

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned U.S. Large Cap Equity Index Hypothetical Weights for 10/14/2022

Name	Weight
3M COMPANY	0.001507
ABBOTT LABORATORIES	0.004468
ABBVIE INC	0.008022
ABIOMED INC	0.001727
ACCENTURE PLC-CL A	0.006584
ACTIVISION BLIZZARD INC	0.000665
ADOBE INC	0.003947
ADV.AUTO PARTS	0.001764
ADVANCED MICRO DEVICES	0.002861
AFLAC INC	0.002516
AGILENT TECHNOLOGIES INC	0.001710
AIR PRODUCTS & CHEMICALS INC	0.000664
AIRBNB CL A ORD	6.274690
AKAMAI TECHNOLOGIES INC	0.001897
ALCOA CORP	0.001284
ALEXANDRIA REAL ESTATE EQUITIES	0.000698
ALIGN TECHNOLOGY INC	0.001222
ALLSTATE CORP	0.001920
ALLY FINANCIAL INC	0.003254
ALNYLAM PHARMACEUTICALS INC	0.000122
ALPHABET INC C-SHARES	0.019152
ALPHABET INC-CL A	0.018874
AMERICAN EXPRESS CO	0.002653
AMERICAN INTERNATIONAL GROUP INC	0.002928
AMERICAN TOWER CORP	0.001772
AMERICAN WATER WORKS CO INC	0.000664
AMERIPRISE FINL	0.001941
AMERISOURCEBERGEN CORP	0.001820
AMETEK INC	0.000896
AMGEN INC	0.003150
AMPHENOL CORP NEW CL A	0.001907
ANALOG DEVICES INC	0.001117
ANSYS INC	0.000126
AON PLC	0.003363
APOLLO GLOBAL MANAGEMENT INC	0.000547
APPLE INC	0.076532
APPLIED MATERIALS INC	0.003748
ARCH CAPITAL GROUP LTD	0.001509
ARCHER-DANIELS-MIDLAND CO	0.004462
ARISTA NETWORKS INC	0.001923
AT&T	0.003588
AUTODESK INC	0.001125
AUTOMATIC DATA PROCESSING	0.003025
AUTOZONE INC	0.006710
AVALONBAY COMMUNITIES INC	0.000869
AVANTOR INC	0.001103
EVERETT DENNISON CORP	0.000590
BALL CORP	7.070238
BANK OF AMERICA CORP	0.005405
BANK OF NEW YORK MELLON CORP	0.001169
BATH & BODY WORKS INC	0.001893
BAXTER INTL.	0.000959
BECTON DICKINSON AND CO	0.002316
BERKSHIRE HATHAWAY INC-CL B	0.009025
BEST BUY CO INC	0.001455
BIO-TECHNE CORP	0.000468
BIOGEN INC	0.001799
BIOMARIN PHARMACEUTICAL INC	0.000298
BLACKROCK INC	0.000575
BLACKSTONE INC	0.003282
BLOCK INC	0.000731
BOOKING HOLDINGS INC	0.001648
BOSTON PROPERTIES INC	0.001055
BOSTON SCIENTIFIC CORP	0.001421
BRISTOL-MYERS SQUIBB CO	0.006071
BROADCOM INC	0.004553
BROADRIDGE FINL SOLUTIONS I COM	0.000702
BROWN & BROWN INC	0.001389
BROWN-FORMAN CORP-CLASS B	0.001404
BUNGE LTD	0.000441
BURLINGTON STORES INC	0.001358
CADENCE DESIGN SYSTEMS INC	0.002738
CAMDEN PROPERTY TRUST	0.001993
CAPITAL ONE FINL.	0.003540

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Name	Weight
CARDINAL HEALTH INC	0.001548
CARMAX INC	7.908788
CARRIER GLOBAL CORP	0.001214
CATALENT INC	0.000229
CATERPILLAR INC	0.000945
CBRE GROUP INC	0.002545
CDW CORP/DE	0.000852
CELANESE CORP	0.000406
CENTENE	0.004914
CF INDUSTRIES HOLDINGS INC	0.001024
CHARLES RIVER LABORATORIES	0.000830
CHARTER COMMUNICATIONS INC	0.001448
CHIPOTLE MEXICAN GRILL INC	2.093573
CHUBB LTD	0.002384
CHURCH & DWIGHT CO INC	0.001727
CIGNA CORP	0.005649
CINCINNATI FINANCIAL CORP	0.000754
CINTAS CORP	0.001542
CISCO SYSTEMS INC	0.006186
CITIGROUP INC	0.004579
CITIZENS FINANCIAL GROUP INC	0.000472
CLOROX COMPANY	0.002319
CME GROUP INC	0.001508
COCA-COLA CO/THE	0.005076
COGNEX CORP	0.000555
COGNIZANT TECHNOLOGY SOLUTIONS C	0.002840
COLGATE-PALMOLIVE CO	0.003782
COMCAST CORP-CLASS A	0.004939
CONAGRA BRANDS INC	0.001212
CONSTELLATION BRANDS INC CL A	0.001938
COOPER COMPANIES INC	0.000690
COPART INC	0.000124
CORNING INC	0.000964
CORTEVA INC	0.002283
CROWN CASTLE INC	0.001576
CROWN HOLDINGS INC	0.000197
CSX CORP	0.002003
CUMMINS INC	0.000481
CVS HEALTH CORP	0.009832
DANAHER CORP	0.004715
DARDEN RESTAURANTS	0.000485
DATADOG INC	0.000464
DEERE & CO	0.001514
DELL TECHNOLOGIES INC - C	0.000982
DELTA AIR LINES	7.775185
DEXCOM INC	0.000867
DIGITAL REALTY TRUST INC	0.000641
DISCOVER FINANCIAL SERVICES	0.002147
DOCUSIGN INC	0.001406
DOLLAR GENERAL CORP	0.003806
DOLLAR TREE	0.002634
DOMINOS PIZZA INC	0.002237
DOVER CORP	0.000826
DOW INC	0.001372
DUPONT DE NEMOURS INC	0.000366
EBAY INC	0.001713
ECOLAB INC	0.000687
EDISON INTERNATIONAL	0.001954
EDWARDS LIFESCIENCES CORP	0.003501
ELECTRONIC ARTS INC	0.000859
ELEVANCE HEALTH INC	0.005269
ELI LILLY & CO	0.009959
EMERSON ELECTRIC CO	0.000594
ENPHASE ENERGY INC	0.001372
ENTEGRIS INC	0.000139
ENTERGY CORP	0.001421
EPAM SYSTEMS INC	0.000562
EQUINIX INC	0.000587
EQUITY RESIDENTIAL	0.000861
ESSEX PROPERTY TRUST INC	0.001265
ESTEE LAUDER COMPANIES INC	0.002944
ETSY INC	0.001819
EXPEDIA GROUP INC	0.000932
EXPEDITORS INTL WASH INC	0.001388

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Name	Weight
EXTRA SPACE STORAGE INC	0.001816
FACTSET RESEARCH SYSTEMS INC	0.000947
FASTENAL CO	0.003402
FEDEX CORP	0.001987
FIDELITY NATIONAL INFORMATION SE	0.003085
FIFTH THIRD BANCORP	0.000314
FIRST REPUBLIC BANK	0.000309
FISERV INC	0.003245
FLEETCOR TECHNOLOGIES INC	0.001197
FMC CORP	0.000652
FORD MOTOR CO	0.002398
FORTINET INC	0.002167
FREEMPORT-MCMORAN INC	0.000527
GARMIN LTD	0.001174
GARTNER INC	0.003265
GENERAL ELECTRIC CO	0.001820
GENERAL MILLS INC	0.002697
GENUINE PARTS CO	0.004704
GILEAD SCIENCES INC	0.003526
GLOBAL PAYMENTS INC	0.001995
HARTFORD FINANCIAL SERVICES GROU	0.001279
HCA HEALTHCARE INC	0.000640
HEALTHPEAK PROPERTIES INC	0.000914
HERSHEY CO/THE	0.004565
HEWLETT PACKARD ENTERPRISE COMPA	0.004735
HILTON WORLDWIDE HOLDINGS INC	0.000175
HOLOGIC INC	0.002776
HOME DEPOT INC	0.008765
HORIZON THERAPEUTICS PLC	0.000179
HORMEL FOODS CORP	0.001243
HP INC	0.001206
HUBSPOT INC	0.000909
HUMANA INC	0.001779
HUNT J B TRANS SVCS INC	0.000537
HUNTINGTON BANCSHARES INC/OH	0.000258
IDEX CORP	0.001013
IDEXX LABORATORIES INC	0.002716
ILLINOIS TOOL WORKS	0.001515
ILLUMINA INC	4.846841
INGERSOLL-RAND INC	0.000392
INSULET CORP	0.000479
INTEL CORP	0.002785
INTERCONTINENTAL EXCHANGE INC	0.000961
INTERNATIONAL BUSINESS MACHINES	0.006143
INTERNATIONAL PAPER CO	0.000275
INTL FLAVORS & FRAGRANCES	0.000440
INTUIT COM	0.003903
INTUITIVE SURGICAL INC	0.000959
INVITATION HOMES INC	0.001201
IQVIA HOLDINGS INC	0.002008
IRON MTN INC	0.001197
JM SMUCKER CO/THE	0.001271
JOHNSON & JOHNSON	0.015058
JOHNSON CONTROLS INTERNATIONAL P	0.000341
JPMORGAN CHASE & CO	0.009243
KELLOGG CO	0.001834
KEURIG DR PEPPER INC	0.002628
KEYCORP	0.001082
KEYSIGHT TECHNOLOGIES INC	0.003141
KIMBERLY-CLARK CORP	0.001493
KIMCO REALTY CORP	0.000791
KKR & CO INC	0.000306
KLA CORP	0.002120
KRAFT HEINZ CO/THE	0.002199
LABORATORY CRP OF AMER HLDGS	0.003214
LAM RESEARCH CORP	0.002563
LAS VEGAS SANDS CORP	1.430253
LENNAR CORP	0.002068
LIBERTY BROADBAND C	0.000369
LIVE NATION ENTERTAINMENT IN	0.000256
LOWES COS INC	0.004578
LPL FINANCIAL HOLDINGS INC	0.001066
M & T BANK CORP	0.001000
MARKEL CORP	0.001045

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Name	Weight
MARRIOTT INTERNATIONAL -CL A	0.000577
MARSH & MCLENNAN COS	0.003452
MARTIN MARIETTA MATERIALS	0.000443
MARVELL TECHNOLOGY INC	0.000478
MASCO CORP	0.002071
MASTERCARD INC-CLASS A	0.005619
MATCH GROUP INC	0.000794
MCCORMICK & CO-NON VTG SHRS	0.001516
MCDONALDS CORP	0.003526
MCKESSON CORP	0.002355
MEDTRONIC PLC	0.001982
MERCK & CO. INC.	0.007215
META PLATFORMS INC	0.010052
METLIFE INC	0.002617
METTLER-TOLEDO INTL	0.003405
MGM RESORTS INTERNATIONAL	0.002955
MICROCHIP TECHNOLOGY INC	0.001521
MICRON TECHNOLOGY INC	0.003051
MICROSOFT CORP	0.059221
MID-AMERICA APARTMENT COMM	0.001180
MODERNA INC	0.003476
MOLINA HEALTHCARE INC	0.001023
MONDELEZ INTERNATIONAL INC	0.002388
MONOLITHIC POWER SYSTEMS INC	0.001214
MONSTER BEVERAGE CORP	0.002618
MOODYS CORP	0.002259
MORGAN STANLEY	0.001710
MOSAIC CO/THE	0.001258
MOTOROLA SOLUTIONS INC	0.003084
MSCI INC	0.000111
NASDAQ INC	0.001033
NETAPP INC	0.002428
NETFLIX INC	0.000443
NEXTERA ENERGY INC	0.002886
NIKE INC	0.003010
NORFOLK SOUTHERN CORP	0.001400
NORTHERN TRUST CORP	0.000289
NORTONLIFELOCK INC	0.000419
NUCOR CORP	0.003414
NVIDIA CORP	0.008890
NVR INC	0.001264
O REILLY AUTOMOTIVE INC	0.006898
OLD DOMINION FREIGHT LINE INC	0.001401
OMNICOM GROUP	0.000713
ON SEMICONDUCTOR CORPORATION	0.003132
ORACLE CORP	0.001622
OTIS WORLDWIDE CORP	0.002488
PACCAR INC	0.000857
PACK.CORP.OF AM.	0.000608
PALO ALTO NETWORKS INC	0.001465
PARAMOUNT GLOBAL	0.000141
PARKER HANNIFIN CORP	0.001751
PAYCHEX INC	0.001881
PAYPAL HOLDINGS INC.	0.002436
PEPSICO INC	0.007228
PERKINELMER INC	0.001733
PFIZER INC	0.008725
PLUG POWER INC	0.000282
PNC FINANCIAL SERVICES GROUP	0.000943
POOL CORP	0.001820
PPG INDUSTRIES INC	0.000348
PRINCIPAL FINANCIAL GROUP INC	0.002471
PROCTER & GAMBLE CO	0.007603
PROGRESSIVE CORP	0.002245
PROLOGIS INC	0.002131
PRUDENTIAL FINANCIAL INC	0.001977
PUBLIC STORAGE	0.002272
QORVO INC	0.001887
QUALCOMM INC	0.005508
QUEST DIAGNOSTICS INC	0.002704
RAYMOND JAMES FINL.	0.001570
REALTY INCOME CORP	0.001634
REGENERON PHARMACEUTICALS	0.004299
REGIONS FINANCIAL CORP	0.000628

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Name	Weight
REPUBLIC SERVICES INC	0.002483
RESMED INC	0.002131
ROCKWELL AUTOMATION INC	0.000464
ROPER TECHNOLOGIES INC	0.001180
ROSS STORES	0.001510
ROYALTY PHARMA PLC- CL A	0.001278
S&P GLOBAL INC	0.001392
SALESFORCE INC	0.003024
SBA COMMUNICATIONS CORP-CL A	0.001273
SCHWAB (CHARLES) CORP	0.001914
SEAGATE TECHNOLOGY PLC	0.000999
SEAGEN INC	0.000274
SERVICENOW INC	0.001597
SHERWIN-WILLIAMS CO	0.001757
SIMON PROPERTY GROUP INC	0.000734
SKYWORKS SOLUTIONS INC	0.001386
SOUTHWEST AIRLINES CO	0.001441
SPLUNK INC	7.094279
SS&C TECHNOLOGIES HOLDINGS INC	0.002291
STANLEY BLACK & DECKER	0.000243
STARBUCKS CORP	0.000799
STATE STREET CORP	0.000808
STEEL DYNAMICS INC	0.002720
STELLANTIS NV	0.001178
STERIS PLC	0.001212
STRYKER CORP	0.001630
SUN COMMUNITIES INC	0.002026
SYNCHRONY FINANCIAL	0.002827
SYNOPSIS INC	0.001344
SYSCO CORP	0.002568
T ROWE PRICE GROUP INC	0.000822
T-MOBILE US INC	0.002167
TAKE-TWO INTERACTIVE SOFTWARE IN	8.805933
TARGET CORP	0.003580
TELEDYNE TECHNOLOGIES INC	0.000740
TELEFLEX INC	0.000345
TERADYNE INC	0.002083
TEXAS INSTRUMENTS INC	0.004765
THERMO FISHER SCIENTIFIC INC	0.006124
TJX COMPANIES INC	0.004012
TRACTOR SUPPLY COMPANY	0.003465
TRADE DESK INC/THE -CLASS A	6.579352
TRANE TECHNOLOGIES PLC	0.000431
TRANSUNION	0.000151
TRAVELERS COS INC/THE	0.001749
TRIMBLE INC	0.000628
TRUIST FINANCIAL CORP	0.000590
TYLER TECHNOLOGIES INC	0.000123
TYSON FOODS INC	0.003460
UBER TECHNOLOGIES INC	9.744873
UDR INC	0.000724
ULTA SALON COSMETICS & FRAGRANCE	0.005454
UNION PACIFIC CORP	0.002592
UNITED AIRLINES HOLDINGS INC	0.002809
UNITED PARCEL SERVICE-CL B	0.002444
UNITED RENTALS INC	0.000914
UNITEDHEALTH GROUP INC	0.014023
US BANCORP	0.000680
VENTAS INC	0.001378
VERISIGN INC	0.002351
VERISK ANALYTICS INC	0.000746
VERIZON COMMUNICATIONS INC	0.003128
VERTEX PHARMACEUTICALS INC	0.003937
VF CORP	0.000834
VIATRIS INC	0.005846
VICI PROPERTIES INC	0.001434
VISA INC-CLASS A SHARES	0.006078
VMWARE INC-CLASS A	0.001166
VULCAN MATERIALS CO	0.000454
WALGREENS BOOTS ALLIANCE INC	0.003863
WALMART INC	0.009107
WALT DISNEY CO/THE	0.001695
WARNER BROS DISCOVERY INC	0.002938
WASTE MANAGEMENT INC	0.002825

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WATERS CORP	0.002857
WELLS FARGO & CO	0.005238
WELLTOWER INC	0.000951
WEST PHARMACEUTICAL SERVICES INC	0.001169
WESTERN DIGITAL	0.003029
WESTINGHOUSE AIR BRAKE TECHNOLOG	0.001337
WEYERHAEUSER CO	0.002192
WILLIS TOWERS WATSON PLC	0.000822
WORKDAY INC	0.000263
WP CAREY & CO LLC	0.001710
WW GRAINGER INC	0.003381
XYLEM INC	0.000296
YUM! BRANDS	0.001844
ZEBRA TECHNOLOGIES CORP	0.001163
ZENDESK INC	0.000452
ZIMMER BIOMET HOLDINGS INC	0.000730
ZOETIS INC	0.002338
ZOOM VIDEO COMMUNICATIONS INC	0.000796
ZOOMINFO TECHNOLOGIES INC	5.410635

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