0L"\3AI7O U[/ MW3Q2"$U-
DUL;TK7M\BZV;5E,SRW%VJ39>/E-$'LG5<$:6N M+7=%C_8GIWS#M/OD!^>/9?8%YIVWP?F8)Q;H]W%O(QE.3WTN1"$U^U_Q/3&7 M/OC]:)AV3?4/L_/U/KFP'N<1V?
*@X_(X_SOB]_B_[$"!]2) ^%$@?&J0/]+' M,4@?)R!]G(+TP6L]\ZM M_SA^?):=;?JW?#; ^(V[Q E!+ 0(4 Q0 (.F!;ED'04UB@0 +$ 0 M " 0 !D;V-0&UL4$L! A0#% @ MZ8%N60A1*CWN*
P(!$ (!KP &1O8U!R;W!S+V-O M&UL4$L! A0#% @ Z8%N69E&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N63>4%V4U" GR, !@ M ("!#PX 'AL+W=O&PO=V]R:W-H965T&UL4$L!
A0#% M @ Z8%N6:Z(BE % R"(! !@ ("!&2('AL+W=OP & @($5.0 >&PO M=V]R:W-H965T&UL4$L! A0#% @ Z8%N6?8]OK_# @ MX0D !@ ("!N$8 'AL+W=O&PO=V]R:W-
H965T&UL4$L! A0#% @ MZ8%N66M;DGOX# W"4 !D ("!658 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N6>HA^:^2 @ D04 !D M ("!]GX 'AL+W=O&PO=V]R:W-H
M965T.' !X;"]W;W)K&UL4$L! M A0#% @ Z8%N6::1<$@! ^0H !D ("!H8L 'AL M+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N M6:A-ZB>##@ ?2H !D ("!#YP*
'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N6?6W23WE!@ #A(M !D ("!MK8 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N6<6XA?\N P [8 !D M ("!O,|
'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @ Z8%N686PZ;IM @ 4 4 !D ("!H=D 'AL+W=O M&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N684H MF]?2 P F0D !D ("!$N,
'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N6:BN]SZ1 @ (@8 !D M ("!'\| 'AL+W=O&PO M=V]R:W-H965T&U0IP, M !8. 9 " @:?T !X;"]W;W)K&UL4$L! A0#% @
Z8%N68/&9.CO P 41$!D ("! MA?@ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% M @ Z8%N69V8.EGR!0 #24 !D ("!<0(! 'AL+W=O&UL4$L! A0#% @ Z8%N60VZ7,' M!@ #2L !D*
*("!N \! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N65Y'R%%N @ ,08 !D M ("!\!L! 'AL+W=O&PO=V]R M:W-H965T&UL M4$L! A0#% @ Z8%N67;P#"*0 P WA !D ("!D"L!*
M 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ MZ8%N69+I+0\7! _Q(!D ("!3S&PO=V]R:W-H965T&UL4$L! A0#% @ Z8%N6=&PO=V]R:W-H965T-? 0!X;"]W;W)K&UL4$L!
A0#% @ Z8%N60CL9C^7 P \PH !D M ("!LV@! 'AL+W=O<_^A<# ")"@ &0 @(&!; $ >&PO=V]R:W-H M965T&UL4$L! M A0#% @ Z8%N6?Y?D8L6 P A0< !D ("!]7(! 'AL*
M+W=O&PO=V]R:W-H965T7!E&UL4$L!%!@ !+ $L A!0 -N- 0 $! end XML 76 Show.js IDEA: XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w){if(Show.LastAR)Show.hideAR();var e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0);e.removeAttribute('id');a.parentNode.appendChild(e)}} if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function(){Show.LastAR.style.display='none'};Show.toggleNext=function(a){var e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var d,p ;if(e.style.display=='none'){d='block';p='-'}else{d='none';p='+'} e.style.display=d;if(a.textContent){a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 77 report.css IDEA: XBRL DOCUMENT / Updated 2009-11-04 */ /* v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } .report table.authRefData a { display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; } .report table.authRefData .hide a:hover { background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } .report table.authRefData table{ font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white; border: 2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re, .report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td { border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space: nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more { display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-size: 1em; } XML 79 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.3 html 209 338 1 false 74 0 false 8 false false R1.htm 100000 - 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"http://xbrl.sec.gov/ecd/2024", "localname": "AwardTmgDiscLineItems", "lang": { "en-us": { "role": { "label": "Award Timing Disclosures [Line Items]", "terseLabel": "Award Timing Disclosures" } } }, "auth_ref": ["r715"] }, "ecd_AwardTmgHowMnpiCnsdrdTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardTmgHowMnpiCnsdrdTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "Award Timing, How MNPI Considered [Text Block]", "terseLabel": "Award Timing, How MNPI Considered" } } }, "auth_ref": ["r715"] }, "ecd_AwardTmgMethodTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardTmgMethodTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "Award Timing Method [Text Block]", "terseLabel": "Award Timing Method" } } }, "auth_ref": ["r715"] }, 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"label": "Award Timing Predetermined [Flag]", "terseLabel": "Award Timing Predetermined" } } }, "auth_ref": ["r715"] }, "us-gaap_AwardTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AwardTypeAxis", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "Award Type [Axis]", "terseLabel": "Award Type", "documentation": "Information by type of award under share-based payment arrangement." } } }, "auth_ref": ["r338", "r339", "r340", "r341", "r342", "r343", "r344", "r345", "r346", "r347", "r348", "r349", "r350", "r351", "r352", "r353", "r354", "r355", "r356", "r357", "r358", "r359", "r360", "r361", "r362", "r363"] }, "ecd_AwardUndrlygSecuritiesAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardUndrlygSecuritiesAmt", 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which is expected to be paid back relatively quickly, such as by a subsequent longer-term loan. Also called swing loan or bridge financing." } } }, "auth_ref": ["r59", "r122"] }, "us-gaap_BridgeLoanMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BridgeLoanMember", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanSummaryOfBridgeLoanDetails"], "lang": { "en-us": { "role": { "label": "Bridge Loan [Member]", "verboseLabel": "Bridge Loans", "terseLabel": "Bridge Loan", "documentation": "Financing which is expected to be replaced by a medium to long-term loan. The loan \"bridges\" the gap in time when otherwise no financing would be in place." } } }, "auth_ref": [] }, "asti_BridgeLoanNetOfDiscount": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "BridgeLoanNetOfDiscount", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanSummaryOfBridgeLoanDetails"], "lang": { "en-us": { "role": { "documentation": "Bridge loan, net of discount.", "label": "Bridge Loan, net of discount" } } }, "auth_ref": [] }, "asti_BridgeNewLoans": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "BridgeNewLoans", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanSummaryOfBridgeLoanDetails"], "lang": { "en-us": { "role": { "documentation": "Bridge new loans.", "label": "Bridge new loans", "terseLabel": "New loans" } } }, "auth_ref": [] }, "us-gaap_BusinessDescriptionAndBasisOfPresentationTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessDescriptionAndBasisOfPresentationTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureBASISOFPRESENTATION"], "lang": { "en-us": { "role": { "label": "Business Description and Basis of Presentation [Text Block]", "terseLabel": "BASIS OF PRESENTATION", "documentation": "The entire disclosure for the business description and basis of presentation concepts. Business description describes the nature and type of organization including but not limited to organizational structure as may be applicable to holding companies, parent and subsidiary relationships, business divisions, business units, business segments, affiliates and information about significant ownership of the reporting entity. Basis of presentation describes the underlying basis used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS)." } } }, "auth_ref": ["r58", "r96", "r97"] }, "us-gaap_CapitalExpendituresIncurredButNotYetPaid": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CapitalExpendituresIncurredButNotYetPaid", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Purchase of equipment not yet paid at end of period", "label": "Capital Expenditures Incurred but Not yet Paid", "documentation": "Future cash outflow to pay for purchases of fixed assets that have occurred." } } }, "auth_ref": ["r23", "r24", "r25"] }, "us-gaap_CashAndCashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsAtCarryingValue", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Cash and Cash Equivalents, at Carrying Value", "terseLabel": "Cash and cash equivalents", "totalLabel": "Cash and Cash Equivalents, at Carrying Value, Total", "documentation": "Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r22", "r142", "r593"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents", "periodEndLabel": "Cash and cash equivalents at end of period", "periodStartLabel": "Cash and cash equivalents at beginning of period", "totalLabel": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Total", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r22", "r93", "r171"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect", "totalLabel": "Net change in cash and cash equivalents", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r0", "r93"] }, "asti_CashPayable": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "CashPayable", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureConvertibleNotesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Cash payble.", "label": "Cash Payable", "terseLabel": "Cash payable" } } }, "auth_ref": [] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Changed Peer Group, Footnote [Text Block]", "terseLabel": "Changed Peer Group, Footnote" } } }, "auth_ref": ["r695"] }, "ecd_ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member]", "terseLabel": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year" } } }, "auth_ref": ["r692"] }, "ecd_ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are

Outstanding and Unvested [Member]", "terseLabel": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested" } } }, "auth_ref": ["r690"] }, "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CityAreaCode", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "City Area Code", "terseLabel": "City Area Code", "documentation": "Area code of city" } } }, "auth_ref": [] }, "us-gaap_ClassOfStockDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockDomain", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSeriesZPreferredStockAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureSubsequentEventsAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSERIESAPREFERREDSTOCKAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITScheduleOfStockByClassDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheetsParenthetical", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficit"], "lang": { "en-us": { "role": { "label": "Class of Stock [Domain]", "terseLabel": "Class of Stock", "documentation": "Share of stock differentiated by the voting rights the holder receives. Examples include, but are not limited to, common stock, redeemable preferred stock, nonredeemable preferred stock, and convertible stock." } } }, "auth_ref": ["r137", "r150", "r151", "r152", "r176", "r201", "r202", "r205", "r207", "r213", "r214", "r230", "r260", "r262", "r263", "r264", "r267", "r268", "r298", "r299", "r302", "r305", "r313", "r402", "r490", "r491", "r492", "r493", "r498", "r499", "r500", "r501", "r502", "r503", "r504", "r505", "r506", "r507", "r508", "r509", "r520", "r541", "r563", "r580", "r581", "r582", "r583", "r584", "r734", "r759", "r768"] }, "us-gaap_ClassOfStockLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockLineItems", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSeriesZPreferredStockAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSERIESAPREFERREDSTOCKAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITScheduleOfStockByClassDetails"], "lang": { "en-us": { "role": { "label": "Class of Stock [Line Items]", "terseLabel": "Class Of Stock [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r150", "r151", "r152", "r213", "r298", "r299", "r300", "r302", "r305", "r311", "r313", "r490", "r491", "r492", "r493", "r614", "r734", "r759"] }, "us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCOMMITMENTSANDCONTINGENCIESAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Warrant exercise price per share", "verboseLabel": "Warrant exercise price per share", "label": "Exercise price", "documentation": "Exercise price per share or per unit of warrants or rights outstanding." } } }, "auth_ref": ["r314"] }, "asti_ClassOfWarrantOrRightIssuedDuringPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "ClassOfWarrantOrRightIssuedDuringPeriod", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Class of warrant or right issued during period.", "label": "Class Of Warrant Or Right Issued During Period", "terseLabel": "Prefunded warrants issued" } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right, Number of Securities Called by Warrants or Rights", "terseLabel": "Warrants exercisable for number shares of common stock", "documentation": "Number of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares." } } }, "auth_ref": ["r314"] }, "us-gaap_ClassOfWarrantOrRightOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightOutstanding", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right, Outstanding", "terseLabel": "Warrants outstanding", "verboseLabel": "Outstanding common warrants", "documentation": "Number of warrants or rights outstanding." } } }, "auth_ref": [] }, "ecd_CoSelectedMeasureAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Amount", "terseLabel": "Company Selected Measure 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"http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingencies", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Commitments and Contingencies", "terseLabel": "Commitments and contingencies (Note 17)", "documentation": "Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur." } } }, "auth_ref": ["r68", "r124", "r455", "r519"] }, 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These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r72"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheetsParenthetical"], "lang": { "en-us": { "role": { "label": "Common Stock, Shares, Outstanding", "terseLabel": "Common stock, shares outstanding (in shares)", "periodStartLabel": "Common Stock, Shares, Outstanding, Beginning Balance", "periodEndLabel": "Common Stock, Shares, Outstanding, Ending Balance", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r10", "r72", "r520", "r538", "r899", "r900"] }, "us-gaap_CommonStockSharesSubscriptions": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesSubscriptions", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Common Stock, Value, Subscriptions", "terseLabel": "Aggregate sales price of common stock", "documentation": "Monetary value of common stock allocated to investors to buy shares of a new issue of common stock before they are offered to the public. When stock is sold on a subscription basis, the issuer does not initially receive the total proceeds. In general, the issuer does not issue the shares to the investor until it receives the entire proceeds." } } }, "auth_ref": ["r40", "r72"] }, "us-gaap_CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, $0.0001 par value, 500,000,000 authorized; 1,275,429 and 238,996 shares issued and outstanding, respectively", "label": "Common Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r72", "r457", "r629"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Company Selected Measure" } } }, "auth_ref": ["r701"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname":

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"http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESPolicies"], "lang": { "en-us": { "role": { "label": "Compensation Related Costs, Policy [Policy Text Block]", "terseLabel": "Share-Based Compensation", "documentation": "Disclosure of accounting policy for salaries, bonuses, incentive awards, postretirement and postemployment benefits granted to employees, including equity-based arrangements; discloses methodologies for measurement, and the bases for recognizing related assets and liabilities and recognizing and reporting compensation expense." } } }, "auth_ref": ["r115", "r117"] }, "us-gaap_ComprehensiveIncomeNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTax", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfOperationsAndComprehensiveIncome"], "lang": { "en-us": { "role": { "label": "Comprehensive Income (Loss), Net of Tax, Attributable to Parent", "totalLabel": "Net Comprehensive Income/(Loss)", "documentation": "Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r18", "r158", "r160", "r164", "r448", "r467", "r468"] }, "us-gaap_ConcentrationRiskBenchmarkDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskBenchmarkDomain", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Benchmark [Domain]", "terseLabel": "Concentration Risk Benchmark", "documentation": "The denominator in a calculation of a disclosed concentration risk percentage." } } }, "auth_ref": ["r32", "r33", "r52", "r53", "r226", "r586"] }, "us-gaap_ConcentrationRiskByBenchmarkAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByBenchmarkAxis", "presentation": [
"http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Benchmark [Axis]", "terseLabel": "Concentration Risk Benchmark", "documentation": "Information by benchmark of concentration risk." } } }, "auth_ref": ["r32", "r33", "r52", "r53", "r226", "r486", "r586"] }, "us-gaap_ConcentrationRiskByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByTypeAxis", "presentation": [
"http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Type [Axis]", "terseLabel": "Concentration Risk Type", "documentation": "Information by type of concentration risk, for example, but not limited to, asset, liability, net assets, geographic, customer, employees, supplier, lender." } } }, "auth_ref": ["r32", "r33", "r52", "r53", "r226", "r586", "r738"] }, "us-gaap_ConcentrationRiskPercentage1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskPercentage1", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk, Percentage", "terseLabel": "Concentration risk, percentage", "documentation": "For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r32", "r33", "r52", "r53", "r226"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTypeDomain", "presentation": [
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"http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESScheduleOfConvertibleNotesDetails"], "lang": { "en-us": { "role": { "label": "Convertible Debt [Member]", "terseLabel": "Convertible Debt", "documentation": "Borrowing which can be exchanged for a specified number of another security at the option of the issuer or the holder, for example, but not limited to, the entity's common stock." } } }, "auth_ref": ["r106", "r270", "r271", "r281", "r282", "r283", "r287", "r288", "r289", "r290", "r291", "r609", "r610", "r611", "r612", "r613"] }, "us-gaap_ConvertibleDebtTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConvertibleDebtTableTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESTables"], "lang": { "en-us": { "role": { "label": "Convertible Debt [Table Text Block]", "terseLabel": "Schedule of Convertible Debt", "documentation": "Tabular disclosure of convertible debt instrument. Includes, but is not limited to, principal amount and amortized premium or discount." } } }, "auth_ref": [] }, "us-gaap_ConvertibleLongTermNotesPayable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConvertibleLongTermNotesPayable", "crdr": "credit", "presentation": [
"http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Convertible Notes Payable, Noncurrent", "terseLabel": "Non-current convertible notes, net", "totalLabel": "Net Principal Balance", "documentation": "Carrying value as of the balance sheet date of long-term debt (with maturities initially due after one year or beyond the operating cycle if longer) identified as Convertible Notes Payable, excluding current portion. Convertible Notes Payable is a written promise to pay a note which can be exchanged for a specified amount of another, related security, at the option of the issuer and the holder." } } }, "auth_ref": ["r13"] }, "asti_ConvertibleNotesMember": { "xbrltype": "domainItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "ConvertibleNotesMember", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureConvertibleNotesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Convertible Notes", "label": "Convertible Notes [Member]", "documentation": "Convertible Notes [Member]" } } }, "auth_ref": [] }, "us-gaap_ConvertibleNotesPayable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConvertibleNotesPayable", "crdr": "credit", "presentation": [
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share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term,
including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other
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"r609", "r845", "r846"] }, "us-gaap_DebtInstrumentNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentNameDomain", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureConvertibleNotesAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureOtherPayableAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESScheduleOfConvertibleNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Name [Domain]", "terseLabel": "Debt Instrument, Name", "documentation": "The name for the particular debt instrument or borrowing that distinguishes it from other debt instruments or borrowings, including draws against credit facilities." } } }, "auth_ref": ["r13", "r181", "r270", "r271", "r272", "r273", "r274", "r276", "r281", "r282", "r283", "r284", "r286", "r287", "r288", "r289", "r290", "r291", "r609", "r610", "r611", "r612", "r613", "r627", "r760", "r785", "r786", "r787", "r850", "r852"] }, "us-gaap_DebtInstrumentPeriodicPayment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentPeriodicPayment", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt instrument periodic payment", "label": "Debt Instrument, Periodic Payment", "totalLabel": "Debt Instrument, Periodic Payment, Total", "verboseLabel": "Weekly payments", "documentation": "Amount of the required periodic payments including both interest and principal payments." } } }, "auth_ref": ["r13", "r57"] }, "asti_DebtInstrumentPrincipalRollForward": { "xbrltype": "stringItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "DebtInstrumentPrincipalRollForward", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESScheduleOfConvertibleNotesDetails"], "lang": { "en-us": { "role": { "documentation": "Debt Instrument, Principal [Roll Forward]", "label": "Debt Instrument Principal Roll Forward", "terseLabel": "Debt Instrument, Principal [Roll Forward]" } } }, "auth_ref": [] }, "us-gaap_DebtInstrumentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentTable", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureOtherPayableAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESScheduleOfConvertibleNotesDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Long-Term Debt Instruments [Table]", "terseLabel": "Debt Instrument [Table]", "documentation": "Disclosure of information about long-term debt instrument or arrangement." } } }, "auth_ref": ["r13", "r43", "r47", "r56", "r110", "r112", "r181", "r270", "r271", "r272", "r273", "r274", "r276", "r281", "r282", "r283", "r284", "r286", "r287", "r288", "r289", "r290", "r291", "r294", "r609", "r610", "r611", "r612", "r613", "r627", "r760", "r850", "r852"] }, "us-gaap_DebtInstrumentUnamortizedDiscount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentUnamortizedDiscount", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanSummaryOfBridgeLoanDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCONVERTIBLENOTESScheduleOfConvertibleNotesDetails"], "lang": { "en-us": { "role": { "totalLabel": "Debt Instrument, Unamortized Discount, Total", "label": "Debt Instrument, Unamortized Discount", "terseLabel": "Less: Discount Balance", "negatedLabel": "Less: Discount Balance", "negatedTerseLabel": "Discount", "verboseLabel": "Original issuance discount", "documentation": "Amount, after accumulated amortization, of debt discount." } } }, "auth_ref": ["r800", "r849", "r850", "r852"] }, "us-gaap_DeferredFinanceCostsNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredFinanceCostsNet", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails"], "lang": { "en-us": { "role": { "totalLabel": "Debt Issuance Costs, Net, Total", "label": "Debt Issuance Costs, Net", "terseLabel": "Origination fees paid", "documentation": "Amount, after accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs." } } }, "auth_ref": ["r800", "r849", "r850", "r852"] }, "us-gaap_DeferredRevenue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredRevenue", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureRELATEDPARTYTRANSACTIONSAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESDeferredRevenueDetails"], "lang": { "en-us": { "role": { "label": "Deferred Revenue", "verboseLabel": "Revenue recognized", "totalLabel": "Deferred Revenue, Total", "periodStartLabel": "Beginning Balance", "periodEndLabel": "Ending Balance", "documentation": "Amount of deferred income and obligation to transfer product and service to customer for which consideration has been received or is receivable." } } }, "auth_ref": ["r748"] }, "us-gaap_DeferredRevenueByArrangementDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredRevenueByArrangementDisclosureTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESTables"], "lang": { "en-us": { "role": { "label": "Deferred Revenue, by Arrangement, Disclosure [Table Text Block]", "terseLabel": "Deferred Revenue", "documentation": "Tabular disclosure of the type of arrangements and the corresponding amounts that comprise the current and noncurrent balance of deferred revenue as of the balance sheet date." } } }, "auth_ref": [] }, "us-gaap_Depreciation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Depreciation", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosurePROPERTYPLANTANDEQUIPMENTAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Depreciation", "terseLabel": "Depreciation expense", "totalLabel": "Depreciation, Total", "documentation": "The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation." } } }, "auth_ref": ["r6", "r34"] }, "us-gaap_DepreciationAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationAndAmortization", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfOperationsAndComprehensiveIncome"], "lang": { "en-us": { "role": { "label": "Depreciation, Depletion and Amortization, Nonproduction", "terseLabel": "Depreciation and amortization", "totalLabel": "Depreciation, Depletion and Amortization, Nonproduction, Total", "documentation": "The current period expense charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production." } } }, "auth_ref": ["r6", "r34"] }, "us-gaap_DepreciationDepletionAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationDepletionAndAmortization", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Depreciation, Depletion and Amortization", "terseLabel": "Depreciation and amortization", "totalLabel": "Depreciation, Depletion and Amortization, Total", "documentation": "The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets." } } }, "auth_ref": ["r6", "r211", "r218", "r223", "r605", "r606"] }, "us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATION"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement [Text Block]", "terseLabel": "SHARE-BASED COMPENSATION", "documentation": "The entire disclosure for share-based payment arrangement." } } }, "auth_ref": ["r333", "r337", "r365", "r366", "r368", "r618"] }, "us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract", "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement [Abstract]" } } }, "auth_ref": [] }, "us-gaap_DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSharebasedCompensationTables"], "lang": { "en-us": { "role": { "label": "Disclosure of Share-Based Compensation Arrangements by Share-Based Payment Award [Table Text Block]", "terseLabel": "Summary of Non-vested Restricted Stock and Related Activity", "documentation": "Tabular disclosure of share-based payment arrangement." } } }, "auth_ref": ["r8", "r48"] }, "dei_DocumentFiscalPeriodFocus": { "xbrltype": "fiscalPeriodItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalPeriodFocus", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Period Focus", "terseLabel": "Document Fiscal Period Focus", "documentation": "Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY." } } }, "auth_ref": [] }, "dei_DocumentFiscalYearFocus": { "xbrltype": "gYearItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalYearFocus", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Year Focus", "terseLabel": "Document Fiscal Year Focus", "documentation": "This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } }, "auth_ref": [] }, "dei_DocumentPeriodEndDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentPeriodEndDate", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Period End Date", "terseLabel": "Document Period End Date", "documentation": "For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD." } } }, "auth_ref": [] }, "dei_DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentQuarterlyReport", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Quarterly Report", "terseLabel": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as an quarterly report." } } }, "auth_ref": ["r651"] }, "dei_DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentTransitionReport", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Transition Report", "terseLabel": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } }, "auth_ref": ["r683"] }, "dei_DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentType", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Type", "terseLabel": "Document Type", "documentation": "The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'." } } }, "auth_ref": [] }, "asti_DownRoundDeemedDividend": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "DownRoundDeemedDividend", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesScheduleOfNetLossAttributableToCommonShareholdersDetails"], "lang": { "en-us": { "role": { "terseLabel": "Down round deemed dividend", "negatedLabel": "Down round deemed dividend", "label": "Down Round Deemed Dividend", "documentation": "Down round deemed dividend." } } }, "auth_ref": [] }, "asti_DownRoundDeenedDividend": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "DownRoundDeenedDividend", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Down round deemed dividend", "label": "Down Round Deened Dividend", "documentation": "Down round deened dividend." } } }, "auth_ref": [] }, "ecd_DvddsOrOthrErngsPdOnEqtyAwrdsNtOthrwsRflctdInTtlCompForCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "DvddsOrOthrErngsPdOnEqtyAwrdsNtOthrwsRflctdInTtlCompForCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member]", "terseLabel": "Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year" } } }, "auth_ref": ["r694"] }, "us-gaap_EarningsPerShareAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareAbstract", "lang": { "en-us": { "role": { "label": "Earnings Per Share [Abstract]" } } }, "auth_ref": [] }, "us-gaap_EarningsPerShareBasic": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareBasic", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesScheduleOfNetLossAttributableToCommonShareholdersDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfOperationsAndComprehensiveIncome"], "lang": { "en-us": { "role": { "label": "Earnings Per Share, Basic", "terseLabel": "Net Income/(Loss) Per Share (Basic)", "totalLabel": "Earnings Per Share, Basic, Total", "verboseLabel": "Earnings Per Share (Basic)", "documentation": "The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period." } } }, "auth_ref": ["r165", "r188", "r189", "r190", "r191", "r192", "r193", "r198", "r201", "r205", "r206", "r207", "r210", "r377", "r380", "r397", "r398", "r449", "r469", "r602"] }, "us-gaap_EarningsPerShareDiluted": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareDiluted", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesScheduleOfNetLossAttributableToCommonShareholdersDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfOperationsAndComprehensiveIncome"], "lang": { "en-us": { "role": { "label": "Earnings Per Share, Diluted", "terseLabel": "Net Income/(Loss) Per Share (Diluted)", "totalLabel": "Earnings Per Share, Diluted, Total", "verboseLabel": "Earnings Per Share (Diluted)", "documentation": "The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during

the reporting period." } } }, "auth_ref": ["r165", "r188", "r189", "r190", "r191", "r192", "r193", "r201", "r205", "r206", "r207", "r210", "r377", "r380", "r397", "r398", "r449", "r469", "r602"] }, "us-gaap_EarningsPerSharePolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerSharePolicyTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSUMMARYOFSIGNIFICANTACCOUNTINGPOLICIESPolicies"], "lang": { "en-us": { "role": { "label": "Earnings Per Share, Policy [Policy Text Block]", "terseLabel": "Earnings Per Share", "documentation": "Disclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements." } } }, "auth_ref": ["r28", "r29", "r209"] }, "us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Effect of foreign exchange rate on cash", "label": "Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Continuing Operations", "documentation": "Amount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r405"] }, "us-gaap_EmployeeRelatedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeRelatedLiabilitiesCurrent", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Employee-related Liabilities, Current", "terseLabel": "Accrued liabilities", "totalLabel": "Employee-related Liabilities, Current, Total", "verboseLabel": "Accrued payroll", "documentation": "Total of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r62"] }, "asti_EmployeeRetentionTaxCredit": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "EmployeeRetentionTaxCredit", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesOtherIncomeexpenseNetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Employee retention credit", "label": "Employee Retention Tax Credit", "documentation": "Employee retention tax credit." } } }, "auth_ref": [] }, "us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Period for Recognition", "terseLabel": "Unrecognized share-based compensation expense, period for recognition", "documentation": "Weighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r367"] }, "us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedShareBasedAwardsOtherThanOptions": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedShareBasedAwardsOtherThanOptions", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Nonvested Award, Excluding Option, Cost Not yet Recognized, Amount", "terseLabel": "Total unrecognized share-based compensation expense", "documentation": "Amount of cost to be recognized for nonvested award under share-based payment arrangement. Excludes share and unit options." } } }, "auth_ref": ["r829"] }, "us-gaap_EmployeeStockOptionMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeStockOptionMember", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "Employee Stock Option [Member]", "terseLabel": "Employee Stock Option", "documentation": "Share-based payment arrangement granting right, subject to vesting and other restrictions, to purchase or sell certain number of shares at predetermined price for specified period of time." } } }, "auth_ref": [] }, "asti_EmployeesAndDirectorsMember": { "xbrltype": "domainItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "EmployeesAndDirectorsMember", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Employees and directors member.", "label": "Employees and Directors [Member]", "terseLabel": "Employees and Directors" } } }, "auth_ref": [] }, "asti_EngineeringRevenueRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "EngineeringRevenueRecognized", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureRELATEDPARTYTRANSACTIONSAdditionalInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Engineering revenue recognized.", "label": "Engineering Revenue Recognized", "terseLabel": "Engineering revenue recognized" } } }, "auth_ref": [] }, "dei_EntityAddressAddressLine1": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressAddressLine1", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Address, Address Line One", "verboseLabel": "Entity Address, Address Line One", "documentation": "Address Line 1 such as Attn, Building Name, Street Name" } } }, "auth_ref": [] }, "dei_EntityAddressCityOrTown": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressCityOrTown", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Address, City or Town", "terseLabel": "Entity Address, City or Town", "documentation": "Name of the City or Town" } } }, "auth_ref": [] }, "dei_EntityAddressPostalZipCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressPostalZipCode", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Address, Postal Zip Code", "terseLabel": "Entity Address, Postal Zip Code", "documentation": "Code for the postal or zip code" } } }, "auth_ref": [] }, "dei_EntityAddressStateOrProvince": { "xbrltype": "stateOrProvinceItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressStateOrProvince", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Address, State or Province", "terseLabel": "Entity Address, State or Province", "documentation": "Name of the state or province." } } }, "auth_ref": [] }, "dei_EntityCentralIndexKey": { "xbrltype": "centralIndexKeyItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCentralIndexKey", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Central Index Key", "terseLabel": "Entity Central Index Key", "documentation": "A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. 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Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Current Reporting Status", "terseLabel": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [] }, "dei_EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityEmergingGrowthCompany", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Emerging Growth Company", "terseLabel": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } }, "auth_ref": ["r649"] }, "dei_EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFileNumber", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Securities Act File Number", "terseLabel": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } }, "auth_ref": [] }, "dei_EntityFilerCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFilerCategory", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Filer Category", "verboseLabel": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r649"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Incorporation, State or Country Code", "terseLabel": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Interactive Data Current", "terseLabel": "Entity Interactive Data Current", "documentation": "Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": ["r733"] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityRegistrantName", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Registrant Name", "terseLabel": "Entity Registrant Name", "documentation": "The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": ["r649"] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityShellCompany", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Shell Company", "terseLabel": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": ["r649"] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntitySmallBusiness", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Small Business", "terseLabel": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": ["r649"] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityTaxIdentificationNumber", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Tax Identification Number", "terseLabel": "Entity Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": ["r649"] }, "ecd_EqtyAwrdsAdjFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Equity Awards Adjustments, Footnote [Text Block]", "terseLabel": "Equity Awards Adjustments, Footnote" } } }, "auth_ref": ["r688"] }, "ecd_EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member]", "terseLabel": "Equity Awards Adjustments, Excluding Value Reported in Compensation Table" } } }, "auth_ref": ["r729"] }, "ecd_EqtyAwrdsAdjsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Equity Awards Adjustments [Member]", "terseLabel": "Equity Awards Adjustments" } } }, "auth_ref": ["r729"] }, "ecd_EqtyAwrdsInSummryCompstnTblForAplblYrMember": { "xbrltype": "domainItemType", "nsuri":

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Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount." } } }, "auth_ref": ["r167", "r169", "r170"] }, "us-gaap_InterestPayableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestPayableCurrent", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureConvertibleNotesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Interest Payable, Current",

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cost, the classes of inventory, and the nature of the cost elements included in inventory." } } }, "auth_ref": [ "r234" ] }, "us-gaap_InventoryFinishedGoodsNetOfReserves": {
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Materials, Net of Reserves", "terseLabel": "Raw materials", "documentation": "Carrying amount, net of valuation reserves and adjustments, as of the balance sheet date of
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Process, Net of Reserves", "terseLabel": "Work in process", "documentation": "Carrying amount, net of reserves and adjustments, as of the balance sheet date of merchandise
or goods which are partially completed. This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and
overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing." } } }, "auth_ref": [ "r100",
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held under a lease arrangement." } } }, "auth_ref": [ "r103", "r428" ] }, "us-gaap_LeasesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024",
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Fees", "terseLabel": "Legal fees", "documentation": "The amount of expense provided in the period for legal costs incurred on or before the balance sheet date pertaining to
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Liability", "documentation": "Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted
cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": [ "r854" ] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": {
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financial position date (rolling approach)." } } }, "auth_ref": [ "r427" ] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour": { "xbrltype": "monetaryItemType",
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These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the company, if longer." } } }, "auth_ref": [ "r13", "r36", "r785", "r786", "r787" ] }, "asti_LossContingencyCommonStockWarrant": { "xbrltype": "sharesItemType", "nsuri": "http://ascentsolar.com/20240930", "localname": "LossContingencyCommonStockWarrant", "presentation": [ "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureCOMMITMENTSANDCONTINGENCIESAdditionalInformationDetails" ], "lang": { "en-us": { "role": { "documentation": "Loss contingency common stock warrant.", "label": "Loss contingency common stock warrant", "terseLabel": "Common stock warrants" } } }, "auth_ref": [] }, "us-gaap_LossContingencyDamagesSoughtValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyDamagesSoughtValue", "crdr": "debit", "presentation": [ 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Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } }, "auth_ref": ["r168"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Financing Activities [Abstract]", "terseLabel": "Financing Activities:" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Investing Activities", "totalLabel": "Net cash used in investing activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. 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Arrangement Adopted [Flag]", "terseLabel": "Non-Rule 10b5-1 Arrangement Adopted" } } }, "auth_ref": ["r723"] }, "ecd_NonRule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "NonRule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Non-Rule 10b5-1 Arrangement Terminated [Flag]", "terseLabel": "Non-Rule 10b5-1 Arrangement Terminated" } } }, "auth_ref": ["r723"] }, "us-gaap_NonoperatingIncomeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NonoperatingIncomeExpense", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfOperationsAndComprehensiveIncome"], "lang": { "en-us": { "role": { "label": "Nonoperating Income (Expense)", "totalLabel": "Total Other Income/(Expense)", "documentation": "The aggregate amount of income or expense from 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sold directly or indirectly through sales of assembled products." } } }, "auth_ref": ["r751"] }, "us-gaap_OtherLiabilitiesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherLiabilitiesDisclosureTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureOtherPayable"], "lang": { "en-us": { "role": { "label": "Other Liabilities Disclosure [Text Block]", "terseLabel": "OTHER PAYABLE", "documentation": "The entire disclosure for other liabilities." } } }, "auth_ref": ["r62", "r67", "r783"] }, "us-gaap_OtherNonoperatingIncomeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherNonoperatingIncomeExpense", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesOtherIncomeexpenseNetDetails", 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Includes, but is not limited to, third-party cost, premium paid, and other fee paid to lender directly for debt extinguishment or debt prepayment. Excludes accrued interest." } } }, "auth_ref": ["r4"] }, "us-gaap_PaymentsOfStockIssuanceCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsOfStockIssuanceCosts", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficitParenthetical"], "lang": { "en-us": { "role": { "label": "Payments of Stock Issuance Costs", "terseLabel": "Sale on ATM facility, net of expenses", "documentation": "The cash outflow for cost incurred directly with the issuance of an equity security." } } }, "auth_ref": ["r21"] }, "us-gaap_PaymentsToAcquireEquityMethodInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireEquityMethodInvestments", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": 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information. Stock by class includes common, convertible, and preferred stocks which are not redeemable or redeemable solely at the option of the issuer. Includes preferred
stock with redemption features that are solely within the control of the issuer and mandatorily redeemable stock if redemption is required to occur only upon liquidation or
termination of the reporting entity. If more than one issue is outstanding, state the title of each issue and the corresponding dollar amount; dollar amount of any shares
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defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period." } } }, "auth_ref": ["r360"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSharebasedCompensationSummaryOfWeightedAverageAssumptionsUsedToEstimateFairValuesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Risk-free interest rate", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate", "documentation": "The risk-free interest rate assumption that is used in valuing an option on its own shares." } } }, "auth_ref": ["r362"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "terseLabel": "Share Based Compensation Arrangement By Share Based Payment Award [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan." } } }, "auth_ref": ["r343"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresAndExpirationsInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresAndExpirationsInPeriod", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSharebasedCompensationSummaryOfStockOptionsActivityDetails"], "lang": { "en-us": { "role": { "negatedLabel": "Stock Options Outstanding, Shares, Forfeited / Expired", "terseLabel": "Stock Options Outstanding, Shares, Forfeited / Expired", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures and Expirations in Period", "totalLabel": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures and Expirations in Period, Total", "documentation": "For presentations that combine terminations, the number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan or that expired." } } }, "auth_ref": ["r809"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresAndExpirationsInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresAndExpirationsInPeriodWeightedAverageExercisePrice", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSharebasedCompensationSummaryOfStockOptionsActivityDetails"], "lang": { "en-us": { "role": { "terseLabel": "Stock Options Outstanding, Weighted Average Exercise Price, Forfeited / Expired", "label": 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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r357"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Unvested options expected to vest", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number", "documentation": "Number of fully vested and expected to vest options outstanding that can be converted into shares under option plan. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r357"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficit"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period", "terseLabel": "Share-based compensation (in shares)", "documentation": "Number of shares issued under share-based payment arrangement." } } }, "auth_ref": ["r48"] }, 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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": [ "r357" ] }, "us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedWeightedAverageGrantDateFairValue": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedWeightedAverageGrantDateFairValue", "presentation": [ "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSHAREBASEDCOMPENSATIONAdditionalInformationDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Weighted average grant date fair value", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested, Weighted Average Grant Date Fair Value", "documentation": "Weighted average grant-date fair value of options vested." } } }, "auth_ref": [] }, "us-gaap_SharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesIssued", "presentation": [ "http://ascentsolar.com/20240930/taxonomy/role/DisclosureSubsequentEventsAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficit" ], "lang": { "en-us": { "role": { "verboseLabel": "Shares issued", "label": "Shares, Issued", "periodEndLabel": "Ending balance (in shares)", "periodStartLabel": "Beginning balance (in shares)", "documentation": "Number of shares of stock issued as of the balance sheet date, including shares that had been issued and were previously outstanding but which are now held in the treasury." } } }, "auth_ref": [ "r10" ] }, "us-gaap_SharesIssuedPricePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesIssuedPricePerShare", "presentation": [ "http://ascentsolar.com/20240930/taxonomy/role/DisclosureSeriesZPreferredStockAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureSubsequentEventsAdditionalInformationDetails" ], "lang": { "en-us": { "role": { "label": "Shares Issued, Price Per Share", "terseLabel": "Purchase price of share", "documentation": "Per share or per unit amount of equity securities issued." } } }, "auth_ref": [] }, "us-gaap_ShortTermBorrowingsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShortTermBorrowingsAbstract", "lang": { "en-us": { "role": { "label": "Short-Term Debt [Abstract]" } } }, "auth_ref": [] }, "us-gaap_ShortTermDebtLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShortTermDebtLineItems", "presentation": [ "http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureBridgeLoanSummaryOfBridgeLoanDetails", "http://ascentsolar.com/20240930/taxonomy/role/DisclosureConvertibleNotesAdditionalInformationDetails" ], "lang": { "en-us": { "role": { "label": "Short-Term Debt [Line Items]", "terseLabel": "Short Term Debt [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Excludes share-based payment arrangement." } } }, "auth_ref": ["r313", "r315"] }, "us-gaap_StockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquity", "crdr": "credit", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficit"], "lang": { "en-us": { "role": { "label": "Equity, Attributable to Parent", "periodEndLabel": "Ending balance", "periodStartLabel": "Beginning balance", "totalLabel": "Total stockholders\u2019 equity (deficit)", "documentation": "Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth_ref": ["r72", "r75", "r76", "r99", "r522", "r538", "r564", "r565", "r629", "r647", "r761", "r778", "r848", "r899"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityAbstract", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Equity, Attributable to Parent [Abstract]", "terseLabel": "Stockholders\u2019 Equity (Deficit):" } } }, "auth_ref": [] }, "us-gaap_StockholdersEquityNoteDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityNoteDisclosureTextBlock", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICIT"], "lang": { "en-us": { "role": { "label": "Equity [Text Block]", "terseLabel": "STOCKHOLDERS' EQUITY (DEFICIT)", "documentation": "The entire disclosure for equity." } } }, "auth_ref": ["r109", "r175", "r297", "r299", "r301", "r302", "r303", "r304", "r305", "r306", "r307", "r309", "r310", "r312", "r317", "r393", "r566", "r568", "r585"] }, "us-gaap_StockholdersEquityNoteStockSplitConversionRatio1": { "xbrltype": "pureItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityNoteStockSplitConversionRatio1", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureORGANIZATIONAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Reverse stock split ratio", "label": "Stockholders' Equity Note, Stock Split, Conversion Ratio", "documentation": "Ratio applied to the conversion of stock split, for example but not limited to, one share converted to two or two shares converted to one." } } }, "auth_ref": ["r114"] }, "us-gaap_SubsequentEventLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventLineItems", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSubsequentEventsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Subsequent Event [Line Items]", "documentation": "Detail information of subsequent event by type. 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Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business." } } }, "auth_ref": ["r439", "r441"] }, "us-gaap_SubsidiarySaleOfStockAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiarySaleOfStockAxis", "presentation": ["http://ascentsolar.com/20240930/taxonomy/role/DisclosureSubsequentEventsAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/Role_DisclosureSTOCKHOLDERSEQUITYDEFICITAdditionalInformationDetails", "http://ascentsolar.com/20240930/taxonomy/role/StatementCondensedStatementsOfChangesInStockholdersEquityDeficitParenthetical"], "lang": { "en-us": { "role": { "label": "Sale of Stock [Axis]", "terseLabel": "Sale of Stock", "documentation": "Information by type of sale of the entity's stock." } } }, "auth_ref": [] 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KYSLPU'0)$03,1>TLT;$G7953[-5(^CR@VH0=H"P MU=?'.<:D->7BO/+<1"1$RFZ+ [?%!P4^,;*2 592%[NZ@WLW4>TU6L]${]]3& MK.R3C0Z,+94{(AN.'(M,J9"DLYVM
.QR,NI=>RS,7_H@'1<6LI3IB,8;98& M9)BT@(,23 $;7/2=,YK[ZU"",S!!2@((,'ONN M<\J2#@IJ;/-VB(=5#QQ9"7BK)=&Q>XWF;SD$]0\P.D;# M_*S=6$<+)HW6^/7.*B.%A->Z$
*,BQNT,Y'1 A()!=&Y +Y@*RUB3A-A%B! MX'M7:HV6$V84.!$\%K44LV=R"5@EPF!5'1IFH!%:8B>ZWK[C1]OQ]16U/01.C M%]!1$@)>@94$&>,,)>
7,$>>U4:2SMN=M?:$R12;#$,/,$'V,$R=;V6$2(@C! M$M@+%D=-O,"0#8DB!_9EE#@2N_BN>O< %GUW8-$M;1C].R"9G[X-HRC^J \FF/#?ZO*X?@-
MX!F346LEV<9%HQ@)^S/FN.4^EMC[ON-:_\] <}+&%F@UBM#(BX+2B7D84(W>Y M^[Y"AE P?7QR23!,>%C%(LAGT:#[?J8s;fE_C_#&,QXE.!85CZ&PBb>G?JE1=% M&T>D\V!$8%"A/-
&<:I5+3'6*.EO#P74VY>CZ$F0R2ROZ8U Y_AP=%2-QI-A MDS7R#JZ(HS?@NKP==RN?IJV0CF24.)D":CHH<4TE,M$)1*C%"OQ1H.B*XR!Y MS#-
A6A0VR6(D5&GD7.X*DRA!FB}}B)3:4D^C4 N/U*P(#PN<^Z[!2L6HP<'Q M'EF&)8J@1V"59 BJ\IG M"'5#*>@0P2CMO@O5D73C!5%(YH-.\IER"H$P1160\9(ARJ368)M%'CHK1W>D
MT&X<6\#"L&U'0X##10M/>[I<>OA?[F\FLY751)$O-D1E'SFS$F%'96>'k?D_N M;;-.6HP#>,.HZ43,O8MYW]RBY*YC%NDM2RZ7Z&S5S;4]<2,UNS<9PFTEJ, M)+= R8
3LIACI#E7EN-H&%DU$W7)&1!+HJ/GBA(P4T4(!.BH\BE,3B/;@VC< M-2H6GEBV/,CZ!2,GDV"@A:3!N="'>P.K&WVD/$?G.1<[L)PM R7*QB;K!4H M!)D;QB6","
",2\"H\Z+.!=>.+E@4_&Q^B;0]N1+$:;\-1(IGEO+2Z&1219> MX)71AKND>?>ITK'0-VDIA5'1'$VB>>L\MU'E,A?-Y+[F"C0"]X1PU[D4QLYE
MAE_*T6FEY,QB1%$K.:X!D#L/RYRO+PP8S9RZ$#VL9V=W)>ZXN,N:$6S%0] 1 M[*2HD\@1,(9R+@9*4@=GP1-6OG.Y%RO96>19=R1MRR92PK/@DT68Y@)\ET__
M"E(@)YD".S]X:3KG;)^PR+MHZ\FH 9*=X=`DBC2-BU=L?S^*F8U?9U++LNW. M19R+O"!?.AB1B=S<,[FPGO5E1S#?&4!PL,D2! M9R&409]#9^L5\YS E+4V2X
M<#P9IYGKG*=Q2W?./>O<<5MZ^";+N4/Y{EEN[Z@EYR]]D)9T6!#A,.(* !C\ M((F,"!"%I,$]C1(KW=F=C)ZJUU.56^\(1H*)?/(I4%5S%< (2\H;+KU5G:5J M9XY0:TV%.N=24!8EP1*
(F/<(K!L)OI-TG!F"K>P<.*_ 3GN+#4Y5L#0EAD%] M\@R"SB.K679QF8*?%S3O3S(#G4'6D+ 6T45$HX4Q2 #T E^Z!0X4LE:,H,' MM=:YK8L[, W1L\2-MZ7TYAO2:R3-
)$Z2]2(I7@3,)AMB#8+LQ2&!AF[,2MW M0=B7%,E)-C"2#U!4N8%BXCH?UNM1/A]/Z&B)\ A"TU&9UW(#J?1JJ]FSX!?3QYP\LW)W_D)5SRM_D<:7WK.9#S:R%_\X++-VAE_S
MGO'HTO,;2#[Y]D<'F(.\]343GG[Y@T_\#U +5P\Q?_.##\N!{AR) E+6X${= M A6]?5T-!G94-_'ITS*

,X_XCW$[C=+E^=''?LAI[KR^M[!TG<\73_GXE8_[}YJ>\++}OP/RJ MROKG002]E<"D_CMGXKB%_BWJ,?' P"Q(PL:>_@%C:NC#;PNRN&K_T7E M,,3O&XB}@D5 :[!\^:KY+]K
<'&_L ^C5Q?OXK=BM M#NWPY$)7C-HU%$WT,V-MZ-7_YU_[H%SW*C\E_7:CNL40VAFKA!?#6_Q*>#:'<|?,S1KQ]<$79A M02Z]|ZYK<6X5'FUVOAI4HXU_QLU_KZZ?
Z[{^QOOR[V M]C?WM_>>ZR+L;6]|VMW9W]G>*S;?ORZV_VOKKYOO_]@NMCZ\>[>SM{?SX?VJ MKPRJ'Y\K\IZT/0-C'U7"M>++V^M5Y0++BY;C5FL\IPML'Q?TZA8C;--M'B%)RG
M?S< <55+,8Q<.6K6(+_BF0/+TY[=DA#CS8?==\?)^,3.LAHWA M5_K&3'KXY3*7O%,$16S!^,'1D{PBV++F4.S&=.<:RF)HLY\7 M8KGQNO)->7
.LW1C00E&?SMEIG/+\EN/-BLDCT]E=O\S 0\R'=\7;LX&/L\')X^.GGTU{N73DHQ\<;)U?/+H*K MPNG,FX?SO\P[A+,)3#W"E]?<8N1M]_SR! C-%/(@;3A>!H-
>G5A^6!5SJW=O'$VO6'^$7@14..KUO9< MA&PO?JEB\6FGV#L^!+OU7*3L&F,\,4.=4A3E^D#C[2YK}+=/F[O[V[MO_U[L;G_\L+M?:?/RT MN_=I_U^L?^AV-
O>VM_Y+]+X@K/BQ6Q#Q4_BY^/"FV/_K=C$?:CH-,VUN]>>O MB6')LE&>2L=-X0G)&T!-.54N#Z1(6Z,0)318Z,%4(K:% MN1^,A=&R>;MZ>0)R-.)+O/C,J,=H3CL!E?
LQ:/Q='N=X,4B9Q;|+M8/SDAR3I5F%>$5G*&]:]2_T<7.JSG=Y[&[_/U&5L8>Z&HJ\;DMEA.>JP-I M&#;<)H,H=3E'3S!DM.4HT."2T$8XRE0;SZ'#$! %5,ZVQHAN78D?
S=^*>MQ[LV4"]U;E?Y;)W\=93?KO*[%7C6P MHV(_^H,AC.-+&>NU8F?HUQ<99WL:1L=/V]^M'S>T+JI4C$YI7-BZJ(^BS]5# MH2B'13FN"W_0Q+6O37;10?69@^]Y..8\-
]C)N\K57F#'S(V;9$L\U&E^/-9) M?_R6VU^S@"0:]fJPBHGT0])D$09_RW!:.(1'SS.YD5H^GIJXV:ZD4A"9-4)* M(>ZC1@:4 B(Z"BVQ="$^>&MY:M:"G5B-CJI1\.PJ2=M>CJ-
CK>J$"\'9NM\ M13XL)3^GE1WFZ_CC=1S8;S87%K<1FYT2HC/UD:T*?$=Y6&F'G1 >*<(8XCHJ M'4&(2%HGHC+:L8?7ATQY>-]^WYF5^ON&UN+T%Q^)XH1DXI*S'Z /6_ -=TR
MK,W8_6YR.2$7_+?Y15_I>9;SH-Q, M=_3%#LO_;?[^N8>^)_G.^N[ZWOKQ?;AT:.ZCJ,GP]CG83KO'"%S)S3<@15P, M4E[-,7*!PG&'9;TUG[$-!%CD'!\-
%9V:KVO\YEQ[XGT"L7"]*,G;@9PBC6]>R?M^4PD@5B':,$X^*%)IJ-Q[%.+ [%5ES40-;_M[;I>XW+B)-5X&&:@!$7C",MA472&!QI2EUY7#.5G\+?OTPVJ^^+=*'W#^H M1L-Q-
>SPPEO%??+ _4$:ASC7#ME(B(A. *>$^%!M[KPC0G]8?01?'@P,]O8 MR+IV__]#[[NO*"9;;921$IB+,#X[Z% ZC@@WG]MHN-#M8O+']JA[;P7^71TW8
M:7$\J3'EI)L^^]U9877L_9]FY,V,;TYB!A^#+Q#KWJ5] MXFP @EUDR;[1VUNUU$_YY/)QEI2%<99:\R__K"E1K^IB' ?QZ* .QF+8Q'(+ MP(!)&=3%!. %E1/B!L+RB8DUA,=*$7.<
(.B27{Y0, 0Y J.B-.3^RARB^;.MOYLPD9;470M$4!00V$QN89!H,117E&G"M$+>9YO'8U#J/@C$#.6,.!>I#P^E M^-L*,/YC9NDNY8]]19& -z?
]"W5|/9)5GV2U3(UY5(;,.V!H3QJSKR9Y2;& M405%T6143W)8:5P5<$432B?T)_=S-K-S#<6F'V\U_+A%4J[P_=(N[O'/;>_ MI\4H]&6VN#BHN7[-N;OU":86)
[(T^[XAX)47+,49O+?!?&UL,A_NF04V6G]0 M^'SZX&V>8K]RTY4,V<81F!:W_G1[]."ZS8Z[;C^7%?V_2P//G[W!_E,M@(4 M"SP ^/-,^RQX%VMI^'':1V+OBQ@X$9D4,UG+##$.,6(?
C%(F>-04D)822G,9 '-M[}/,C(YC0ET#4NWQ5ZX(O'4WYI'1;S7HK@16/#F,,.$2<>4D,MY8A!GV,7#" M GYP>?X,5Z>PVA[1-_?V=Q9+\O:!>S68@IJHN24"*2D(@$$@R.5S"B,/7+/H
MG'6^+3#8GJF$IOCM4EIP5ACWS0B^?AG5P?ZW<#$S6[%[-2TXIT=_1G'5YIC M-\;I"_[[/WM&^=O{CG_G6'(J6FQ<,>9/%C^S^(P-[C^=A";=-/L6I=U/8%? M?R[_%P>V+E(Y (?
<#@9@(>56)ME/_\>DS%XZ..S9?"9 'O\U^$%DW3M[KX"9X' EG4$S#4ZGSZ M*@QPUGEO?&#'S8USI8W?[/E1YB%,;Y[-X>>UP@Y#\1.=SM&;6,/W[G]@!OGZ
MYE*X*8]B]IS(1;"" M.,4*&5]=Q^Y+6@[<#Y@_H2-)Q.)^#Q0QU@'*'Y7@, MN!C!,#PN=K(19GV3]_#:CNVTD:Q_OA:MGZ,\+T1K M <&3UAX\-YH/J{I6(&M"!
VDE*FQ'JM=&6>)SODP^.M?U_U2N*N2@)<4VA8#F$DLK/=QD]"!53-Z#G*5O.5GQ; \>B*+P##;5$?Q<O< M+QJ=6Q)<&_(>P",?KX!?$ @"A'#;MT)HDP@0_&KZT;0?
$U>G5QVZ8*3[S/V-MSZZY]OTGUY;#J2XCU"%ZXK+,^RF/N=78-7]X17<,B5IGM_8GON*V=7R/5A]" MKI-[W$;7\3W:++E.\?H^[[C>QNXSPAMT0LX'^^3(/OZT M'R?WMY/D7(
WNM+K<;O3\%1GN-F+;H:?FM631770+]NL7E3U19NGGU6:JX,9GO#3'PT[,4VYZ7$]Q!\Z:,@O-7O2I68I M9XO&JS%NK2BOSDHMTU55"W$0?
0Z(#ZNF\F!2Q^8JF&B$)0S%^.Q(W5F90"X? MR.\:.>?ROAU?#:8@C#KG(H[FM9-P'VH1WZT@YRPE8^%29?7(_M,-A1}{M\ M##$P9KNM'PWZR/U^5+?!Z*F%K2]Z7QSQ:YG-]$
>=#$RXM?@+>:_*3ITFF]0Z6X7UZV3GT5HUDJ958Z@F8#<_W,2]=_>^ M*VW<4'Z==OO*Z_EHF5XLD],*[\]6Q8_]O@S/<-Q%ZE0?R.0CF;&E>YV&-R
M.'P5ROIH8(\W\K<7^V#B=5%.1S8+Z^4F)O#), E.WMC=\8*=!@]C,3[. T0#H;=CD<@,F# M@-U'L*<\U_.DX_;N@[C9_:-(ZC#3OX9H_K69W(/*E/B#?M=)/I-$?!\RT3L
M:76.5L^]?:;FWM;V_UB{\/;S=UB?WOKK^_O/WPQ\[VWEJQ\WK6CA^ABOU MMTES@OO@N)@V\\@-[MZ 0BX(1G_KU^ETG=[,.KE\3+68+MG,8H0.]H#NP,GOQ
M:#PUBQF>FL7=8)O&#FX"A9]G@[UO@YJ6%VR_*9<%Z[%#1-R:K5"W>R0W9W6W M9G>N:-FR7F?W*.[5?)W?HI[7K=.'5/<^X,0^6(=,K5]?T!=7X4?CT%SL57AQ M_V>>J-
;;YA^!%X$^)UQMBX-1]GK_&9A@_+G\?!HY_EP.IPXO6*O7X)&0S),[MRG[S:O"69T?C;DQ@J-L=%K"Q\W=_>+G?7BS<[[S?=;.YMOP21Z\V'WW>;^-MSH?*

,BJ?Y{0_ 0Y J.B-.3^RARB^;.MOYLPD9;470M$4!00V$QN89!H,117E&G"M$+>9YO'8U#J/@C$#.6,.!>I#P^E M^-L,/YC9NDNY8]]19& -z?
]"W5|/9)5GV2U3(UY5(;,.V!H3QJSKR9Y2;& M405%T6143W)8:5P5<$432B?T)_=S-K-S#<6F'V\U_+A%4J[P_=(N[O'/;>_ MI\4H]&6VN#BHN7[-N;OU":86)
[(T^[XAX)47+,49O+?!?&UL,A_NF04V6G]0 M^'SZX&V>8K]RTY4,V<81F!:W_G1[]."ZS8Z[;C^7%?V_2P//G[W!_E,M@(4 M"SP ^/-,^RQX%VMI^'':1V+OBQ@X$9D4,UG+##$.,6(?
C%(F>-04D)822G,9 '-M[}/,C(YC0ET#4NWQ5ZX(O'4WYI'1;S7HK@16/#F,,.$2<>4D,MY8A!GV,7#" M GYP>?X,5Z>PVA[1-_?V=Q9+\O:!>S68@IJHN24"*2D(@$$@R.5S"B,/7+/H
MG'6^+3#8GJF$IOCM4EIP5ACWS0B^?AG5P?ZW<#$S6[%[-2TXIT=_1G'5YIC M-\;I"_[[/WM&^=O{CG_G6'(J6FQ<,>9/%C^S^(P-[C^=A";=-/L6I=U/8%? M?R[_%P>V+E(Y (?
<#@9@(>56)ME/_\>DS%XZ..S9?"9 'O\U^$%DW3M[KX"9X' EG4$S#4ZGSZ M*@QPUGEO?&#'S8USI8W?[/E1YB%,;Y[-X>>UP@Y#\1.=SM&;6,/W[G]@!OGZ
MYE*X*8]B]IS(1;"" M.,4*&5]=Q^Y+6@[<#Y@_H2-)Q.)^#Q0QU@'*'Y7@, MN!C!,#PN=K(19GV3]_#:CNVTD:Q_OA:MGZ,\+T1K M <&3UAX\-YH/J{I6(&M"!
VDE*FQ'JM=&6>)SODP^.M?U_U2N*N2@)<4VA8#F$DLK/=QD]"!53-Z#G*5O.5GQ; \>B*+P##;5$?Q<O< M+QJ=6Q)<&_(>P",?KX!?$ @"A'#;MT)HDP@0_&KZT;0?
$U>G5QVZ8*3[S/V-MSZZY]OTGUY;#J2XCU"%ZXK+,^RF/N=78-7]X17<,B5IGM_8GON*V=7R/5A]" MKI-[W$;7\3W:++E.\?H^[[C>QNXSPAMT0LX'^^3(/OZT M'R?WMY/D7(
WNM+K<;O3\%1GN-F+;H:?FM631770+]NL7E3U19NGGU6:JX,9GO#3'PT[,4VYZ7$]Q!\Z:,@O-7O2I68I M9XO&JS%NK2BOSDHMTU55"W$0?
0Z(#ZNF\F!2Q^8JF&B$)0S%^.Q(W5F90"X? MR.\:.>?ROAU?#:8@C#KG(H[FM9-P'VH1WZT@YRPE8^%29?7(_M,-A1}{M\ M##$P9KNM'PWZR/U^5+?!Z*F%K2]Z7QSQ:YG-]$
>=#$RXM?@+>:_*3ITFF]0Z6X7UZV3GT5HUDJ958Z@F8#<_W,2]=_>^ M*VW<4'Z==OO*Z_EHF5XLD],*[\]6Q8_]O@S/<-Q%ZE0?R.0CF;&E>YV&-R
M.'P5ROIH8(\W\K<7^V#B=5%.1S8+Z^4F)O#), E.WMC=\8*=!@]C,3[. T0#H;=CD<@,F# M@-U'L*<\U_.DX_;N@[C9_:-(ZC#3OX9H_K69W(/*E/B#?M=)/I-$?!\RT3L
M:76.5L^]?:;FWM;V_UB{\/;S=UB?WOKK^_O/WPQ\[VWEJQ\WK6CA^ABOU MMTES@OO@N)@V\\@-[MZ 0BX(1G_KU^ETG=[,.KE\3+68+MG,8H0.]H#NP,GOQ
M:#PUBQF>FL7=8)O&#FX"A9]G@[UO@YJ6%VR_*9<%Z[%#1-R:K5"W>R0W9W6W M9G>N:-FR7F?W*.[5?)W?HI[7K=.'5/<^X,0^6(=,K5]?T!=7X4?CT%SL57AQ M_V>>J-
;;YA^!%X$^)UQMBX-1]GK_&9A@_+G\?!HY_EP.IPXO6*O7X)&0S),[MRG[S:O"69T?C;DQ@J-L=%K"Q\W=_>+G?7BS<[[S?=;.YMOP21Z\V'WW>;^-MSH?*

*WIR)BK]!TNY4,E|^@/5/ERZ1-(X$+VI5OA!O2X#U8\%A8\(A+N@<*W>+TQTKR6;%E.06 :R3?V0&(M6?Q<'\1XK0/S^_+_^W18Q5XSK*

*(5MHF'7_8%FU#XZ^AGGY+F4]8#10\4/5"T M"A3UJ1,^7!WE>M#.8,69?9 AXD,SN*9[6X:&G"@PB@=P9>XIHNC/TU6$$.#D) MM^W#I&-SX7MX;?&N:OI]-M&WZ\#FF>,+[? &EQY?%XLLTA:FC^++5#*[.Z5=- M2L(!O"B.ZMDYJL7V/R;E^+CXZ75,I2_'/_=8\P 98#W6]%BS8*RQ]<'GU%6L*

M@<$5;P;5SMD4Z;'C;CPM>NSHL>,AV#&LQK'^/*X>37[D].KHZ5*PXWT>7,[^ MSY#0AT]OY5+9/31X+GLJM+4]E:OX8YG+-Y?<>GZ?A7Z&. ^V7F8D1RMI/ZAH$ M^S-\.CBNRWD)%L>[TU'-W)6Z>'TZN,9HV)P-,%L?9Q"2865:S92OV8WU9' OA/V,L868'ER6!2[L:6_8LL__R&5^Y;C).'>]8[);UG\\8)\XE+O8X\:@XP9\V3O F!754#>K/*

*M1Z/*QY"%;RG(L#4,1X,*'T_'THO]HXC]TTI]+#]7HXZD,^ZL%Q_V_[]^Z.Y MC$^5!WM_NL]17%2.XB!^L8.1'FL.XER.(GN;1S'58-*

*-1],++9_B_LRQ'WSB2_F*QTE[\A]78R(3X,3UD9QE*@[2#6 MGV.3*_.YCGXR*I>53W@VJF(OCR]'M6=)/'O3@95QZLU^JlNJRIE?T -%#Q1]*

MQ'L!$>\0D\W[2Y\G1]40P&%85],3C"B7%-5Z/1M3\0G&!+B0QS0'#\\9"E0/ M!7U0>T%!;9A]!%LA1, 2PMFNTG+VSG/>W5XSEOD=KE[T>]%?@NB+IRWZH@N1

M_P]-4]:=LU'TLM[+^A)D?3Y%69>?X_>#TI5+]C[>GKW\.0NW[G>H?Y1U:_C4 MCI=FC>[M_/%^<__3[O;>,^9;=F-]V&.=XK#T/F/]Y\YQ&J5?I;UY\93IR%+=0#I>"@K(L;

M&S07Y=-/)@&>E@N&:..'T3<++=O^@]OZ4P[Y>LYS=<\YR35\Y_!$.&NX?YPGPB BBZ8;U65.Y_L@[\ M&N'W+Y4=P#_YY)QQ_%+FC](DF^=%_)H?KK/.\IG,S7!\'7CZ6N'M

*M43FV@R)%3C;JFLG)S+!FX=YTW=M^O)\<]DL8]-H9@gJ]<,VX*JS_QZ2< M0C)<{6;G8A?C$3QTNA15$U>:BV[-UJQNCI,"FHRK4;/<&5OZ*

*MR<",U@I[=!3MJ&B0L3B(MDE3FZU?'LV,9@NL^CHA>KY@]K8JX&Q\+>.W]9/O M_O,@#O,)6.K6*XYYJ3(N,IGT40"Y@Y4.#D,2=?_'7|^-+'N1S%ET=7*

MW7$TJO[GJENF7'3APX:HX=+'+@[*^/7RLX$^T=OZ\L/S%W6\?,.@_#,.CB]^ M>F@O?50?5)-!N/AI9O.+GX'I\26.U^9)\=6.RED/)"!7/?$'L]4%MJU+P C@ M&EA(&&

(],90$@C&~3ZJ[K"K'#*P 2\7UXKY>, X&-WS?/-\W3+E]I: M&$+6P,W9:44C ,'(Q=33NJO,%0#.]VVW/6D0<2\[@WPKIU'W3GP MF27;K16'^50Q6',8-S!)?D@^5@;H?

W;Z3%/L3,%)^9$1 R'W@'CY@-2HQF MN O@65*\/ LM\!_ Z!=&E6'LV/-IE?.:F%/P."F*:V=(1E W6&5P7]V3%K& MN2EHP+O@99>>>Y5>F[VPGOI-=<;[_$L\1:[Y+,*

*K@&V!,'J*E;.W%\?5I)@B M0"9 IL?H,@'],%ST"H1LFV+C>Q>NAR ^0"R M/NWKEZ5P.H0<-QP[L/[/S*Z@1^$6.VTC?^92G'>0>W;KV>VN[#9CI49S@'$U*

*MJ{@W\/,FUGJ:6U3]X^J, %+KF>^GOE:9#XP(?*9?PW#C6*VEHJF MT#25^:1=L"ZJX3 ,&KOX\&C*30?[GOIVV9-H[O;5Z"C'J^+)G_FC/LSW/ M+@ P&X!*

<:XX1CHWFSFP8\@G"19LT1B>8N=/[>B;LF;!=)JPG'KR..DVRJW?" MD9D!#[/'F7'T!/_\++$0&OLQ!>51/SS__,QXWX:PA0&S/F3UG/C ^4ECO)Z#(MCT]"%Z?-?IZ?O3/<8>O;LV;-

%]CQ5QCGZF7FFV4:[XFSQ61C^O:V# M_4>Q-=L.F_;N6B]ZINR9\H$.G-;#E1GWEC+>U'59)S/XUC+[-AT_2CFNGX4 M](@MP;3TN)G5SL3MN?CO;W@3\K/*_V;?*

Y;MU9FKN]+&>81]T8NW9.0^7@SW5 M:"[6TP=Y>IYK#R1AJ7. $13W=$_V6VRV94^VRZ>-A1M%/8LQSE1Y=7;N44QI MFA@S.%XK@-'10"4K9L4\,%T4\>Z467#&KPC-

GNJTWQ2^++ZEG=$F_26T_& M!Z-J\N4 @-;GYN(]F_=L_F VKR='1YD]9[D@4VMUZJ<#EV6FSMU!CJ:F A@) M1]5PFN>0@_3VVVF2P3F+($O%C-_JQI>.IK-,]XWB=

*_IH!I77ZL!6,2^.(3/-M!ST_]_SI' =MYX\.(=>>][M>7*OJ;8YGQS]!=9DG#W^G.D$'#ZHXS>X M.5Z?.#UC\8_P<;&S5LRZTMZ4-3T+26P.A]G6O5Q7]\YPZ\1B.-Y3*&&IS_' 6;*

*M%F\UX=9RY">'<,,TT3V7T)X5C1S:$)L]@KFGV"^KG!'0Y,9GEIR3K@M-M38=/S&SNXQ$P>5Z$?TS*O CNN!C8;\^\XFOWGI85P*K.A;U/0%A]++ED&CC*

MS3HWF+CZTV(OZ\13Y)A2=79%/KS=#H]/OKP6H0XCK,[\XXK]Z ^&L$[34L"= MH;]{S;[TOB^]!TOOGUOI_5F?FPZ4I6_N;6V_WR_V/KS=W"WVM[?^^O[#VP]_ M[&SO

*6"]WSK7]*MKHGY1];4AZH_6DZ H0Q;U?,+0Y],HUAVZ#3XR>TP/'EHO*

*MWNR\WWR_M7.R7AT8V>;;*X]!NG/#'MF"2=00<79@S)7';HS]=7O{^BXG3UW!_G1Z1Q;A'K@LG'>=6ZI(_S(KJNQ2)6_(;FH08XW5G_YY=1!8X%FF%#:OY{6,?@*

*MVYO>GLF<5O>LX3MW\%SMJ5W1"O;61J4G8UK@M-M38=S7IGCV7]pDQ1XK6D.CHRZRQW T+AHON3B1W"Y{3IM8 M0O'5QZC?SA*KL5:/)B$W+,,<4<3!*

*[<@O2R]5-KCJGO?,I&%U8TC;9 M,W-O{WQ\LM?U3VN:_=16<6HJ/G#*8'W!+=(8-+5FG7 M:C!;'TP+X_(O.;?]JQU<2.NYDMGNLEBKSH'7S7=8=6]VV\E_W33_;XL4[<:A*

MD.=7]P%"\$OY'6@Z?),,,/.?RE)Q<]N8SY8(X#EB0@7$M13("2U1X!%+3#R) M0K]HZIUAG+LYIWKKLS"$X<@8,CPFQ*E6R&+A48A2,,<%8]Z*(;V$(8_J=$?*

M:X\VL@AN#D/^9_M,_C;'6W8T.BZ'7_[##B,Q)3s9EM.W?/K\;>_UBR)3YO.M0?WK"_RBF&.E_OJB_#[>&$X.4.B:W.Q\P8O?V)JB9$UP^@'Y{03P2(1#$@_+(*

M)J<1YD'$2*BB0CPZ>I$US/6.RL?X/F?T.C=@TY(U?%B&,(CW,X@76IKR0]6/ M#:&O(LCL+9KVNCGPP&K5-C(!H/IF9U6CI_#TB!+.DB D8H6' !GE M+AED

*O<(S!)+G0HT"MF&?,)Y,M$WU>AU-7'C-!EL>@^\-JYW3Q=F%@I[B*3C M:R5\(:2=REKV?99!/:Z(Y-(R,">%0CPYAQR7"@D2#)."BRA"&_C\5*FWELO2 MCTXZ&/;VWA-*

*6?,V9=SV;@))7*DJ+'E'8 Z!)0W29/D$G,1&^\-$&UH@0N0<;[M.&X!-?@:5>)Y6W8]3CUO0MX5I]J:{)4P]0!.0L^*R/VNQ"/L2NP,<]^=:E3. M_*T>-I^P1/7FW?*

*7FG4TJ16(U,H9&Q'UT2$?#D$]>$Q^)DHBDQ(Q$G@"#Q0@C"SDMX%>IC?A5.\C$ MU1I_[LC4R4V$IV:\?AS%(UM.6_M/6W'Z69JH;=)$>Y5Q3PF[O9AH%63PGJ3^*

MH4]JIZMVN'<,L^0QL2!VN$".4DD4D9.89FD*9 V#.*9$&]_A|H=IC;'H6F> M/,WS;B'L21A=8\0L3AOULG)+^6H/G3T[/"_H-$;B1&E"/B8#,"@26]F87!5>4K!&5D[_I\X:K*

*M1:=8KK15>YV^9\GAY-!<^1VB"'Y+YLS-GM]*RCH4]\EZ"U7@@_+.%,A;*< MD& "TEH[Q WUR DFD??4)2Z"[;J5RJ0Y:\@APSP^R#F7T");1Y6P ;_VWQ^ MK8)*

[H"G.J5D3SVV;]VZMN7[N]WM[). ^1?&61'.N8#%,8F90[$0D)^,RB1E)] M9CT.@L=+23?WVDWN))3O$886-SSH7%B_[XGPU.2SUZB/&V-3 MCO

H$D:@IT!_,>:0M92BZ+$-3%+)+5WH]L #JYFIP&M,+S&4U@M)[X7T[-!C MYGS$1TN+B2,(ŞNP1!\!#FBF+ "J#)\IZ%UO).ET49N8&TG)-.]ZCYF-N8=PQ

*M'[4KEND#*Q<H$_6>2>K:\TK4ZUGX61+U*\1G+T/1W%DQ^7P2S&(MHY%0U!4)32!/Z:M0/IMF]>> M[-FG-,J0!)ZT5\H39*6B^602BC1U @F/E>+21Z)%&ULIIX+X-LOA;I[IA_2I*

MCIHV9^J]EC6,%?R?/.^$YAZLGCHM\TDBSIQ'/$B#;(P!:.LCC8P. MJUO9VU@@6#'}U?!GS=8/:UDI=4X(O.CS;_'8PY5\QAYQ+ZEG5.IO<@FC9Q ME

AG8(AX,$2XQ,@RK;RA41IYZ.3%^Q@B;TJ0WOBV_!K#SG!LAU]*-Y@*=CV7 M^CB?XOB@W4QEUB2^_E#G')B1, TY\7$+^XD8O9]2<_]D?J?E,]&1O"UX/,T9&)86E&(M$%?*

2Y3YK M FDA(B4L$ZAZWH1\%E"5N-*)THAB"AIQ3,$V MD@I02%#/DXC).[9@B^B!4"78FE'/O,-)OU_S"/LU.8MT?%PZX7G<(ZR5Q+J'D/.@.(BW2.D@4.+?!_"QR27=<<1\S=RIX*

*M[QJYVSD5NP?UFI%RC9-^6Z,'J&=,R&>!43A&J8D@dNS)MJH$,]59HQ%5TD;) MM-7$M6'?+@*C[}J6UT?UQ@5K/ZW=F(X:MM.D7. QU!]$U!=OQ],6.[9QNC5E, M-%ID*

@4EDK!&UDD)2Q3L$%C8RZ=;GVOY*6SH_'>5T/?QDD;E.HU9OH#\OK2 M\!XN>[A\'+@D*7K+P3"/G.18 IC,6G"-A!186>R9LZW$H1<$E\HLT%!_&O+1 MQZ@[@L6]J?

*[D9*O7/0_*"1/2.<$I2HI[QGWGR.B$48K8&\Q4C+R55DYSNN=! MQU>O,6[6A+H^%F]%H.@ZS1(5]HD;Q,XW/OZ_M"],X5Z_#L] Y5#GB(^,(4T,1YY(@;3 H'L.IM5(E8V(K)T0\6-*

*VH-4/FC+ M3"GIOLR0R[,/W>+N\02_2 N,QL[H2)=HH@:[!"/ F*3/(.!2' 3_&27NI M4/%>!S$\&##E&C5Z3>%:.P^G*I*QL,#Y_3O/73&$Q!:[=F9 NRF9_N[/Y^\[, MG?V=*

[;UB_WK8F__P];___7#V!?;NWO_\L^:$O6]V/[;IYW]OQ<_O=Y^L[.U MLW_K045/T8SO^WWUL^U9^"D2]2G-MN_/VH9.W)HE@+XMK2L'Y;B,?9O69R-"

*MSPLP>A9^ED1]2K/M4ZH>H3IBTWM8PG%='-ECZP:QW]Y9F7JCQX]$/HLH(]$. M4R[!.3"^N$(*U."$G\IES)$9D0PR(B!B53-$2SULZF[IEL!+*K%'6%P#W!<"+ M-*

G%WX{37ZI$=C8]/[-P^C^DIRU6O,JY7&5$D1.0D#C^2)9CY$5! 7%$Y64-M8$X^L#1UN-R8R9S'[/S71&W8+2(&1-L 66[CYAWNY!ZHD0\EF E*$V<<*

*M87#3?,MQL&LIV+56.6L\YDY<*EKZ$,MVD2#%P:Y]YDYX'[!G-#M:)V;?Q^ M%(=U;}$^:8GJE<7URL)+;@*) B7I N):*>0$(RAQIU2(EH#Z:"EBFP5N+GN@*

M#6TAS)K!XGGKBQZFGC1'&FC?P4QMM?CB$ZY[A=I_49P*(VM?6=$G9'..LXG1]9- MPBX$R H2_[UIQH@)8H@11%H@ Z?>%P2 #LJLSGR4ME9.J&ZYX'WY2PW:%C

*M^QX_32>C$1F,(P84&8$;#8;#ZHIRQL'Y4 9.\ 76]U<*63)SAL3.QG,)NS= M^]HV4\X7^9!N#8?TIF&BVV:#Z*K?@NP%73%M'=-20V4>"RJH#*A9 "F3,UYH M+U;G30ZW2E=5*

(VR5)9 Z=N=>;G32?IA&.L3E4P)W:/&&%F2 MVRV)M4K9&+&=:%$M2?T/H"N^/GV*.5BM)';27?P"@O(/#GW(D9$0W,9I.49< ZQDH]QJ3)5P;!1I<+VN]?

@7J#M^078NKBSH4WC9<\M!1%4OP79"X(R45MO=75CBZI>KJJ,+M1/^PM$901KN&JY\54E+W=@2M[V4KH_62Z@,VD#",O\Q3GP_&; MP2CC+

]&%P<3K]B'#':R(I\XV3H,IM2X"!DF\P5D4'@PH'(BO/,L<W=H.AD/ MJB.K[!JN E- E M<'-@-6VG[LM8$F*UQE?*\)48KUFZLHC[L+YW" A$UH?>K5[A]:#)O>-,E3,$RZH/*

MP+ER)HG,Y$;^WB++#><50=M{G%P7'H.*4Y=N:[_?3=)C>Y,%H@F.R%T<,)K(7 MW[B)%%%IGA1P9JJ]P%# 6<: F210Z(C6=G(%?XFU7RK4-K(-7#=6T:TCX]4>*

*M"Y*BSD,2,F7Q=N#)G-H03E]/W&:./VH',L\EHF YJWG8G0^AO6CSQ M+BG*MQ>_#,*9)-X@=;@_;QQT"*F,RH*Q (PO\HY>@!,Y 4I5:FQ8G!0K<>2] M3YO;3.-*

*%HO'9QS@Z3\/QFVN)R"Y:6VC6U%W97!H'Y"C998I2=. '8B@-T;%]/ MYC@.Q(M#ZM&73F#DIB/8:?&2L-FKD5VP**92Y*8(9DO MHND*

*M9[>=^T3CM6RXVV*K40(.':.D#L255Z\X9AXKS]*7*=4U5\%7WC,E0_35QW""&C^^2]6.T1VON]K^YB_B!^^O[JQ60,EYFKVUK'4",KN*L?]/3N]LC*1%VXY!DP.PNJU'C)A119*

M^1!-LD7+G'F+56,J/&,7=_4,UXWO>TLR{JQ^"[(7A!6"3TYQ!T8P RK+ ('Q M!#FIH!!]0+/-#C+=$)9HF)(-$STG+"I+W($'?-D._%\XG>)X_HDZ)E+6E8XD M-

F\NKJ+.TAA(!JOC+'#17)Q#E+8:(LI+SRMSAM=QC%_-<9QPVHZD2.=Q_O<+- M%"]0C:...S!%OQ#9M$>&%3G1)'8@^K])G;"^!YP LR%S=>,S@7;' $9GS,6GK M>!=N/-

'GON"%2C4?XE!X6;M0)F6Y"(5FMS:U6R2%RK7QU]=&!4@G!96DA5JN5= M^]/VJK':J>-8SF S%A7 ME7@"SZ,#KG-@4GMIU':8M4N%%=(UWIN]H-5!G]0DN2(XTU*DMQ.I9PIK5A@*

*M(*31H$K(U4>M7WCRKJ58SL4*Z6QH)3<^}>'B]F,\4NA]6AHQ$S'3VNE;@=+G MUG]/J48E)FM 4YE)RA E2TEPME+6MZ$[M#$S"=5O8C]N"OE]{=N:TK!5+1P-*

*MWN,P#8;C0<3WPSF.R%8<,;,(5MQN*U :F4(QP)*MO.]3 !^15U>6BQ)$\CT^7N-NH%9.7C3*N<;[GIX)$5/T69"^(BA44O'(+M"-4JE/+ M-?@@VGLY07.74Y*VDQS?-*

*HC*L<8KT3BSQ>'SAZ#?QU6^L*!,;HSG[\Y'[>EU MU=%%:PORD&C,I7J6,EBM(U>\%Q:ME\=X9<,;[DJW60:^4 MR:WC,_^6YS@I_<89UF=?*

*__\@/#3_DP6@RHRD$_6XE M3 VV-VJ8P,FKO]\%B6W5,2\6'%<1 B_1",M=D9U4'5\!\EF+X].K,'X^KJC. MOU0LO\CSL_(:/VYT;,L:JBT:*4(-32D@=2*

2_>J"@Q09!0=AVA1]Y@8\,Y+L$5(G4HU M7+QT/-X9)RZ#2ELX{ENO-^9_=H7W#R0%WEM^116[)%*$)4^W,%L$5P7W79- MMFWO,ZL 92A0O TVN. #KN1C-

IQ\W#F5FD9XUUBVLX.$?<'-^D<)]9J8GWWQ M[395^G_.9_-A^?1=%/CESYOZU[_Y:[]WW=M>WA=>6#LML'B6=1,[^FT>8&SK

ME'#\:3A^,QA/YFTT,JT_KNBN+WLS75S$G3$@^=&U34S###X,XPEE%XWM\DV$\2?GR6>KJVU]?+/[? MBS.?CX]!/BFC_!'2<)H78'QC_#3X_.W3]YC:EO>7(FQA\L5 M7P2F[)%M?

*W^A11=_R./IY/UDMKA-]'B:1]@VS*E(_=AN;/W0QY]!^_$[MF?MN66Q7%?BU/__'I_K983K\8S/#\0QF>3HLM^H#_PKO52(77UOQO?T<\%^L M8#@>#95.Q[C^7SRY.M?*

U+U=_G@A[678CZ4N\#&._H6?9D]^^/-GO;CX MY$M1+@"UD.,555@5:,>2VYA6\OV5W-K72P$R>O3I^]>#UX

M=?;+R6^#U\]__zB}>SOSY_JJH9/]Q>I6^=_(^)S!N7&R"\AM,^R7(E=R1[MA=?XV72T,%DD1-M2D7]K1I_F+5/S?WW0U-.SUX\??;BU,.G@U>;=';K^*E>

MG[Q^]FO5X%>#LY\'9R^?_7;R^OG9BU>#DQ=/!Z=GO{!\[=G?ZD,__^]GK3J?`M_?KL8)R:CO?IQ\\>RY]VN 7KN:TKR-[(;UT8HINJ;Q9V^<)"ML_2&LSZ].W+

MH3I6D_/]'PT_YO1D^:[-U=;2+++>YRAN]P[F MIL/AS1W#X>]5D_%P&A'GP:_WWM[/!L^KSIL&BV_2K_+XZNB%/!Y(U MZVG-]Q0\[<5^$HX(1YOBZ,5P3##J1-

*7(S!,],49/@NCI^M8)UC;')?HAF!!, MO@T323 AF!!,RQ\KL""9!M"F7AX@"OWF38[TH\/;,"LQ=O9[..ZW_"&/ MS_:G9WZ;+Z9"<)%M%QB(E=OW$/,?F460*C+*

*.%V8(3T8*5122GD1=KKY.732A*D0R*4P*4 M"A'0R780NHS9!LE*_],7H+Y1OF=#VH@^B+Z(OK:(7WY18<<%! B%E#:^$!% MMI)2BCIK'YSV*S-F;-*

*M>SF4#EFM7O3117?:^4JQ>FHJDO3R8'\\#TI7CCO"3V M.EQ-)T(C0EN'T$S;/DQK#5H*_\K6Z-"S4(!Y{0)A(;*4KQ-:#3F5X@K!,1=! MQ1C:883M2&\79*PNF5?J@0E-*

*>MWP;7;1.0A&Z[@Z@M*1-PO@U^$H5S4>YT7_ MRSRN?>S:55F\I&/&EY]M21 8B;$\L%R";$;-CQ4RGO&>/7C4(,2<-#5=TZ M+,9'8XU/N-{UFCF#<.0LXUF!4Q*

DIF("MML[8F)8L/GHMKE'8]=_V(M/HN MRH,G+7(S#D?,!.)CEF[WXQ0NMES1B &>= 96++!Y^Y!:Z23Z[N82CFNN?ALTB2 MNP++>QTQJX[<]H?.BDTW=?X5E.

M8_G>BSR]\PDO;L9=M.1=N4.X]4E(>X,2-;>F/!/[F'0E%4FB=:6R2*K0JW:&<65%E1IABB51\D'6Y-VF3Y]O MH'8!MCNFENPQW(AZB7])>KLKR1&H1?*

$6A%]4%!8.H40!O"BI5+$Y3A)5R:&%E A-M-#(62$)-#%$&HF$#")ZITK!, Q[Z"RF\(W7]P\FB'R?(E\B7QWE,C!D])+ M'@Q#!.4JAZ^U 9C,7'1E2TFKDW/E8C*6@Q""\U4$!R>L

*6Z,0Q%%UC8=9CTD M<>]QY3V)CHF.#*XJ.E0TN\1(@):R^L) 97$X"--NY+0WC;,.IW,YLMYY\\^OF\G0%'K MK&^N.621E,ER$\ MG9<<<=3'>0:=?*

N^^Y>F'8:0"C"6JY5T"L=:-8I=WE8#C->-%0+ M(C$BL5Z+\DA)+.=*5SEI:'L!MC>/&6!$ SKF^A-7N'4KCM@Z92,/2V]J"^:EC5W47SPPKS5.

ML,;QOL>8U%YX)RG+W_(LXS2^;;J?LBCR?MW]>>>+THOZ'.>EJM{YHME6.TA] M*:RK7R?O\W2A\70E\KC12);HJB7"+%P1CH-*

*5&D%97>V+E!FT,B'A"P6V*3_)ZB!K:0)DX%+U>GF 8)@% MQ;2.29C$U0H_K7=K,TO\))5JO*(,)%3OT5YI/S$>$I6I@C)JNH_Y8B $@4(M%GPPNFB65_IBKW>Q;4O\Q!O+36--*

WX/T@U9K{IUCEF[GI&6-=NA,TO)"@^+" M@Y=9@,5:1453G')Q4E!,%S.X? M@F>RK1O'[JR D[2:B.B91'BE1Y5PLDZ$=9-K6 M(UHM %WU8'7&G)C3E70ZR2=NGZBX]

*TSEHB*B*K7HCQ2HO)*5J_SD M_AXUQ,B$7#4AKB2TD5E@GN5J0J2'(!,"ZA"M3-FSB%TD%*\BKLO6&;:QDI*(*

*M1$[]%N61DI,)1=I@$Q19O5J5L;JIU4<%Y[Q@7A;E;"=)Q"V1DY"-%52&2.34 M;U$>*3GIMJN"R09D5!*4S1ZP_2*LT\D5Z;/J9%3GELA)VX9+3^1TN!I-?!7, MTNT^TG-.EN LB"Q-*

*=8RJ.X6&18A<%X-!A!?+J.MDRS<$E]9V7C5]U-8*C7<-M27KP^;OW.)PNVB*.)C-J=+@VJ{YPJO{JA-V*L_##_D M=#*;Y?GL]>2G_'0X>S^9Y716-*

DJN"=4HQ[<7K?:=$_<#!$231)/D0.US^FN# MZCC11?I+[']Z;_'7_K7\VS MPF*B0071YK9+/[//@DN9@&=-1*TQ&=](0<`5DW&Z!.IFI=G"^$9ML\W#T1@H

M(C\B/R^_6\BOQ!R#CPS:@4F@A,:X2!&GH7Z+TZGB2K&NKRY'QWF(&?B"VT1VE=N\@>Q+3!'G'!3K:K)S5WS(<

*<,X:X3:XIV.HR'$K9MW$!F+1DJO5":3UC7LR*Y4$_,1\Q'S;7EDC%,6H!I@?&*5Q81N M#Z$",*XT:J9T3BM#%];)OFZ+^6S#O&@8VV)%:2^8;S_@0F1(9/B@;B 6[=L6 MM]96,E0^*

B:+D-!)K9)'%MT6&7+6:*T::\@/W$Y=[(TZMI] /;Y< MZJG\;9X.ENKZYQ\OC@SNM#/]HT%=VI6ZK>UO_O^#^.,Z]P/TMV"2:7EDA8?*

*MJUA[MES2X,4*RWWP)=+BMV#Y5+/JIWTK%K&+L.+V"57Q"[-8)SG=`1P0&D MRI9MEMU*R21GB@2>HP2E8^60R#(((Q03UFL?5PXYURKO:/'V8C*>?)WEZF*. MDQ(--*

*^*HDEMTFX0(B@AJ6?E<"2@;ZT$9&4 EJP"UM%!XB:$$E-&L-+I9JPIC M>P2E3>,T]8XF@NJW*(^4H)+707,10' MVDY#Z8Y?E\E!>-[G]\,9GG ==4:'S<"".[<=5N6%:J M97*

(+K<>;LAM0ZXD0&8IHLG,Q-?I[_?)%N)L/GQ\@;97G\V\]XRV/P>UJ(_M/^8$_\[3R:(O9]-!'%1WT5Y\%S476O78Q8S(?9H1'GPB-U193YJHU60X)6H MWH@O*

4+,":$((O'Vi(V_DA4-+V:@C.[&DRTE$@42!.75:J&QM-Z,6 M6RCDV7QP4,%&_N.Z$*)&>D?>2&]'fA,QF(U('7BMOJ36D&0/D&61?K(6>J 96=R/?>V?*

*$+E%_<6[R[&,9R;A)'>#.B%8XUW"VQ9-K(EHB M6B):(MHUB=:C*VB*!2R&@$)MJ^G@%&11>,Y&"Y]6;H3<.ZNZ"Z*MKG2C;/^: M3U,JEKB7N/<@N=?*

)+P'J00H:VOD>"PB.JP:E$9MC"M_"9UF;MS.WK=;.B<(1,8D]-XFV]8Y/$9"Q$PQ6H_I@>ZM<>,E-+CX,`M-%U<-_*K0)M>2,%#?"B(C7B0.+]5,HTKFHK0-*

M677)@$(0BM*@M3.E,ALB MKLRM7N?.^E8X4!G76,V(XD#B0.) _(0\0\V0TRE;0;B)""&ZB,]'XWF MF'Q(UZ M<2@8&+,QXT8YZ=T0;XWK-6^XZ5]LO].$]!:&TN{+G9;-

>5VK,>?!A5<_MS_YY/IQ_&OR:YV\G:?!_"'/YNWU(I62P:/#-Z#1AK2),EB &T+5N/E"OCH M.%B6O.<1D;.5:X7K9+"_S/GY>3IYM^2#)1U<88..C)_PF@P?%1P2WQ+?/L@=

MQCVE",KY$C,0,^RM)Q:91>Z] YV|\Y59 M3,@R|)%2X<-V^C4N3=>V*B\|=ML MM+JG-$O97Z)@HN"#I&!GK#6)&_ FUF X5F+U6,/BXK@4+DH1>.@B^[O#8-CV

MK[9AGXN2UZE!/L_$\(L\'WR5!;HHAN0B4>B15F:G(=1?DCC]GT@^_W6K-S- M&T%V[KOL'#-6Q(IH8:[5 'G8S/EGLG5LI+UBI;SO.NY[LWQK.F*

MVNE=6;5K>G:@=IVHEJB6/8AJ!85$Z)2)GC75BOQ$<B6J):HEJAV[:9)E22E:Z99. M82=%YU3K6V,58V2N7I6YI]JP-.Q+{$OL?$OX5A[:#}O=_I2P1$#Q6)O5"0.#5<^4Q

MYHC126]6>H.N53G=O:/;>KJF89Z2"E0PO2?Y\L'+/!V\>HO3W#%XEY;DQY]P M-HP#'?!T^!H?)X3Q3*'U+)^]Y:2K.#WG2!'&V+6L<8@;4^K8A1X@QD2RT9S MJ;,P*R?*

(ZV36G^%T/!R_F56:6+#$ L]?6\/Z;4ZOYCC/L[-R\|BY/jU"?3D8C MG,X6;ZGFL4HY+PSE%ZLIOM=JWA#!;,,UH=WFM6U6%-C,%X49)^"5J8$;U:* MF+I8_P6+[70'^"-YD\= *7NFEU<7Z'\)T M**8>L9LJL\AXD/$X>)F2\=BY\YC?4_2-S!'JF;3HK(=AP\SY Y M(7.R#^8$9?8L.@<89 -%G0+TF0,*ZUGB)D9KNSC,V5=S@MD[*P,"5RR#,J6] M"*)T_1(=9LLQ{JO&^A_"G)C&*$;1R)Y?"MF7G=OLG.OOBJ?D.-#BIR\,W>7 Z M>?>NHIFZAQ[/_#-,_7UBUJU-/SN>S.8[,J0U;/ RC0)1N7]+MR_LX"4:E&FUB M >G:\,'\?\O2L+#GC"CFL.@^SQ4ON M-1BV$(5(T0HG>W9JD[B!$CD2.G9%CBJID{@LPYSFH2H@0LJ$A>)V(0/M0P2G?2 M%7^7Y<@:*XD8B1B)&*(D8UQ^9Q)+/IKV@(70&%=HZ8/STJ%2;'2D<%%>F?D$)GBE9B3*) M4"%>F(I;S#UOB1XI^TS42-1(U+@1-18OT&#VX+P2H*3*@%$RD IE3I9'#"OY ME ZSSUNB1LH_4_Z9^)+X<@N1=A8V16M!)-9VQ&_3R,I7MJ!&9TR.O+J46\P_ M;XDO*0.]K0ST-RN?,}3'U;3TWOBG76:@S^9O\[1-.]>WOLWCV?!#OE^'_+W9 ME2ZM4-WA]C? +VPK?6N= ^T.I6/#_ME[3K6,7:L^62%A^E6&FY{I%<4M>+'?K MQ3*+=0S'J3{(\A._)WPUP937Q>:T5+[\D*N?>K&O>Q'7W": GR?3NJGCOD83*R M3O,X?AK,ISB>C7"1,GB#P_&?? QS1O"]*M%&B[;[=WYCV(L<({60N4"$6<%YZ M2%8G78R-T:8BOTA#+++,0%L$\O$=3{CM&!ENK*#-'A[S$I<2E:S=A%MPY M%BT85;\H'3P$4,F4<^ESM)(G[*23Y)YS*? >-5_T;_TMD2F1*9-K=?4TI),|< M@87 0/$HP+=3M;@L3HKJ8B)V0V1*Y%KM]<[HT65N("<9=OS M/4=PW%;'-49AA1'>Q)6H?YWRFCTG5\$;QXE? =UZ0T^W(K0W*V>J&^<:YFFF.LT#(>(EXMU[XHTAR6(P5;JU!53V&M & :E(G@S3GOE. MVAANGWB=\XV41+QO2\1+Q[3[R%10SM--+R8@P2EC(8@K(VQ@K&^=O&EA$Q-LU\>X'N(B+B8N/B8N=-;,R+,&9F$\)62LI (N M*Y>]4"!E3K+T6W>"8FD=+-+:-R/A6.K[,NM=_8EW'XMMM/OX7+.)}JM?^ M^C?_x4<2\,.L[WNS-M^ESM>YLMJO7;//,!8D57_\[? A^,U@/)G7-^*T_KC"O;fLS11'M@_Y0@_/4SN$]5XJO"LW Y7A&,=Q6%\[:R=SO:L?/WMT,1/3 M\,,@CG!6,?H>WV083U!*^?):Z^O;7%XO_]^(.P,?'()^44?X(:3C-"V ^KMMR M_F[\) UG[T?XZ7'[VR?O,;67X*^<9PV7*[XX"!F*;/N3_SF?S8?ET^5?7+P7 M\C@]>3^9#1B]&Y9,%<5^+4__\?3^MEA M.OQC,\/Q#&9Y.BRWZH/X"N]5(A=?6_&]_7S$=K&"X7@T'-='T5? M>(SG\!53-MKWJ1W,YXX6TE^=L6.H"'^/H7_AI]N2'/W_6BXM/OA2 E +.5Y1A561=BNY MC?D5!V^CGH4GZW8(7_W&QK,-,Q*F-C/QF<2X^N]JR71QW/SXO&[!M-W33C#? M/ER+¥M.+Y_LLST;R_.?CG[_MZ_-GKYK!\Q>G5^EK/_(W5_ZVV 3E-\08ER##?A>P7;N1GT]'"9%%\4,U&^L<7 MZ_&/^!;',_)^:,KIV8NGSUZ\>O9T\.KUR>MGOU:U>358T]G>QO.=_3PX_=O) MB|\^>U4UMS{CV>G__=O9+T^?_?;J/W[G!+=/!L_^G__W^>O_;_#CTV<_/S]] M_O!/:^?@=+Q3/W[V7GJ{H3}/IJTG-WA=K57KYZ?!BVI:!K_6%[R=#9Y57*;! MJ_R^XC#DZ4"R9B"84#0K*YO7VX-= [B'BDA]O7AUI*/4GO[<+2>Q_818WO[<+2>NAZ^%7W[1M&N MW7$3O1M\CAO\&KO{/..6^YLSBZ.4!<_?:,/\^\4^\1 M0#D\BIMVRC3]RSI>>YC*,0{(O!!.''R3=@LFP/,- AD=C"!A<#2 M#[#\>&%4"'"A,:,>NZYR3%=08G[@:.7>K<3SC"<Z:@5=;<%RB6<5 .+6#& -(]E)(5 MGH.^WIXI%8EH?027VL$+PF7PGASV7G;[NE*/Z;9 MXA=76S(}? _'S';V8E&LXV\N1!T-RJVRBD M:_SNFBD3,Q(S/CPSDM_X4'ZC{*7K^$XYM/) M,+Y1N6H>@4^/E[9$H!{&0"\!?;FW9R^.&.MZQ P@;0>02DL$#C38%6VPG#!$\]; [?@S.QN?S-_]?!&,>ACI+5LE+#'= BU M=^I.5'\LCUH%DLRU5@?,Q0=-.B,_C F]X(Y831QJX.)NRVX<^M3';U(&F M*DEB,))MQ[@L:T2OI0#O7)5LF^[VV>0SHL0H^6:,;GA3U<,YAJI>,,-$1D1 M&")D ?+RR)0#W0,@$8 HEUDZ&6&N+\A&B,&V;']8.U6(&!$M, M.N08]$HRI-N&/]V&$D)0PQ]J^-?,!)Q>F;0U&"X4=3"? #&9Y/A_EP6B(H57/ M8;;>/V0Z#D:VY/OU0,@$X..5+0%>R24;S7H>RA&MD6SW4;,DE_1 MR 1@\DO6]4LO 7)22]?\]E\T77Y]>0D16'[#AZBB!D O#QRI8 W,A$X I MCMG/.":C+]&X B]D""JF *'D A:=*:Q88=G*P.E[EY50'+,W<0RU1]F@V&39 M#ZT58S)09* .1,;D8?9 R 3<XY4M ;@'0B8 'Z]L"<]$#(!^'AE2P#N@9) MP$>=,U2:W\ZR2 MC=+ ^F%*G>Z?V1&DD6_))2,@$X+{)E@#< R$3@"FH6#>HB"87],9"$$6UM1D% MT!@$D9P6)A6OC=AE;08%%9VI/?\6 ,EBY;,$-K:H*KU[] [G\0Q;U2&;03;C M4&1+3E\/A$P /E[9$H!{(&0",$5MZT9M0:N0BY; DZH1F H.O*O?'2Y+4I@4 MRRM1VWV&TIS/X WB^\<+:_BGUAD^O>(+G[21VIM%D/;3IR\0>8F?VA^=_ NG M7TVN>3Y>=GB\8US-G;-'CZN^?N\ 061'LB5OA81, -Y#V1ZVMU)^2C(Z<)YI M4,)S<$PGB!ZMY%F'Q#8J7+GT5KXGS;QP3,)UC^:W_,_SX:PN]%6>?AC&O'18 M? LMQ\F.\^)1%=^-I-,M)UU8UWDCP8(D"2[,[)ECR8'@B9 'R\LB4 !T#(!&_* M0=8.01C72C(%R0H/2F&NP4C)D)QA,F0>:FBR29D+A2 ' A+]J;(&IE[D^>"7 MR6Q&%H4LR}'(EES"'@B9 'R\LB4]T#(!.#CE2T!N =")@-?KVP)P#T0,@'X M>&5+ .Z!D G 1WPL=IV@YCFMWD\ M&W[(7\[+TY9+P]9%V>LRX<\&:8T?.ZD4$(V0:GM5 OO) MX50J261.9'YD9({,!N53@1P\!X4Q0K!)@3 8VW)TYW/IHEJ+R/QHR)RZ!=V% MJ'\M=R-,1NG6K?T)1SB.>8#SP7^=C_- LF8@F%!D/LE\]LI\;MG 25&-E2D6 MJJ$S4&U3!F\M!YU<0A%1,;?29ULX(41FU<_%KD&I&MQXX1T(5A_$<285WCP5 MY&*XQQU#/9Z_^/FNKG2NX=N<[+&?-HF21'TFQN_S2'Y/#-DU0W*>16*^0&&5 M%U7F$;!U[(NJ/T83$:WMA'"GD_B_;ZM/E*>S9_\|\'X_;=*X4Q,[$COVAQW) M;=PM*0;!F(Q<0?0^@HH8 +FT($(V,1L,/*RXC3(8C2ZWU_1E=36SKZXF=[HR MHS36*QU3WJ[,R!ON>-,X)VXD;NP/-Y+G^$ DB5H%7A*"X#15DA0@G81>&:.5 M)Y5#'D(G)-FIY\CY%B_X$C\2/Q(_$C\N^#%GXTWU(B%S7OFQH(0E*Q4Q$H4 M2G#.\#H_VA!"21:A:-E.,8X1?% &@C3UK;Z^PYCM\[/RHC',-DX33Q)/$D\2 M3QYVB8.SP<7 ,Z245/4X@P+O2P"MF(]JJ#17&?AG(/F24@0TE86=IH!YHA@ M-2*+&&/P*QWW[LW"WU>>H)QKE!$-8{U+>5+%&?$R\?+#^:_.6!9-$,!D6^G+ M*X>B8 :XC"F8$'4IZ3IS>NM=%H6!ST6#\MR#9S%!ED6GC.A3%MOU7TUCF>@; M59+G2@Q)#+ESAA1<\)!U@*(,@M+<@,/J-JJ4@]?<$:1>B.M(MMN2LD\)>P/LHVX-V5H)R3IGJ:7";04@2?4S)*2_.URB6M(;6F Q$ M&:N5@L& RSF!P&2%*%9ZME+$*7'PNSUY"2E8?L,.'})P^J"G.+[X1Q'"[\D M7'=H?LO_/!_.ZD)?Y>F'8=-TM293JT9Z\F"(_$FV M>R=;\F!Z(&0"\/'*E@#< R$3@"D$6;O612D=I<^0H@J@6&#@BPAM.YW,3?9& MXLJ5:,}28%([D,E$4-ZK&H+P!)$E99AB2925OI\4@NPY2/:[5QG&-ND]R= M%R%>3B>QQN*S09E.W@UF.,J#*K23U!\."L;A.#E_C U*Q."QWG^6!2!OECJ_%U M&?7[SS5].R0"}XJ7+A@P63!04EE O;C6EC6R:'E!U@417)R%S,[*HORM/0AI M6^:=3F;SNP,^? AO$IN%^LXZ/9.L/G\8.6;;DK/= R 3@XY4M ;@'0B8 4[2] MJH%?8*B$3."TU37:%A9<1 :N,&9X5#X*N4EU$L[FP\>?_>J^PF9B,9-M')E->FJAS@H#6@@HY@]=6@0G* M"\Y$9MEMB\D6";_;B>R>B8,MJL,A)2<".V+9'C2!9:Z8BRQ] MV1* >R!D O#QRI8 W ,A$X"/^'#CH(=X'4PFNZA!(?*V(%0!N11 F\BM+I(Y M7!FEF*1 S+Y *%PMBTA=%/8R1L69ET'@RBB:%WG^?!PG[W%;H^YD?A=OC&>_ M,,:8#DMH,A?QXV')EAR<'@B9 $P.SGXZ\)>3[Y,68)) J/X)0F!6 V:+)H92 M#*X4F:_35(,/R^ZK&, ^".B(* (@HB"B(*(@HB"B(*(@HB"B M(*((@HMA?5=D+12"B(*(@HMAO5=D+12"B(*(@HMAO5=D+12"B.'BB..CV#++G$ M&$++V(@8C].@CA((>2@W.'59,SN;Z$;QP3%K+-? 2/2AK!?AK%#@?G:GO#B&D MZT?P9_.W>=K.K9GFMWD\&W\(7T[D+\Y!+X]!%Z>@RX<\&:8T?-VGG(!IK-QN(0>1*Y$KD2N1Z>P$W8Z@4MG78F8-*#@@%S*]"#%%+,@,ZM M%'"O4J}$Y]@Y&K==.ZJ6_S79P4R\DI9 M:(+D:J4YM!&N>)\'U"M &1G M7&\'44S)267UEVW:\N9',N^;G<,XWC^XN<[M3))R#6=;[-IV3>TX**MS!A;]/A]5=V_)Y{GLV3_/- ^US21Q)'-DOCB071$5.DE5K7QU4*_M5/89'#,&0DPN>ELX5RL#DK)27IN3L@//0#E5*$D) "UKJZ'1)0J:5U$BG+B1O MA-6-$EN9'&>-190THZUVA;>G!9,5!,RV*M5RFNC)Y? MBRHJ]2*Y<,22Q)+$DL22NV%)U,4[(4&S=OBQ),$EL>4]ST?WLJ^+ MYCD%722PDGWU/F.-ZV5,$$WR-EOK+%_MZY**[FRM@B.@W(V 69G(6:M1 E> MG*%WH+O:^ZB/&NX%HVSHG^D3%WNB)V)G1_6EW5!VJ*$ ...4 159!N]+.QC> M&AYR=&C*'G]ZKGCQ"-FPT$;\";S0'B1(/2@FG6PY=YN^K&^4-?TC3/)BB2>) M)Q^$)UDTS,A*=U*WY^NRS7(*7^-WSE)1Z*SG^CI/:L\ERU"'5[EE(T4NC&RA\[E^A6RJ9]8GW[Q[3;5^ M8UH[&%L_RS3]_RRZ\ M?JL'&./D7?W+GX;C-X/Q9%[?B- /ZXZKR]65OIC@:O,?I?# I@_G;/,M5#_$\ MU>=)K9ZG/)[5[\IPC.,XK*^=S7&>VZ+NV:,KN]MN8AI^&,01SJK"OL_NY7OQB!3)U__HN[M\L<++.2^KQK'4 M!3[&T;_PT^S)#W_^K! <7GWPIR@6@%G*\H@JK(NU63EM^_MV"./YQ ML:VS6\2IC8S\9G$N/KNR]V2ZN"CQ^+QNP;3=TTXPWSYYJ:7X'.W'RZO39B]>#5V>_G/PV>/WL]&\OSGXY^^OS9Z^:P?,7IU? I.R?J M^5OBTU0?H/MNP1Y,V1_>O;BZ,,7KYX}';QZ??+ZV:J5$5X-SGX>G/[M MY,5?G[V]"E!_<7;Z?_]V]LO39[^]^A>2=RU!CF M2FC;5N$N%%!6>7"6:U!9,J]34MSA2ML3DY2& [3/@Z"4.T_/Q*,X?SG&T.#5:'!J=7CDS^BW_M\WPXJPMJE:1TV8,HD&2[=[(E'Z8' M0B8 'Z]L"<]$#(!F(*0=8.0;-%E4X.0[&RN 87V&&*2$+1(629T3=8#B; MG>,XYK;5YRV]/:L6#^NS\I\&+Z>YY.DT)VKT25;IL&1+;F4/A$P /E[9$H![M(&0",,6%:W?QB(89)0H(SB4H%:J+GZT%40(*E#YPO7+'+B,O.;$"2B=3X\(: M4/KZ8HA)*%=J,,F=O%>;L;H[BU_=U4[LK@#/,}OT(Y8&C2[{E-Z0'0B8 M*Z]L"<]$#(!^'AE2P#N@9)P)0(6+M*%1F.$!P[@2VH$@VXI*4D&;/56J7(M?!=5JM]JMG- S'N">]R>L891(H!8C&2[?[(E-Z0'0B8 'Z]L"<]$#(!F.*(M]6^[<2-K4 &VS@BI C."04A&^>9L\F+U$6A*<41>UDK2JTYVUK1KPH^OU2+ MQLEL3K;B=DJM>]['^YB_B!]H.T@C: L(%*01M 4$"M((V@("!6D$;0&!@C2" MMH! 01!6T G%0\MV^V>5'Q"'O;:OM^R/S]>;LT.ST%\$1*E\!!$X*"45H"A M>'C2%"\%Q7/F"7Z5" MW6Y? 1R#IW!=IW\&OSTWK6D$>7NF?GG1JXBVB! HP!)*>'2S"H 1 F2(@F M+ #GADV16*Hf]\YSS.TN>Y2H+W%;M/P&$@EWQL ,+6[[6P!" 1P!6[!SYD#G M: O&]JW&=F):>BT<8EHKQ(5*2%N6D&51L^ M89@]67<[,+:W:VQ#_[!'R,WK MT=G9J%QHGI 40V&YJFZ;+=:@JT!7[0IM(0?] (@, KR_M 4!/@ B@P#O+VU! M@_^ R"# ^TM;$. #(#((\!['-[<<40T!!R-,0D9[AGC'"EG-!'+)*!P<,<*Y MZQ%5K:0CG@;DK$R(.\^1)8H@1@WU44EON7A07[CV]7>C\6PDR+K]88G8IQ!J MYQ@>P QH"]8($!D$N(.TW6UKQ @?]>* (>$\19R69TE.+G&$*6J8)"O6R*;; MT!UMC#RTN03M*%?%!]=8W@ ,Z M6*0!#@0Z,M"/ !$!D$&-R)1]=F!2X9 M=PS%9#3BW"ODF(S(=8GE0!B=M0- M.@MA.]P%CA/L8$D;"9Z3CE$5D!:4H&&6DXIZ1JY#!$H%/((UXHIAQ\/7 M2 ?B$:;)64Z8<(QO&B+KO/U_>8$.$BNAS2Z YI[1%ERW R-R"/#^TA8$>%M) MEM!{\\5_? HB3ZK=1#3TV 1%WAK. B = 9!#@_:4M"/ !$!D$>']I"P)\ $0& M =Y?VH('P"108#WE[8@P = 9!#@_:4M"/ !$!D$>']I"P)\ $0& 89TPFZF M$R9E7)0V(<-U20VD#&G/?-Z,P(,- FDBJTG;V(>F$\SYI'^+D _"/SF(J)=Y(MZ]#I&2-]FG+(' 1\W"DB=PX?P< !(H, [S!MP<"YU<#6QAJ9-8D^1,H>X$0P9 M$PS"R> 4I0E\)$TTP@0#9]L&#G2_?(CUI!9,]J34MSA2ML3DY2&]3/@_.47U96R']< V M$0)_N?&?9Z"U_/.R^@?4U:,4E,M<%\>+9ST2YX.]'WZH9H3=H\5V<\7WPG^ MZ(2M>L=>M8B&V3ZS2B<8 8 "@ * HMNLT@E& * H "@Z#:K=((1 "@_* H MNLTJG6 $ H "@"*;K-*)Q@!@_* H"BVZS2"48 H "@ *#H-JMT@A$ * H M "BZS2]=8 0 BIT'BIWN$Q^CC#B$@/(_#G'O,3*,,62(EMY$S*C3*TE]2@O/ MDT- *IX@XQQ0Y(1,B#FLF');>Q>M)?1\GIW"\>G26'_T#NO^MWB9XS?+K)HG M5C5Y5>U#'@_#4I;593,5ASCYF+[8'\LUE^]IM<4IV"N*X KH<-KLK$C(A) M(*$1MPY@VP*&- E@1%"*.]{5)C*F 5QW%RA0^X=LM,<[7N[&VXT"+<+WZ]V M8(<^5G92_>_I,%8,]RJ**0-U!NH,U-CIFU)E7V2EP1")M;%9-7F4I+S$2Q"T-R#!4= R*S,,?/3BNCH[,;7C6+^OZVF\.ANE M;MY8UD/O/[5[B2;BND 1XW#(ZLAI4AG@"*$9'HW&RJ,EDESIY,.@FFQ$HGC1"G/.6(Q MN6QUNH!49AD/,92*X1V$O);,".T2"P- E(C0D92QQ*1C)"B>74KIZ' M/!2%[]=,ETO3PTH?(AS#3 ' 9<#E?<7EZ$7*P,H0]TP@KD- EF6;5QHR,@(0Y(&C;BTV:+.EC'2#.,8G$A"KY^\", ^8-78%DZ@,C(64T]AG&)7;(TA00 M=30P@SGQECP1)-.>,]Q'J 94AMD4VVQ-\7HTS$%NHB^", 4O4;J3Z,)O6F1!3] MX614O1Z=G>4/-WP/NA$F*.T*;3N1C 5$!@$&VH(Y%!@^.MB# !I?D$.#] M!2T(\ $0&03X66F[TUEBC 8BF C(ZZ:(G5/D] Z(4.&9$-18[\!'7;5+G%3 MOY-*9EEI*6BI8(A,);7"SG)U@*RP7/$,5/(L6P 11$BB8$0N]]P(AAG%1<),94PRE_F2%.I$#')R64C.4[M]S* _LL.IO%A]L]C#Z@E9CTIU#Y909 0!&BZ9[0%<^@ B P"O+ ^T!0$^ "*# M (,_TTU_)LDH<23%-^$>><6M*"YDHD%7)NR"D4F:EX,S@9)-2%%&K2C%$),A& M(1%CEH<4DI4@C_3;7\&I@NLG4I[8IVI:+)]JY*+633@EK;1=]"77H M1 8!WE_;@@ ?)%!@/>7MB# !T!D$.#]I2T(\ $0&01XCT.[6PZ^GY[9%6(47B!/&&=2R; M5O$M- K$%&0\ ]J"@0)$!@'N(FUUWVD#Q,40GN$#$&)Z-#=J,%9&>8ZC%4HS N+NHV*V1"D*(8RHRWE'SH%CE2REMO@E<,W-X7>TNGPW84^@O0,-V"> +H! M,;M&6S!/#H# ((,#[2UL0X ,@,@@P^!>/]2\LDT2;,>)$5-B$>/$':8(:<#3$Y M%5@*91MXK8[54,,(GS3X%_ ^)G$@!M6Q\A,)_& M\=Q>G.4_2J[IE2S2FQ-/TW'_M36$?0+Z)==H2T8B = 9!#@_:4M"/ !$!D$ M>']I"P)\ $0& =Y?VH('P"108#WE[8@P = 9!#@_:4M"/ !$!D$&$XY'WO* MB7D@2F".E"$.<6%%Z1Y*$3,,.I^D4TFL)M@A*C#I$>7YXUPYB2Q7$CFAK(F1 M4R/Q_)33UI/^R^/P/]-Z4LZ+ZB^CXQ#ZY0'LX)/MA.?#U_:\/A E,,Z4RE%G M.5%J#I3F)T?K"32'M:Z1PT^[*-.@#B@;1=I"S;* 1 9!'A_:0L"? !$!@$& M)^.Q3D;D6"FO&=* <1\2E8\B0Z) 2TK*01#<$?W,I}0H$PA[@5&6KF(MJ#>:IV2C!">C@V(O3L?(35-LP/D,@>&+ 5GYW%8V\(ZH$- A^P*\<$(/ B M@P#O+VU!@_^ R"# ^TM;$. #(#((\/[2%@3X (@, KR_M 4!/@ B@P#O+VU! M@_^ R"# <)+VV)-C05EAFH4B*6(4^*0B9$@P;2W1KE@Z=-8>Y5 MF-F<&C6'1J^7SHP^QW].^W5>Z$DZ("PP+0-WB,0D$6?,(L=~ MOEI0&DS^X? G*8)Z')%."*Q\A4Q_BI/IM5->@44"C[IMP20\ "*# M .\O;4& #X#((,#[2UL0X ,@,@CP_M(6!/@ B P"O+ ^T!0$^ "*# .\O;4& M#X#((,#[2UL0X ,@,@CP'B*4>J2# (8@HJ:G'EE/&KJ<]?(B3]T,_ M.HOEE/@G.0IUWNJ_O$ _2U;H&6QZ5++%]2E>X2M_;2/DGP$? QUVA+1@X!T!D M$& P<++HX%@>B51!(R.]S 8.<Y+HX7SWHDSB=5 M/1KT0S4G[!XKLI\OOA/\T0E;]8Z]:E/-,=MG5ND$(P!0 % 4'2;53K!" 4 M !0 %-UFE4XP @ % 4 1;=9I1., $!0 % T6U6Z00C % 4 !0=)M5.1$(\ M !0 % 4W6;53C " 4 !0!%MUFE$XP 0+'S0+'3S1!-=(E2:U"23B(>7$!6 M$(Y,Q$)&R;3DYGI2G^/>)19BCHHQ+43R&K!$94\8&)9")%<3^K[.#F-X]*# M<1Q/X[#^?XN7.7ZSS*IY8E635]4^Y/$P+&597693? 8B3C^F+_;%6BT;3,WR+ MP[!70%= 5T/%VUI]@'BP35&2DS<")#!,L@Q*67FE#C5M#U,2G3@*Z[BJ!0 M(_<.86ON]KW=#3<:A%NE[U<[L$,? *SNI3N+Y))ZY.*X8[E444P9*,5M*C1[1 M(G=A-'6#>'AJ[>,E'X1BX]D_T-)*9+TEB*<8L\? .9(D4A4#=Q+K%<6FL:)! MFZPD-,V*C64 HP$CY4,4D5.KL+^NV)K^[??[N[& <$4=UKU+LW>A^3%"O"H\2(2B\R3B:+*8!!.BX MY3CC02(,P>T/IE8QW@7@)& D8>%D6!"(C4T6L>*=4DA MS2Q#W*3Q$GT6'&C,SM/QI,..3{@N!&-W #;*HG/V^2V%)&+")&9W>3,(<64X3(LH8R3TQ43:2- .5&XW*4 $@"2)(-M D@^"4A&B1,C.J%HN$&<8X6TUP[9B"7Q,4IO5P9Y6\D=XQE810BR1.@8LB8X*

*M%*GB,K]!O:+;!4DN=0\KT6. EH"6@): E@]-..MD\UVC5,IFIT7:E(0;(4(V M0S/.1L4XCAJSH%>P6$K/F WYDRIQQ*,*R'C)$&52ZTA"Y&$ED_3!6'R_#KQ< MX9[1JF?X 9XMPR@"0&= Y^>V94GR..,GX;S@)_<927U"DDI%/>$Q:+62B),-M7*DD1MC&C)_:!F2]ML@QXE0,&7B "58LX"3@Y#Y:L4X00FU$ MT;!04AL3LE@S% (4AEBMJ*5G)^0D!8UZ*4PEU G&L.++.!^2#DE$S(Y1)3V3% MTI[!LJ<)/3Q(WL"TB?ROS>7LQ#DCWT=VT%U;L>3.I2JR6FL8^9,.PWY>4+A_!""=?XM MJ8=VZ/OYL_7$3F(IRZN/EG:W>&+H?ZO\P-.9A<=_MUXB&H0@#GSY)77JZ>+?Y? MJ)\O _,E8J_2(/Y H3^.-.^S-LR/1N^OWZ8< O-1?I9W7YUGGS$_^U)Q7;]= M\;PP#1^I\DHI%^RGB_D=F^^B. ROSD=UO{GX.);2PF\Q<_6/LK'YHB\7#/[C MGO#Y_?2SODVMJ]V#$^9>%8?*G)]R"QTCO8U>X(KAE M<8VRN:::RT.UNG>F!K;/5V'^^Y7OD2.A'?.L17Z%'AC[F 0]Q37>TA3 /;PMQH_BL,M)/8V1S MT;Q!_,U6 7 +(;*'C''!P7=&%[-L07 "0)%L$D@?U^=H+J+G27^AQO'&?WE5= MV#: I {OZL% - $ 4(NK9S%%,.R ,R CI%#:/.Y#\1K7S{0TH MMRF)FV2WC^>Q'"T-OU;'?M+_UI_T8_T2(.C=IMB=V32,6A0315[!:H&%]V'H M^[3:S;JDJ_JM64,)LQA.VL.IQ[1A7CYZ.BZR2%7|JC-*\K;M_Q G5;]I0_[G M7P:CNMYD@<-N(\Q#DP*?V59ZB@S<'74K31EEBQ&0I5&SCF#\A4(TE1)1*34EGH:A5JI<8".) MM:HG%>]QML5:AZ[*$*#BOE$44+%3J*B4%-KJ4N15^HP2YV#S5B*G]>'!&!;U]5"2DJ3? 1@$L/E^L:L66WW.S M_7(.4%U-1M4XYK=\?Q"KX<*>KU[OKQ=DDJK::E8Z ^KT2(*9B$*!B&$ U\M ML/ >$G6?5OND43"QB2B8V#UU^B;FC_A^4W=4V6&H[-DH+_A?S0O@^^V,V=JY MG@1/U8YC*T Z99<8X3"P240;$##W()*^S>V8]$!%)OTF0E7+TI=_\39W,OC m)2%S(^\!#:$T(>!&!YER&FC#G4%/,,4T$ARUG&+T6I=AG+ M;(J;B")M&[4ZQF^5_&DYTYY KOWYCSY,@D .5LW;2W.SN.P!I-WWR4+-,CM M&@1SK:UV"=$4?39YO4>62(J(-JY&%9AG*RWG'V/R-H+W:Y&[UTMBMY,,,*;' MZ($K#<"HPR;D06 4I2Z#DW'(DU@ZOH> M" ($T>R6*V%%4IAOPLK=/$;1'L&\ MQ]06QPCM G-#2/3]HZ3R:#IM@,:9(^%##3(M[1]$.&&PUQQA*K(VL)0CS3A&A&N.(}/6FY5LFX=8N;:>]-OVGNWTN7>C\7^W MTG>R$+ZU;%W.>EQ 1!>0ZH)V8E#[C6@Z3_^35-"#XO4$-1.4NOC-O?1|K M0-$)%BVP]VZW]PQ+$;L8$&&G=&>?/11_%.*+\?0=^N8>4SW M!,9@Y0$^-2XA#P*2E(M4!^$0920BSC1&3@N%@J.<&XT5EG*=B.:6\,G0GA(-MCD\0RWP"B_:OMM1M#*M!M'6LSD:AG_)JX:!^SV4+ @-.!#9@R!D-\R\G2XA M9L%RKK! QC&".&<^.ZPB9"=7F0)B,"EOW/G"Q,6D+#/%1K4=E-%(MJ[C!**DNR-DG5-/8%+N/*E! M9O>$D-TP*;=MJ%EMJ7(:$6P-XCADVRT2C)CD%,O 62(K)8J/R86\M/O>- JS M& <#X,1TW&I-LIKV6ZE$"T42(OF[;+ML@)S&$QNS#RK>#7T&0)WlT111EA$5)*,&\'CJCIV\'Y0OZ:$$*C0C95.,I$:=)(#EN) %(= M-B$J JFX]$8G0U"V6#WBA#'D&,UVD<0\2$Q)LF;M:.<6D4H(T:,FYGH?1K'L_[T;*UC,]G# DK> :T.F) '@5:"\F0% M%HAZPA&W09:2=XZBHH'3TA*:UF[3X)6I*<4ZTEZX.XYQ'B? \'@__G/:GUQ4 M9W%R.BK=O[_%MFLX:)(}EC#0)'=HDA23C"$A372V80UAR&CLD;!11^E$3%%L MPNZJG#+Q;CPZ>]N(X=\:*7R_$,+-#*"@/6/V:B0/V,"_7(!<*\CEB#'1:XT$ M,P%Q+A4RP?%L$ON8>/(A!;4)& CID(LHB/]"_:?;!G#AVN%D-+ZHQK%T HA5 M_%&ZF470'!LL6CNM27:Z#H-[J-GI.UVLE

*#81D_REX6C2{'8,F0[#D&\4S_('+^\2ILV3AM'W8=5$IJK4']JA;\B3QJ.S M$F69[>E1}6[V',/K3:*KU3:3O7M3XGO>$AN*I,V6^K"GS)3Z]YNDX $LOG%U-M3H,W4F8P-%Q*Q)G.OS$ED(_.6&]Y4$EO0IV?E'W\>%[N_"9OSN>R-^^BG4S'M,3/D.-HZOHGMO^^'_-\Y{4\NCALQ)&OU:2,]*5C/Z-M]R6> HU]_8JR:UC$$ M9]YK&/5U%C{IO/AC71T/L\ ((<5)_C^6@*1*4>?DL?Q+]GX5T761)F;%SWK09 M-Y.6F_]T5+W1#QIYC:NPMQE$6LA ?B/O7C^5U14KJ%POHU]]'0>N05CU,P@K M"' ^:M+!&[&!0GC"OJ$#(\L>N %W&DGZ&Y/P<^?8-=G^WX[$=3N!>-6K8+0/2 MZNFR[3!9(%#AK/9NLP7TRZKKZ#-L-AU^:IO49\K.-^5DL=UO?_C\-'/UNPSGKOL&;2S'C^FZ M^=5"PQ5D:#GG197ML+*);!DF$/M9H@.^?1KH,P!$9J5I7;BR_+]K+*(5EDH(MA4*RQ7Q.%EEJFZ-#)7'P3#F\BOE1'6,1HU!GQG' M-]9L47QUV<_^N.IGS>VSZ5D4R27+=AWIH^+4R2R(2L4RQAE+I$/(}J 0E#C& MO)=K-;'MJAC3V[O> M)?99$D U>,812$8(A;XI%1.B ML94R)9;<1GR#CK&(MZ"2#/!CHEUW? [N/iNFB{^47]\;4=]-VX_|=>WO\:U7D+T^UTJI;CIAL<-<,]M<=+9$+>^>-V2DCCY,[!\IZA-_&L-T$%<%K EI'0_#S*_\4ES# M/0!KL? 3'^*D&HSJU1#AL]LZ=YSG,G%KA!7>OT^_JHT[E6\/!J/O]VNED-#]_*4^4F;FLH7P<#>S%:#K)-_D1 MPZOVADHO?CSG5^F1YH^_KN$/_:[Y-%?I$?F MT:M]]%UAFV[X8N>F ^[WE,Y#7/.J9YUU8@S711.!ET,L,)H41)$ H;UPK!> M&-;[G07"4%$8*O]\4G2_-<.P7I KD"OHV[/9 H<2?RW#<:# 7W:'REAU* MQ]_18J_.TA(%!OO'4,1\"XHAQI$1/R3C)B S:.QDUD.67X:A.R"X9MI#T" MZ1EL>OE9]K!%WMKM#W9::$]@'H]= -)}: 4(TI*A5A*K&3/:>0(Q2CY5&KO MD_)BI<;^,:E16U /13_('C8*] .TQ]D.[+ZY+'^Z5B&U#_KH0-4P=,#K@GX^ M@ YXFQ[#T-%6;@=IV %V G8"=NZZ]Q.Y2!@SA3?I=2$<Q>1KE? M*8X]N\OOSDNDS\36-"OIE9D)MR@GK6$[?RN?9"4XO+K(\.H^Q0.@!V'9CX:A M_5?NH+KOI;J=$LQ9*Q!C-"(>"48&6XLBP\9AJ66P8>/G6L?SAB)?1Ij;8#M9-MZB;25)?!R1>;(&&HP{U02O]-MB.?4&Y3U4,0}O)=3!>%(K!.>WJ(%Y:=Y0\SJE[919*D"GU?6;UY] [ZO2.M!E M=PU<0%=W45=[%W'@B2,55$"<48ZL=10E8AFQ,49F5_KV/,;'N[%/R%6-G'^- MX61B){'^F(Z;MB;V3>F-,*Z;KRQ.]:ES4WO]['EO"4]G>T1)*_/#2XXXIP0Y M1B52 FMEA,^QQZ4&>F&K*NM%TTBBA?LKHGR\OXV#20?\;'UO594!+94/H%_72F!VCBU=F'Y1^E[WR=TG)]H9YDW^V/:7Q M97/#,E3A>W^2GZ JHQ4&Y7,+SIA=I3>? R#"Q^8%'S8B86RY\5'VYND'Y"\OT M*W*6F%+;5[9Y"CL85.=3E[GY\H":ZZE?+(9FM$89D9$1HE@AE4UYHR^G;! Q-MGQE3'G%.A;.];KNP_ /NA0_*N.),M_8T,ZI**UM\P7/^1-LXAQ5?[-#^[45 MH_Q&_&8'T_^?O7=O;N/(\D3_OY^BPK.^+4<@Z7Q694J['4%+LD=SW9)&DKMC MY1^.?(I8@P '!4AB?_I[3E;A#5 D 9(E$;T[-@V@'IEY'K_S5N/0FJ$433-< M.!QX<)U7/EJ?)}(.H(8'7JA$O-=NVHLUW*NHMX[M S^2VMD!?-2'J"W@W,AR% M.&.!U:ZW_XK2^TO3XEXE@;Q"PEP;ADW88I/Z>G6P1SKQ/L5OGUT@V0_M+B7+!1O&;0,-]*3'3UHA/7MBOI8 3R[&-69:YZ.8S-Q.+D5XCP1{\LU0=;7 M1!H7H?MTX]8KQQP"SO:S;U1++!S\[RHQ6\SDND<+FD1[VY/;&Q[8X&R.6_+'4%VY#S/R_O/V_>9G;M?PTT,Z M:Y.>_55@=GV_QY(HRH;#LJ2:F0Y,EA6CD7#&$Y@!E2&N-.C1I9&YF(Q2[)_B MA_VZ=6]{[HVQ_Z.!MW/=]S5X:[H%;]N1>1_LEUBO(-L:H>WBVV5(^X!MJ|\)_F&'(&> &E{(>-:P9_AL!B.DA. M*./(@H, +"+3. $0^3]3' ,P:08,8EOU&M-#3E977*]AP&WKXG1,E=\[;- M-V4<%BMF0XY!W1Y|_*4,CL.RP_:!LN:E9U9>$V MSX;WPR\1W=\75-P""K\&%F\K73? <08%9'E.01-E 0:,KDC@O&)&2E94KJZBI MVL<=E M/?N\#]0<<0#@,SV=^G3?-&.+1L+[&Y(-.2N\#3WA]_>;#RP*XX/=7 M__G'JQ>O/OQ7KWC^YO6'5Z__>/FB>//VY;O3#Z_>O'\?*TY?ORA^>_/]6_X M_?.7[U[O(Q@/O(C&8?EH/4XO%M-AKQHIV5L6$UB]A$,JLH1GOVP,=6U,]_.+ M0R=@0"N'G8]$C8&& T9ZB3XM?I>&{D3^L:)7^64Q$4RV0,UD[C,*^S ML*AV)MFZSL/T82W$/FI3!Y\F":HS@]+2Y]Y>,;/:SR8>N@!&BQFO19XY^3'. M? 1%YQLV6)3]BHEO9T"E03O8(XV#20?\,"]L'JGI3vEOM#C%W%W/)HV CO"X<>*GS1{Y}M:'!0"Q[60*E_R]N^S)[7.J=E:PPA^ MG,<MSX[$IBFBMC{R)7Z+. 5A &P!XK7+DV))%EQC)HUXF-L#*6*I=221*EKK*I[EQHS,VX6M)L_AW-\V*#K\ M3K$"S;Y-G'P>C?]$ 002'ZWQ3@Y+=TP& MZ9(BJD]62&4XT8% {(L%\9GK_NGS=ZRE3I7B2X.^G%&:H.9_856{)+N M^PK196W9*L!E?\("G,'U2RPQ!;UN 6!F[_*CEA<[(>Y@-/HS;SMZ^3/F_7*1 MXUXYX#F'4\"J@'I2?W!>;X56> D""%QSM&>&F&!>(_/;Q64B1B[EX"(?P=O44 M,~=H.KF83E9!%-#]..D=EV!8CA5$QP[4&!;/X, MJ]+##89+WD^^L-/@'!E'-M8Q!6;IK=-_#.?213$% {U=)S#K\MR;8;29[7{8]NO5PAP+M% JGH/HJ_Y)>Q MC8^&';,#P4GQ*JW9+G-A'4:92?I#CS/GT:%VT0\X)!,V]F>\P[9E]AO.&CD, MHL;0V.K.+,LTN{8(2@\R,H<+!\LH,^L':-$R? 6DGCV]CG OV)}(@/<]'MS, M6OL\FH*I..C_&3/_X24 "_[''=AMX8_:!$%-)T@E1TV.G'D*NSQ3RJ,5^OA_ M_TUS5CU#*D$C"D\FR$_DHF>5KLZ&N/GHD1.+4M/HXR^ACA(H9W,$[V MVGCV$9/!$C0 ,83B:QX?0-D_$[^MGWR;0 /% =_78.UF$.NS)ZI?GS4D?(E, ME)77P X;!QPDT71HIR${'N!- B;AA.W> ^84#5<,B;!D&2K. >UUH>IB^}' SLN3G\KGOPP_\|? M?@(E0THN'0E(V]B_VR;+JTYE'N-TS>&QNUKB]\1RWY +(M/^@]@W4GQ8LE-M>/IQ'!MY}N2'_WAQ^L-/H*Q06ZZ(KBP=9H(.@?2H/V@@\11QTG"Q H!'=5]) M^0@G=;>!RX_ O 00#8.BHNST63T.30 E>H++>P&RS\^<[!]V[DL&U^\77QYP M&CI,'8I,#,C7E,A4+_Z$/W9$ [U(Z+MWV#>^?/SMV_%7!0NW+ZK/UY^UW^ MD#V#79YG'2X>B=N;70%=,_&K$)65)A#MP&R=?'WM_YP- 8@$B3H5/U\WD(L/BL?_$V MCG$700_^/\X7;W.B[[MO!TY]O6X%<9_3(=Q%MA<2*34'V"*\X:./W^>)/M1T&W6GS29&-=&D-O1H,)9-TQ6Q%MAT,^IB=4J MDI(Z(2U5PE3B$&CP%/T'IQY,P,;#?-U"F^N\WS=0:',7D+$*=[_X}6'-WIY M[G=,P3A]__[EA\<,%=\,]P4,.RPF;5WP9541C?T#)&,":!!'15DF(Z7.EVJC MW8'H5"4XL\1YB>!")&*XX\1REDQ,I2CI1F'D.H^!--WX)BU],$>;]W+-1 C M63?@-_4BPEP1S'D@O 'I[}'EJ>DH:.|{'P>#.%{@9D!WF-J7W6 90(/! N?X ML2V)P5]3C_7J^ZB&]%H?7&M9[9QC[?N:/R0H+M^U5Q8(*P&.2UY^+-/L7F] MX@FJG0_!U,\!9((=V#AOLU^DR:[.)PXHL,59S_"O-+N^ MRKUT+/?I=+F/.9,[',M']D>VSR%+=,X3ZV"?"N@FH('@X)C"M\CU44D**%021 M07DBI6/$2J.(KU3@6H4*_GF? & I1O)\5$_VRPOB7\$##F'"%Z!U<+++%),?AI M2_+'F@>^GH)41'QIYU#+<#@:CSVNA9X2]Z$W'CW9X$A>>^0;'YARYP0CKF<)C MJ[@5UZX26/5,Y2!IF(=J\8B:? D0@DVJ4I18"X)!ZBH0HVP@_M*;G25B(:H^*Z='@UWXLW*8--OP-8"@U]?AC}$E\ GAZ!M?F":2QD0< M]91H Y"#,Z^YZ2@(/CDB*AN)=%$3QQ4GI7.1*ZUY%39B3&_'&$&97+X= MV.'D=!A>@+I+)<FR1/)*&XIDJY8HC6N:V%7BL^$6VGB>!]FA5H'V KQ_F'NY?F_F'O#4 /DHC)LS8(Y MEZ-A+"[ZP,5(U"%&M+(T3:DD_MQE>1_OE8 TKGO_[K_F.!%\!? 05CF=+$N:I J M:FF-9MA.$,@$^)&!"1FH)=*P,. M1=!57/)?%YOP)KVUEVA"@N)8SKW91Q# ^?44ZUHUR$6[SJ84 9VB\|\S'-KG4 M#VP_UY'OI-HY49W;)G7'U'..ZJ8T\2]JV'!5-U6@34)Q9T@5&%)_">JL9!4(M5FD\]HR,<:.OWTVH?\6Z]M_#/OR!OIBY*SXSP2Z!/Q\,)BQ6!K- MS$P_[F;,-NDN.]'IJ$\]RP"" 7GLRZX=F<@=K4*F#V/,9:,E1; M) HTG1Y @L4O<>5[/*P?1WAECF7>,;S?KW6#2*_:5LH>X'EJXTQUN1SVQ@ M6{4}^LOI_[.;94ZC)5G+98'D!5$Z:1Y14_;?]Y/}>(N/QFN3XG+BI?*RD D M9)V1]]/QK'4.JGXT,I\U'4(^;2[7Q9S+V\:?8)O&?^9*\\4Q3?)^]G,&ALVM M,+!L8M3DVV9UF'>GK3UN[]#(3VR5LNWHLF*5NHX9!!4S*!UK\C@.K_M'%[W MBF&0H<\8NGPQP6HHIYD(R&7A=8.V.7J[1COZ= >5Y65 K*=<:?"SIPZ,)4$.* M(%&S6 /J627C'2SRK,CSA \@YO(L3 >THSAQ08.=;Z(H(U!/BAOT=ILTMWMQ MYP&& [DG-.D1L)T66M2W$6!)4C7 =7>EZ^#P&\]W*P$\]

[&";.V!")73=B_QP4PM%P3% (ZT9LP1.3,)(D>4:X M8PF11>9(YDQ.$RE3GFZDYJPK$B993HK4;.%!"&"Y;3.1 DUL14N?NSI70$] M-LBL<*1'(K;R)U)AP/&F/,]!_F0IT8IJXHK:PW)QX<2&8%(W8P1FR(MQ*X;L7\)"N%H."8HA#6%4'"6\3PE!8T5&+%.$RDL)7%<:)$[JF6R 12;&RN+ M')0(@^\0GN,PQTP5A.$ME.E$ 09P](E];@0>9-;+.,[(7*K-2DVF0-!E)-,:C M*A83"68IR;+"N%PG5HL-D*U#R;Q@Q [&B V1V"4C|GU0"$?#.4$AK$)!9+^Y(7ZC,*F)64$MC0N-4BX)3!-,R*ME:E)=NI*. :8X@4AA.14YI*%"Z5YM&<"$1MD5CC2(V!9+2G-M9ER2HF!@Q$%H>DIRF";&\2 RU(.3$!KKUH616,&'(P5/2&2.P5(S: .;!T1SP25 ML 8>GE*ED](@2:R7(>*D%D31+B4TS(U4"HF*S30)'CF5](QPF@E$4&2DX'EB M%=-"YF)S HZ+X?>F!>;R!L'#'2>49S+A)N>Q?FQ\@B0.5FP06N%(CT-HL31) M#!;#9BD"Q.9"$EU@B#6-)4VT34V\405U"*$5K-C!6+$A&+MNQ?Z_H!"_AF," M0ECKD\AM*M!VS3,,9E"MB63$Z=C)4V>@?#;-M",,>2EX% .:!#5CX6>FQ^U.W-1\6YV"?&? BW+;\|{(+'N;CG97EY3}/3Z! MQU_[O+WWY D6MP=S7GF9ZYI?:!?O_*J.#A"\HRIK(L3TAN$TIX(<"'D2U+ 2$"4W MCB5%KC;@"(2D+';,$#M6=?tQ:*GU8_4K_M*KAfZ(!- HY5?/VWV\B@FJZ6%UVT;!I=E/.SR'UUE2EK%\U-(L/-M)M?.#>) M?C3QKMVE7W"3EA_6[.JJKW%\4U4@V*9\9]PDIN(BMZDN9#(BJ@1^&1"4M,3!.*4*U"@%&8:9+S M@I$DTU++.%:4;CB^7%A#,8MO.$WAFI@2I:PEBF:*98D%422>A$Q6Q!":?!$?- M1W&>#HDZ9[#^O/0\>6)SZ*%6>-2V7AM@?1,M';K(>U1';/O]BAL1S:?1A^G< M190APT;EI&%;%%#POUW;%GCDY?+(_PL\LHM'^#4\LK%MM^61P6_2K2F)OAE% M/Q'*?R2CZ.TH^G&$0[U'T;M1]-,H^O,H^LLH>C^*_FN$;0@C;Z#]=Z"^Y39^ M]H[P!? XQF495KL,WJODZ}@:,_3,=?1#'!=SFZXWX#+'!5=YOY6>6A"8D?E9.%;FU(C-+]?U'T1Q^M6POA=4.7,:,Y$ M+#2A&@UHI4O1- DV)B!/#4V/@\XTA7RESCB993K36$MQ]\/G5)$L)3=-<)0,_M!\Q>-,L_+&LSGM:+"HSKM!/SF8,#Q^?\U8W!BK9OI_6\.9U_4+6SOZC+.^L,82/^;R('C-4- ZKQ8MUBTLT]DW\WU?\0^Z7P3V"7GDHBD1T-.Q/01Q M?/CX^5U$TY/HTU_>_/J._/#FT!L?H!:$249)9E(JLN_^M2CGE^\G-7"!9^"/&,+\?*8F'V=>6Q_9>]7O)(^ *)K>/\G,1T(. M*EK7+ (2R'?#'7',0LDE&-RMLOM48#MW@M4Z-+!U[8V+#H1Z5\'?2VV$E+M9?%ZV+C:=??[C>#@*$AW),DO|FN!8I$1)*:!"4ZR$]F)55+TI<3F,2\|HIS]6 M&QW!\VDH')\@1)CDG/$ECDE/#B%&*9ZF,69[ICK 4IOL'I0S#^"HEBG M!PN_(5XWXV/@R9?DTJF*N,F3R)2?567.(D;7C8*-S-F3V0H16%% E^>]G*"= MLYBT9- 42V44Y'GM*BV;5.*K47#T M\ZL$%UN;6*T%B;/4$*S!)BJ5G#AC4RU3D&3*'A?!=1JLH3@Q.(KS NYA" @$ M4T*+S)#",9 ^RC&B)9A]26(8S]<%\W2#@%@&TLV9'-2G!%7(>$; 7#0(.'M-]2D-0.CH .D=6996 43)>VV:EWP;RJG2ZJ2-DO93V%\>@H#\07J1. M3RMW"ON-7QF.)1=5:3:*,%2[O!$N\I1(:,(45FA&7-";V)?YM)8J@F!8MC MPF/*22YB\'1 ^BE@!@:<,%!+[J8<2#*LG.M-5MO)Y.ER27/=]ZL2?!TU'E]V M!MO#*!)8YC(60A$G!%IA/O6N#%&%3H0S/.:%>I60$N?BI- ^K9D2F8^$G,P.220@"=84%'FN99P@MA5+R!G,]MS9VEQ.6%P$ C&'DLY]1(MB(. F)D2*Q&9<4RO$ M!LZBC#,08'E..2A;3(R.?@>NY[8G"XXA(]SV=,P4N M# CGN1H/T7NAG,A_*2>LY@HQ13)*-=%)EBNQ4:C?@S2V.%.:(4C$!T MU?/$!H3F3/-4IC2SI/&>EP_3-O@%-]NY#W=%$S:B_TQ/(X65HKPDZ]WH7 M%3W.^VQF3*/YT9K[RF;W=>:\?]69(N7$YV**Q7Q1N9/HLV>"Q:1R9GHZP=:T MQMTB&@\=B&Q%&/Y>DJNK:,G_B9;@IT,'IT:7.%W= 'OM%[Q;QB370[*,H- MME# S(1Z9(8[#_ 5N;<+XQDO0N(N!=FRSYY*HOI7';)<*2FSWSUYYD^]HC M=OG#=/Z_#MZDHZ+5G9J+KD](8+/3S_>1A[D0@RMC!PML[)>XS:-_+%DJBDX M!P]DNUE+K;9@K%F%/5XYU00L?XUXL[FFA99+L6\JR MSZI*7O@R*6P,C.K%.1C4<-LZ@@,B.Y4LB)]&(?MRGP@%XA*

*5-$47P+FOX&07YY/7MJQG8W7Y"C]]/5,6VZV6NW$BRN9] M6PB7^'"3#W!0;TSW17PN.O7T]F]9>1;SRU%Y^<;_U]"MN"]STE9Y6UE5P[Z][M=@3?O). [SV!59WYW.J97'Q_[MW!O796_'15]4H/BJ\BMUI*UT!2ERS#S^]L 4B*W3+]&+Z#RIL_]'N:!WC/$7*#-U^GO(>M8)1.*Z^P7bV!O=Q&/2*M';NG0.6Z1RIFPRK$IN;1>C:? !T.,M!B98<#5/1DHX=/1Q^. M$@[JE\/HBI%DDOGB.&Q(MS%!=8J2E+(E.;@=B?&;I0+I89G":6&"(NC7&WF MJVAS$G,K?-8@$8_8*7>["H4)H#WD \$;!D8)XO#QU.6NM? [N11[WX6=FN2PK M3.)(;J4F7*6"Y,8J8J41@DOF"LV>B5SL+/360/?V.9KG;)U[X_SA(+N$'"4/ M-]'EN ML2)+$I6EB7*;QOH="GD&T@RY#ZQ%+H)Z>0&L$@3B,9SRX7%^N+%.Y FAF8D) MUXZ"Q9TEQ)HTC3,M0?!M=(W%2_"PAS)D]R+ C5$(D_",/^S?N@+U*<.M!:45E- :U9_[=']ND;Z<$D]1(M -4F&,E8(BVESN9L_^QN6$]P MD1$\'PKH*!6]IP@\5[;,+[S[AQ?)@'T2!DE[EWD]/%8<(_#<2)!RN5$D3^.,4 M@' S6.'@K\,T/CV69!R$>\"2["1F+TZ\AIC^T_@'/TVKPI4AJG\.KKFY^O#9 M\-4=2?\6]9?/4],ICD1:%"/7*=$6PGJ.RX0=I'F1)K4ZDP7-N,'0;M_,.YY ME"L'4$ZVD(Q;S30SG. <;4,!W@7=]K'2TAX3=(0-OAP.BW"25HSP=%((USIM'F;G/0&Y/Z/ #&_5$[/AR M-5YB4RDN5>T-.'Y[*YDGUZZ/>S[O)]&;Q2F\P3.:ITP+PZVC!1$B!KN<%F"7 MZQQT6*:TYC+E,=0W@?R&L$*S(B54Q3NZS('YLD1#-4^2V%E#M*]]P:=8DV1 $6P:NBM)%03*>@>]=M8P%>M!4D3C20J]!6%IM>]!.8->^^NLJ4 M-6,+#F2,<&#I*V.'%$EENM\49UO> [:[A!$F:#*6%!5VB2$L]R2'&0U82*ADF=% MDA:;<(%W<5/-F;.+|XYMV=)B?:K/O5+5I%C+,J6K+8QSNQ+1] MYI8=>+;-WN:EO9"Y//0D3N\ZL>;1Y]7(${;.0(VJVK5#<<6_N/G=(MAB$\S[31]L6N+\PO"6. PAB@P$8/R$8;8X!;+-])%OX'"%&^;_A,Z[1^V\|WYP MU#K"42\C$\8!!<2LEW/*]^ 0$H[!V1WW$3)U&&H3N#O L841*T\>0WFQ/'.L M(G)'15DB"Y$0=+,9H1;IHC,14X$.%?&<<<2M5%[!]CUID]8Z1]XXMGP19!^ MQW#*!Y=^)L&A4D*2)*<,!'TPQHF61D2Q17,F4J93R\W>WY7^_"[TZ".,/ MC]&.ST_H S? F/QM^"]'+^W)F1!UA9DI03,_UE$/DXJB..S#U.9QR8.H0CGRR MZ1#1]Y%O\@ZAR8 J'E#%'UWDOBA@ZV>MA8/P>&HZ",+CF(5'""]:&U> ,D_ M9I#F)+_2"#Y6KT/\/A#PR$29{(X<(P>56"]*"(A_?#6)G?R"=5-ATO05FB&;PI MLMCYU+IQ WG=L10BIR+IVDW6[,^!.,[;Q*$"%'P8'7Y=QI5FJ0,6G.5]]'@"-MOU"$.B;M9+$MQ(:>?SI.& <1DFVOU.]/0R$N_%/EH4GG9#0G6[.&]^=RODJT6!93(43UA MXH?%K 3/HO: 4FOP4AO"2*VVY>XP3O3*.G[_%LPB796_'15]4H.6[-! MX3ONDN!(&? =2K?O:/$#>]^XL^RSS? IU+%C7C2] G<-&7Z1A4 M'&J%.Q#?,02:A[SDP\\9$U%8IY2B<5Z8)^V^7/!% M/2NYH^N_+4GY5S"+UARGV:+G&Y&D[QSQFQ)6>7Z29W<*@[X$H?'M(];6'ID\ M_K'\4EHWI=%EZ<9[E=4.618%!7M_\2M2F5HM#$DTMG_FBA&=ZH+8(F66<945 MQ>&BO(<6OQTYWT:XWA29NEN=P$L0#@>6N\$.7FWMKV7|&RDJYZ(210<.I,$X MRG.71D$ W\ JSCG*;<%2>)4@0"6G.1I(8EQS DMC=1T> (8Z?DGC.?W+34? MTOIE)RD/.CC8O@\6QBB07A>N&S'_*29/;_-S%U!')).W9H2#2(U<2G) M: X6;68YD09D95) (065F9%{()\W&7F7!'KH.8=?!BQ.Q1T9K3V*X)OP_*] MPRBB&N80T07&NG^^&XK.NCR?@2@M'0X$GH]-K2^>:.E.L779U?6QU-.^M,5 0*KYY.? %X46+&LH\4,C" 8+G/FIQZW;>'>-#O@ MP9,U4ME."4 P?_04L4T*"0&"}A$L,513D$(I*.!8&R(8GQST, 1_1\V_D?HZ /E_ M^/CY742SD^CMQY]_?O_YYW?CGC(\,=) M]&9Q"F_0#9AFH^CO]IQ<>%4=%>48&7X2M4Z/.H7/ZOD;_[>S6?%9_SNM?HM\ MM5'T;0&O>8[?6E1^?NOR<_C- 9'YYXFRO<XG(]?X10IL%^#*V6+I949W%@%Z>]G,DMPOFFLG6*)%S<5L,JK7UR%YBH(YY M-D2KI\+%0<_^]PJM]?G;.5/P]7'RR1DX9%2CWL3%<9C3N?NIX]9#DUT/L. [6.FI2:HC,90%G;QA1.;<$B"7/E(BY M2#92Q\XO9C#5D>=.XG!$052L*"D*T%$4BMP:OD8OMR$)/IFYI8BT3Q DO2GE M.ZAJ6/CV&+>Y;M:.6]@M'HUKM])?5[53[=QO- 5CBYPI5\1"+M2WH$5<815)> M@-1PQI*<9HX8"1:V43IQ^<;|Z-L(FE*C*EX@V'[-,"XLJA MHW/6#NAM5T@7S=FT!V!#%0@HFA[*Y M 6&@09?D+ /?.X%#SU3J4A 0SMY+ERS]I;&$XT^7E\,'Z%(6[9[&];$XI,OQ-&QWH MGNBO)6YB7)^E>=EO7CFL8OOB^E7LR^>KWN&]&\'JX5D7$[@7>;]:KL?UC^ 5oU^]8^[R;BI E;X2HTOU&7=M@7T M3[IX[2Q\EIP?9HX7-,SWLT=T[+*^BLPJ%TW_XT/D_VGVM=YRG2)FAV_3WQM$ MT[3R@=97/I*!>WJ02+;/ 8/R>=N^W_+,U97(W5.6JO>>?6- (8O:.^"_3"P<.X0@3.6TBO>O2G9_'E5N-JWFZTI:NW$)%[61 M2U"470X>5MO&-"_=|C0PLK"D^ [KBA6DS-7X7<6 MDW:G5=/6MEK"%AJ8XT5X8+|\V6+|O)ZQPOYLMV!9B01*IZ_/V/'UYX]8T.P,B M=NQVG'EK-$V6V]710N^XX?NPIS62V!B(L*BFYQ'C?RW@9Q@PEW@!$#;",,S\>(]-TVIW NYP3;I6T(7-SKBW-Z*3E%&;,*@;(_R/,Z[]75+#00XO("3RC/M MM"-ID8(P$45!9)8QDB5O2GE!6<'M56%B0.3$5G%2P*>$I[S [%=.4IT4BB8V-M-C3?$"88?'D/NL79'Q<5])YF0) (/!=2P/O_1_2?%<3EBR:"BU,TJ4,&LA:&:_M["> 2QYO//T=O.K\?X410/8YCN%&HFA:T,(4.(E06PQ04R)-K(FQS$AM@7** MC2R8*5R1[S@E+F4"D<;@&N)0+WS,>=@&S:|-'#PW\D MU_6W/0$1+4.5H]9NP3Q\B=4*0#ZG;&>=XKC%SK[S1++,P30X,A*:I8SJF\3;`M*;!+]"(.C!MB=4RMTYES3A]"_/S2;LE/B$ZBJ$$#W!/1BWQOYCE6=!+?E-S@ M=,0'%9T\.6)SX.,J$H9FVP*Q;W4SJDD?@D. #N:B,F<*7(EE'+;-$AB##M7< M7X25.5-P4+",4*TE'6$5A:NJ92/YJG[&?W?@G,A0Y:N$Q"KCV&*GB(SCC @;.M\|-IEM$\N2YR&3- *$FN >ZF@1-D"7 NE8E<8GE*3K66>_#C8/B]^6F[^ MP1*.V2P-=F,GK!WF$NT? Z+E7=PXI T2_)$,A(+M!)S*4C.F2)I M8N$?3N2QV7 YA<[!/TT= 16OP4UU&9$4\YFFT(5@.07+86N\3V8B?=5'!) M00GEGBGX";N(ZXB^O59^?->6QJV^.;"_[+QW=RVR\A1$PBH=%;3N,IQV59T1'^F M7QK7F/)MBK%RQI5?,! (\;%5EF#0J21BHG13\" '>]P(*(I1*GA=:6UIL2"-* M,Y,FS)"DR!-P6CA0D: ID9HFQF8RL9+N:S0N.7;)COFM*SWN MYGQ?,PSA*<7IU5#..Z"O-M'4{]:NPZ>E9T^VF& [*\$.!F9ZOLY!S+)+]L!I7-M7F#B(|)NXHH2\Q68=[B81.?3Rj=DAE<,GW!A8J,3DH*4OS'%/SQW'!J2NR M+)$\C>_M.?RL0!\MSGMXR8V,_W@Q 16_K);>M_9YCTCBB1R2)_%M)\Q:9?W[M&I-GRP%%*|.RB6FT K7_E?+\'S81J4WIO.T!)T<;=ZLIQVDKF'.2HO=R*G*06\D-B.Y MXZ!KBD2G.8U!R6X.X+F#KEDWG7Y1U'*- YFO$LUVZC-/G^5@?NZ,AD-L+ ^YM,#3HD0OC6 M2PLL,$@?1,.FY6M5@M"4V70"QL/SM%&DB<&R&%F,33*$. EI!"6 H:GS,> M$^4T);'5:68X3Q7;L%|O8R!LERE]V*T'H)DA)1F_CBKY6XUYX<5N9U9J[[D:NC?V(C#'(IOG@!!-+M:%) M!B:.'WW%=4&D,H*DU.89%07(IXV1&'$6\XQ:1F1N03"YW!"EI"4Q* [1A+F-. MQVN>RQ7G^2%\%38H4V:IJFP$5]JY1>#+(K20\'^U.LZHQ'VOA+4!R%]2PV(?-AU'\X196$4Z<7< MAV!.]85E-?CK&W4D?#I9]YP;K=5F63PE>\DV1%O+4) [&3FAB8N8ES&(M)PG MQ*8) PFM>;KO'XQ9]0_,5D-S!GOQ2G6[>%_UT1=M$,J,4C/N6\Y'ZZ,_O0 MQB6(0.O+H$=@E]=7U=+SH.JXORH:M%K-I&_.LKI7%5I9=/AC2Y2 ZYD30DO98 ML#Y]7E^Q4$ >N)C[+X7[XK).%/ETF+LO5)K4F\OX1OYOKWT1FO!X=T+64H- M?.XI^&MHZM^3$;::OOOA# _V04"^(B%>L90N6S%"L?=@F'WP'R9:';,,7^C%B M4'1HKDW7&F>;^S0P@<.67B?LYMEZ#+DS75HCN*PZ ML*FI/Z@:G-FF_Z3SOLZ=\Q6>N.W7W.\[N%Z#*%UV5\"Z3QGY](HAK5X&<')=N M@;]O;_R'4>,- M\2"+3!;,PIW%,Q&M_P93[*&ZQ)O)6'%SB0<5>9 MM"?1%@7OS-W2|<\A_#^)"O M7T0_+7N!@;IMTPR,K_GO[AOXX{(;N$<::T31-W39"6/L61NZS5?QS]_.:!F7 MYOJ9M),&;+B9J MT31@;$.X6>(L3[RAZ:VS:>UV?'?,-CO5)QMGLTWL1K9QPC;HJGB;-TW.^*\><@!-INY)_[T.BB-T.AC2 M>-&/X,XU+:RT :MM3> -+5;=0M4M;[=. [M_YV3E<+1&9(FBLX)HHA07;=:'SM) MXOUVGPCLK08#*O@VB/Y.QM.IAYV=]#EXX,TJ?57G-"H6_E<>],"#-?A3,WI9 MZ)WE?:?,)\;=1&]J#W&-!. =$.\'@? LSK>11\U^OOV21LY|6A%L|6K9Y@^6 M>(,%X$]6<-ARIEJ6G>;KZ|HZ#0,*T>>WZJRTG7Z9C<]_EV!U?I8-I?Q< ME?5O->+3MI $OC7(TX,WD|OW;NKV\$6- 6G@H[ZNK&$5C!&MH-A;H^4LYOQSU M]\6G7H#OGU^ZW;=$>R!V?X;ZBMUK#OB',!H*C-W[' MS5OXO]-%QTX&G*AB@6_HN18)L>U5P)DKT4_-%K7M"=AAM2K'!>+[OTM A98?M_.86!V$4V$+$;D:7Q-M#]RQWXSC!BN'&""2Z=HZF71;>Y!5:] 5=6TG1T_TU M&_;+V%=DJ'$1!G<'NDB_HYF(Z?FH79]EFFX]\<+&>.13%N ZDQT=R\S.I/P7MM#9+\I'8>I,F.R=.9O T9Q>_MCMK5^F9.\,G;@>\C;%H4):0#\?*0[2:0"&GSPM^X^C>%K'JW45]QXD"C8[M>&#V_B*F7G8T[SA:2?32ZZXN+|+$Y_!PNU- J5+S/72)PK9N733(%7\/7@O=?'MM2H!S.T3IFV:E72Z)\(LA4._@#B"'$]%E.PL5!?8= -+,3+A)?_M=<[^Q^[@ M>-P1CUY3=DH"%43#6LB) M2^BO GP2TX|<7,NG6$;2) -P;? 7*_9IT.!L@ 6 +VD1+8TLO^;@I1?%F((+7 M(^)9W?A W7PW#6:C0971N!A7GH_^1X$4O[QU[_&6"KU9BQ]1Y NOU*Q3:FB]M.AQ5Y-FE18]#-ZVL$7VV-1X:-_.1I@0#N+\&U',(^ 9B;CS&OPW6V^MI6W@,_MN]"J[M)XR+0)7KW|F>--I!XT7Z.F>Y99N:DEYR]/LN#658],T:KK MV7:-68BIR/4GU+YK=.DV-CP736?X"RQ46&9TNXSL2?1V71B4=?>5+UA;#0/S M_G-3*Q@:L?4PI|CPN>&68CII/O&0_;=1>+\OH'FP3!5WQ8HJ(R+V;HX%>M M@=ZSG5O3I*%-:*0[@]=Y9)YH3N=^_C*%S=9-,%[GZO> MNG- GJIW+U34(HI$)!BO>!Q-]Q&8^H2$9YEAPY3?ZX<,L*-A07/<>V\4>[*\\2 M[!1^?X,%TCTAZ\YGX^EE\[6KSO.F4=&H*GCC=5'<"UABW*Z+L7GA<\5[+_^L6 MM=;"K2IT\YMB7R^7HPW!W#RY7RF!+]D^?-2_\;*A>@4)K% ,&K4R-C;$GV_& MKL&9[D<*MMH](.&;I,$R (QF1AL::!G=1SBPY@0LIJ7N06/!.RX-OG'A%SK"-M?]F%&I.%#\F (3@=MR_]:|%$B<3,+1V/8C0'Y^"%48_BE&C^4;H12C5'J M\;*R6[H]GJ1:!OY_[@?;HT|M1/VXC:*_]W,05YP>C;6+1?D5=TNADS,!!K- M0,*\2QS=1_:9:? 115T_$8U7@WPVZ4MVF(>'IYS@XH$U_*(UNXKQY M\:5_^LO?>C97-VFT,E,;(&RT>99%%B?1W_%-W%J(:X<1Z(T^C"W5;3:ZBQ&%%^-+W)--+*_$9|=VY=@UD_QID1M;? 9\7$5B0SZFW!2 MD\82P$P0=GOAS_#R>._5P55U=YNUI\()ZFF;W?5!,Q"J74U*U;XA/J9>UKBV MZ:.UO!10D]M%\\M9ZY%WG?17OX;O7[=)(M9V!3MPE_6S:L2PSZK\F8_I!(6 M>%EB!7);)U*N5V/8B_*=1#]@0 !^,)?DL(1XTLTIQTB$;VWV+]R0UM4,PXW MNF8I7]BU)<_H=]//T72:F(&*V !?R'=7I3NK$ZD*>T37M.WL8B)=DE1LZB\@P.GUHMP- S5+S4FWP:-59&F$\2^D]<;G6F.+^10(-M#H5<$_#TLFSI*G:5.YZHW3&\[+)A\8WWQ]82?W6R^OB"K#30E7H6:U"RWYU-M>!GF0]O$,,+I$G"K$SSI?7]GM&"0Q%@ ^)3+V3^N6] %OZZ4>[T%GL$',[7 M.7K>ZB>3^OF&>;MYF[5B9KEYC69O7-YFA@SV/[;_4NW,FK6ZR7[YUN[*R;9\ MXVJ2N.>58U4Q&9?UG+AFB*#?$KC#-]L2H^T!KKGBO>- +8?>VNMS>77SMSXG@ M$^M7&H2(=VZNGNAJA]N'/=T1LQ/.,TDEY8+&*9/9MZ\OP+]LO-I7OSW@_<: M+W>C]8#]IERS"^BCY$F2+IV4GBOGM9]+;6E&ZRPM:=^QCOM&K,3428J9>V M9>>L!>H+U"=(ZFMKYUKMZN?.87.JJ'7TQL#?1+_4.W-8(=U;@D!ZI*8=-L9J MDXFM9DTUQ&DUO>C50[A M(%H'T1D>A$Y:C/QG>L%[SNO2MV_;/3]KT"%@0H/ M287UP]"/WY1F=R3IBY+1_4%)NJH(:{(XX*SX2BX?)/S-72X+Q1Z;-(,+\(H M\W.#!KD 57[91;=N"/4\7Y0DT|)HG-O$E0'=7?1]#;]RANOS!%GIP4-]4'&5I/WLH$-,%+T) M[C@BG4[A.Q;,S.9M48LOG!55- D1/*/!>UNE)'&&TI7$Y+P=&3@NC9O4@"L1XT,Q\6XO<1N[1+NV,W"V5<;YB^1S+KTW]&G\3 MJ#%0XWVI|<^^?W/<83V8!A"BBP,L 2WKKC;>YS*Q0U-5H]['#?16 ==W@/"^ M*[_I$>TZ7D^B'=3ZI.IK#UR>_(/RD+$%HI8CEGW3,_>$S05MHK&!=_"C2Y9P MI'CFZ"#O0 CU@_:N4F$O2E?\&L-B&5SP\5DWHR.0>#Y>H5S$7WR]/*YAP S MBMY/S$F+5K_9+._I<0,.<;1$1MU>0IPA5X"W[QJ)N@^D@?\BWCXTQ%=FY/V; MD7O3QD(SH&QWKI5E_I"JTM_+(SXB$VT"O-K 8&>+ 0^.P43=%VX{JW6V -8*.J M51^8%OKCX4Q$X>-1^#-LH MZE!&O1'3HOXT]W-?9SZYL :DCMV]XVF|.(.I-=V !{C"=JR;+Z-9W?{$K,0V M+M9L8Z]2MEEL,PT>MER- %_Y!S>":+]/<;MF[M2^CS^:.N,+L\B]=85MD8S!]M454Y773(??"_B_-98UPU>U0MN\=LB^^.39;3!]T:[2_89WS^:F^5QEEV#>1. M57E[O-F)GZ[J+N5>MR#BO5? T\.4^Z7GDZ$F?MXPRI'C?Z;6/:"P0! ML]XV5:D;]OV\Y18Y_-=.SJ@/R!@VQSF>^*@>]ZO7,__F$S7%F3:5'<;=-ZV MOEVNQE&WSMYJ1,@#F#@[=N.A^&+#RGFB]3T=T@HHSO>ZDY@*_24'?VX.]D6IO6.6NLRX,N@!P5OCU\GX&J#@GKE,5Y?-X_*XY/XV^[[M'G%V5KM7=6/(+ .H? NAS<^MOV/'P_*43B>/RF]#R]^[Z]DOP+,L>?.3929;) M;_O>7;O.QKWI?L=U]"3-Z1TNN\,E[^1+Q,.*BQJD(OZX_?SZBJ1M^$*S\.(MMW-.;@0ZWD)65A?^O'[]O@B3XB^T2=)- !.F#D5L8TQ-AXWBK%.N.9S>QQK M@[/"3_[SF_2;Z]>YY9T>MWT5-AUY@KX MB)%\2++[MAM[SF87=S# MC-JU[^TV+TW4D\WPD-M1/R- Q$WBL\P,$@\2*^OKQ5@FFYREL22"5AR:5 9MG6H[R(Y $"])=B3QB(L\T$L0($& ! %R-T_QY4N01W4%;YFKZF.!P&9M/[V; M':%^9RC>IG_;^!IT@<$6"'V>SGVO_GYE0L%]'- !R'TT^/WOI&_)<@6N'LMS MM7LI78D<27%CKT\XL"W+^DHGSW??IY?<\Z2T=9:!H+;#N(MY0:VW?>L4YF_I&$PPY\.X#E!K[=.QN>4C&2XEDKW"$7]@Y;+-R#<'YUM5.5 M.1MU,^\K#R,[OKA VG]?^$UUL4RLP7E9_"MVW$4Q"L0V>U(%CW-HAB-A+L M65<9!8,H\.W1\2WC?"'1Y<&0"WPYAN8%O]R['%_E(R"/CVY!,N2NY?'+C,?@A MH^C43< 3&7O/15GX>EG/T3/Y$A(L+YMVE50TE%'TV'.G07)Q-Y.G^W@%I&>:.<*?B*5K7#PL=S+)OW M69,@)Y\1YP0YN7?P5? 1IP$++)?#M$)8;^'9OSX3)49P^:_,F\&W@VZ/CVX2*.M$>-"%D\(29.[DLN/#KYB2N^!-_F3\RFLZM_!)7GY7'.L(I)FHXP%CR2P[1"6 M&]AV:\N&C;+DR-R;P+;'?I3/GFV_$R/YO/;, (4WR!(|)^_.9*BO?@3*>U]&E MY&4-;@B3/@[*'6';6)@2%&1'D!U!=@R25(+1" 019,18CM& MBMT>C#8XC2^<(X/PWAE,'R6I'"%^N):A0#++! P$<5PR)(VSDVX&# M\\=L/WVC\QTW/W_7=M!=>-;N]@MB((A2 4CF5M@3[#'VH:\MD"?SWIM M :A;N&NH|UD$-\)*/:.7#LBSG*P+%'<IV];S#!0KR\&C+D.?Q.[X3A:/?]H0)R=[#EMFT*. MWJUG(;B7+YPK@QC?M6P0L(LDF$F M'#^X>=1XF-\W_F;P)0_#E GB)8B7PXM8I?F(MQP\U4&TPU'/W=":7\K>#E_8_+M^Y]>^R$,?;M-2X?3>#?=US+/Q?UO"PN[^KX MK=[GNNKR+-&!"86'@L'IN:&D]/N_?&&^ RX M#;QH^Y#YF9I%ZJ.)M,Y?"FU-S9[HMF454(==-\]RD/HS^:)O >O,3;:3V/ MID5WMD]Y-E=>Y0JI(H57)?*,_\I,E0V!GJL2[Z*

FQHW@'Z#82F U_>]1_X+ MMJR9:QAE3ZA3)>#G)_R_&[_M@UO{!3S>&'=ZE](DM9S94?(O3N.(GSK-M[@.XBW]"_Y\KK@$2GX(X6'\|_%2.R_GE2?0>WFY<3{OG=Z]3N;'7>,C9*]
[I MO<')O9;:-Q=$/A(R&3WAH5UA.5M^BFP(_;]_NW-M9\BOKPA[78S=5]+(9ECJ*WCSQ?GDM2WKV5A=OL)/7\^4M; AO:11V;Q4FVB)-M3S+\3O9M"[!S?
WAE%\UPTU=+__KGE;^S=NU6T2L-M/*Z{GQ:]\OC?OX5{ZZK_:A6DYK4((J+:YRG-<\'CJ3\$_O;)G\:I=03L9@-M\(&X4=7\E5K,IZ_7/X#-;7[MC[M)8ZD"5OA*C2_49?WZF^^7A-'>N3M+[R_Y M@^S1PN:9'O;H[NV@]0B4?/&2W_R'I]#^T>6C\@!,8@" P<&#@S\F!B%3+/10I^cU"GY4U.HYO-6 MSI_+L;OGTXF[BHH[5).9A /@& @D?1@@9?
S(4X*?!ELJ2(8@&>X@&=)X MQ!YGIF00#T$\O*S#/@+0\-UQR(?G,GY(*&;ZD\@)PX?6<;6##'|&<9-'D!#/ M7OZ&-%5@V\$L-[#MWFPKQ(CG<3CLP+<+#6&
[@V[W='4[92.2'F\KWTGV98VM" MV =,[*@*+4.Q;%C;X-<6Z#.L;PW,"Y>R?$Z2C-V(@^;Z4[Y/+>80N& M>Y#.[B'K'],_X;7^G^<[9]\'T?J,6"V(UOV-HHRFHRP-1E'@W"$L-
W#NOF>=MC'%6O(G!LX=PC+#9OQ"W>&@M*EJF7Y@^GPO>(H)E/;CR%OV04G;H)>",c6-M=6O*?$!s%H[@VU-\KS?,2%",<=.'< RPV-K;L\?EJIJI MGGJ-
7;V]=[_X)"@QFA(2K91LZ+_^1F2FA,!@ \8@0YM6G79AYLR8']EPF.T9![#C*67]RBD)TLT)#>H^>*&@'2=T(@="+++$G[KE7!I
M>^O2!3T0A*PGT@^D'S;0#W32(&D&T@RD&>)25. M2OQ(E3BN9CF5=N?@3X0D,X\T!&F(#32$955,RZS8]>W%!Y&*(!5!*N)P5,0) M6!"M9L6I;R\NIJ
JHLB+>7GW33YQ"4$(_</H1#&AR@<&E\1VIH<[5!'M(5,5M!%S#]+3;4/WCTD94*@I3%(Q)/ MU9LV]
K[T%7%WM<,%W;+D1P]24=W'W(]6[EK!0)))6MR'4C^2QUW;8\NWI,_M]M/7>,_CXV/0"X?\]$3'4#WIUA:F*4@ID%(XEK]1?%+=BEPWDL]2UXTR(VTZ-MT[G8AJH8 8]H?
6#3R=Y23.0>;Z;&5K-=]70KB!=0;KB MT06DAN54&@WST%5% 1>:*(K8PE<-]N 0*]<5/F1]O*31]M3]6_Q5,*":G(R M^DA3D*9X[F'/#:MB-0\^WS/[''M(5I"N>%1G_|-
A0ON*\[\AQ)CV[G M7-HU&P>F&R9=G^]3DZ\V+O_R8Bl!<4.47ZFW*LU6O5)W7DJQS[5;254[0Y2 M':0ZVKU&0[2'>0[CA[W5&OVC(Y5.39?ZMBQ
FF.S1<=X5\& MQ9LR[\3$7O]R.9>V[0\C[U?78I//O-B>&_O MB7C1*WI'@X2+6MN+U>TI6>.?$TB(Y.EB71I#)?WP&\7W#6Z$^,O=0RV;KMUQ>C#AWC C<
+N#&$)PV$P.$+7>..CV(`\/+(<,R*89MVW;@?\, M%W,$(K@@#N6=@@VY,>*1%[J&%^'"%3LWX/O"$?\?11[T{]3!,F*>$ M9,@\? (+>KP"?P!?/)#V'CQ+5.0%KA?Q7@Q2!EI7?
A&"4AYP!O*E0KA%30Z3 M!Z^?'2A @)93LV!_G2_50]K@2_3$]_<.CI{^JP7 M)U(YP?OSHL]>!5VL& ^2A*RB2^QR0.4GR#VH%]EV_=#4#:]00#UO9T8'D@;"
(J,VGA"E>QAJ!C&G!YSO3NCYS,A?GDU8K>\&H0N3V\ M38,_ZQ+ ^*;7<^*SJG/=|/JZJ<&%8)V%?C(,SEU/C'PV.<-?ST?,=:&%P/T+C}:JG=:B.:>].&&9|R_9Q-Q_NHT$PS]Y+0O
MI=4H.S(G"P_[=+M=|VPSE1F#B/=_>?63M#-O=+N*)?W9:#H]:W% RF>#+@G5 MB=MG"31!A&VZ%3V&A4.*7.KR97W.5+\?PDW.O?M)2V9UCR"5Y:.WJ.ZXX"SJ M#2J
K#ONAR.DB#96\M@*LU/?!\F2]4NKK"N@8L]/7#[]"_'H2JLHA6KNB14# M2ZU(_@*?(-^3_G#(<OCD^5X\]6U>8.:+<*[44K=I>VP*_]QSG_&Z M>?O1LIH5JV-
*^']I[,75RIM0T:%OP%H?8|+GCIZ'7;-?6#B;66/G?+RKUZ]-M.6YY */iEU+-7+C*$WP(\/+]]#ZUN+C2674>KV>*EI= M'SWJT?G4>9=S.*(,_KZP\'-
H<95FPG?VO0ATTA\)F,O_-ZVND,Y>[PE,()0S&EH1D;8^3))O*E([]!Y:(M8S8JIN/@V&_::P[^=>P0/C/"]+#'ZT'0H3*]D"#P:,U!(7#V_+]5WS'!8Q6 M?]Z>F1^A]UX\R-
LD/POCZOHW-1I'RG*YQ13CJIQ\./+#">>BHJ<$PTC/$##+W MSA-A-#&Z(8O2"M1IJOBQPZ-T^HN]KFW(\J0RCO/_?]$)!]:2Z,],-(]X3]40"F;K:V,/YR5N%M 'WA5A92 M$)]Y_R!9?
U;^C&%N=#HY^NOTW]+AAMQBU##R_(/PR'\GNOZBQ>AR,T:P7U ME(H<)9>S\Y$ ^_(=S+B^]X3(HD[+?3?W48\&H, I9I W@=8NA9 RA,J(N@#OM*V'(5\5HU7T8Z=EF%_
3%?GE5_=7->O7@%E#X>EY@>F^)7+R4IWP8,9O3_7;)!1[^]7_Y/1>'YNZT55=,E&GEKC%V"\@ IP M%IC^?)=;F)(>2XP4 8,=?/00P/LVW_/3/:!8@?':-D,7_YQ;LC5PC[RIA>K
MQ7ZUPI?&!&"'})@8&'UP*068A;YO=&$D)_V^U_,0+S!D13(:A5&35W#E=16?BI.3KW]I5EI=UH5J]%!M:6:_1@,>:8 MCWMT7+BN7$E#NTI.(?
P:!%D29R8P!R@D!1WL+!#;43HOK>P_[%1F]#4YG%A(MQ=U(E^>DRZG)#XQQ@-><A,%9PYA:LI466+]08)#8O2RCT]V'T X6QIY6:)F2[, M)
G7>7H@B.I"H$%A5$Y((2^7S,^]O./_>M/;=MJG8M<1$XHA0WL>>4N0<-Z-M+HXI$)}]3?,ZBRGI*0L-N#&X^CB+2JI%3K4=]+0',LLDQ* =X48_SPTY*$%O MI_-[^NV"XX 3X-6
/Kl.>@/9-WC#?9CX+<@R+'UQ2\0XA@,,,X,EP1 -]5R\?@(MH?4#17M]-PXE.2XH0ZSX*AG!ABIQ M5&_,FBZ]"%P6IYL(D&+P@GB_CW$[=QSE'!H#
M7QY*K1]B)8(CE!8A.IFI0*MTD4H1'6@Z(<'"E.SNH:/I M>V*@+1 DG6)0UZ3,8VFCR"CFQX^^DBIO3QF!ZQMIPG.H_N80M2^)B,VF[$HLR M1*\'WQ|P?
#V+0)H&4O_D"PF_)T&JKC>1@D)V^99=ONMIRV-$#YHV'Z2'(5LQ M\H2:O<9V_8(V^V=ER[Q?8K,7P/XN0*.":%J6&D/& L\9%WPXH5]W[(KM=!:L'#^8'4Q_ MQ)7?
L@ZA0B7)D38H1!A"A$^IA#A Z3:\]TIBP,H119 N6+X9,U8#YPST%1S M.W,ED_BLV]8L.)U^N^E4.DWG\9O7H;JF9V_@ENU9)\#YX#/N?=R+@o5>!5ZQ MGN.$,OPOM"L&XU!?
>_&?."]QH19I"EQ1KT"#E.\U.! "V!]7IRCNS\M:&ZIG2M!?SQI*<(QJ5[>DD"TI0S1NM*\@\SSEA M;TIJ;TX\[PV^ZHK?)KX*PKJN_O.HY?)ZR'P?VOR*XR(A#MA43>,D0'+DDOD[
MEXM3S, Y1-L\%[JUHJRU>M,Y1MLZ-X:GTYF+GN?A_N\KT>\)Y=VY$HL>[1\ M.:?%Z@S 4\M$PI(0,5@NTN1+?A_G&S3>HU.4L<;UXV62NWN5TH714*1YL!C#N
MAH9E5O^I]C(OKXYB@5])BYN>4]:W_#<7UYA M"-6-<_-'@DO>L?0@\0\[__956]1B,4!"M&?_*%5?VT;_2(A=H=A&*]BZ3"&%< M=,,D-CZKP7WEB1_'#'L88?# P+B4D4]]B?
%^K#V2QUKF:% _@&;&M?[<.KAT M<524AE0Z#WZ-Y_4.-%,H0_R5 =K73:Z"PWK:'5YH[A[YPN.%'P]D<;"(:?U M4UGUU"S",[5K<'%##WV=1!E)@T:4ZS\X&F4\-
YED65>$1K[RXF6Q$,\BZ?Y,1NZ% MTUK$Z/5IWR."05,Y9"19%6,Y,Y:<[V-'AI5M%:8G;I*0%QD0D.Z*#ER\MAG!XB9*\'Z(=@ M8LOAMF3*8.&"SZB2-0AD7.
[U"A0ZK%@6=)?4.6FG:DI*WJ0A] D*@> MGL[;QI4K05ND6RI4"F<> IG CQ9.GGI4*!EX(N:GY]Q#]8!;E()9*5KAY5 MM*Y5',H%,X51+]QI_XY*7:XH1;$O;D
JP.="R[H@:AE=DWK-D&M*4,("_2)] MY'[+&NR8Z?D>IU6R7:]3_RSMME7;ZCC8*J?A=&AD;G:CEV^KZ4"46RUN-[W7 M-U! 'L@-&KBU6)N:N3#?+D^?]FE=[,GL;R UZW47]
[8K]$K4E7(-6.KSZRF4 M,L?QHB>-2*OCU-6\TE"M,YW@#7K6-'^QGBA]@H8]U]&KMQ&B;4!&Q_^BF2(M5L&?7.4(4 73VEV;\9(U:K5+&$++;*FJ7_]B,WQ0N(@<>C)
[@1$EJ;F+K;-3 M(*[0RCKVL)+A2K*$*3V^NZZ9]L9,%W@8#]]+AHD*A%?6_'"8!$ B#;SA-+ 3 M^VD$Q03BHQF!6W%]W%*|#8MI*]!%Q=PD6E;*;5/[MLLI5_MAL@ &GX[YI,;N
MQ+B2[6\YK&#U9#FMAHL?EU1,KXAF0;_2O=-6S0]J-KL:M.;[ESK]QENFD_[$ MN*H[K6DES=^4:Q&|!3>6NZ%1'/0^?8WI-2HC5U^SEEAY'H'BGXH?_U2G^"">* M?
Z+X\.R>B^G4R!R^@CWVFB#U_@*KK[Q(7,)L^7WX[9\Q\O1)\))SO?A@"DEN MJ-/MAU.E.9=Z.E_LKKV?F.G@DG0V%RP@-7>*YBCNE)+KKTR$N&]DDNVFDQ;5 MW
T5/:NP8ED)U.4#=8- 3: F4&\GOXF<8L3,2S>>>Q-&-SVNM!@$_W9Q]=WX M^!$_ >']5H,E%X^.7#U^O/E!__CUR|{GAZT;G|\R7TT.D7KOVI2ECMO@6[YNUN4ZE=E=Z-
^IZ1LI949.R@SJ3!% ^)<%2Z M]< .$]G]5QH64,/!'_ Y:R0)WJ)T--L7|*8&U8KW3>-^*&HMW>N>V]88ARC3 M:,],WF6SE6I&2S15>]-Z=KD?WJ=.3?]_70PQ"L+<
M65+:_]:KY3.5U"DY0V4'4TUQ/W8NU\QRRZH&XY@=>DJB2DOA.&'&,$B9'M/ MXYM#3)["9?HBF=!W*%M6+,KU]W'ZI.ADM|>XV*,"W?3:(WSO15E\:@ODD=#5
M4HGDPXPMV9*;%*:.'9'FPSKZ?L)QI[PYFZ0\1BI&"J,X0&3(/:X*4"NN8R>M"[!MN5]+O/B7LOM$QCP)'/U M+Y+3QQ-2I_(K8Z@P%PB-"0U\N=.3 6JSKAL+I-7])EPA/ZE2L4
MS@CO !5,*C"-UJ,MEF\P89S(>2/CUKN36QY4[*<&;7;W6Z,Q6P5G)s!?,<1]- MW>,;3*>=6L^6]=2_RNFEJUS,Z7S#+))B(%ZF/N7YIO)9-*%0[3?20U_9R
M"E%=Y G85S&$]0*0>=+P7L[E"'']&K>:OGP!RPSMMF/=>/,W(P3?)0)C$X#E+]T_Q&]\M^ MZFE@K&]%*M-I7E_\3G64:5LX(RS?U^|Q+7[M]=5W1
M%D$Z#<]]-3>-+38KO?EB3Z,:X]S&&#4.&*8;CFYE5TR16G3FGZB?IJ/G59+ ";&E'/R"+A7WXB-+;K<\/"/>"1=G] M%O7JM+E1'B1\%K>P;-K*-/,E9HZ["W$M
]]3T='1TL^2VT2GJU>Y.'?>0IEB M\T&GRWQ&O@H.!V"H$E4>7]?FHT"1>;?R. &4R3^2,-8!/-(0&5,A2I4950Y MSU\@)@(=,A1DG,_\"WZHO>M@&TB#"E685'6J/-)>>E",%,-
R8BRWN40ED$BW MM&50=#P+-7-R_DO]:AI/\"[,FOAJW!U=%?O$#'60 MB3P0*(N[RS:-Z(55W!>CWSJ*O)XTW7+[9ALU,-O)%%455'>^;H 5$"A!)HB M7V;9*P)/19@;I?
IM4U%;J$*F&UZFTI=*#UH*6)S44I!Y9?V9:FJ5HDXSPBG' MH58^'P/-+#20Y/D-65I96>*^>) -K&D-@.> 0K0'<;H/9LSPQ"OE1G9.33MLJH
M/DG%3)Q$+L/EHDW+ ^5IF>3\QI@Q*TN7SN6Q9O$#.M$DP(^_8[W+D/A!|:'Q? MKGCK8[?2:0-982S?L2=P?<.<6:C%'DUF/$[ZOLID# /L3NX+22VD M!3ZZ4B*S5EYN\.2&0)8-
64H;#GNED6=C;-7S C3^94[6_.47.)5CY/3F+:0 M;A4\L%):MFI[7OKX=,/$O(DY"N59)M \N%5-F>9!'SP+%'+0[+DCD-0^0'51 M;I=/+OOS='N'C!+F>%A;MK,P?
Q1F*!/KJX';e:.ARGC%[B?B|IY82(P M@CB= JVD\3BSB0$DGZY"=CE4OB+U9-IE4(J,/5R-D%PV MA-F965VT/FEAPGA?HI%HF)C^Q7ZCJ[6%Z?
&=.5OD^S)CQ2P %?3 M-F0!5BYD\F;Y67HOCFQWJ09B]4#1"ZI@;9#H91WH9B62M@0B:[TC#-"G0G MUCGOT^I4Q^FX7US?
F=!\=2$6,JU(S4"&35>FU*I4WK_6N[G_*R'(9ECW?]WCAPH;.MKKFRJQG5AYF(,YL(WGRD9IOGNN8 M;PS/7OPH"E8,ZDT#IO>8;_N>TR66*=.RV17(M%>S4 MH$D[))_R;)
#!P($0R-QDZ!UOILL-USQ36N4 ^JB M@!9H"1"D\PN_3J)@1'^F&2H_86+A$O^]NB/WG'G!N M7-YGZ//?X*(3Y^#KY/;8UT@\;!7C,^H,ZY9OT"B#>V53_A'8ETDL6X4'E.;&/C.[
M0*)L?)RVU Z/&I[$U-^TBCI_2WE1Y2;4O7(EV#*IC;JEYX]^X1%HQZVQ,&Q@_M%(-"FNCT9[(\S4<
Z0B"G!';G>1CIZ8!53BUE.WTX*+R4)YC"#AS+N4,#\X#A]G*ISRP3LW13KPT'##^J8O3B-2,Q_- 'DH[J4PO$7SV MN14=D@Z.K^>J3-> ^%^ !$,Y2I#;22Q3X.1,*$R/)\
(=C9+..!P0G[M0F[6H9#[GHJ9$^%1..#$/2N'.6I2*!]J*5/G(0OXL$<>B M0\L6=3]:XM9* M*NF-ST!@OR1#$-Z>'M%<<W-3M3K-E.VZ5;!UFM=ZW>7+=:G>KK,ZLOEUWN^UF
M_94'G3,=VNZ33:5<=M]JKU3]=>;7/+K?9,M]\XTZZ9K]_DK(V\# M*<"'ON6>H+E!;6!=1]#T:!K'[P6>WKPPU8,!]&L?0.&/N0ME|P9>4U#$;IFUV MK2]S&WUX*Y:TXUK55KU:
[W2|C2:4=ILEO7!#Z(0GB[H[R8&6X=G8F6FI!7_O M,71G&9]2V-=PT:8-N2S*9H"B]'B@P[D1743YUFE:M$Y#ZS1%<|Y*G2Y"5BLT
M;_AXX'6H_*PCQF%9]U(^R^UPUTW*8E!O6DHI*+!]*!.#UM^*/M^1%U(OH M;:-ER1VS?<.R#U26'Q5S6^L-*ZYV$Y>OIF*<5)!CGOY=3\]2EV)/C1=?^1FK]
M8HR6[__SCX]O/WXOT& Q/GYY]_Y_=C@MM610[$QS8_TD5.=,$,2)LC$TI,$L M"'\H/5Y>!2LQ3+3A?ZY>99EFS7R=WM##,RA&@I\)/F(X/-)FB&2/R6>_PO=# M 3(#Z,X#
[UX&\1^E]^N+X"HW:QWYND[-J;._VR6ZFLHP.5UREf7^++>U.K=E\ MZK;_/(VC^=IHFTH*RSVTBC+5SI3!AE\L%NR"%<;MI'AFEQ8:)4CGF1V6FN>C
MV!"A[[E+S+)VP:92GR"6\26LS=@8L?OC:=RAG$\4BW M2QY98:M7T'0BT9)H2,1-N^&=MCK=_@9(^>?.CK.7 MM &X7?/(@XI;XUO$ED1SL?%@>_'/!;?<0&5?ZD#FQ"H7]S?
H!+ Y+0IGFA'MM';+:0=Y3TK&^VT2^C=1[OUI$NX5=]\ $W(EXN:D3E;,&=EZ(@O.*QBO$ M0:(@47 Y!2D#6M$HZ(W_RPU[OZPQ1XI M%MMY?ZU'!N@L%4DICYXI(V2R)S?
M/PCHY8O(6 M-;FYW0,&9^=/;>4YTO%(!$ "(*%P(0 IH5]9 +C8ZXUY$4*,/L*QYV0O/R604WD W,N M<3N-[3<6;+8NTR/EU>I6EX*F-DA[@X1DXA)Q"1B/KI_HUXC1]-
HV'QRAK7> MJC<[9M,TVXV,>P^'"5*O.JF4WC!&&:GG2PF[^RDSD\\QH#E!TS^-M$M[Q81=^TQ;Q-=,;;5]I-M*[P^O9@2&T\%M9OD@Q=M'!)=]!]Q1-
LEHW%Al;IKNS@+JE/OB4[]933OAOIXSOO#*<(I'$_4O-<<<3R M^F%TETD4<;5-*I^]IIV=[@W?3(O6446C5>Y#&*)D">R_X\@26,.2H%-S"D_=
M!TNLM3;VL/%9TB,6QM^!E5&P M1LH0#$C+5KHO BB0OV""\S^OWV9]G">(K-C+2 S90 I*SZI7D3- M,5&S_;3_O-Q+WF3;,KS9J1^5/!9#? XE\C[,>\E. UCO!^,_'"R.!)-Y4JN
M(_:L^G?)?^,?7@S<_,2Y<;(<6B8V=H1S^9DM2B=R<'0BIY7PNW7]=DJ!7U2 M+L ,)R_M6G8V9= -'?'>[OW$SE\YQ=*<,W
X7JTS3V=23]ZV\'>-VH*&AQXEHT0A?JY8'[C*R7]31$MZI5HYI9:((LA{\<&W+;!*P*?5LXX(WLE=#?# M\ 5A5#2#AS"_XXC#*^#8>L_CDDVBM&5SR1BHUEO=
")INDX;3W_B\NU#?/& MZNPPB8B;(.:8;WSBF'(,ESXMVS%-X^\RJ?1U'"$>5XSO@S *XC"H&)=8#:N:& M&EC7?!3GPZEL<_7EV(;Y]'*LGA/.MB6I,_NL8I/Q8/?
[$1KWW%Q9G70:/_'MTR[JS]*:MR>G!ZMA\OQ0!/=<*:D_MZX @!U'H1FM=!,YV5 M5"@8EBERZ8//,9*(C;P8W,;? H'9LP$\EV$<@&Q=/.?@6A4-
/B!"\QB]AS."4GVFR>,TF4M];1A27@E#![UO0BOZ^"U?DRB48R>/!2\ M?F'!A 6WQD9DU?/ 3Z$U3];Z"Y"52$C$.-AZ$0G7(>&Z;:-*+1K%Z,E#(>';MR'-
ON;$$>1?),2+B%7W)C?2"]D)>TB6_$@6.!%_%M';XUCTDTBM&3A|*W1X\= MG*5<>UW*V3NB'-6^EF#T4W0/D6_[Y*-$184BWU:)BLQ6I]-R;!OAY$1.,8YF MO+/L1)
(Y\OCWX3!,=W+!SB(9YWJ%H5M (B#62R+1V1R\S)@$N'Y;O5E5-1%P M2>D4H%/V4|((-X'B-OEE9WC!K6$%*-XQB!<"}<(:K5F<78$W?0E.JAPN&0ZT7-M 6_/P.M0)H+B8:]
<,Z\C\LVER]5I'"RY%1-=59]Y0[%*RKTEFS%?:DTR]R*; M(<KHL#G4>A%$]P)17!HR9_&Y_/D[VNY9.VNF *59=\V#T@H6R*6VH9HYJ7=V MV,VB_+U+S89?>;\?
\8GOF8WW:#>T5K0;X%_6I;G\Z'IW1L|G0OSR:L1N>34(M?9ZV C0S_JQ;^<^]!XTV/JLZYWV?CZNN%_&>;,$QH_V08G+N>&/ELN O&=3<S/T#<CJ]]E=RMBLCI4\
(SY!VPBSE^=9H*AGYSVI50(LB-SLO"P M3[?;=5O30#)\h;_1[2JVJ4/F2OJH@9=T\G[>]8447 M "N59=E!<^*,15/RJB4'2X2"!!7 RZN@=<<($%(O?TN[4FLVG;B/G<#.;Z"C-
O1+4B]R_>90;8LRJ!?2U4C;.HRS^>S MUQLP[AM_]WP87O'\(W8(/(CW@RW19#VCZ'IHX)382&XF-B]EH$QL+R<8U M(@$;=5M- SZ6SG6K,0K&O
;2WP,O_'Y1$\#/F#3"^WU(82 XF!Q,"G&+AN M@KBCE/I"T<^VG(X)"MUL6U.C<W@T\T<0-LD^'!\"Y$OX7P6S=]VZ-23^G""T>_G_C8O8&; M=D'!=.NCiN'DX2'/SV;@9@X@,9
86&(&3E]=KYFVF?\?Q@02(E\6D>OF=3O* M05%J0G9W2<+X3"=1/"">6-@M*#4)>[N>-)7NW*<-;N"<*WD-_1" N$A@)!(]F*D6S?CVE%*?1%))YYAVW7;: MDG2-
3J<]0H=Q<7\SJ"DD8#O0 /SYV-&9U=%?PL#UBHSJ*@\)?A,;,0=1 M\XAYQ+PYYG5(ZDO+OQYM=R3SFJV.LQ?F34$'7'H<@"JUE-,IHS&#<@AR!#F"
M'$%N$>3F$NB0U!!8!CX!'P"/@+02>35)_*,#;UX;V[Q$+5,9.+>8NY1(I=#XIZ\ET0N25<=B[1EV*UW2#W!CF!'L"/8/0:[K29N*8%T M%*,S7PIVSEZ88^P1]A[#'N4C.60L%??

*M!_8^\3CFT>,H2T-*5D==G5!7F)%QE(,^!/4BU*V#NB;=S5!*X,7B-)N.O>LX MS?=?C6>>SY!NQYL8FD^$)\(3X8GP-(LGRH%2-C U&@[\)<'DF"UYD-X-TNG/-MG=%IO?W@$\-NO//!N<'A%DYPPHAQ1CBBWD'*4_Z3,E&M;^Z#<]!R$"+?(66^- M;O)7F/)9;.!;NFONUR3@+YT#1;[#H3USA#W'"F%O,?8H!4K1L%>FT]+Q??FT MSK<;93T!JBEFW7OQ(.D/T(_H1_8A^L_2KF[3R!@Q\)@/?6H1[&W8!@W]/?'CZ-MS"3HUUXRF7,'V-33G#B(O$1>+B8BY;Q$?BXBZY^*L7&+^&6R+B6GOP MB(A$1"(B$?$) (MI$1"+BL[.+X18(QKW0"BDO?\CP>/3/P;X Q0?YU(#W5*0 6% CEZ>_5*,]>)PAX$01\;%P@.Q% ^-+N|E\)+=2@2>?.HK"02]!K=)"BOX[2$<(MM3Q0^)*P1|HX*>_ OZ_I35BM[P:A"Y/'P:EP)]U(?ZL>C L MQV=5Y[SO\W'5]2+>D\,?-$8R#,Y=3XQ\-CG#7\|'S'6]X#:K8JWA!;+(FK-F MK87?_#L!;=2?I&^4]U9A^)^/0I6:Z2SB.&%TQ[^[X1A;&AX* A:!PH%GCU?4 MP_+O#3L$]1,/-N:!KKCC6W.M_QH1G=R/OYXI@@:@*'GG]H1TZE]P3ND3_%_MO-MD&DF704O0$53O6#CD-MUZ4NWSR4"G&^<. [=]H857:">4EF6'30GSE@'3[:&,..')8OM$RS9KY.>"]=E(\#/!4PS-A!0E(BFT%OYC%_YPEPJ7VP4,[2-M?O?P7+VN4W/JK_.RKBNKA/QTR5W6^2$'T [5F\ZG;R+=9Q[>A=%KDU3PGU%^= -M7GK%1\N"'3_+P]A4_'W]10#\;Y$W0#[,$7HS!+I50+/55%#J-SR)=*4A76M=-MTJVU8D6D(}(1Z8ATCY&.LF<1Z)Z16X2[+# (^A?":);>]K4VX3K+B;@T;U8=/K>;=;5QN_UC9U$8L?%]P-&+^1%CXVL?>.4%MP^3 MD\B\6'K.LH)HPSC%-'YQ)I0C2Z_L<5'!8(Z:O/8?MW.M%%N.O;#@Z-M-R[#6L7X].GR&>B,GLATDI::P$G@)' 2,,? N=5\)7C0+NB=R@I^X:W*N+3J3GO7>)S/!G;) M88RR33&B;SXSV"HPS;, O>QT*RTH$A>)B\3%95QTK)KU?TGJ]\A%N0K(QXYU ML!LUP('^X 4P)3<0 ,UW_=ZP*)+; SXJ!OC9)(}+\3 [@1;B>,X9@Y8A"W M>%^S]L\'+]J?Q^C67?1B ,4V37I=RNA1V=S9H#Q4^?%3)E%HQ@I^9 Y!FZ9\\$+6-#5F$,,0#Y),.LO^.(.2LSQUI?U2FU:!2C M)~>98Y!S^F836).(>63F+/_CB/FK,&<+?HV%)"Q.71*X.@0=(HJGP2=_7<<+M0>>Q=K-.[_QR_4Q" <1+]=]'F;S*^)^W5Y^,CX&(&:[!OPM[B0P9D">C6.<2 M#5[ZJYO^ZH90Z"",#38:<19A7D&\\".F]6(]Z?F\8S$SY.$I7=YCB=!OBMFM.M,%C$#3[L@]91B3" && ,$ 8> (B!RXM0Y1ZPL#:&+AD?D)>_M< 6?/WG!CRZ&-A,4" H$!8+" _=&+#)/4%@;"N_T:13$!&C(,8&8L!H3 M/E\)+00$Q/69LGUN4_X8!P0@=#R"@V]7[\LB}(2#M7'P+>("+J2)(Z(" M46$O5-A?IJJG@6&KQSJ40"0."@]7(53!^.9NEP4CG:P;= 2&$$&(V! 195<) MY#L\UFZ4O*3$G?=!JD:\(BC_E]5^$FQ'I68E[UJ1Z?/\?'5>]W9[N3_U\"]_M+]I4KC-K+;CHX7'+2^W-[U=')DM%[_JUJODMC+"?A=H$YPF#ZZ2' W:'&Q=X M8(1#+\,TB/GM<\R(^!\)%['1#R,#'M?W7'@@[KV+8?S$;.^U;(+;0I"EKO8X. M+.NVFU;G42]Q#][C01C#N^&<M#%<8&WR05,3[OGDB"&"%;(#% M^1+>8(SJ=?5&K6,_SAL5NI[*]CA==EO-;*[_5\-\ZIZ7GO-Y/-3.+HG; M"+V*Q_8RRXGQ7<)<\D4-4*-4VR,#R. (HV?:+74K@!C0YD6I3E(^1F5 M?CLYVZR:V9R GBIJ-4.Q(4+?.<;,H%1U6'(;1&GK<_(M\IH*>-V+^PTJMQ%^" M;-QB&X(%TU#;JNKBP5#"-?!2VGUD\# [^V,ULW=)3'6W<7S]^.7[!>KS#B,Q; M,F__IJL7&+^&I;4$EQPY4]KZY"S;,,4PXN:BUPN3(;"VY4,W7S83 &?AC9= MSUNX-$1A0<4("W)V'Q.TGZ?=T)W\[?,\Y^D@'OI_^_]02P,$% @ ZH%N M66DLF#*C; $ IYT5 !$!AW?C-K8O^/_] M%)C<67,J.^Q47.E7,J?/7;(E5\1M6VY9E=RGR\G3S7S^U?_ZC__O[__7Y26:WLX?T -^11,[=E_PU(UL+X@.(4;O MGNZ_1Q_]>GF'GNPMWEEH&MB"!29C={FV<;S,X?WU]!?7;YRUZT>]=XC)<-$W M=K!{CRXO.?&;$%OO>S2U8HQ^/+7XW&B-UDGWS8OEEOL&;.MK_AMNI? ANOK/FCPZ++W5"\"9&*H?P1,Y\=[(~=;P#8_0L\!334X\^/8^3'S7 M\+T?W)\8:FNU!%'LR;6. 8N&^'HLZ"5\SX*)X?6A9%W?Z\$=KB=Z?BBX^RB= MX% 6],G\Z'IW1L]G0OSR:@08K :AR]-6@L;&GW5;_UGU I>/SZK.>= GXZKK M12K3R!GT0C(,SN'EP,G)&?YZ/F*NZP6W64_6&EX@^T*K#[/6PF_^G8C8ZT_2 M-\I[JSQP% [CIW7',$@4/A8$4N3R"9X]7%#KY]X9RA^?1\&@#RRNY769GVHX5H]E$G+\2SM2SE\94?I?9.%AGVZWZL;6O.M6IRGKG2/UK@O+9W\'0N':N12EV1^,T\A$CCEWFUO6- $% M>$EE^26K^+Q1?*\$O!OZ[C8Z^^+Z\OV7[\;UUT\75\;WI\?_^/+UT]>_?WQ_M73$^?KG,Z^X5F^7IWGBZ90S/_>65@&I8G$1\V?C8<4M=?_S[EXOO:8,4H$"_ M7;V_7M8_LE%1,0+(G)KC.*_GW[BE+M/4?!Z3-FV!,SDS".T0G"X%4P!]XLR(MRAU9\W[<&Z#/G&8=LSI.O2(O H/)$^:!O!VAL"<--4!/'5?.U^O!2>$V7&RB8 MZ@P:#\UI3Y0/F]_8&WR05,3J OGDB"&"X;(*% M^1+>8(SJ=?5&K6,_SAL5NI[*]CA==EO-;*[_5\-\ZIZ7GO-Y/-3.+HG; M"+V*Q_8RRXGQ7<)<\D4-4*-4VR,#R. (HV?:+74K@!C0YD6I3E(^1F5 M?CLYVZR:V9R GBIJ-4.Q(4+?.<;,H%1U6'(;1&GK<_(M\IH*>-V+^PTJMQ%^" M;-QB&X(%TU#;JNKBP5#"-?!2VGUD\# [^V,ULW=)3'6W<7S]^.7[!>KS#B,Q; M,F__IJL7&+^&I;4$EQPY4]KZY"S;,,4PXN:BUPN3(;"VY4,W7S83 &?AC9= MSUNX-$1A0<4("W)V'Q.TGZ?=T)W\[?,\Y^D@'OI_^_]02P,$% @ ZH%N M66DLF#*C; $ IYT5 !$!AW?C-K8O^/_] M%)C<67,J.^Q47.E7,J?/7;(E5\1M6VY9E=RGR\G3S7S^U?_ZC__O[__7Y26:WLX?T -^11,[=E_PU(UL+X@.(4;O MGNZ_1Q_]>GF'GNPMWEEH&MB"!29C={FV<;S,X?WU]!?7;YRUZT>]=XC)<-$W M=K!{CRXO.?&;$%OO>S2U8HQ^/+7XW&B-UDGWS8OEEOL&;.MK_AMNI? ANOK/FCPZ++W5"\"9&*H?P1,Y\=[(~=;P#8_0L\!334X\^/8^3'S7 M\+T?W)\8:FNU!%'LR;6. 8N&^'HLZ"5\SX*)X?6A9%W?Z\$=KB=Z?BBX^RB= MX% 6],G\Z'IW1L]G0OSR:@08K :AR]-6@L;&GW5;_UGU I>/SZK.>= GXZKK M12K3R!GT0C(,SN'EP,G)&?YZ/F*NZP6W64_6&EX@^T*K#[/6PF_^G8C8ZT_2 M-\I[JSQP% [CIW7',$@4/A8$4N3R"9X]7%#KY]X9RA^?1\&@#RRNY769GVHX5H]E$G+\2SM2SE\94?I?9.%AGVZWZL;6O.M6IRGKG2/UK@O+9W\'0N':N12EV1^,T\A$CCEWFUO6- $% M>$EE^26K^+Q1?*\$O!OZ[C8Z^^+Z\OV7[\;UUT\75\;WI\?_^/+UT]>_?WQ_M73$^?KG,Z^X5F^7IWGBZ90S/_>65@&I8G$1\V?C8<4M=?_S[EXOO:8,4H$"_ M7;V_7M8_LE%1,0+(G)KC.*_GW[BE+M/4?!Z3-FV!,SDS".T0G"X%4P!]XLR(MRAU9\W[<&Z#/G&8=LSI.O2(O H/)$^:!O!VAL"<--4!/'5?.U^O!2>$V7&RB8 MZ@P:#\UI3Y0/F]_8&WR05,3J OGDB"&"X;(*% M^1+>8(SJ=?5&K6,_SAL5NI[*]CA==EO-;*[_5\-\ZIZ7GO-Y/-3.+HG; M"+V*Q_8RRXGQ7<)<\D4-4*-4VR,#R. (HV?:+74K@!C0YD6I3E(^1F5 M?CLYVZR:V9R GBIJ-4.Q(4+?.<;,H%1U6'(;1&GK<_(M\IH*>-V+^PTJMQ%^" M;-QB&X(%TU#;JNKBP5#"-?!2VGUD\# [^V,ULW=)3'6W<7S]^.7[!>KS#B,Q; M,F__IJL7&+^&I;4$EQPY4]KZY"S;,,4PXN:BUPN3(;"VY4,W7S83 &?AC9= MSUNX-$1A0<4("W)V'Q.TGZ?=T)W\[?,\Y^D@'OI_^_]02P,$% @ ZH%N M66DLF#*C; $ IYT5 !$!AW?C-K8O^/_] M%)C<67,J.^Q47.E7,J?/7;(E5\1M6VY9E=RGR\G3S7S^U?_ZC__O[__7Y26:WLX?T -^11,[=E_PU(UL+X@.(4;O MGNZ_1Q_]>GF'GNPMWEEH&MB"!29C={FV<;S,X?WU]!?7;YRUZT>]=XC)<-$W M=K!{CRXO.?&;$%OO>S2U8HQ^/+7XW&B-UDGWS8OEEOL&;.MK_AMNI? ANOK/FCPZ++W5"\"9&*H?P1,Y\=[(~=;P#8_0L\!334X\^/8^3'S7 M\+T?W)\8:FNU!%'LR;6. 8N&^'HLZ"5\SX*)X?6A9%W?Z\$=KB=Z?BBX^RB= MX% 6],G\Z'IW1L]G0OSR:@08K :AR]-6@L;&GW5;_UGU I>/SZK.>= GXZKK M12K3R!GT0C(,SN'EP,G)&?YZ/F*NZP6W64_6&EX@^T*K#[/6PF_^G8C8ZT_2 M-\I[JSQP% [CIW7',$@4/A8$4N3R"9X]7%#KY]X9RA^?1\&@#RRNY769GVHX5H]E$G+\2SM2SE\94?I?9.%AGVZWZL;6O.M6IRGKG2/UK@O+9W\'0N':N12EV1^,T\A$CCEWFUO6- $% M>$EE^26K^+Q1?*\$O!OZ[C8Z^^+Z\OV7[\;UUT\75\;WI\?_^/+UT]>_?WQ_M73$^?KG,Z^X5F^7IWGBZ90S/_>65@&I8G$1\V?C8<4M=?_S[EXOO:8,4H$"_ M7;V_7M8_LE%1,0+(G)KC.*_GW[BE+M/4?!Z3-FV!,SDS"[

8$O^HV)TH/\N?|@(@/2HW0G6A-"+(I9<'SLB M,+S2;E[2> 2 "?23(Z|!D V#Y0'67OK+-"5FV%]#KPB7P=B U[_"87/2=)Q(MW?*

DBKZ|!F2VI)14M.51_NVJ?1%727K7MMCHZ=!1!H;UQN408VZ#@8.TF8;3J MSKWK5U>7S:?Q]#&"@E8_-:;OQ\MV:0U:.?T3W9;$*\(;(0$8Z(P!RY=I7#=[CY

M+ZW$KP2F$L*4R)Q4GZ_-NY[?L>&8>6D$G-$)9+5UO+Y!CX$% @%YV\?"ET(`MF,-)X+C]$Z1R;F,SYU9>1]5]1A%AV:022'E[Q9\VT14.H<|*UM(`1E$^QEGX*

*MY;;;!KT&/#52*N<2VX%O0^ZY',Z]"HI*(8B:UH2L2Y]0,=06B(=0'L5>6\5 M&#+EC4>OE#P056_UBKT?2[_X\;:\Y$M'17160%\UH=GG&0*8X^5@^G=-&(S#2)-$5*

MW,S=TBQ3TUWQ,M.\#^180YAQ;87M#*;496ODU#N9&_8:2169NE3DCR-(*56 ME;%LUE^+86A!%)%VIJ'2'D;M!J(($[R<_(KJ@NW:Q4U@[I;JMT2POW)C=!PZ*

MJ!PL#^+I;HW*"';=[*V$$O9:0MA7'(G"4JB!39),*CB!!"E9 -<@)6H2]\] M;38;)SZHOHNU]{L$Y;RA0[^"P&B8K,+Y*VZKY2[^SW87<7'SP1;U({EQ0,-;*

*M^%,WVG.L&K+S5/HN>_UJ.BE7[M.J*2F0=UVM34M9OQGH'MNFD=MMJ0QZG7 W-M/H62\>/32B:UMHAFG8^?'6X7YL/R|K>ZCVMC-*

*(IG3^E9IU:OR%Z2^DRX'O71!5#KCY79# MQG+F*E,2J6F|L\+?*LL"UW8;7O2E5AA^L1"5H3;!K;.?63C%G>5YUX?()>>D M'/8KVVI0>W1S).RUHJ_Q\):1?*

*0!YYKQ[#,']>95#A^M\$1%ZD-IP$#EU%#0 ML)|KL&5<*Q-NV>]O@Y#H!"^NW2UK]Y3(L,OF*GV!LA<3'LB%#3TX;0FIHRG/ M$**

*[*J1L2V2T(*Y[C]N;#6]BDO/OF=UB3GD.:3PHKN#8#86K:>S26=$A'=QW, M9!%1URPLS1UMW%UU9AD=>R@KC%+?;PPIEH"X"?>0#')5 MKI57]AJ,G4_DL; !@!T6N3)VO*BE"*

*<=WF534I(?B^9VZ9'QU U,=HCKM)4)OW&_3HM;CLI*6](5U39;DSF_M!Y/^M*S@0P!A#0>%4/XH%(RB_G^P *)X)PW65E|2PY6C@FR&N=A*7MM25@E+R@*

M9:T&|T|F42UK().YQHH7.1LU3&O^(F?O+0_*HMX6UF=MVDNKLBBJ2XK@S&;J M86$OU0;!S'7,S!+EN*V-N@PHKV:=)[4";]I9<-^7YP6OL+/D$$Z#PW.\/GBG

*M#OZ:SZX5#=528D#N*A^^*:B0.)$' "RK^ 5[P,Y:/FO8BU*V7L\'',YZ'^9BSK6#1;(((^[SSRD[_YZU?8O_ST|%6&@1!' 1$* M2DT" IKSSO7QG/P8_9?WG& TAH&'V3Z2;7Q]??*

*V&;B7LXH=OO_WN/?SV)27X MU7]DA-"|0=0D I16O__O[]/!QWG|&.RU/AN2!ZRNP|E-#IN 1'"*27T*]_Z@^G+ M6Y#C0??DF[H),@Q>+GZ<'B2L]$>;&47R!45DE&<+#H)L>!^_$.*

*[Y\;2C(6FX M*Y09$$DC7B!I3 2#ZEZ+TB7RL"\1'0WRX,^=>OKD$9WL(;B'_>]2YNP6J MV!((F-6Y!25,>.KNK=_PSULR5Z&IM671X=!O3'ZCV1,1 >%#17#DEN)# R_*

M84,C&/N2#HI$Z.>_'OS Y]9!6@:Z"ME%0%_;(F1>[&0E(G8B0NE$Q/1$A&(Q M=G B7NEB.)H7(PW^FS@.;1,)DF?2\O[3W4-!CXZ[S@@B3O$",9J($$5]3QX MD3=O((:8_Z-

!UG#]8\B -LL>>YY:11L$;,,/^8A9WX2V-?@)KIR"@.D)6, M35XMUX%WVV;#$R%<7B:,K5'T1;]!HKU3NE,?:%VLXN3/I^(1!%DFA^W#(60^QHA:'<,CHZ*

MR@R/V/CH'"5R];"[H5S$;[:;[@59-/D/E2_>>_M+9U>54+@68IS]+[2C/)(UK?RT^@73,Q-GTUS61T.!H1&?_D7;63.2#R_RPQ M"[2!:9 'F)&&^IDNSF*-8%SX;T:*

*(3<=&"_(U)8M#AT=B_"]I;3+2 M?>;T-#LH^HU1+"H.K -=)!&^0)PT8K0O$*5^=NQE MO%*=G#!]4,1+5NAA<0# JL_,$WH(,X+((11'SX*7GSVGA:,G,/N\AEVX M!WH?*

*[3*TQ#2XH"=3; !T-0&S@&P>)4^1&.+<6.2GCK&**;)RIO!4^2GPEP MT*\'YNF^L$4>*_,#+0[#38#Q;:MM K/6RK_'3S#K!@['YO?'AG4TJL4QYL MO^Nl +*7E"[B8MS*

*#,F0U/63-SQ5X7@8NIN%ZO\Z_'&?%S^A:>=&/&X*R6K6(HI],=)+ M[\RJN[ZQFM+M(@\M7S'H^8@*;R&8@-D83^/+E/F6@32J6.MKOE9HZ+4JPAB; MXL@.7?*

*H0=U7Q*579;$$)$TT_)7UFG,E;3&G10(X(.?HYHK?:K8P83#N? 7G4##HB M(D.B)C@6()1]9?VC)>_GW+!*,K7*-V?\S/G.:/1L02B#]*6UY8;,8 _^,2<9 M-T(668@-*

F=\[=OX]!1PD%D7FTL%+\\0ND'^>ZU;8H=]FA4:P- (5>PG?]K.' MG_7VU((+V+8;R&N#ZX%)K>===P88 S0?(^"(KH&B-6=G&,Q)(-[NG@U5^>)W@ R#?)71%.C*

*PW,XN5G]S28/NV3,% M!-&OC*1^E5()QE]JX =[4:$1"(>M>U<'V\||*TIA)KH:4CA5.%G,))9\1)0R M^15"QB 8 =$A]-M)U++*8,8*4\JE71F8IVR)N@N?/]U5Y&%$I&H/3/0-6A!Z3*

*M8^&,,.@H)YP-UU"H3R. ?J9^.?!*W;I1.7F_8*NKH:/4,I;,>@%QG\^8APTE M8\-WQD9'./R7LS#9=$*)6T!3T.UF"6J.HORX7PU>]8HX*?!9G00\#"V>K_+*

*M)1]>9'23U"*6"9I^G"TGJ_G#1W0WFSS-=#-245*K .VZ5D]HI\C!%-XL'V.#9P\U\]J0=!X(]Q$^69\$EH$8X M$=2TRU=]NZ9{C?S> WB")[SA201W9EF.I0ZTH6=0E5D(?BYSJI<*

MVAB#&LB/8> <[^@AJD?T0.OAI.AEQZEI1NQ1Q4_VQ_B$"_WQ 8KX1% KRV-MG<,@"&,(0(C7_Z+5A\#]0 A2&X.(*50!.]N.(S'[%GB=TUO?!%%P<^LU M/;MA,H9*

1F&HQ#%$##1-7EG?/T?CEI\$KDMG[K+R1HQ2]3AT/R9606L! X+ MJ%62ELP2S,1KLPH0&T%WT*X, C)(5L+7&;*5<0$$_J5M15LIDCT]O$' \H+I MH/H1\O8AMEUZJ,C/'J;Q:*

[XC [9VAOQ+24,X%B=.GV.9_#FRF(4%3.E3Y[QS M9TYZ#)IN(GG:H9=V/2H-; 2MEWQ05OH,"9:O+WR%1WZBJ $0FR %4U*VI7^S M%/%X.P$0H-S)E

*=,\X))4\GZKHH.Y>'FL#MX=)39>HWMF-756ZPG3D C)GLY M.5/BB%&_0(P^W-YB)&-[+JS>]X "5D(5**6KR0 &X%AVUOHX77AI.&64DD;. MJDDP5QAADO!(JBL).R,;.)T9P(*

*(\56LLY(;BS&2 $^0F|=ID)F"ZE+)Y]K@4 MLV=8=U'$7094B5=2*V90|P_@(&1<6:U;E5N4W'I--4&TL9 M-I|]7[.6!5"PPXZ90PD)'F*1=$ MHDA):C|/5N+Z?;!VY$?*

I3>QE)WBRY#A44_8]>SD @U2GO1FT\,(4,L,.],# M%(-F-A.:O1PM_$F\N[5L&O?7TRM,|>;0.@QV'-G01Y/5/5ISZM1_!RQSR(X(MO7-]!NRA&?-1WPKDL07H

*77!2,BA0Z$lV@Q/O-KHADN21O?XL.D _+(1$!M" M6/#8(2!GZ+KQM$/|0>U)(/(P^',.0 C;WZ;'DP*9+';'PI46&U(X4&8 ,)FL@%82\QO8HI,[^'7T+E=%@|YN|+Q3^OK_^*

*MZX"CO@8RF!;#245\$O1JFOO[X^'3@9%Z:A&;4MC6[G,Z4J7C\V.)KM+\Q.K MZH ,DDR1MI(GB>@LAUOK%+3_AAJD/**OX<|_QUU%,H[0SXDA2@T1/*!G=9J2RJ5L;B0?*

OF#A&7T\GV(!4@Q% H9XPA|YPZ93\E,>S8&HT6,(,/PU Q2V)!A98\RZ;2W61#_T>E7I,01!1XJA]HKJNEDB5^ MJD19,19'H,E,U"<-N[MQS4R>])@6S+A-S5]>C;EM[>

]9MO:S:T2@DC\BY? M+ ^?3CS-TMY@\Z)Z\I.W13V_V>8!!8Q8EVI=63USIDX\,2K"P,9+] A&,789 MZF,YDQPG>/O%Q9]"/8!\MVZ#B1]"C@4(]-*

*SW8THXUVUMKRA=/Z/3 ,11/2E M4"B?9E/$<6\6#T[\&=%6=_]SJ]!.+\V$/DH',*B37Q\BU\=1)(`]DUG1RYL& MND=B?_I>H&(@N7H ?8790Q&LD3R:T?*

*M5_QID[M|)T_P)+6[1XW+V-'M8T:-M M%C]LG[Y4*B]ZAA5PXAGS"]/RV13Z;^W=0\"&!)RIF[&)^OY^?A3 !Y\B.7B M'3#WY&\XO#T0(78U55.A!\9!Z4*

*"G1^QH1"=8'(;)]CYW2Q*Z3*9FRB9$H-.M^KNDB^%LW&O#S3508>]<*=FLJV%K9JGAJ++!B%G"6*QUIHMBG&HYR^$RFTI6FE*

*M01(3QR%M(GIW+\+';'AQ?;NKE8.'27":.%^Q%0$&(!-USX:<@IL,\4SP P8HP M.">PSZQ[*HH!LV)3MD340#5@)8P(184R(!/37Y19R?Q/2WZ=[,(@A0P[ZQ+% M]|CIFW-*

>7&5>T++"DP9T0CW<%=>?#"B71A 4AR U<_\#5%[,?QXBW%$?H_= MER[VXWQAE<" .3.W .!T%RG%$*$&.4-6^3%]"&3;MT0=*]M$**5_?ASF4=4; M[;3Q//#>Q54*LK^-*

UE=1R%%-4KN).BM@Q 3CP\]NO+TYD'MLA\.DE, 2OV#_M@-,ZX=VWC Z"7LDH2 R3:O AY**K)\WYUFLB:02N@7?'B5]WNQE11FQ>>&Y M;UXA/);1[8-*

T\GOKGT$HN(KZX(IP&@92X/O/.7,95*):.] MX$XW97-7S%G1Y4A2OPEI>+&_9WP:3#B%!2)7!$FIX(%<5"HW2RC M@U7AFTM9Y$4?41(`/O<1HT^#DF[<%/OW"W=(*

MIU_D)B":34\//Z5A,! (TJOPOPIDA,| 6N2N9VI[2@Y1>D:3UT=6" 7N(_). MB)Q U^]J8,.T -R\!Y=Q>;Z.&)RF/ MI71W#$Q*V$H.P8Y94GWID@^C_F--E?['-T.X*)2PY!7QXG) \U+!6JI*

I8 MTZL,W5O^84W>-PI\(R#"[BS?\8+04<)99H0$=0UY?(RS8X^?Q2Q;@C02M,T<-M2-WLR2]6#8\#5<[J\UZ5ULTR]%XI8LFKX>9,V,AYSA+X-%8IRE !4)IF10L=

*M,*39'I9ZEIXIT3(5T_T80[9]?'PD!.*)[P#^\QZNX"3++87RZ*R@LBN!WD M@8]:.-<("EO+1WKG/G.Q,.1NW9'0476P.8+4!X"-92RO'Z[AB6HII09[TX M]8)O?"'^& _#F4@$97[*

MK_V:]KS AF^P&(EHQ@"-.V>7%[NI=A&+/1UU]Y1P^3&3,PY?29 MVNO0=3;X+K!\"FH)E[*"]CN,*O((V037VN&D]=Y&BOCAAX_S<5?$A_]B++'E M^M@11H^);,,"*

<.1^P6O7=KLR)0BCQ)SR3]-.'M!B_U_&60K"2.'$;N:#!F2 MU*.&NV9(6:K%G"N#G%LPD++%(8YB(J<211A7H^W2,/'G*;,"6%R?!WD])$T M0(H'=8TWKN\S"*

*;1('ID2S3%>;:+I*_OMWLT(%8D89"F0E".2%%-6+(+[+*R M6>EW4>WW#+W=\FZL'OK!:\SCU=HI>=MDTDCH(V .;+4C?KAU#.9C^FF#.HE*

M;+4#X3$L&5X;ON=>B7;G)K!O5'"138(CK' "&O?A01(YCH(P^"5OM\|OYL\ M+(ZQO2"2+QQCFA'H8.?Z^(G<5A*B)(=?[:Z&@[N4?BAB"+@9W\$HR/6_EH T MTY'.EV=9"*

*/&;6#\P'B5833/F=7"L.Q1,-M9/F"%]N8^^>.H9AI1>,C5UO+Y M.WT;A&OLQ@*EG ,1[PN&+:^.H M5YX7IT?=!9R@]APOI7SD"]SEF=$N\[3]=UFM&8@EZEFC1U;R&]3K,5=?1S/[*

M9<8]B),,2N2 M#)22Q\G'K'B,(!\%0 B?$U/R?5C#F7]FG,E&#BL,CW#/42\'W"!Z$>>>K]KCUS':,)C|(M,_X9B=OL]8IMC?]#1+>=K#PC=+]<(2?<2L=GOT

M3SBBG'2/>.04#,4Y2D5P'JUP$5)<,A;\)!) E)3V(<0!{8Z1YU&-23;(&3)9 M7O5G;_%P1EKQQPD\SPHC'MCU7_TIKQDPLOO+7M+1./P*$L^M+++V!D (-:0B M[,2(5-

*;#8DQ>=YN.:C Y00O__'1G^4Y&HOCGR5B0H"Y&&R!]00Q_Y^^Z3H%O4&U3DHQF,744L=/9M*F=+NO1#(WHNUB +H[:M-P,+]R"1B'$R(M-& 0OX%P0AR2"S\^/E@[W*

>02'%@)8!9"(5T\|^@SD>M&>]4G?0/8ZW 9$B MH8 IU^:Z9D4SYQ(CAR1Z9)&)KN"\;)CO+@4;UO#P?58;'RU/6X4Q^2+(#4 MHX0ILGZSV5,EZNI-*

*Y7F(@)PN*MZP\RL#HTKX5Z"148(7 M$C96.CIBPX,)04P@Z:&_6++9%2HXY!$YVCBTW8@6"5\3SCG>"J_K:KB\#A2PD:JQ7 _W-'-* K184/^ \(:) ^ M^%GPDD/^&*

(BE1+;Z#+.:T@QMMF>(!OL->+WF6(-P!0/)"\W.NGW"ZO'G, T3 M?!GOB$*!Y^%B 2_%)OCB$]+>Y'+^-(%CVHT/, '+8^))$/9-)$Y?9U)!TQ=[T#D M8%JS5DD!0' [0503FL1QZ#X?

*8BHRQ0$23@ 8?1MX#OYBV!<6*#X:[':E@9+ 8Y&RW]X(CQDM,8I.D':>K-'U+>1T+T-&6$[93W)99SHZY7 !C M'.GY!/RU?,C0\LUV3%3.':J&)YCZ#H1E]\@V;+/+O4\V81_KPM_*

*M@A 3,6!W,IQKQPF$\|\%WR6IM8*ASSA_KMU8Y<%6V6J;6)+G(;EVR%_C.?8&8 MM)B0 RP^EL,"N9\9-9>;,#.)6 M.6.8R|ZDU#F;D]'8 ,.1'X'(8Q*;GN)!5(R'%+?N&*

*[!@J,.B"HA@$?,U56H!!H MLAY>R9-""RSDSHQG4@TGF4>QB!WMH?:!G\ ^L+S3?G",.KTDD963U\XMH8P9 MV19&C5Q> WPFXI+EVX3!W]CW|/*R)2!K 'I&:S& 9EA9*

*MM=R)*Z&6JW-B*EM$:BC.>FN%"2((($>D/.Z8(0K'#VQ#C.82"$F6W;UTTH'>Y M)@21RRF;*8(VMC519\>18,6E.5ZP*IPP323F:.:"JWC:(@Y? BRW27?FU=_]:U*

*M=D^!9X4WV//4)*C(0Z"8C$$^+&^(A@%V3',YM*(&E@46H,,&M!&0!Q1ZHB2-M-V.DU%B1LNHY5/W=?#+1.,>UG+YEERZ&G;-4)DZS*8H92V%/H]EAS*DG,S-L>.:%QKTWX(*

*M:.2,J$,\>L]+.E|CX+5C7?I3D.D3!&FZ7)=L$ ZA_#M?KA1L.HLD_;92(W%4 MC7518H,?#YPF\W#]#%V?$*8<6]+(LJK:%Q(:"(B,=K:9V#0C4Q:G3]0[GV)1 M[*

[P$A4<-8H='H=8,BH7:^.,'+*E9_TZ,\#7$2.00EE);T*6QC8&#O1+1'> M!&K2*G@DTB*Y,AA62FL^3X])LR&8@,@#\R,("=[38004\5&S]JV!T]3'QS@$ MVD)DBZ"*

%2,O4&?,>RLSNG=VMY =1/IS_TH^/?).V;U<>U5X9BGQL^,N7PN! MDY%POXU?IS?!3V0&AQ"'O2Q<-\'E"Z>CW92E:NKR;JP.SYX9J2?;]@L%1! M>(3

FVB+G8!\X#!7G\3+41AFAKR5>A]WY(Z M(FR&N@)&/?/LVL/<73YWS\3<&6[Q'3.P1';H4L-;GZAR =',%1F)JK&(!N*Z MR1!\3UQ:^$OKL)YJ3;=PW MEZ!&+M;WUC^#\.9*

1,H=#GMIWH(D216U41.8+\!1+HE&*$LV2S4&BT.&>)R,A2VAT#19<.8N5 SU>[W> M0!*%0).<1B"'*$[Ul-CBYU,B#7'GE$%*'3'R;'JN#.,>?1G1.$!.Z4Y[C]3* MVOEE5VOG-(*,?*

*3_G;CX?=K*P8((G7A.55\OOF0O=@-^8*TS'!(Z5)H@$UKB M%^?*26BM!)\>1$P8?L"-X#1EMO6*A.IZ2.T3PLH!:)IP73O-,6.FDO0F]^O.$ MHGBQI@'HY'U^PN&+:O,EV_8.$)8TQ?*

L0VRX]..1G#U--S7F[S0?'+0K/CR2QP>+%Y_!!6TO3^+++6Z:L\S&.?"NU@,](++>224WM MR=!L(F6@H5.BZ:5%+W\,/)CCW=Y-$HW]>DK4$"S5OT1;-@ B(VC&;U7+&/_T*

*MK]$4]F9)U4G1CX(C\O_?F%'S%?,F?Z]DQZX0@ZY\)VI4T(*R>B4%Q1QE3?;7 MTRNSZOTGWV*?,MEC-[GMVX8 MQ4N\)W_?*

*0J:8"E%'BHW@YRH7OE!"0?"C$EGGA(S(R4HX2"-Z9GME0Y_A(08" M0E1)R^,NK+ZEG6A:H^C/AB8L6)LI)"9_>.V.>>??X*5M^(OY[5*

*MNTC1'2,/Y+:U[,X8%M0'SXC*J!7H5T%8NU]"*5NG\06,\@\&3)]fRW5X6 31 MPB6V^@78-],HYN5J%8QV(M!3CU*&QR MSWCDIP#BGUYP)FB*VEZE?TOXKME.9JJ@*&$Z:X?*

OR|EVR{U"BT.\| O&Q (M)>@;QI)2^L_LU\)G1F=-P<=@>/[O!LO<9VS("R>%S6)QEZOKOAR26#((8 M.!<_A"@%&-=H'0T@WAC.W*;,8F$1B,'0G4IH-*

7^MSYFI$!N'"%*0C0>PB MU"],JK4_6B:D4H4,YP%)BCC7#$_ :1V>$&P6]R4:-H8D20Y./FBU,O>$I3&MB MKH9I2KWFG#$FB8D;..V[P)?":R3LDN[?-X*

A9>%+F1,E'/BJ0SE*0D:"E+: MA$G5/)XBD=?NX47Z 2R_OPX3B'E&_',19T?.XR&-/4E$5-O@Q@^. (L#6EB MZ%>8&N)STZW<*

U|U40%#L)7D^A$*XF7.M+1$+=A>$4<90882A)-#&.5J&< MHP*LBJL3M@QP,IW2=^*FEU=#,I0:UC)'#TV_ (X*CE[!3IDU@1'-.1$"J@!V MJ,&K)X#GB;6/T$=!B-*

@(O']?,4!//:Q6VOKVA-\7RB6(? X8@L(H1F$F,]"6E MC5+B/"[#*.B0#B[SM2QB*"@U'*M0[FSFQ[3X')D:K2&$IU9L]0NO82211!,| M4=U!-;]YR0# #<,2#[0#)/&2HD2BI-

*3T@"=K,KE?L!?>$E*]8R%AS-("1<>T M8)A#'GX+1D9',C1:D|%UQTP:6 Y^DODRE!:!2ZN*3:%;.UT&&!++F,>_"IE* M25L<8KK1!N0!YV#WDZXY$6,R=:.\YY)05(*0].58<$4CM?*

8YGG^$0$5%B"[^D M.9E=%YY;O==$P(Y.UG22/R:AB:RIC#_MER_=?0W6SC MF;^QF&?H#L=QUV)UN7X']6R^P=\8- U:F9!'0192P@0!'A6QEG'_V%CL'9F7+\SG:*

M^!%FMFW2!!$)(U,"C7(% R/@RTP.P[GN8$8",+248A.T M?^E6M(7_@Q5ZL3Q8FR49.'1M,CC\8>(IV5](+;M><(3!8+_11*Q"Y2.@U@3 M<.,E?BGW^*+6YB3\#IBEB(IP TX)*

(PM$1QH$;P,">(1ER,1=5BW$-DN?H\K9;3AZ7)S6J"><'27LBE1#R1=.1$;K2EQ MO68^A@(T+ Q/0USAP/77E+(.WW%7G(BL4^Q"UW+_^PSF)-

,98DJH")TZJ,YNPELC#3!U:R&D@ESX$?BB);7!AFTJWIL|/L11 M$CYU3[WORV+P/5'RC"SA>H70\5W@Q]OQ3EG2SJ0E-J1@509W%IQ(*LP7!M8E$)*

[]NV!%AWA(\"U%JS+HX0, M1=FG\HG$'N)[}GPX56P8#KSH2\OY"(;:\<$_Q$C\$ MM%0)61%8S8@:.",2_@]W@(8A_P?$2V\&:!SQ_MI2W0VN=-FODPF*DTXK*

MYIH2,&"'POOR9\PPO?;)B4G)A+IP/KO*Y4 M(BG 5FNI\YPDO_M/8M7<@U'6W??RS694-'NA50PYTR@A2"E^QR+PO-3S/X[L*E*CHNO"'' M-7U-*

*M*5N'XVR8*S0N"F:XJ!<9KIJ1.'W<2[58/VV#,%[A<)>D=736)PBA2Z D MYZCHCW=1R$FA'X^(!Y0R,LX:0_GH _ZB_1QUFZ+L);<:.&3(S6RI?/=?;.IIS*

*MMH[2'F>=@Q\P9<"#8K^+?KI1T*0LASUS0-BMP'B&'9,UL>@&88,N6-8G'4 MV>92VP^2)G>!DB6'^9FMSMCKBI5RY>X"?R/=MK+YT=#U(\"OC!,QRX8I+N8[*

M\B.,)B#6M*L9;8=;0*KO'4C?8!.5F!+=5>Q)k)Q+]!#+<^(83BQ*1+Q#VIPM MP_)F2EQ[0314O*_R-,#1>QGR>9J_UX7/2'*L!,&+D)S>S)T2U(H1YB9$D85$"(*CUT?*

P8Z(F5$2XY10-10%I(@++]$"<[,WA/.AAHL|YO,0K+!J=>2#@;@L9F@B M3U9B9NH%C-'S[-IFCQ.%M.(+WN+)GDQS A M3Z&?DP$D:YV13$FMK&;J!XO-O"C:R:<++NL$<1,B0O"

(RB,6 H!1V=. Y1$!V0'Q?A*GCM;J3F4*.<'#G/*\(@1$#R M#+@H0$TURDIBO;)M5E$0LZ+*!47M^C^1O&AT.E1A@3NDM\"==HZ%U7%Q,R^1 M2&C,[<\DZ9[8V5S?,@>8$18?

*#@%@G+/A[W&\#B(#W+ZKH>_+W%&.@YXX^-M@*0ASI+/,G:I+A@)+LTOA-5"10Z(X\$,GQ[M&(]MDTMDX<9FH2$ O9# K08:7J MNTG9@1L3N>,]6+[U&@7^WZP=5J.%*

*M,WJ{$M2K?_>>.3],\HS-**]J9YXQD4O3UYOU!.&TB_6GB!4!4J.8?=SB0Z.8C5V*-Z\]^<'4HO"S2H<#[S,94#@+ MQ)"(CUF:3ZH[_<'46F0TN)GZXWQ-0[=!N,9N#W%"PZ?*

*@[Q!?"VH_HX7QKB# M)IGQE^"CZ;W\|\N?]D$2K)@>39S'I'A>HRFUC[.,]#EUG0Q08JZN=BA% 0&&\ M:9]6O?E(\4+G?&:W&?$@GP?\+/C:3P[B5*5+(G[)$AG(FNS8 MFKR82!W-*

!H#=6C:>[,"GTE4YSP: 0?2>330?2O)<6)%W<+++9A/3Y1OOD!K8H M51!R?)}2$QSB*+;H17TN+&9UB7(F[:,?6_/1S5EXH&29M2$[I,5^@E0,%3D MO?

*MDL|9.0d;_D=Z'V1;3G:^=%(28YYN-E(VI2,LQZ>NO3N+|,QA(G*B2/ M.G,:@2G)3V^!-)E5N2J<0+:.T.E*GB\F5T"0#G@:_-KHT.>0+TF5Q&T1]0Y M&RO*!]8TX?*

*$FLE:2(*R[3)P"3OCWDG! B1E*X5;"0+8&7/$^:.5BXOSSP)W0 MJV#B.!+EPO(`L'/NWUA[EWP[?&(I8EU?,"]H4%!7K&181!,C74C%IB,GY;W"`M=&R[Q]+,>O!S*Z_#*D#IB(^(^)!*

(&O,+6(:"TR_MM%8&H1P=>5,@ M.FGVV?8.H'SEJM5UK :>.,^M `8I@TS@H+(8ZK4W'4W_UGFY]7/,33;GE(Z!D MB$Q--]K$1#ET?

*1O;0@+38&K.A ,9B=/3CQ)"02G$M_)>S+'DQ4XESZ)G N MTI+]D@L18!\]R^X/LR)H82:!OKR*MC(6F%SO&C7LY.Z4(NUK!OQX@(T"NU$ M->]=*E*#!6>T8I;A%*

*<@8K7Z<+&>7UY.G&23[W#_.'IZT9OEDRQI-U%=TF@Q< MT4D)2P45G4[XTGK=?1<'P)MH;8Q@*WBDU44U G%AN%J3!P& @:$D/:Y[$ M%0U.7OCH*<.,J1*

*UY:SEGFO*HL?CKTMW3_O3G0VURZ&LPET*OACP3/+BV:HJ MD9U KHJQJ'>68H+:!MY+W>QG$@A11*$C^ 27J]83O%B3*XZPQJ&G^AY802X) M-*

*M>K=40_5ZZW)6P]E"6=I$+!40^ G,;$]N3VN9I$"@,;G=(DZ)G@,CGLR+L+VLSHN'J-9 MX7YH'?TDI,Z6RP9[DFXL 0P# M&V.G8AG&KLG+*Q M(*

*79NNQ*R%9T^^=HOKT_!Z$X"\P<8P4^7PCD'?1G;H MTB-VY_IX'N-=5Q9%F4>N\TF4T:] &U'B^DLOXIM?=]OTE&0E@A?"(64PUU\= M/QGP=\Z'1/T' W@2H M'@*[BOH#*

*(U@\^@1-#*3UC%DM5K&1"@$_YT0G/,N6B M](HTI.Q18R00T!CK7+-^3 ,3!JCV&P:N(PK%X6-X$=GF33 MKT1Y,A9B@R4U=LAC*@:\0&)(D=AC)D+XUL.'D*

*>"/,:X+G9Z\4K)=$NA" B M%/\ ^+DTR@4$[9\%%3A$O9$2,$@Y7PA.V:3'FJP_/*S?NC)),^*<"62)%Q\/*B>7BK+B>[*1A/VO7)\\X M64/|*>_&UBVC+"^XX"+%;?*

%1+U!)_1=^ZD4TD!E[LT#YT-1(D$C@C"152O(L^"A4)PPR0Z6XF;]Q M:4P=ADO\@OT#3@M2]I3D)-(H9+116!2KO=8)5O\0,GL<)I2-=*SX28+@EJU M0[HOO2E.L!7:*

(#Q,R>|>0"M8]JOF)6A2>4&B:JJ.EU>LCC"C/ %>5B5YKVX/QYZ_65B'^F,81*U?B!Q^5KF_5=2E-U1H>@1+4PSA MQ'Q=HHC5YG>S&D+44^@N/BT<3V=FK]Y>!4H[}NT?*

BA9-;D-18+P<.^X= E0 M_0F^,2CAC3]M(=F6;*L>"E9FPR^/1^>EY RB6@_[*IE04YS)\EGO86+!;`MUZ+*)%QS\7$K+--=ALWAT9G61E(008L* E')0.<(Y:-*

*@(&T!]2FW(%@$Q\? M"8%8K]O>Y[HI1"\0)9LM%V_HOE/+6"XLHIP[1Y:M7QE!2$!Y@&7[#[A:^2YBD)1 E25[GV\N;*NVQ!1#V M+G"),**4PL-#QG53H.($^>3?WT2]F*AU+)*

<.+US'),1;.XNI MD66G]IX:I6+>%>1<'K8I;SP"&MQ$NXK#0@0\ ZXF&91LY ^4FAFHR6BC>_6N(* MDRH?5RC-&K>TE:.UPAO/B]+%FA_U14B1[#-AZR"R*N@[3O71W@3YCZK)*

*6Y?7;LOM"@WYYN:C(0 M"_ 00X&A\AU]@5S_:Y0.B-(1#89.ZU^&;"VQ4V.U:>P.6BX(?P.P(A9VU^L- M8)0$GMJ(9^UE)WPS^@GG412S*ZT]49&*

*[G]&H'-3*A4/^COMO;PY1'.QPF"|> M06D)>O^2^.)H)(8"[V2P9&4+"^A(#(C+B%[(F:A,L/"(< ,# M+EWMS&6E)]V,T8_N)MCMW#AQ@=*

RSQOL0^G=NZZ)2KE/41[^Q6#@^B-=-'! M'!?\,9:[26MVL*F>1'[1&K)T79_D#FN=&VY4).4>+5Y\,OW7W/=2MA(9F5:OW?#/8 M*B*0WL-RE0,%59(XQ,#"'* M7YB[?E;!(\59*

*MC'2V+!2"=<($L0UPS]KI A?E89(X(F M2HB:N4M5,I1):"_A2C^40YF#@[UW?!PDMZ^,PBJ')F-Q*S5F;4,V52BMIIL:/&@MB#,.8W.I1A@V'"%/@X4 MH'5)-P.*

V@6/YS#C2%'!+8\%C&CM\(9!2,ZOE!39PO)>EQ>X#[M-D<&4M?.$<%0-(%,Z7[*[HEEU",[\@5Y,Y>)*3V&I6S+*-

*R+P_3&XG*9O)Y"B^\#P/G M8)NNS-F3T=)"G53.E@B?$T^E!3P;[^:!08G;_P.EB0=M4X+0:7@83MDL*3X1!GYRLE7S9*[,9B#&9P;U@<&^&P!D[@!9O>^"K]DV[3L.I,O##<;=*
(\3;'=WP66?Z7&)44HH:NQ M3E8XGN@D#?F;NL!VXU_2NJX%<+'D@U&.2R213]?C(:1Z>8OLU/SR?7\;KZ:`MSY[0Y&&*GE:+F[__N+B;SI9/_\___;N'JS__?VCVCT_SU2_HW71V.[^9K[3E MH1=#,0VSUV%%!!@&=D4\[`]&"_MH[),_M!G03S07=47.?9RB+,!W,B3,?9GH@P!0G<8LRG<'$)F!Z MB-G+SH1JEF5![_]X50(^3AP@(/H*
*08]@02!KC[*C\GO'IZPV8\OF^T:AP]_G M-!3"-V;\[AB.;C*:0>GM(?!M]&#K#R*3]N_6QHP;1B_^!@G2,)-(1C&!WJ235Z\IF_NS9C,GL;5A5Z|<5U4$ M:N%/XMVM9<-%?
%17_"JBJ<$^FJSNT9I33_SRNNN!ZF4Z'_)"8T%<5@7+8=BG MS":-7J@A-;<*9[K5PL9<6O.+FXT7C%LQC/;'BN++"W'3<5S8%,M[M%PB.?+L M5OIQ/^@0(6-N$7
M[%=+@7H\W808)-RQ 2"^P("$K(N];$HRQT.%X%U*#D4XCCW]*$,*ZN,L*"Y(W MSI1X.0$1*W(_HQW1[K<1PC[H1W\
[^!A]^T%^O#MA^_.COU"ZP6K\IP*/4T>4_+FOEPD7*=*I!*;$;8=$2CZM==H="QSHH.+: MK6?#2ZXX*&5(MS]HG@E9*JO8%/6/2%@O?YQ@EFG84JG@3 R80\UH7P+09KQO2<
M?C:B-+ORYW%L3H/6C<>C*^$@#4 W$UM.7[QL-D\]F5$M,J2:)212@ZY'H1-[M2C$GQ0'2$2^0&#-))8=1T:-.9$4C:R!0$GF>%DN-%6T@82]KFQ2)%>G4&4"
#)=HWR5Y4I4SRI/.(M@(MP]AFKH7@.:!)N(6QN%5K4WW+^&=#90P4S;]8QCH;)F11EZ%(RA6"1>POC]YY MY^"U:
[NQWH>&P|XOUM>AZVPPA(#U0VG/^P136/MG.@+RR!":/7^J>1(>OY07 M1AG1B+D\AOQY\592@T!B<+1I1.PC3"VWT2+>XG"UM7P.^_\0T- WHA81Z>TV M"*'3%
MS&WN_RUP_?@G3V?&!:0C4% - 53HZ!.)CG"FK6<3(-$H3>/XGY>_%#"_9 M7$2%"8AY!Z3!$2EC'D23WC;Z_"9HWUW*V-?^',H%=<&8.YXA\8_>8 =Q?$; M&@!,;GM!,.
-#F80$*L_(0A>"<-G)T$/Q>Q-TAU%BD LBLP-Y"EU9LX F,0 M(DKZ0BX+?6[,%502BN0PSG(C)WM72(2$%4@WE'/Q#2@ATZ8Y4&KHZA5;(AEX MA[!D:N>U[+V6AI -
_'KMV6G!!C(1%XK;48/!)}^-H^73IU[)9"E-,KJG5-$[M0C?ZVEA)0*6>TF#WM>F=;_HDI6KRL7<1B>N?^BMP$D67WP#C*E(4JT.=X
M]###Y*]6QSIGO3%###9A/2H"CD)WQG;.T\!0"B,\)V@(V4&<,:]7FQ5?)}PP)9]1U7_!9N& M>4GGKV\9MTSXFGS3F*S6EM8.+54LJ"&SLV^[HG@SK_-
YMCQE+2B_.EBC<0H MG.?_P]Z[-[=N(WG#7X4US]3[9*JZ?STS2;/P8%N?),!T_M]R<2W7R,?:]\L_V&9V^_K2;)DT/M?Z Q MEF@TY>|8BD9E"@D7 05I8Y-SCT] %A-I?Q*
M@D:]>$3EF6=.#!":OQ1S6T;/F!B;$J4%D*>VC)PR,30Q)450O3(,_V@9O?0N MN03[FF9T$',HHF\H28D7=!4Q)RDX3WL#,-ZP?/HQ2N'(2A_ MQDJ4VDX_7[U#)/Q^R=
MP$;&O;9N,<]SY%MN(('?ZTA@Z>K+D=/5QV4BA+#WO%@ Z,:0)R;PR"2D]Z E4QH6I\A+W"\PH%YCX.7XGOH_%"]"._0!"C% M5Z%K7'7BV/R#$IB^\L.78^#NR[[#N3+
<>7L@D1HQR)<'9=F%[S2R3B>.W:-_M^2GXQ?=|_RP,-HE1"PI,QB;Q+'T6-H21U#@-UJ{8J"$$YA5XNOW";UA6#0NJ-M@0>.=?$1XH)Z5\3S@Z %G[R@Z)-2W":.VHH6/"\#+
[XHU-3$\1])W6*PRH?G. M#|%MBG;'KF\>3 M.ECEB>N".8Z+\8VI8Z/0*:XA5$@7XG/+A(Y%7Q*G6(;@"PPH>\+]NHO%1Y]R MZ6P(8Q72!RR0QY?@VH<*.J&W[%MEB8WC''PT?
A2[=:P83J-45P!5\J2 MP>)@Y-2.7B9X5*IDM;I$F6MX5*IDM;I$F6U+QG\GIX/$G5H+0Z^@@RMQP M-$MQ37C4;S<5*HWH 17(:^*H>\%S6 Q@^Q#"C<"C?$C@CQ0Y.VPN'!?T$>
(_@-_ M2:XL] HH9H,[+AW=>2'!A>|''<39PUY-B%F?*J.'4IASPY#-#,\GYSB;KD-D2 M1YV@8XTI0Z^R708FS2n:,S98=Z/>BL5FYD5DLCTLCV)HAXI-L1? R.?C3YW9
M#5&:O:Z^&LR"D;_.$6FS K6@SI-&_WP3Q:S@1D_/F9"A*7A5$S;V21(:WGMZ M6U#^9(QRYN@0/7!1$)AVC&Y3$4$54/(J?$ #@Z%=9X!Z)]C-8^N=KPOP>(MW *A-]M%
<>K_F_Q=*W&.!?GGW?$[U\X^OQ(=]_XAPNGE/\X{2= OCN6*=-_M1,YYPC3>.?5BR9$[E"3_Z>@803:%*TSEW7%&799@\/-D""9K#O95P5;'8:)Q
MF/QI&5]@[X[#3H.H_310YQ]#Q/I4]-)"-_C(N,S??_?]7\;=GH6QU\.JJRM#*YJNQNK-#FRA MWA@POP._Y2GN>#C3Z[5^4 MUL/FR&#%381A*'O[DV4FU#NF"'1L:]7++:F M ;
&)D^G"QE&M!J8JEKUJ+IBXY*6 1;11RPXA*980 .JXA8&<.6A>$H=M'& M</?I+@]XDBBP.D$Y.%\PH#A';B_^(:%@G0':QI. *5Z3[<0"2-#&LM$'MR M-
$K[]_TL72"LV3:5I1L3'V>\-1/4Q584&GKTD7U[M.#!YE."B"P\ M<@4K?DPR[+?1YEL\L)D ED')$LJ;01M1$YR8DY;A_Z"ZQ843&HC0R?9[JK*Y
MP96;,&^"Z.TVQ$K=CD;N'0#Q

M7C_FTDW\!/K3.&]TWH;^KQE:K6HL;!I20CA%5&H GRGH2__0)(0U3;:_E:X M0VF*XA*:9^4"4++,R8D,7&AV^?YI>_1/=]W^MY!SX$U:P30A*I+?I9269 MQQ,*\-]?*MYP=8OI)_T8N&LBF68OY'_J!7UM:RLVS$C:A/9Q:AON,U.%=I]A<93E02U<5;]:]]_3G^0YO']^#1QS^(HU% M.,NI\$6LNN&Z]+-B-2\S;$1AVUN(6\2S)D>),)D3GF)8)T@\ZE:CK]*7MRGY\/GR,P[L&MQ=XS[O%O*+(}\|VPNM:%7+?M*

M:0&1Q(W0}H4LHN;IQ)18XRQLEVVD1DQJKX;H^Q!34=OHU(8%4H+"CD"IBRFP? M9:OD}Z|+-U""*Z78]IB=*4[<9ZC6K_;|!)"7%?> NOCA6N:VT(.N4-^]-/M M59:D^'Z)\X#2)7I%6.\I$IPT%'888?('MWOW?Z.8SS-1O;956]BQ4FQ&E1VE MUWD:NDPO+&A"/_)XHH ^,T33<'H2Q SF);&(4YD)E1_MV$)RE8B[VCQ$35LK M")F[,:2@)? CP\C<+?ZVB0MEP^OU/#^?M50?[1=UX>E+NW3#;X U.WHUY,_6= M&WI!%'L:BEKTL6";:<*]-J7]JD59)0AQ72Q=:IV5A" C=PJ9N[A,<"*]1F MXBD26-/Z39M[64'5A![M-2@N00%>&X% M$NDFBC?(OTHY2DJ59S^"@P<<;]:F^-*@&\W1FDWLU67(4Q%NPK-A$G3:F;6C% M/A-NYC:@B4H!V&T(*\A6H0. Z,UN+42LKF7%<3)ZU-F[A]-4RO.Z\=Z)V=FUL&]-4NEW$_A)M)N]Z-0#Z6=;N"_71A+PH#3L MU[:W@]-!\;"641#<1#*\,,8+COI+TV]B5NE@UJ4L@K*Q+:1WT\]TMO-)L@^>OPFDZ?A0KMBD#JZLKZB4TL&/*-MC)\]T^U[.R .DZ;9[":I1VRO MO\4 MX%O?I:]VI1*LT99:.HP/4EB#1$&*4**/\ ?PJ]);7T&L^+<"9,CY38;.M,1=J.UA!TGAI0Y])SA /HK0,=[7CY*Q8*L#*@O\'XEZQUHK)6F(R8A_*HL(/ MV.20_R"T5.I./@-:P1(=@$11]*@=Y>';H/KD?E@3EJ<#(\A^16!'FL.@6JI.M,:@4YLD(-+:I+R>;.2RHK):0G"$C8[>LM6FUC5%.#N=,.5I!B;BLK)E|!3.PZ';46ZIT+B*(,>ZCV#CEBF.G5^L)++6>A2C0I-F;>"CC;&.=769Q!C&'N6=&H:Q0]28PNBRS)C] M.#DKEHJ#](H335SHO0GE!:UARD3;J*8_0G:?5"M MA]D96,%T)3ZW7D>K:3Z]M!."#J3*K:HGSU8=K%@A&J.SV,R_X(L2RP5 1E]$ M@WL>1OC,Y ;ZX@UOU63K[]4)I]6?K5CM*KJ,',^16KJF/E805B! 2AF!+1 C MJ^VM(((@^?V]?@"U2?X|)>%-AM,%V@F,..Z&\/\?[FA7,E/,/M#M7I%T6&Z6,:=O9"E)-O5),^4(RO:X%+F)L M|"%/6^PZ0$1UN^D)H#'V4 <@A%?,U^_O)OTOT..4^ O+_?N+^C'+>[/_P#> MK#Z2=^-?4%IOQ_<:R(KUDBW.&W>-!-6B=&VG7\LG]_GYH.NZ*7ZSA.,%= (2: MR\'7O5DS8E%E*WD.L"""&49S+]]N;6KQ:G5M]J^LE+V#X<2@8@('S,[RMW[V-> MLZD7C_H-$$&MAYF>? A\9H"'.7L,*2Y.!YG8ONOT9(]!#&'+@(?0DH"'(C?$ M? \67]&/@KC5!-/4MK2"B"'"=:,$0IR6+,B$%5$9)JA|5 0UK!%AJ;VIARW*+Y M|&>M0%8O;J8L-G467&,/*]9(-B1+H2<1(#01@2E-IVG7YT'$M5!+V%X3_1#=;4#33LKUJHO MC@3S-#*\ 3OY(BFNB@=Q&D]=7QY)B+Y=U:B:-71"A(U-MH9_$1'!;^0739WP%MVM(%=E^*N+A^-^H8L=9%6**]<+\ 2P2F 0&2_&WRN+EV &'(NW0#>_I[@S)6&F1Z5>$F M0%G,/!&/*;1+=1#;NH:3;S.&E'CX\/WSRD^#RE8K_V[% 6>QI*4(TEEZY<;Q M =\>6F]BJXY6D"@4_\G])S<(TI%0-8*3O7<3S|PZUN[HT2QA!K;>]%+*-E& M@8?BI#D0H%7'R<\@^%^TI0KQG(KU=F9.CSV+6-K2#E'FLT6,>A16#Y62JF"=3D MK37VLH(X,>E%60M1J!\)BBV5Q$7.1'-N_+!?LO)#*&;/1LO8A+II)CD+BYQR M]FNB5*F/&L@*%L"1]3W?C0]"C5L=(KNVL16D/* 4,#DL5.&*\"X/GQ((Z:"1 ML?"H0$N0P[M>C970?93I]>T?H_@7B V@+H5J8(CTLQ5KQ31]B&*&+ A@XX]^ MNN75.O-P!P@XQ?_G:,#:CQAF^M6"W&$_S34XD@3R@K#.AM10J]T|34\:O#$7 M^_MV4@V5QA)C9Y1;M&]*R1:^2%

*^;_(HQK4*KI$5+%"WF*C6XK6_2?7+9GW8Q7=X:W_0@Z^ULW?K>^DI"4P M/S:QVE_@(LW\9$N7H\;OW]QO:-4 +D&E D!^L",(OWL\MQCM \&HOQ MDSH$5^>Y-6U"G-]{!>7C@Z*;(6\&99K-:"PU #>Q8L/SYJ5\[EfQ@&>Q:\'5J_E&)M M!TVS/2T9VJA8UD8!GT5^\C!JY3CR^"P68"#=M%@%.PM&CJ2:5F/JST2@FM*Q M="'_Y[QI>VA5I>C>,;AHH84_M95SGH8%(+#WC-_G'?NZ&2,LRBV/99CCKG7. MQRALC?"6L(FM_^E-M9+VG/=G2[VI0U;/67!S;*VI76;26;!Z&-VI)C-JQ$M_M91LSCU.@>]5PG4<-^XX.5??LL/-@\?;?I31ZLZWCKFT[.'&41-MSO+F]LT)'93-ICI?QXVP$#)3QIBV9_FH$V'9Q3V\Y6>C[G&V3FG@?W3-YD MX_"4UL?#A,2I39PU[4=BV=EQ@B3?+4-#Y) MK>5-PU(AY]M)%M>Q"]NR&S.JRC$A/N>RW F'H6I M+S;,,'*#HD1R0X6T8<:>#,6LU_2+O;"':WP9Z$&Y!_^,'2)IT(TERJ#AE\4< MRL?D@NIRJG3[M+AY7,Z?Y@^K$Y17+*837SB/>.'7+2_=Q$\(%DB^ $VRXXB!) ,S'U>W#Q\?%W>W5[?SIZSDW3L23_Q*22%)(1"U/K^EL MM^Q\BN>Y+5 ,Z S?W?[/]OKV]5/5PLXM9_FUXO'^9)J'IF[8WN+B/8<<.V74097: #G]{SL2X(II%[@!%$A/ZR279]^D M$^N:3U<6I32CIG.J.V_']6O:$"FI1T_[>SY[I2OU<0F!>]GQSNP4A^NYUCO M?:R?/ZQ.ZR0^QA'6C=+#8P!&3.CEQ0$:CF1SORFK2JJGUOY:{32$'2>X]4*6 MTAP[.J.3C?_+]>DQ8+]XR];9#6-O%/C5B/8 M8G'D)) Z)KSGTR@\K;.^]X+N(O?$+$]>9=#]"&H:3_>^(B(F-KZG]!O;<>+]-J MET$&+%?3?!{!3%7_]NM!,SSYIL.F:SU=)\?L&B'EKT-P5HN>IR9!M(MY%M6. MVO.IU:XQ5R=B7]!O)N_K!8G9K!,.?\U3O)E!.]:[^@!8U/Y5PU-MT?R>-9ARQ-8<+/;9XW)^,U\NY]=/J\75/T!K/#%R/IS5&HTH6M;Q/]!]F*K M6]MQT-2,E[W3&FK?\PD3#A>!??OP++/AP]?CU?%ZRN'S+ML=GY:=;#]%;6DW M6;UZ^N/TL\R'KX?IJ,/T<^>3I.UQ0L=(3_5I0V#W%/ET\0\[#Z MZ7!^VQ@R>EI!MHMT_TT'L&1S MI_GUU>+^@!C^ M/H6*EVQB3Q>Z/Y3%3W16CZ]I M-9!:U'.]<.64V>-K9G\Z0:.B9G)36!FI*TU4\>'$MVF:.=VVQ?MK2&AE3W4 MT&G@P.^;P$^BW>SE'NV>45R:DJ!%)==FC3BL [7CTF<,4R&P2:WH_PG5?]-M&Q95Y$LCC\[.]*R]RO.LBK)(.4O>2!=MW4ZBDNO<#EMK]@BG<@PW185'DS_? M: %(3]%J.2<8TJ/!1VWST@X+.7J>P7LRT.@I'EV3<*.ZI-3)(#[C:>Y.V(\9M>^:\9R5,A7=[BB?6M0C"XIVRW<^/#8E/B,+W*U=C)CL/6$ARN!0_>|^EPiQO\>M .,3Ul *B1@RVUN MP?H ^8\F.,JKB8XSV-.V:^?cPQI/8@=%&@KPELXW\6NJ-W:H>"Y["LN7F/ O+J^NU MTOZ8G$7$7@?0^18'SUQDWN0WLQ;+ZQ2OZ)-"]+IQ_?BS&V1(Y8NZ1RZLCK<(.MEVB-C3_?,$-'J(PYO!)2L9#?I(8*[3>AOZO&6J7+V'FVQ9{E_1YS3,*'#/.M1J$1)OD\E#!1IN]N;'7!8UNB*.8Y 0:VBBGB MNHESS^|=?'=E._]WHQG4XR-VW#{CXAL.N MP]@A>P;=&,W0Y75L/:.WPG:8-):+GR1.A?.%_ZLX6_@_(_+6R];(GY"|\:N_M1HH.36VS885!NXF"$XG-(5$F9=:WG?+9$[9@3%4&/_GE\G"]PO5VY\:_U&3% M-&^K]H7OW?Z.8SRC1 M2"1%(Z.3?'\W6'&79]&51_IV4R:$@(BLW11R&PN\-EBY\5-TY[\B[Q9?H^$+ M/#H+Z#"-'IG& 88N1LI6>Q$B?:KR_VOO39L.8!X133Q(_)88>|=_)*'4F'.[QCZOD] MQDJM$^T.I"86)ED_/(EI1W&F233(ZGM#}U@O838X$(JX*.EG;K)DXI""ZCP-\5#$[+Y=(',@%]$NT5?I.E:12=:=I2H-@/ MU@?]!D-O>JB_7?,>&ZE0SXEYOZ4(E]UX2?,<_]L=QRPSPA7NUARQ_WX+GFI)M*DFM=R2<)!*OQ>K5#H*S_]HCB.LBI2BF!2(&NU'-OH>20669GJ[Y,Y 7X*HF MM_T8CD\(+^5%N$B=*(+V5:!B2WN!!FZ#:4951*\!?,Q0&Z(UD\]N+Q":#Z45[MS2]G+&ABRFCMIZ(HY<;#1++W=]2M2P-]I:,;2=Q'+6*1FII)]3-$IC#W>SNNC MC&V7TDQ1I1XC<$/N[0M^FGB)-((.09H'("'\9!CMA+#1]K(T7Y7:=H.5]P%,:O*MB@!&:,:N'-7^UO5I8=03)DV/-%MA.3O6']"F8_".I2 M+SYD.R0UM#D'O)IG#*1%@#DABI.,/"BE<(!@C>R87F.'DQ]^(*QCX1M'+N/6M^?&(^51#.I.-[GA?I0LTRU@):S^,468%K?(5%^U><1*,=U*;&5X"3>3<:!2" M62L,:K# 48AK5R&1R71'$9_3_O:*WH91!):T1QWK^1]%Y_ZJ2RI[0GOORUN]M:UWB=K".15Z'29}$WFN:T *QX6-X/(8!C6K(25C:J8:!A/F(SGE%^LVO4>A3*C@A\QZOF%-MNM*:C%08W2@+T,O\"YOT,D")WE:E0 MI(-$'6V36FFI2-GQTXL-+%)*WPWWX^!*3<.7569O.NI,T_1HM%NA8\/X61K_B M\WAT3A[6,*<(*W)LHSI[8*^[D6_#,&-K0]BU!U69;CH5VN"%E+5%I8B(!RW M=8BP4?7G6<^>)MO9]&6RWOZ\74_P._J8/:=0WD_V:W1OE@&B64:Y\UO6$]:Y M_&6+_RW&UXU>D%2RJR?O$5(4F99M>PV#!=9I%S02.O91PNV3I&J\=%K'A(.+IV&2U5=Y@B5\BM

<+L'@QOB-MH?5\\%;INN. 4E!&DR4HS1M7CKF9MUT2,"%\XL5SC8(FB7[@@B6>U_53FL4G-M,!Y, ^L$DTU4()>#Q7/E40(!58@(4(2K/-01*W:NQ"$U\M&B"
N*YY1X)LM@KW*+XV;ZLQ4/C#47UA$U_-+JYU*?"JY&#E'$-M_#!.((0A3O_H8[7?>&\|-1 14RJE+%)I+O0]TCFTU(MO2MHK^B#*YPB[6U8+-ME>./F*E-$36U,-N80(RV4
:0#BR|N)N3$R""MBE$\"$4EC6NY;YFNM*JIR"X@;#.[<2-C.S-M-,KT[25*H(F=;9J&7,Q^JSTKXM4*<52K@Z5ZBA7TPD[ZL!?,,;3.PFF4%O=2) M)HE?FF.32!R\J-;Y\1@AUV/WP!D
Q"4>54\0-MD)!E(;%6EX"Y=/-FU+\DEW-M'!TN7=C(&2^.8Q9HC.Z87$=-1$HI@=!_-^*M'UXHT")[C5U.]7-$<&LMS^_/$V6-MV\ER.OOGE\7+\VYYR+33LU?XE(KP":Q(^D>P"EX03T
8/@,0W[AY+E>MK12;8-MXS]'O+K;$!\X7;"Q7)X>4^I34-GYYR[?NK/OS>)+I&AI!I/PI\-#)"=3/5"R-M2>9"SCHC/B;8G2T/G65W8PF%P+5[,X06<[?HB
4OS*E6^SG&G^/_C)QH+-90-MU;E+!3*;/[\A-1\]AD!RL*LQ]"-P0FME^#VT])WPSM."GP;]VP+="S#Q,(Z;9-M9$!XH2J/ZL3)'NN.#8+J.%2!GG/E]B.DR'9O?
6KXR30M=NX6@:X2+Y=?90Y?DR]XN89,E9U*E.&]EL8-4H"-MTD,2LL-&UP)M3!G<.6DWBPF5]L)F@ZNO9=W*?=*$L>$<0TQOU"!31)OGS-1
M/%"B"R.&2C#3/%BBBR$&2S!3^?G*OY)-O.*',?OS?,\)[-2-G-/)"-8A^5/^-MAR-($[H"-1OY$\IGW14\S"?T?&5N!@#YXCQ*1R2H=Q-HC^2-M?XQ-RPV)-K#
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ORGANIZATION Ascent Solar Technologies, Inc. (the “Company”) is focusing on integrating its photovoltaic (“PV”) products into scalable and high value markets such as terrestrial and space power beaming, aerospace, satellites, near earth orbiting vehicles, fixed wing unmanned aerial vehicles (“UAV”), and agrivoltaics. The value proposition of Ascent’s proprietary solar technology not only aligns with the needs of customers in these industries, but also overcomes many of the obstacles other solar technologies face in these unique markets. Ascent has the capability to design and develop finished products for end users in these areas as well as collaborate with strategic partners to design and develop custom integrated solutions for products like fixed-wing UAVs. Ascent sees significant overlap of the needs of end users across some of these industries and can achieve economies of scale in sourcing, development, and production in commercializing products for these customers. On August 14, 2024, the Company effected a reverse stock split of the Company’s common stock at a ratio of one-for-one hundred (the “Reverse Stock Split”). The Company’s common stock began trading on a split-adjusted basis on August 15, 2024. Stockholders also received one whole share of common stock in lieu of a fractional share and no fractional shares were issued. All shares and per share amounts in the unaudited condensed financial statements and accompanying notes have been retroactively adjusted to give effect to the Reverse Stock Split. 100 NOTE 2. BASIS OF PRESENTATION <span style="color:#000000;white-space:pre-wrap;font-size:10pt;font-

family:Times New Roman;min-width:fit-content;">The accompanying, unaudited, condensed financial statements have been derived from the accounting records of the Company as of September 30, 2024, and December 31, 2023, and the results of operations for the three and nine months ended September 30, 2024, and 2023. </p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The accompanying, unaudited, condensed financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and in accordance with the instructions to Form 10-Q and Article 8 of Regulation S-X. Accordingly, these interim financial statements do not include all of the information and footnotes typically found in U.S. GAAP audited annual financial statements. In the opinion of management, all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair statement have been included. The Condensed Balance Sheet at December 31, 2023, has been derived from the audited financial statements as of that date but does not include all of the information and footnotes included in the Company's Annual Report on Form 10-K for the year ended December 31, 2023. These condensed financial statements and notes should be read in conjunction with the financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2023.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Operating results for the three and nine months ended September 30, 2024, are not necessarily indicative of the results that may be expected for the year ending December 31, 2024.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">NOTE 3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The Company's significant accounting policies were described in Note 2 to the audited financial statements included in the Company's Annual Report on Form 10-K for the year ended December 31, 2023. There have been no significant changes to our accounting policies as of September 30, 2024.</p><div><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Revenue Recognition:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Product revenue. The Company recognizes revenue for the sale of PV modules and other equipment sales at a point in time following the transfer of control of such products to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. For module and other equipment sales contracts that contain multiple performance obligations, the Company allocates the transaction price to each performance obligation identified in the contract based on relative standalone selling prices, or estimates of such prices, and recognizes the related revenue as control of each individual product is transferred to the customer.</p></div><div><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">During the three months ended September 30, 2024 and 2023, the Company recognized product revenue of $8,550 and $209,496, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized product revenue of $41,893 and $395,106, respectively. </p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Milestone and engineering revenue. Each milestone and engineering arrangement is a separate performance obligation. The transaction price is estimated using the most likely amount method and revenue is recognized as the performance obligation is satisfied through achieving manufacturing, cost, or engineering targets. During the three months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $20,458, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $60,374, respectively. </p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Government contracts revenue. Revenue from government research and development contracts is generated under terms that are cost plus fee or firm fixed price. The Company generally recognizes this revenue over time using cost-based input methods, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs of the contract. In applying cost-based input methods of revenue recognition, the Company uses the actual costs incurred relative to the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Cost based input methods of revenue recognition are considered a faithful depiction of the Company's efforts to satisfy long-term government research and development contracts and therefore reflect the performance obligations under such contracts. Costs incurred that do not contribute to satisfying the Company's performance obligations are excluded from the input methods of revenue recognition as the amounts are not reflective of transferring control under the contract. Costs incurred towards contract completion may include direct costs plus allowable indirect costs and an allocable portion of the fixed fee. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">No government contract revenue was recognized during the three and nine months ended September 30, 2024 and 2023.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Accounts Receivable. As of September 30, 2024 and December 31, 2023, the Company had an accounts receivable, net balance of $4,275 and $0, respectively. As of September 30, 2024 and December 31, 2023, the Company had an allowance for doubtful accounts of $0 and $0, respectively.</p><div style="font-size:12pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Deferred revenue for the nine months ended September 30, 2024 was as follows: </p><p style="text-indent:3.333%;font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:60.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:71.3%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:26.700000000000003%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Balance as of January 1, 2024</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">935</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Additions</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:bottom;text-

align:center;"> 7,700 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"> Recognized as revenue </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> (7,700 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"> Balance as of September 30, 2024 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">935</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> </table></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Other Assets: Other assets is comprised of the following:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:41.088%;box-sizing:content-box;"></td> <td style="width:3.181%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:20.604%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:3.181%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:27.945999999999998%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30,</p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">December 31,</p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;word-break:break-word;"> <td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Lease security deposit</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 625,000 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"> </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">625,000</p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Spare machine parts</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">603,399</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">603,797</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;word-break:break-word;"> <td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Total Other Assets</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 1,228,399 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;"> </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 1,228,797 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;"> </td> </tr> </table> Other Income/(Expense), net: Other income/(expense), net is comprised as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:50.95%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Three months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> <span style="white-

space:pre-wrap;min-width:fit-content;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td colspan="2" style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Employee retention credit </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Other </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (13,124 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Total Other Income/(Expense), net </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">742,162</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 756,859 </td> <td style="white-space:nowrap;vertical-

align:middle;border-bottom:2.25pt double #fffff03;"> </td> </tr> <tr style="background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Nine months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Employee retention credit </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 769,983 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Other </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> 26,334 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #fffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;">

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Basic EPS has been computed by dividing income available to common stockholders by the weighted-average number of common shares outstanding during the period. Income available to common stockholders has been computed by deducting dividends accumulated for the period on cumulative preferred stock (whether or not earned) and deemed dividends due to down round financings from net income. For the nine months ended September 30, 2023, income available to common stockholders was adjusted for deemed dividends due to down round financings of $11,653,986(See Note 10 in the Company’s Annual Report on Form 10-K for the year ended December 31, 2023). Diluted earnings per share has been computed by dividing income available to common stockholders adjusted on an if-converted basis for the period by the weighted average number of common shares and potentially dilutive common share outstanding (which consist of warrants, options, restricted stock units and convertible securities using the if-converted or treasury stock method to the extent they are dilutive). Approximately 202 thousand and 11 thousand shares of dilutive shares were excluded from the three months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Approximately 128 thousand and 5 thousand shares of dilutive shares were excluded from the nine months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive.</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:60.16%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Three months ended</p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Nine months ended</p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:middle;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30, 2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:middle;text-align:left;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30, 2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Net Loss</p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,909,273 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (11,906,097 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Down round deemed dividend </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"><p style="font-

size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (11,653,986 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Net Loss attributable to common shareholders </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,909,273 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (23,560,083 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Earnings Per Share (Basic and Diluted) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (404.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (6,640.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> </table> Recently Issued Accounting Policies In November 2023, the FASB issued ASU 2023-07, Segment Reporting: Improvement to Reportable Segment Disclosures ("ASU 2023-07"). ASU 2023-07 improves segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment, and contain other disclosure requirements. The amendments in ASU 2023-07 are effective for all public entities for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. Management is evaluating the impact of this ASU on the Company's financial statements. In December 2023, the FASB issued ASU 2023-09, Income Taxes: Improvements to Income Tax Disclosures ("ASU 2023-09"). ASU 2023-09 improves income tax disclosures by requiring public entities annually to (1) disclose specific categories in the rate reconciliation and (2) provide additional information for reconciling items that meet a quantitative threshold. ASU 2023-09 is effective for public entities for annual periods beginning after December 15, 2024. Entities are permitted to early adopt the standard for annual financial statements that have not yet been issued or made available for issuance. Management is evaluating the impact of this ASU on the Company's financial statements. Revenue Recognition: Product revenue. The Company recognizes revenue for the sale of PV modules and other equipment sales at a point in time following the transfer of control of such products to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. For module and other equipment sales contracts that contain multiple performance obligations, the Company allocates the transaction price to each performance obligation identified in the contract based on relative standalone selling prices, or estimates of such prices, and recognizes the related revenue as control of each individual product is transferred to the customer. During the three months ended September 30, 2024 and 2023, the Company recognized product revenue of $8,550 and $209,496, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized product revenue of $41,893 and $395,106, respectively. Milestone and engineering revenue. Each milestone and engineering arrangement is a separate performance obligation. The transaction price is estimated using the most likely amount method and revenue is recognized as the performance obligation is satisfied through achieving manufacturing, cost, or engineering targets. During the three months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $20,458, respectively. During the nine months ended September 30, 2024 and 2023, the Company recognized total milestone and engineering revenue of $0 and $60,374, respectively. Government contracts revenue. Revenue from government research and development contracts is generated under terms that are cost plus fee or firm fixed price. The Company generally recognizes this revenue over time using cost-based input methods, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs of the contract. In applying cost-based input methods of revenue recognition, the Company uses the actual costs incurred relative to the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize. Cost based input methods of revenue recognition are considered a faithful depiction of the Company’s efforts to satisfy long-term government research and development contracts and therefore reflect the performance obligations under such contracts. Costs incurred that do not contribute to satisfying the Company’s performance obligations are excluded from the input methods of revenue recognition as the amounts are not reflective of transferring control under the contract. Costs incurred towards contract completion may include direct costs plus allowable indirect costs and an allocable portion of the fixed fee. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract. No government contract revenue was recognized during the three and nine months ended <span style="color:#000000;white-space:pre-wrap;font-size:10pt;font-

family:Times New Roman;min-width:fit-content;">September 30, 2024 and 2023. Accounts Receivable. As of September 30, 2024 and December 31, 2023, the Company had an accounts receivable, net balance of $4,275 and $0, respectively. As of September 30, 2024 and December 31, 2023, the Company had an allowance for doubtful accounts of $0 and $0, respectively. Deferred revenue for the nine months ended September 30, 2024 was as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:60.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:71.3%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:26.70000000000003%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"> Balance as of January 1, 2024 </td><td style="white-space:nowrap;vertical-align:bottom;"> $</p></td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">935</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Additions</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">7,700</p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Recognized as revenue</p></td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(7,700</p></td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Balance as of September 30, 2024</p></td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td><td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 935 </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> </td></tr></table> Other Assets: Other assets is comprised of the following: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:41.088%;box-sizing:content-box;"></td><td style="width:3.181%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:20.604%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:3.181%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:27.945999999999998%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"><td style="vertical-align:bottom;"> </td><td style="vertical-align:bottom;"> </td><td colspan="2" style="vertical-align:bottom;"> September 30, </td><td style="vertical-align:bottom;"> </td><td style="vertical-align:bottom;"> </td><td colspan="2" style="vertical-align:bottom;"> December 31, </td><td style="vertical-align:bottom;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"><td style="vertical-align:bottom;"> </td><td style="vertical-align:bottom;"> </td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2024 </td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td><td style="vertical-align:bottom;"> </td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2023 </td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td></tr><tr style="height:10pt;word-break:break-word;"><td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"> Lease security deposit </td><td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;"> </td><td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"> $</p></td><td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">625,000</p></td><td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td><td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td><td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 625,000 </td><td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"> Spare machine parts </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 603,399 </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td><td style="white-space:pre-wrap;vertical-align:middle;"> </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-

size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 603,797 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> </tr> <tr style="height:10pt;word-break:break-word;"> <td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"> Total Other Assets </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">1,228,399</p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 1,228,797 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;"> </td> </tr> </table> Other Income/(Expense), net: Other income/(expense), net is comprised as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:50.95%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Three months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td colspan="2" style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Employee retention credit </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 769,983 </td> <td style="white-space:nowrap;vertical-

align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Other </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (13,124 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Total Other Income/(Expense), net </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">742,162</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 756,859 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> </tr> <tr style="background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Nine months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:middle;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-

align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Employee retention credit </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Other </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> 26,334 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (3,124 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Total Other Income/(Expense), net </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">768,496</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 766,859 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> </tr> </table> 8550209496418933951060204580603740000042750000 Deferred revenue for the nine months ended September 30, 2024 was as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:60.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:71.3%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:26.700000000000003%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"> Balance as of January 1, 2024 </td> <td style="white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">935</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Additions</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">7,700</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Recognized as revenue</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(7,700</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Balance as of September 30, 2024</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 935 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> </td> </tr> </table>935770070093 5 Other Assets: Other assets is comprised of the following: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:41.088%;box-sizing:content-box;"></td> <td style="width:3.181%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:20.604%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:3.181%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:27.945999999999998%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-

bottom:0;text-align:center;"> </td> <td colspan="2" style="vertical-align:bottom;"> September 30, </td> <td style="vertical-align:bottom;">   </td> <td style="vertical-align:bottom;">   </td> <td colspan="2" style="vertical-align:bottom;"> December 31, </td> <td style="vertical-align:bottom;">   </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;">   </td> <td style="vertical-align:bottom;">   </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;">   </td> <td style="vertical-align:bottom;">   </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;">   </td> </tr> <tr style="height:10pt;word-break:break-word;"> <td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"> Lease security deposit </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;">   </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">625,000</p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 625,000 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;">   </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Spare machine parts </td> <td style="white-space:pre-wrap;vertical-align:bottom;">   </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">   </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 603,399 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;">   </td> <td style="white-space:pre-wrap;vertical-align:middle;">   </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">   </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 603,797 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;">   </td> </tr> <tr style="height:10pt;word-break:break-word;"> <td style="background-color:#cff0fc;white-space:pre-wrap;vertical-align:top;"> Total Other Assets </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;">   </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $</p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">1,228,399</p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="background-color:#cceeff;white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 1,228,797 </td> <td style="background-color:#cceeff;white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #ffffff03;">   </td> </tr> </table>625000625000603399603797122839912287 Other Income/(Expense), net: Other income/(expense), net is comprised as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:50.95%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.38%;box-sizing:content-box;"></td> <td style="width:2.22%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.924%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;">   </td> <td style="vertical-align:bottom;">   </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Three months ended </td> <td style="vertical-align:bottom;text-align:left;">   </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;">   </td> <td style="vertical-align:middle;">   </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;">   </td> <td style="vertical-align:middle;text-align:left;">   </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;">   </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;">   </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td colspan="2" style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;">   </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;">   </td>

<td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Employee retention credit </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 769,983 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Other </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> (13,124 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Total Other Income/(Expense), net </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">742,162</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 756,859 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> </tr> <tr style="background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="2" style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="8" style="vertical-align:bottom;text-align:left;"> Nine months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p

style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Gain on settlement of liabilities </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">165,548</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Swiss liabilities (Note 6) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 541,021 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Interest income </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 35,593 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - 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Basic EPS has been computed by dividing income available to common stockholders by the weighted-average number of common shares outstanding during the period. Income available to common

stockholders has been computed by deducting dividends accumulated for the period on cumulative preferred stock (whether or not earned) and deemed dividends due to down round financings from net income. For the nine months ended September 30, 2023, income available to common stockholders was adjusted for deemed dividends due to down round financings of $11,653,986 (See Note 10 in the Company's Annual Report on Form 10-K for the year ended December 31, 2023). Diluted earnings per share has been computed by dividing income available to common stockholders adjusted on an if-converted basis for the period by the weighted average number of common shares and potentially dilutive common share outstanding (which consist of warrants, options, restricted stock units and convertible securities using the if-converted or treasury stock method to the extent they are dilutive). Approximately 202 thousand and 11 thousand shares of dilutive shares were excluded from the three months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive. Approximately 128 thousand and 5 thousand shares of dilutive shares were excluded from the nine months period ended September 30, 2024 and 2023, respectively, EPS calculation as their impact is antidilutive.</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:60.16%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Three months ended</p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Nine months ended</p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:middle;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30, 2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:middle;text-align:left;"><p style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">September 30, 2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid 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style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (11,906,097 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Down round deemed dividend </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (11,653,986 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Net Loss attributable to common shareholders </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,909,273 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (23,560,083 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Earnings Per Share (Basic and Diluted) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-

align:center;"> (404.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (6,640.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> </table> 116539862020001100012800050000 Net loss attributable to common shareholders for the three and nine months ended September 30, 2023 was as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:60.16%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:2.82%;box-sizing:content-box;"></td> <td style="width:2.14%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.96%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="3" style="vertical-align:bottom;text-align:left;"> Three months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="3" style="vertical-align:bottom;text-align:left;"> Nine months ended </td> <td style="vertical-align:bottom;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> </td> <td style="vertical-align:middle;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> <td style="vertical-align:middle;text-align:left;"> </td> <td colspan="3" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> September 30, 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Net Loss </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> $</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(1,909,273</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;white-space:pre-wrap;min-width:fit-content;">$ </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (11,906,097 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Down round deemed dividend </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (11,653,986 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Net Loss attributable to common shareholders </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,909,273 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (23,560,083 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Earnings Per Share (Basic and Diluted) </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (404.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> <span style="min-width:fit-

content;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (6,640.00 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> </tr> </table>-1909273-11906097-11653986-1909273-23560083-404-404-6640-6640 Recently Issued Accounting Policies In November 2023, the FASB issued ASU 2023-07, Segment Reporting: Improvement to Reportable Segment Disclosures ("ASU 2023-07"). ASU 2023-07 improves segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment, and contain other disclosure requirements. The amendments in ASU 2023-07 are effective for all public entities for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. Management is evaluating the impact of this ASU on the Company's financial statements. In December 2023, the FASB issued ASU 2023-09, Income Taxes: Improvements to Income Tax Disclosures ("ASU 2023-09"). ASU 2023-09 improves income tax disclosures by requiring public entities annually to (1) disclose specific categories in the rate reconciliation and (2) provide additional information for reconciling items that meet a quantitative threshold. ASU 2023-09 is effective for public entities for annual periods beginning after December 15, 2024. Entities are permitted to early adopt the standard for annual financial statements that have not yet been issued or made available for issuance. Management is evaluating the impact of this ASU on the Company's financial statements. NOTE 4. LIQUIDITY, CONTINUED OPERATIONS, AND GOING CONCERN During the year ended December 31, 2023, the Company sold Series 1B preferred stock and completed a public offering to fund operations. Further discussion of these transactions can be found in Notes 13 and 14 in the Company's Annual Report on Form 10-K for the year ended December 31, 2023. The Company continues to enter into financing arrangements in 2024 to fund operations. The Company currently has limited production capabilities in its Thornton facility and continues to focus on restarting production at industrial scale while continuing its research and development activities to improve its PV products. The Company does not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until it has fully implemented this strategy. During the nine months ended September 30, 2024, the Company used $6,897,159 in cash for operations. Current committed product revenues are not anticipated to result in a positive cash flow position for the next twelve months and although the Company has, as of September 30, 2024, working capital of $1,362,847, Management does not believe cash liquidity is sufficient for the next twelve months and will require additional financing or committed purchase orders. The Company continues to look for ways to expand its production of PV films at industrial scale and to secure long-term contracts for the sale of such output. The Company also continues activities related to securing additional financing through strategic or financial investors, but there is no assurance the Company will be able to raise additional capital on acceptable terms or at all. If the Company's revenues do not increase rapidly, and/or additional financing is not obtained, the Company will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on the Company's future operations. As a result of the Company's recurring losses from operations and the potential need for additional financing to fund its operating and capital requirements, there is uncertainty regarding the Company's ability to maintain liquidity sufficient to operate its business effectively, which raises doubt as to the Company's ability to continue as a going concern. Management cannot provide any assurances that the Company will be successful in accomplishing any of its plans. These unaudited condensed financial statements do not include any adjustments that might be necessary should the Company be unable to continue as a going concern. -68971591362847 NOTE 5. RELATED PARTY TRANSACTIONS In September 2021, the Company and TubeSolar AG ("TubeSolar"), a former significant stakeholder in the Company, entered into a Long-Term and Joint Development Agreement ("JDA") where the Company would provide PV foils for use in TubeSolar's solar modules for agricultural photovoltaic applications. The Company and TubeSolar also jointly established Ascent Solar Technologies Germany GmbH ("Ascent Germany"), in which TubeSolar holds of 30% of the entity. Ascent Germany was established to operate a PV manufacturing facility in Germany that will produce and deliver PV Foils exclusively to TubeSolar. There were no Company contributions to Ascent Germany during the nine months ended September 30, 2024 and 2023. In June, 2023, TubeSolar filed an application for insolvency proceedings with the insolvency court. Since then, there has been no activity under the JDA and minimal activity in Ascent Germany. Management continues to monitor this situation. 0.30 NOTE 6. SWITZERLAND ASSETS On April 17, 2023, the Company entered into an Asset Purchase Agreement (the "Asset Purchase Agreement") with Flisom AG ("Seller"), pursuant to which, among other things, the Company purchased certain assets relating to thin-film photovoltaic manufacture and production from Seller (collectively, the "Assets"). The purchase price paid by the Company was $4,083,926</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> (including <span style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">$1,283,926 of transaction costs). The Company also entered into a sublease agreement allowing the Company to use the manufacturing facility where the Assets are located. During the year ended December 31, 2023, Management concluded that these assets were impaired and recognized an impairment loss of $3,283,715. The remaining carrying value of the Assets, as of December 31, 2023, was $786,000. On April 1, 2024, the Company entered into an agreement with the manufacturing facility landlord ("Landlord") and sold all but one piece of equipment from the Assets to the Landlord for 1 CHF and forgiveness of $221,519 in payables and any potential future claims the manufacturing facility Landlord may have. The carrying value of the Assets sold was $746,000. At March 31, 2024, the Company designated the Assets as assets held for sale as all of the following criteria have been met: (i) a formal commitment to a plan to sell a property has been made and exercised; (ii) the property is available for sale in its present condition; (iii) actions required to complete the sale of the property have been initiated; (iv) sale of the property is probable and we expect the sale will occur within one year; and (v) the property is being actively marketed for sale at a price that is reasonable given its current market value. Assets held for sale were recorded in Property, Plant and Equipment, net in the unaudited condensed balance sheets. Upon designation as an asset held for sale, the Company recorded the carrying value of the property at the lower of its carrying value or its estimated fair value, less estimated costs to sell, and depreciation of the property ceases. As the estimated fair value of $221,519 and the price the Company sold the Assets for is less than their carrying value, the Company recorded an impairment loss of $524,481. Upon completion of the sale, on April 1, 2024, the Company wrote off the remaining carrying value of the Assets and the payables to the Landlord. In September, 2023, Flisom filed for bankruptcy in Switzerland. In February, 2024, the Swiss bankruptcy administrator closed the bankruptcy proceedings due to a lack of assets unless a creditor demands that the bankruptcy proceedings be carried out within the specified period and makes an advance to cover

*the costs. The deadline for creditors to make their demand has lapsed and the bankruptcy proceedings remained closed. As the bankruptcy proceedings are closed, the Company reversed the Swiss liabilities and recognized a gain on extinguishment of liabilities of $541,021 in Other income/(expense) on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024. 2023-04-17408392612839263283715786000On April 1, 2024, the Company entered into an agreement with the manufacturing facility landlord ("Landlord") and sold all but one piece of equipment from the Assets to the Landlord for 1 CHF and forgiveness of $221,519 in payables and any potential future claims the manufacturing facility Landlord may have.2215197460002215195244815410214<p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">NOTE 7. PROPERTY, PLANT AND EQUIPMENT</p><div style="font-size:12pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The following table summarizes property, plant and equipment as of September 30, 2024 and December 31, 2023:</p><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:58.884%;box-sizing:content-box;"></td><td style="width:1.441%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:17.108%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:1.441%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:17.128%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"><td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
September 30,</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
December 31,</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2024</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2023</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Furniture, fixtures, computer hardware and
  computer software</p></td><td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 468,588 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:middle;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> $ </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 468,588 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"> Manufacturing machinery and equipment </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 19,122,828 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:middle;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 20,661,222 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"> Leasehold improvements </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 15,994 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:middle,"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 15,995 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"> Manufacturing machinery and equipment,
  in progress </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 72,508 </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 32,087 </td><td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:top;"> Depreciable property, plant and equipment </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 19,679,918 </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:middle;"> </td><td style="white-space:nowrap;vertical-align:bottom;"> </td><td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 21,177,892 </td><td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New*

Roman;margin-bottom:0;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Less: Accumulated depreciation and amortization </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> (19,429,536 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> (20,131,008 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">) </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="text-indent:10pt;white-space:pre-wrap;vertical-align:top;"> Net property, plant and equipment </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">250,382</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 1,046,884 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> </td> </tr> </table> Depreciation expense for the three months ended September 30, 2024 and 2023 was $16,832 and $18,931, respectively. Depreciation expense for the nine months ended September 30, 2024 and 2023 was $50,923 and $59,570, respectively. Depreciation expense is recorded under “Depreciation and amortization expense” in the unaudited Condensed Statements of Operations.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The following table summarizes property, plant and equipment as of September 30, 2024 and December 31, 2023:</p><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:58.884%;box-sizing:content-box;"></td> <td style="width:1.441%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.108%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.441%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.128%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
September 30,</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
December 31,</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Furniture, fixtures, computer hardware and <br/> computer software</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 468,588 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> $ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 468,588 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Manufacturing machinery and equipment </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 19,122,828 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 20,661,222 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Leasehold improvements </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-

bottom:0;text-align:right;">15,994 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 15,995 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Manufacturing machinery and equipment,
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</table>468588468588191228282066122215994159957250832087196799182117789219429536201310082503821046884168321893150923595704 NOTE 8. OPERATING LEASE The Company's lease is primarily comprised of manufacturing and office space. This lease is classified and accounted for as an operating lease. The building lease term is for 88 months commencing on September 21, 2020 at a rent of $50,000 per month including taxes, insurance and common area maintenance until December 31, 2020. Beginning January 1, 2021, the rent adjusted to $80,000 per month on a triple net basis and shall increase at an annual rate of 3% per annum until December 31, 2027. Effective September 1, 2023, the lease was amended to reduce the rentable square feet from approximately 100,000 to approximately 75,000 square feet and the rent and tenant share of expenses were decreased in proportion to the reduction in the rentable square feet.
As of September 30, 2024 and December 31, 2023, assets and liabilities related to the Company's leases were as follows:
<table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:90.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:59.088%;box-sizing:content-box;"></td> <td style="width:1.68%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:16.777%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.68%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:16.777%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:top;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> <span style="color:#000000;white-space:pre-wrap;font-

weight:bold;min-width:fit-content;">As of
September 30, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> As of
December 31, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Operating lease right-of-use assets, net </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">2,007,001</p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 2,364,672 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Current portion of operating lease liability </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 555,495 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 491,440 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Non-current portion of operating lease liability </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 1,615,945 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 2,043,025 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr></table> During the three months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $190,497 and $236,925, respectively. During the nine months ended September 30, 2024 and 2023, the Company recorded operating lease expense included in selling, general and administrative expenses of $571,492 and $770,836, respectively. </p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Future maturities of the operating lease liability are as follows:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:60.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:64.173%;box-sizing:content-box;"></td> <td style="width:3.461%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:30.366%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Remainder of 2024</p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 192,283 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> 2025 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 792,203 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> 2026 </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 815,969 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> 2027 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> 840,449 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr

style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Total lease payments </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:top;border-bottom:0.5pt solid #000000;text-align:center;"> 2,640,904 </td> <td style="white-space:nowrap;vertical-align:top;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Less amounts representing interest </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> (469,464 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;">) </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Present value of lease liability </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;border-bottom:2.25pt double #000000;"> $ </td> <td style="white-space:pre-wrap;vertical-align:top;border-bottom:2.25pt double #000000;text-align:center;"> 2,171,440 </td> <td style="white-space:nowrap;vertical-align:top;border-bottom:2.25pt double #000000;"> </td> </tr> </table> The remaining weighted average lease term and discount rate of the operating leases is 39 months and 7.0%, respectively. This lease is classified and accounted for as an operating lease. The building lease term is for 88 months commencing on September 21, 2020 at a rent of $50,000 per month including taxes, insurance and common area maintenance until December 31, 2020. Beginning January 1, 2021, the rent adjusted to $80,000 per month on a triple net basis and shall increase at an annual rate of 3% per annum until December 31, 2027.P88M2020-09-21500000800000.03100000750000<p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">As of September 30, 2024 and December 31, 2023, assets and liabilities related to the Company’s leases were as follows:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:90.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:59.088%;box-sizing:content-box;"></td> <td style="width:1.68%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:16.777%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.68%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:16.777%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
September 30, </p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">As of
December 31,</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Operating lease right-of-use assets, net</p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 2,007,001 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> $ </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 2,364,672 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Current portion of operating lease liability </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 555,495 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle,"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 491,440 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Non-current portion of operating lease liability </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 1,615,945 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> </td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"> 2,043,025 </td> <td style="white-space:nowrap;vertical-align:top;"> </td> </tr>

</table>20070012364672555495491440161594520430251904972369255714927708360 Future maturities of the operating lease liability are as follows: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:60.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:64.173%;box-sizing:content-box;"></td> <td style="width:3.461%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:30.366%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ccceff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Remainder of 2024 </td> <td style="white-space:pre-wrap;vertical-align:top;"> </td> <td style="white-space:nowrap;vertical-align:top;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">192,283</p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">2025</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">792,203</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">2026</p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:top;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">815,969</p></td> <td style="white-space:nowrap;vertical-align:top;"><p 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style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Total lease payments</p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:top;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">2,640,904</p></td> <td style="white-space:nowrap;vertical-align:top;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Less amounts representing interest</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(469,464</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Present value of lease liability</p></td> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:top;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;font-weight:bold;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:top;border-bottom:2.25pt double #000000;text-align:center;"> 2,171,440 </td> <td style="white-space:nowrap;vertical-align:top;border-bottom:2.25pt double #000000;"> </td> </tr> </table>19228379220381596984044926409044694642171440P39M0.070 NOTE 9. INVENTORIES Inventories, net of reserves, consisted of the following at September 30, 2024 and December 31, 2023:   <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:52.74%;box-sizing:content-box;"></td> <td style="width:1.88%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:19.740000000000002%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.88%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:19.76%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;text-align:left;"> </td> <td style="vertical-align:bottom;text-align:left;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> As of
September 30, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> As of
December 31, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Raw materials </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">457,381</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New

Roman;margin-bottom:0;text-align:right;">445,721 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Work in process </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 515 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,775 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Finished goods </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Total </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">457,896</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"> 447,496 </td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"> </td> </tr> </table> Inventories, net of reserves, consisted of the following at September 30, 2024 and December 31, 2023: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:52.74%;box-sizing:content-box;"></td> <td style="width:1.88%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:19.740000000000002%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.88%;box-sizing:content-box;"></td> <td style="width:19.76%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;text-align:left;"> </td> <td style="vertical-align:bottom;text-align:left;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> As of</br>September 30, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> As of</br>December 31, </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;text-align:left;"> <td style="vertical-align:bottom;"> </td> <td style="vertical-align:bottom;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> 2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Raw materials </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">457,381</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td 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Roman;margin-bottom:0;text-align:right;">-</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">-</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:0.5pt solid #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Total</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">457,896</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">447,496</p></td> <td style="white-space:nowrap;vertical-align:bottom;border-bottom:2.25pt double #000000;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr></table>4573814457215151775457896447496<p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;">NOTE 10. BRIDGE LOAN</p><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><div style="font-size:10pt;font-family:Times New Roman;"> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:85.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:15.966%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal
Balance
1/1/2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">New loans</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal Payments</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal
Balance
9/30/2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Discount</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Bridge Loan, net of discount</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ceceff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Bridge Loans</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">—</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">1,240,800</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(904,803</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">335,997</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(20,253</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">315,744</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> </table></div><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">On February 27, 2024, the Company entered into a loan agreement ("Loan 1") with a lender ("Lender") for an aggregate principal amount of $375,000. The Company paid origination fees of $25,000 for net proceeds of $350,000. The discount is recorded as interest expense ratably over the term of the loan. Under Loan 1, the Company will make weekly payments of </p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">$19,420 for 28 weeks for a total repayment of $543,750. The Company also had an early repayment option where the Company would repay an aggregate of $478,125 if repaid by April 15, 2024. </p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">On April 17, 2024, the Company entered into a new loan agreement ("Loan 2") with the Lender. Under Loan 2, the

*Company borrowed an aggregate principal amount of $685,000, incurred origination fees of $34,250, and repaid the outstanding balance of Loan 1 of $428,310 for net proceeds of $222,440. Under Loan 2, the Company will make weekly payments of $31,000 for 32 weeks for a total repayment of $993,250. This loan is secured by a lien on the Company's assets. As of September 30, 2024, principal and interest payable on Loan 2 was $248,953 and $3,451, respectively. The Company also recognized $139,233 and $499,272 in interest expense during the three and nine months ended September 30, 2024, respectively. On April 1 and 2, 2024, the Company closed two loan agreements with a second lender ("Lender 2") for an aggregate principal amount of $180,800. These loans have an original issuance discount of $20,800 for net proceeds of $160,000. The Company will repay a total of $202,496 under these loans. The loans mature on January 1, 2025 and are payable in monthly installments as defined in the loan agreements. Upon a default event, outstanding principal and interest payable is convertible into Company stock at a 25% discount; however, the conversion price cannot be below $25. At September 30, 2024, principal and interest payable on these loans was $87,044 and $0, respectively. The Company also recognized $16,334 and $34,297 in interest expense during the three and nine months ended September 30, 2024, respectively.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The carrying amount of these bridge loans approximate fair value due to its short maturity and because the Company's current borrowing rate does not materially differ from market rates for similar bank borrowings and is considered to be Level 2 input on the fair value hierarchy. </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:85.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:15.966%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.005%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal
Balance
1/1/2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">New loans</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal Payments</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal
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$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 315,744 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr>
</table>01240800094803335997202533157443750002500035000Under Loan 1, the Company will make weekly payments of $19,420 for 28 weeks for a total repayment of $543,750. The Company also had an early repayment option where the Company would repay an aggregate of $478,125 if repaid by April 15, 2024.weekly1942054375047812568500034250428310222440weekly3100099325024895334511392334992721808001808002080020800160000202496 2025-01-01252587044016334342 97<p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;">NOTE 11. OTHER PAYABLE</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">On June 30, 2017, the Company entered into an agreement with a vendor ("Vendor") to convert the balance of their account into a note payable in the amount of $250,000. The note bears interest of 5% per annum and matured on February 28, 2018. On September 25, 2024, the Company entered into a Note Termination and Release Agreement with the Vendor where the Company agreed to a one-time payment of $175,000 in exchange for the termination of the note payable. Upon payment, the remaining note and interest payable were forgiven and the Company recognized a gain on extinguishment of liabilities of $165,548 in Other income/(expense), net on the unaudited Condensed Statements of Operations during the three months ended September 30, 2024.</p>2500000.05175000165548<p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">NOTE 12. CONVERTIBLE NOTES</p><div style="font-size:12pt;font-family:Times New Roman;"><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The following table provides a summary of the activity of the Company's secured, convertible, promissory notes:</p><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:100.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:41.508%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Principal
Balance
12/31/2023</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Notes converted</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Notes paid</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Net Principal
Balance
9/30/2024</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#ccceff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">L1 Capital Global Opportunities Master Fund, Ltd</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">406,667</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(400,000</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(6,667</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">—</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> </table></div><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">During the nine months ended September 30, 2024, $400,000 of principal was converted for 6,184 shares of common stock. The note matured on June 19, 2024 and the Company paid the remaining principal and interest payable. During the nine months ended September 30, 2024 and 2023, the Company had interest expense of $463,397 and $2,070,669, respectively, of which, $19,260 and $1,773,633, respectively was due to accretion of discount on the note. During the three months ended September 30, 2023, the Company had interest expense of $271,162, of which, $231,536 was due to accretion of discount on the note. </p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Conversions Payable represents the economic difference between the applicable conversion price of the notes payable and floor price of $65. This amount is payable either in shares valued as the VWAP on the conversion day or in cash. If the VWAP on the conversion day is less than the floor price, then the economic different between the conversion day VWAP and the floor price becomes payable in cash and is recorded as Cash payable on the unaudited Condensed Balance Sheet. During the nine months ended September 30, 2024, $1,279,782 of conversions payable was converted into 17,934 shares of common stock and </p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">$199,997 of Cash payable. The Cash payable was paid in April 2024 with the close of the Company's public offering (see Note 15).</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The following table provides a summary of the activity of the Company's secured, convertible, promissory notes:</p><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:100.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:41.508%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-

box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:12.623000000000001%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Principal
Balance
12/31/2023 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Notes converted </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Notes paid </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Net Principal
Balance
9/30/2024 </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ceceff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:bottom;"> L1 Capital Global Opportunities Master Fund, Ltd </td> <td style="white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">406,667</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> (400,000 </td> <td style="white-space:nowrap;vertical-align:bottom;">) </td> <td style="white-space:nowrap;vertical-align:bottom;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">(6,667</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">)</p></td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr>
</table>406667400000666740000061844633972070669192601773633271162231536651279782179341999970 NOTE 13. SERIES A PREFERRED STOCK As of January 1, 2024, there were 48,100 shares of Series A Preferred Stock outstanding. Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8% per annum when and if declared by the Board of Directors at its sole discretion. The dividends may be paid in cash or in the form of common stock (valued at 10% below market price, but not to exceed the lowest closing price during the applicable measurement period), at the discretion of the Board of Directors. The dividend rate on the Series A Preferred Stock is indexed to the Company's stock price and subject to adjustment. The Series A Preferred Stock may be converted into shares of common stock at the option of the Company if the closing price of the common stock exceeds $23.2 billion, adjusted for reverse stock splits, for twenty consecutive trading days, or by the holder at any time. The Company has the right to redeem the Series A Preferred Stock at a price of $8.00 per share, plus any accrued and unpaid dividends, plus the make-whole amount (if applicable). At September 30, 2024, the preferred shares were not eligible for conversion to common shares at the option of the Company. The holder of the preferred shares may convert to common shares at any time. After making adjustment for the Company's prior reverse stock splits, all 48,100 outstanding Series A preferred shares are convertible into less than one common share. Upon any conversion (whether at the option of the Company or the holder), the holder is entitled to receive any accrued but unpaid dividends. Except as otherwise required by law (or with respect to approval of certain actions), the Series A Preferred Stock shall have no voting rights. Upon any liquidation, dissolution or winding up of the Company, after payment or provision for payment of debts and other liabilities of the Company, the holders of Series A Preferred Stock shall be entitled to receive, pari passu with any distribution to the holders of common stock of the Company, an amount equal to $8.00 per share of Series A Preferred Stock plus any accrued and unpaid dividends.</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">As of September 30, 2024, there were 48,100 shares of Series A Preferred Stock outstanding and accrued and unpaid dividends of <span style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">$550,879.
481000.080.10232000000008.004810014810055087 NOTE 14. SERIES Z PREFERRED STOCK On June 20, 2024, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with Paul Warley, the Company's Chief Executive Officer (the "Purchaser") pursuant to which it issued and sold one (1) share (the "Share") of the Company's newly designated Series Z Preferred Stock, par value $0.0001 per share (the "Series Z Preferred Stock"), to such Purchaser for an aggregate purchase price of $1,000. The Series Z Preferred Stock is recorded as Accrued Expenses in the unaudited Condensed Balance Sheets. The Share of Series Z Preferred Stock is not convertible into, or exchangeable for, shares of any other class or series of stock or other securities of the Company. The Share of Series Z Preferred Stock has no rights with respect to any distribution of assets of the Company, including upon a liquidation, bankruptcy, reorganization, merger, acquisition, sale, dissolution or winding up of the Company, whether voluntarily or involuntarily. The holder of the Share of Series Z Preferred Stock will not be entitled to receive dividends of any kind. The outstanding share of Series Z Preferred Stock shall be redeemed in whole, but not in part, at any time (i) if such redemption is ordered by the Board of Directors in its sole discretion or (ii) automatically upon the effectiveness of the amendment to the Certificate of Incorporation implementing a reverse stock split. Upon such redemption, the holder of the Series Z Preferred Stock will receive consideration of $1,000 in cash. The Share of Series Z Preferred Stock will have <span style="font-size:10pt;font-family:Times New Roman;color:#000000;white-space:pre-wrap;min-width:fit-

content;">180,000,000 votes and will vote together with the outstanding shares of the Company's common stock as a single class exclusively with respect to any proposal to amend the Company's Certificate of Incorporation to effect a reverse stock split of the Company's common stock. The Share of Series Z Preferred Stock will be voted, without action by the holder, on any such reverse stock split proposal in the same proportion as shares of common stock are voted on such proposal (excluding any common shares that are not voted). The Series Z Preferred Stock otherwise has no voting rights, except as may otherwise be required by the General Corporation Law of the State of Delaware. On August 22, 2024, the Company redeemed the Series Z Preferred Stock and repaid the consideration received. 10.000110001000180000000 NOTE 15. STOCKHOLDERS' EQUITY (DEFICIT) Common Stock At September 30, 2024, the Company had 500 million shares of common stock, $0.0001 par value, authorized for issuance. Each share of common stock has the right to one vote. As of September 30, 2024, the Company had 1,275,429 shares of common stock outstanding. The Company has not declared or paid any dividends related to the common stock during the three or nine months ended September 30, 2024 and 2023. During the nine months ended September 30, 2024, $400,000 of convertible debt principal was converted into 6,184 shares of common stock and $1,279,782 of conversions payable was converted into 17,934 shares of common stock. 3,500 shares of common stock was also issued to settle liabilities. As part of the December 19, 2022 Securities Purchase Contract (the "Purchase Contract") with two institutional investors (the "Investors"), the Company issued to the Investors certain common stock warrants (the "Warrants"). The Warrants have certain "full ratchet" anti-dilution adjustments that are triggered when the Company issues securities with a purchase or conversion, exercise or exchange price that is less than the exercise price of the Warrants then in effect at any time. Under the full ratchet anti-dilution adjustments, if the Company issues new securities at a price lower than the then applicable exercise price, (i) the exercise price is reduced to the lower new issue price and (ii) the number of warrant shares is proportionately increased. The Warrants have been previously adjusted following past issuances of Company securities. As of April 18, 2024, there were approximately 67 thousand Warrants exercisable at an exercise price of $147.27, that were repurchased and cancelled. See below for additional information. On March 6, 2024 and March 7, 2024, the Company entered into Warrant Repurchase Agreements (the "Repurchase Agreements"), with each of the Investors. Pursuant to the Repurchase Agreements, if the Company closes a new capital raising transaction with gross proceeds in excess of $5 million ("Qualified Financing"), the Company will repurchase the Warrants from the Investors for an aggregate purchase price of $3.6 million. Following the delivery of the purchase price to the Investors, the Investors will relinquish all rights, title and interest in the Warrants and assign the same to the Company, and the Warrants will be cancelled. On April 12, 2024, the Company entered into Amended and Restated Warrant Repurchase Agreements (the "Amendments") with each of the Investors. Pursuant to the Amendments, on April 12, 2024, the Company and the Investors agreed to the following: • First Repurchase. On April 12, 2024, the Investors agree to convey, assign and transfer 50% of the Warrants to the Company in exchange for the payment by the Company for an aggregate purchase price of $1.8 million. • Second Repurchase. On or before April 18, 2024, the Investors agree to convey, assign and transfer all remaining Warrants to the Company for an aggregate purchase price of $1.8 million. To extend the repurchase deadline, on April 12, 2024 the Company agreed to issue the Investors approximately 85,500 warrants in aggregate at an exercise price of $11.68 per warrant. These warrants will be exercisable at any time, and from time to time, in whole or in part, commencing six months from the closing of the offering and expiring five and a half (5.5) years from the date of issue, and will be exercisable for cash only unless an effective registration statement is not available at the time of exercise, in which case the warrants could be exercised on a cashless basis. The Company recorded an expense of $743,462 as Warrant settlement expense on the unaudited Condensed Statement of Operations. The expense represents the estimated fair value of the warrants at the issuance date and was determined using the Black Scholes model using the following inputs:
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<td style="width:64.94%;box-sizing:content-box;"></td>
<td style="width:29.9%;box-sizing:content-box;"></td>
<td style="width:5.16%;box-sizing:content-box;"></td>
</tr>
<tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;">
<td style="vertical-align:top;"> </td>
<td colspan="2" style="vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:left;"> Inputs </td>
</tr>
<tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;">
<td style="vertical-align:middle;"> Expected stock price volatility </td>
<td style="vertical-align:middle;text-align:center;"> 154.5 </td>
<td style="vertical-align:middle;"> % </td>
</tr>
<tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;">
<td style="vertical-align:middle;"> Dividend yield </td>
<td style="vertical-align:middle;text-align:center;"> 0 </td>
<td style="vertical-align:middle;"> % </td>
</tr>
<tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;">
<td style="vertical-align:middle;"> Risk-free interest rate </td>
<td style="vertical-align:middle;text-align:center;"> 4.75

</td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Expected life of the warrants (in years) </td> <td style="vertical-align:middle;text-align:center;"> 2.75 </td> <td style="vertical-align:top;"> </td> </tr></table> On April 9, 2024 the Company entered into a placement agency agreement (the "Placement Agent Agreement") with Dawson James Securities Inc. ("Dawson James") pursuant to which the Company engaged Dawson James as the placement agent for a registered public offering by the Company (the "Offering"), of up to $6 million of shares of common stock or, in lieu of common stock, one prefunded warrant to purchase a share of common stock on a best efforts basis. The Company agreed to pay Dawson James a placement agent fee in cash equal to 8.00% of the gross proceeds from the sale of the shares of common stock; provided, however, that the placement agent fee shall equal 4% for investors that the Company directs to the Offering. The Company also agreed to reimburse Dawson James for all reasonable travel and other out-of-pocket expenses, including the reasonable fees of legal counsel, not to exceed $155,000. On April 18, 2024, the Company, completed closings under the Offering of common stock. Aggregate gross proceeds from all closings under the offering total $5.09 million before deducting offering expenses. In the completed closings, the Company issued an aggregate of (i) 151,795 common shares and (ii) 211,623 Pre-Funded Warrants. The Pre-Funded Warrants are immediately exercisable at a price of $0.0001 per share of common stock and only expire when such Pre-Funded warrants are fully exercised. As of September 30, 2024, all 211,623 of the Pre-Funded Warrants were exercised into common stock. The net proceeds from the closings of the Offering were utilized to retire approximately $200,000 of cash payable and $3.6 million to repurchase and cancel the Warrants that were both issued with our secured notes issued in December 2022. The repurchase of these warrants eliminated a substantial potential future issuance of common stock at a substantially reduced price. These warrants would have been adjusted in accordance with their terms to provide for the purchase of approximately 850 thousand shares of the Company's common stock at an exercise price of $11.68 if they had not been repurchased by the Company. On May 16, 2024, the Company entered into an At The Market Offering Agreement (the "ATM Agreement") with H.C. Wainwright & Co., LLC, as sales agent ("Wainwright"), to sell shares of its common stock, par value $0.0001 per share (the "Shares"), having an aggregate sales price of up to $4,219,000, from time to time, through an "at the market offering" program under which Wainwright will act as sales agent. The sales, if any, of the Shares made under the ATM Agreement will be made by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 promulgated under the Securities Act of 1933, as amended (the "Securities Act"), including sales made directly on or through the Nasdaq Capital Market or on any other existing trading market for the Company's common stock. The Company will pay Wainwright a commission rate equal to 3.0% of the aggregate gross proceeds from each sale of Common Stock and will also reimburse Wainwright for certain specified expenses in connection with entering into the ATM Agreement, including certain fees and out-of-pocket expenses of its legal counsel. On May 23, 2024, the Company increased the amount available for sale under the ATM Agreement, up to an additional aggregate offering price of $4,344,000 and on May 30, 2024, the Company again increased the amount available for sale under the ATM Agreement by an additional aggregate offering price of $3,981,000. As of September 30, 2024, the Company sold 637,429 shares of common stock at an average price of $14.90 per share, resulting in aggregate gross proceeds of approximately $9.5 million. The Company anticipates that the at-the-market offering will continue throughout the next reporting period. Preferred Stock At September 30, 2024, the Company had 25 million shares of preferred stock, $0.0001 par value, authorized for issuance. Preferred stock may be issued in classes or series. Designations, powers, preferences, rights, qualifications, limitations and restrictions are determined by the Company's Board of Directors. The following table summarizes the designations, shares authorized, and shares outstanding for the Company's Preferred Stock as of September 30, 2024: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:66.967%;box-sizing:content-box;"></td> <td style="width:1.16%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:13.357%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.16%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:13.357%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> Preferred Stock Series Designation </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New

Roman;margin-bottom:0;text-align:center;">Shares
Authorized </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Shares
Outstanding </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series A </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 750,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 48,100 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series 1A </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 5,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series B-1 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series B-2 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series 1B </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 900 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series C </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series D </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 3,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td 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style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series F </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 7,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series G </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series H </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,500 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series I </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series J </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,350 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series J-1 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series K </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 20,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-

family:Times New Roman;margin-bottom:0;text-align:left;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series Z </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> </table> Warrants As of September 30, 2024, there are approximately 143,000 outstanding warrants with exercise prices between $11.68 and $74,086 per share. Series A Preferred Stock Refer to Note 13 for information on Series A Preferred Stock. Series Z Preferred Stock Refer to Note 14 for information on Series Z Preferred Stock. Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, and K Preferred Stock There were no transactions involving the Series 1A, B-1, B-2, C, D, D-1, E, F, G, H, I, J, J-1, or K during the three and nine months ended September 30, 2024. 5000000000.000111275429400000618412797821793435002670000147.272024-03-062024-03-075000000050000003600000036000000.5018000001800000855011.68P5Y6M743462The expense represents the estimated fair value of the warrants at the issuance date and was determined using the Black Scholes model using the following inputs: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:64.94%;box-sizing:content-box;"></td> <td style="width:29.9%;box-sizing:content-box;"></td> <td style="width:5.16%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:top;"> </td> <td colspan="2" style="vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:left;"> Inputs </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Expected stock price volatility </td> <td style="vertical-align:middle;text-align:center;"> 154.5 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Dividend yield </td> <td style="vertical-align:middle;text-align:center;"> 0 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Risk-free interest rate </td> <td style="vertical-align:middle;text-align:center;"> 4.75 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Expected life of the warrants (in years) </td> <td style="vertical-align:middle;text-align:center;"> 2.75 </td> <td style="vertical-align:top;"> </td> </tr> </table>154.504.752.752024-04-0960000000.080.041550005090000.001517952116230.000121162320000036000008500001 1.680.000142190000.034344000398100063742914.995000002500000000.0001- The following table summarizes the designations, shares authorized, and shares outstanding for the Company's Preferred Stock as of September 30, 2024:   <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:70.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:66.967%;box-sizing:content-box;"></td> <td style="width:1.16%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:13.357%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:1.16%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:13.357%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;"> Preferred Stock Series Designation </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Shares
Authorized </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> Shares
Outstanding </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series A </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 750,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 48,100 </td> <td style="white-space:nowrap;vertical-align:bottom;"><p style="font-

size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series 1A </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 5,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series B-1 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series B-2 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series 1B </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 900 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series C </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series D </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 3,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series D-1 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,500 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series E </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,800 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"><p style="font-size:10pt;margin-top:0;font-

family:Times New Roman;margin-bottom:0;text-align:left;">Series F </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 7,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series G </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series H </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 2,500 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series I </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series J </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,350 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series J-1 </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series K </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 20,000 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr> <tr style="height:10pt;background-color:#cceeff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:top;"> Series Z </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> 1 </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> <td style="white-space:pre-wrap;vertical-align:bottom;text-align:center;"> — </td> <td style="white-space:nowrap;vertical-align:bottom;"> </td> </tr>
</table>75000048100500002000010000900010000300002500028000700002000025000100001350010000200000101430001 1.6874086 NOTE 16. SHARE-BASED COMPENSATION <p style="text-indent:3.333%;font-size:10pt;margin-

top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">In January 2024, the Company granted 4,590 shares of restricted stock units to employees and directors. One third of these shares vested on March 31, 2024. The remaining unvested shares will vest pro rata on January 1, 2025 and January 1, 2026. The Company also granted members of our advisory board an aggregate of 200 shares of restricted stock units. The advisory shares originally vested pro rata on January 1, 2025 and January 1, 2026; however, were amended to vest pro rata on June 30, 2024 and January 1, 2025. The Company had a total of 3,191 unvested units as of September 30, 2024 that are expected to vest in the future. Total unrecognized share-based compensation expense from the remaining unvested restricted stock as of September 30, 2024 was approximately $855,000 and is expected to be recognized over 1.25 years. The following table summarizes non-vested restricted stock and the related activity as of September 30, 2024:</p><p style="text-indent:3.333%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:53.611%;box-sizing:content-box;"></td><td style="width:2.901%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:18.284%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:3.381%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:17.823999999999998%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Shares</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Weighted Average Grant Date Fair Value</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Non-vested at January 1, 2024</p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">19</p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 59,600 </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Granted </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 4,850 </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 75.87 </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Vested </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,658 </td><td style="white-space:nowrap;vertical-align:middle;">) </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 327.03 </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Forfeited </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (20 </td><td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;border-bottom:0.5pt solid #000000;"> 77.00 </td><td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Non-vested at September 30, 2024 </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> <span style="white-space:pre-wrap;min-width:fit-

content;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 3,191 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $ </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 502.35 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> </tr></table>The fair values of the respective vesting dates of RSUs were approximately $7,143 and $269,860 for the nine months ended September 30, 2024 and 2023, respectively. In August 2024, the Company granted 124,850 stock options terminating 10 years from the date of grant to employees, directors, and advisory board members. One third of these options vested on September 15, 2024. The remaining unvested options will vest pro rata on January 1, 2025 and January 1, 2026. The Company had a total of 83,220 unvested options as of September 30, 2024 that are expected to vest in the future. Total unrecognized share based compensation expense from the remaining unvested options as of September 30, 2024 was approximately $345,000 and is expected to be recognized over 2 years. The Company had approximately 41,630 exercisable options as of September 30, 2024. The following table summarizes options activity as of September 30, 2024:</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:51.06%;box-sizing:content-box;"></td> <td style="width:3.1%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:19.38%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:3.56%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:18.9%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Shares</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Weighted Average Exercise Price</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Stock Options Outstanding at January 1, 2024</p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">-</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Granted </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 124,850 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 4.15 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Exercised </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Forfeited / Expired </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:nowrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-

align:right;">- </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #fffff03;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Stock Options Outstanding at September 30, 2024 </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 124,850 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #fffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $ </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 4.15 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #fffff03;"> </td> </tr> </table> The weighted average remaining contractual term for these options at September 30, 2024, was approximately 9.9 years. Based on the Black-Scholes option pricing model, the options estimated weighted average fair values at the date of grant of $4.15 per share. The fair values were estimated using the following weighted average assumptions: </p><div style="font-size:11pt;font-family:'Calibri',sans-serif;"> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:64.573%;box-sizing:content-box;"></td> <td style="width:4.501%;box-sizing:content-box;"></td> <td style="width:26.425%;box-sizing:content-box;"></td> <td style="width:4.501%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:top;"><p style="font-size:11pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Inputs</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Expected stock price volatility</p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">188.87</p></td> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">%</p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Dividend yield</p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">0</p></td> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">%</p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Risk-free interest rate</p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">3.64</p></td> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">%</p></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Expected life of the options (in years)</p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> 5.5</p></td> <td style="vertical-align:top;"><p style="font-size:1pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr> </table> </div><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">The Company utilized the simplified method for estimating the stock options granted as the Company has experienced significant changes in its business and the historical data may not provide a reasonable basis upon which to estimate expected term.</p>45902024-03-312025-01-012026-01-0120002025-01-012026-01-012024-06-302025-01-013191855000P1Y3MThe following table summarizes non-vested restricted stock and the related activity as of September 30, 2024: <div style="font-size:10pt;font-family:Times New Roman;"> <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:53.611%;box-sizing:content-box;"></td> <td style="width:2.901%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:18.284%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:3.381%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> <td style="width:17.823999999999998%;box-sizing:content-box;"></td> <td style="width:1%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Shares</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> <td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Weighted Average Grant Date Fair Value</p></td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #fffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Non-vested at January 1, 2024</p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">19</p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td> <td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 59,600 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Granted </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 4,850 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 75.87 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-

top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Vested </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> (1,658 </td> <td style="white-space:nowrap;vertical-align:middle;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 327.03 </td> <td style="white-space:nowrap;vertical-align:middle;"> </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Forfeited </td> <td style="white-space:pre-wrap;vertical-align:bottom;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> (20 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;">) </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Non-vested at September 30, 2024 </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 3,191 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $</p></td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">502.35</p></td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td> </tr></table></div>19596000485075.871658327.03207773191502.3571432698601248 50P10YOne third of these options vested on September 15, 2024. The remaining unvested options will vest pro rata on January 1, 2025 and January 1, 2026.83220345000P2Y41630The following table summarizes options activity as of September 30, 2024:<p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;"> </p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:51.06%;box-sizing:content-box;"></td><td style="width:3.1%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:19.38%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:3.56%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td><td style="width:18.9%;box-sizing:content-box;"></td><td style="width:1%;box-sizing:content-box;"></td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="vertical-align:bottom;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Shares</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td style="vertical-align:bottom;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td><td colspan="2" style="vertical-align:bottom;border-bottom:0.5pt solid #000000;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">Weighted Average Exercise Price</p></td><td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;text-align:left;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"> </p></td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;">Stock Options Outstanding at January 1, 2024</p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;">-</p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:right;"> </p></td><td style="white-space:nowrap;vertical-align:middle;"><p style="font-size:10pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:left;"><span style="color:#000000;min-width:fit-content;">$ </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Granted </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 124,850 </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> 4.15 </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Exercised </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td><td style="white-space:nowrap;vertical-align:middle;"> </td><td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> - </td><td style="white-space:nowrap;vertical-align:middle;"> </td></tr><tr style="height:10pt;background-color:#ffffff;word-break:break-word;"><td style="white-space:pre-wrap;vertical-align:middle;"> Forfeited / Expired </td><td style="white-space:pre-wrap;vertical-align:bottom;"> </td><td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td><td style="white-space:pre-wrap;vertical-align:middle;border-

bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:center;"> - </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:0.5pt solid #ffffff03;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;"> <td style="white-space:pre-wrap;vertical-align:middle;"> Stock Options Outstanding at September 30, 2024 </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 124,850 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> <td style="white-space:pre-wrap;vertical-align:middle;text-align:center;"> </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #000000;"> $ </td> <td style="white-space:pre-wrap;vertical-align:middle;border-bottom:2.25pt double #000000;text-align:center;"> 4.15 </td> <td style="white-space:nowrap;vertical-align:middle;border-bottom:2.25pt double #ffffff03;"> </td> </tr> </table>1248504.151248504.15P9Y10M24D4.15The fair values were estimated using the following weighted average assumptions: <table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:75.0%;border-collapse:separate;margin-right:auto;"> <tr style="visibility:collapse;"> <td style="width:64.573%;box-sizing:content-box;"></td> <td style="width:4.501%;box-sizing:content-box;"></td> <td style="width:26.425%;box-sizing:content-box;"></td> <td style="width:4.501%;box-sizing:content-box;"></td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:top;"> </td> <td colspan="2" style="vertical-align:middle;border-bottom:0.5pt solid #000000;text-align:left;"> Inputs </td> <td style="vertical-align:bottom;border-bottom:0.5pt solid #ffffff03;"> </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Expected stock price volatility </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> 188.87 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Dividend yield </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> 0 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#cff0fc;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Risk-free interest rate </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> 3.64 </td> <td style="vertical-align:middle;"> % </td> </tr> <tr style="height:10pt;background-color:#ffffff;word-break:break-word;white-space:pre-wrap;"> <td style="vertical-align:middle;"> Expected life of the options (in years) </td> <td style="vertical-align:middle;text-align:center;"> </td> <td style="vertical-align:middle;text-align:center;"> 5.5 </td> <td style="vertical-align:top;"> </td> </tr> </table>1,888700.0364P5Y6M NOTE 17. COMMITMENTS AND CONTINGENCIES On August 15, 2023, Wainwright filed an action against the Company in the New York State Supreme Court in New York County. The complaint alleges a breach by the Company of an investment banking engagement letter entered into in October 2021. The Wainwright engagement letter expired in April 2022 without any financing transaction having been completed. The complaint claims that Wainright is entitled, under a "tail provision", to an 8% fee and 7% warrant coverage on the Company's $15 million secured convertible note financing. The complaint seeks damages of $1.2 million, 22 common stock warrants with a per share exercise price of $60,500, and attorney fees. On May 15, 2024, the Company and Wainwright reached a settlement agreement. The settlement did not have a material impact on our financial statements. The Company is subject to various legal proceedings, both asserted and unasserted, that arise in the ordinary course of business. The Company cannot predict the ultimate outcome of such legal proceedings or in certain instances provide reasonable ranges of potential losses. However, as of the date of this report, the Company believes that none of these claims will have a material adverse effect on its financial position or results of operations. In the event of unexpected subsequent developments and given the inherent unpredictability of these legal proceedings, there can be no assurance that the Company's assessment of any claim will reflect the ultimate outcome, and an adverse outcome in certain matters could, from time to time, have a material adverse effect on the Company's financial position or results of operations in particular quarterly or annual periods.
0.080.071500000012000002260500 NOTE 18. SUBSEQUENT EVENTS Subsequent to September 30, 2024, the Company sold 49,325 shares of common stock under the ATM Agreement at an average price of $2.87 per share, resulting in aggregate gross proceeds of approximately $141,400. On October 17, 2024, the Company entered into a securities purchase agreement with accredited investors for a convertible preferred stock financing for approximately $1.9 million of gross proceeds and will issue approximately 1,900 shares of Series 1C convertible preferred stock ("Series 1C Preferred Stock") at a purchase price of $1,000 per share. Through November 14, 2024, the Company received approximately $665,000 of gross proceeds and will receive the remaining balance during the fourth quarter. The Series 1C Preferred Stock is convertible into common stock at any time after April 17, 2025 at the option of the holder at an initial fixed conversion price of $2.50 per share of common stock; however, the holder may not convert any portion to the extent that the holder would beneficially own more than 4.99<span style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New

Roman;min-width:fit-content;">% of the Company's outstanding shares of Common Stock outstanding immediately after giving effect to the conversion. Holders of the Series 1C Preferred Stock will be entitled to dividends on the per share stated value of $1,000 in the amount of 10% per annum, payable quarterly. The dividend rate will increase to 15% if any of the Series 1C Preferred Stock remains outstanding on or after October 17, 2027. Unless the Company elects to pay dividends on the Series 1C Preferred Stock in cash, the Company will cumulate the dividends, in which case the accrued dividend amount shall be added to the stated value of each share of Series 1C Preferred Stock. If at any time the closing sale price of the Company's common stock equals at least 300% of the conversion price for the most recent 20 consecutive trading days, the Company shall have the right to redeem all, but not less than all, of the Series 1C Preferred Stock then outstanding in cash at a price equal to 110% of the stated value of the shares being redeemed. Upon our liquidation, dissolution or winding up, holders of Series 1C Preferred Stock shall be entitled to receive in cash out of the assets of the Company, before any amount shall be paid to the holders of any of shares of common stock, an amount per share of Series 1C Preferred Stock equal to the greater of (A) 110% of the stated value of such preferred share and (B) the amount per share such holder would receive if such holder converted such preferred share into common stock immediately prior to the date of such payment. On any matter presented to the stockholders of the Company for their action or consideration at any meeting of stockholders of the Company (or by written consent of stockholders in lieu of meeting), each holder of outstanding shares of Series 1C Preferred Stock shall be entitled to cast the number of votes equal to the number of whole shares of common stock into which the outstanding shares of Series 1C Preferred Stock held by such holder are convertible as of the record date (but only after giving effect to the maximum percentage conversion limitations referred to above). Except as provided by law or by the other provisions of the Series 1C Preferred Stock, holders of Series 1C Preferred Stock shall vote together with the holders of common stock as a single class and on an as-converted to common stock basis. 493252.87141400190000019001000665000 2.50.049910000.100.153P20D1.101.10falsefalse