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Registration Number: 21112016
Class: 2BSc DS A
R for Analytics
CAC - 1

1. From the package “datasets” use the dataset called EuStockMarkets and assign to a variable “eustock”.
–Contains the daily closing prices of major European stock indices: Germany DAX (Ibis), Switzerland SMI, France CAC, and UK FTSE. The data are sampled in business time, i.e., weekends and holidays are omitted. # We assign the dataset to a variable called “eustock” by simply using an assignment operator and recall the variable

```
eustock <- EuStockMarkets  
eustock
```

```
## Time Series:  
## Start = c(1991, 130)  
## End = c(1998, 169)  
## Frequency = 260  
##      DAX      SMI      CAC      FTSE  
## 1991.496 1628.75 1678.1 1772.8 2443.6  
## 1991.500 1613.63 1688.5 1750.5 2460.2  
## 1991.504 1606.51 1678.6 1718.0 2448.2  
## 1991.508 1621.04 1684.1 1708.1 2470.4  
## 1991.512 1618.16 1686.6 1723.1 2484.7  
## 1991.515 1610.61 1671.6 1714.3 2466.8  
## 1991.519 1630.75 1682.9 1734.5 2487.9  
## 1991.523 1640.17 1703.6 1757.4 2508.4  
## 1991.527 1635.47 1697.5 1754.0 2510.5  
## 1991.531 1645.89 1716.3 1754.3 2497.4  
## 1991.535 1647.84 1723.8 1759.8 2532.5  
## 1991.538 1638.35 1730.5 1755.5 2556.8  
## 1991.542 1629.93 1727.4 1758.1 2561.0  
## 1991.546 1621.49 1733.3 1757.5 2547.3  
## 1991.550 1624.74 1734.0 1763.5 2541.5  
## 1991.554 1627.63 1728.3 1762.8 2558.5  
## 1991.558 1631.99 1737.1 1768.9 2587.9  
## 1991.562 1621.18 1723.1 1778.1 2580.5  
## 1991.565 1613.42 1723.6 1780.1 2579.6  
## 1991.569 1604.95 1719.0 1767.7 2589.3  
## 1991.573 1605.75 1721.2 1757.9 2595.0  
## 1991.577 1616.67 1725.3 1756.6 2595.6  
## 1991.581 1619.29 1727.2 1754.7 2588.8  
## 1991.585 1620.49 1727.2 1766.8 2591.7  
## 1991.588 1619.67 1731.6 1766.5 2601.7  
## 1991.592 1623.07 1724.1 1762.2 2585.4  
## 1991.596 1613.98 1716.9 1759.5 2573.3  
## 1991.600 1631.87 1723.4 1782.4 2597.4  
## 1991.604 1630.37 1723.0 1789.5 2600.6  
## 1991.608 1633.47 1728.4 1783.5 2570.6  
## 1991.612 1626.55 1722.1 1780.4 2569.4  
## 1991.615 1650.43 1724.5 1808.8 2584.9
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## 1991.619 1650.06 1733.6 1820.3 2608.8
## 1991.623 1654.11 1739.0 1820.3 2617.2
## 1991.627 1653.60 1726.2 1820.3 2621.0
## 1991.631 1501.82 1587.4 1687.5 2540.5
## 1991.635 1524.28 1630.6 1725.6 2554.5
## 1991.638 1603.65 1685.5 1792.9 2601.9
## 1991.642 1622.49 1701.3 1819.1 2623.0
## 1991.646 1636.68 1718.0 1833.5 2640.7
## 1991.650 1652.10 1726.2 1853.4 2640.7
## 1991.654 1645.81 1716.6 1849.7 2619.8
## 1991.658 1650.36 1725.8 1851.8 2624.2
## 1991.662 1651.55 1737.4 1857.7 2638.2
## 1991.665 1649.88 1736.6 1864.3 2645.7
## 1991.669 1653.52 1732.4 1863.5 2679.6
## 1991.673 1657.51 1731.2 1873.2 2669.0
## 1991.677 1649.55 1726.9 1860.8 2664.6
## 1991.681 1649.09 1727.8 1868.7 2663.3
## 1991.685 1646.41 1720.2 1860.4 2667.4
## 1991.688 1638.65 1715.4 1855.9 2653.2
## 1991.692 1625.80 1708.7 1840.5 2630.8
## 1991.696 1628.64 1713.0 1842.6 2626.6
## 1991.700 1632.22 1713.5 1861.2 2641.9
## 1991.704 1633.65 1718.0 1876.2 2625.8
## 1991.708 1631.17 1701.7 1878.3 2606.0
## 1991.712 1635.80 1701.7 1878.4 2594.4
## 1991.715 1621.27 1684.9 1869.4 2583.6
## 1991.719 1624.70 1687.2 1880.4 2588.7
## 1991.723 1616.13 1690.6 1885.5 2600.3
## 1991.727 1618.12 1684.3 1888.4 2579.5
## 1991.731 1627.80 1679.9 1885.2 2576.6
## 1991.735 1625.79 1672.9 1877.9 2597.8
## 1991.738 1614.80 1663.1 1876.5 2595.6
## 1991.742 1612.80 1669.3 1883.8 2599.0
## 1991.746 1605.47 1664.7 1880.6 2621.7
## 1991.750 1609.32 1672.3 1887.4 2645.6
## 1991.754 1607.48 1687.7 1878.3 2644.2
## 1991.758 1607.48 1686.8 1867.1 2625.6
## 1991.762 1604.89 1686.6 1851.9 2624.6
## 1991.765 1589.12 1675.8 1843.6 2596.2
## 1991.769 1582.27 1677.4 1848.1 2599.5
## 1991.773 1567.99 1673.2 1843.4 2584.1
## 1991.777 1568.16 1665.0 1843.6 2570.8
## 1991.781 1569.71 1671.3 1833.8 2555.0
## 1991.785 1571.74 1672.4 1833.4 2574.5
## 1991.788 1585.41 1676.2 1856.9 2576.7
## 1991.792 1570.01 1692.6 1863.4 2579.0
## 1991.796 1561.89 1696.5 1855.5 2588.7
## 1991.800 1565.18 1716.1 1864.2 2601.1
## 1991.804 1570.34 1713.3 1846.0 2575.7
## 1991.808 1577.00 1705.1 1836.8 2559.5
## 1991.812 1590.29 1711.3 1830.4 2561.1
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## 1991.819 1572.07 1688.6 1834.8 2514.7
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## 1991.838 1572.58 1679.2 1856.7 2549.5
## 1991.842 1568.09 1673.9 1841.5 2527.8
## 1991.846 1578.21 1683.9 1846.9 2540.9
## 1991.850 1573.94 1688.4 1836.1 2534.2
## 1991.854 1582.06 1693.9 1838.6 2538.0
## 1991.858 1610.18 1720.9 1857.6 2559.0
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## 1991.869 1615.26 1729.7 1846.8 2546.5
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## 1991.877 1626.97 1734.1 1863.2 2546.6
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## 1992.588 1608.49 1798.1 1754.7 2399.6
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## 1992.600 1624.94 1820.3 1798.0 2392.8
## 1992.604 1618.07 1819.6 1793.8 2377.6
## 1992.608 1611.96 1809.6 1777.3 2350.1
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## 1992.646 1530.03 1768.2 1744.2 2365.7
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## 1992.708 1601.50 1872.1 1873.6 2422.1
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## 1992.715 1595.09 1873.4 1859.8 2378.3
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## 1992.723 1600.59 1897.5 1882.9 2567.0
## 1992.727 1566.00 1888.8 1826.1 2560.1
## 1992.731 1557.01 1900.4 1832.8 2586.0
## 1992.735 1542.74 1913.4 1828.9 2580.5
## 1992.738 1536.30 1909.9 1829.5 2621.2
## 1992.742 1510.66 1910.8 1843.5 2601.0
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## 1992.750 1483.83 1880.2 1731.9 2565.5
## 1992.754 1470.09 1878.3 1736.7 2553.0
## 1992.758 1484.78 1885.2 1724.0 2572.3
## 1992.762 1475.41 1867.6 1683.3 2549.7
## 1992.765 1402.34 1788.0 1611.0 2446.3
## 1992.769 1421.49 1820.5 1612.5 2488.4
## 1992.773 1434.61 1858.2 1654.2 2517.1
## 1992.777 1446.32 1870.3 1673.9 2538.8
## 1992.781 1437.65 1878.4 1657.3 2541.2
## 1992.785 1441.57 1881.5 1655.1 2557.2
## 1992.788 1471.64 1893.2 1685.1 2584.7
## 1992.792 1453.95 1889.3 1667.9 2574.7
## 1992.796 1453.79 1877.3 1650.0 2546.6
## 1992.800 1458.02 1884.0 1664.2 2563.9
## 1992.804 1479.59 1904.7 1679.1 2562.2
## 1992.808 1504.89 1922.7 1731.3 2617.0
## 1992.812 1496.54 1908.5 1722.2 2645.7
## 1992.815 1511.00 1911.4 1730.7 2658.1
## 1992.819 1528.86 1921.1 1766.4 2669.7
## 1992.823 1534.02 1930.8 1770.7 2661.6
## 1992.827 1536.60 1927.8 1774.5 2669.8
## 1992.831 1508.19 1908.3 1749.9 2650.4
## 1992.835 1493.54 1905.9 1730.9 2642.3
## 1992.838 1489.68 1911.1 1742.4 2658.3
## 1992.842 1482.44 1921.6 1742.4 2687.8
## 1992.846 1483.34 1933.6 1786.9 2705.6
## 1992.850 1470.57 1942.0 1804.1 2691.7
## 1992.854 1484.84 1951.5 1804.7 2711.1
## 1992.858 1487.71 1955.7 1793.6 2702.7
## 1992.862 1508.63 1957.4 1786.7 2695.4

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## 1992.869 1509.84 1946.1 1798.5 2696.8
## 1992.873 1542.28 1950.2 1821.5 2726.4
## 1992.877 1541.79 1929.7 1796.8 2697.5
## 1992.881 1542.48 1913.4 1772.7 2679.6
## 1992.885 1550.27 1889.5 1764.4 2679.2
## 1992.888 1550.27 1882.8 1759.2 2704.0
## 1992.892 1543.37 1895.4 1722.3 2706.2
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## 1998.635 5285.78 7447.9 3846.0 5432.8
## 1998.638 5386.94 7607.5 3945.7 5462.2
## 1998.642 5355.03 7552.6 3951.7 5399.5
## 1998.646 5473.72 7676.3 3995.0 5455.0
```

2. Find the class of the data set retrieved. If it is not a data frame class convert this to a data frame. #
We check the class of the variable called “eustock” and it is “mts ts matrix” # so, we convert the data frame from “mts ts matrix” to data frame using as.data.frame() # and assign it to a variable

```
class(eustock)
```

```
## [1] "mts"      "ts"       "matrix"
```

```
eustock <- as.data.frame(eustock)
eustock
```

##		DAX	SMI	CAC	FTSE
## 1		1628.75	1678.1	1772.8	2443.6
## 2		1613.63	1688.5	1750.5	2460.2
## 3		1606.51	1678.6	1718.0	2448.2
## 4		1621.04	1684.1	1708.1	2470.4
## 5		1618.16	1686.6	1723.1	2484.7
## 6		1610.61	1671.6	1714.3	2466.8
## 7		1630.75	1682.9	1734.5	2487.9
## 8		1640.17	1703.6	1757.4	2508.4
## 9		1635.47	1697.5	1754.0	2510.5
## 10		1645.89	1716.3	1754.3	2497.4
## 11		1647.84	1723.8	1759.8	2532.5
## 12		1638.35	1730.5	1755.5	2556.8
## 13		1629.93	1727.4	1758.1	2561.0
## 14		1621.49	1733.3	1757.5	2547.3
## 15		1624.74	1734.0	1763.5	2541.5
## 16		1627.63	1728.3	1762.8	2558.5
## 17		1631.99	1737.1	1768.9	2587.9
## 18		1621.18	1723.1	1778.1	2580.5
## 19		1613.42	1723.6	1780.1	2579.6
## 20		1604.95	1719.0	1767.7	2589.3
## 21		1605.75	1721.2	1757.9	2595.0
## 22		1616.67	1725.3	1756.6	2595.6
## 23		1619.29	1727.2	1754.7	2588.8
## 24		1620.49	1727.2	1766.8	2591.7
## 25		1619.67	1731.6	1766.5	2601.7
## 26		1623.07	1724.1	1762.2	2585.4
## 27		1613.98	1716.9	1759.5	2573.3
## 28		1631.87	1723.4	1782.4	2597.4
## 29		1630.37	1723.0	1789.5	2600.6
## 30		1633.47	1728.4	1783.5	2570.6
## 31		1626.55	1722.1	1780.4	2569.4
## 32		1650.43	1724.5	1808.8	2584.9
## 33		1650.06	1733.6	1820.3	2608.8
## 34		1654.11	1739.0	1820.3	2617.2
## 35		1653.60	1726.2	1820.3	2621.0
## 36		1501.82	1587.4	1687.5	2540.5
## 37		1524.28	1630.6	1725.6	2554.5
## 38		1603.65	1685.5	1792.9	2601.9
## 39		1622.49	1701.3	1819.1	2623.0
## 40		1636.68	1718.0	1833.5	2640.7
## 41		1652.10	1726.2	1853.4	2640.7
## 42		1645.81	1716.6	1849.7	2619.8
## 43		1650.36	1725.8	1851.8	2624.2
## 44		1651.55	1737.4	1857.7	2638.2
## 45		1649.88	1736.6	1864.3	2645.7
## 46		1653.52	1732.4	1863.5	2679.6
## 47		1657.51	1731.2	1873.2	2669.0
## 48		1649.55	1726.9	1860.8	2664.6
## 49		1649.09	1727.8	1868.7	2663.3

## 50	1646.41	1720.2	1860.4	2667.4
## 51	1638.65	1715.4	1855.9	2653.2
## 52	1625.80	1708.7	1840.5	2630.8
## 53	1628.64	1713.0	1842.6	2626.6
## 54	1632.22	1713.5	1861.2	2641.9
## 55	1633.65	1718.0	1876.2	2625.8
## 56	1631.17	1701.7	1878.3	2606.0
## 57	1635.80	1701.7	1878.4	2594.4
## 58	1621.27	1684.9	1869.4	2583.6
## 59	1624.70	1687.2	1880.4	2588.7
## 60	1616.13	1690.6	1885.5	2600.3
## 61	1618.12	1684.3	1888.4	2579.5
## 62	1627.80	1679.9	1885.2	2576.6
## 63	1625.79	1672.9	1877.9	2597.8
## 64	1614.80	1663.1	1876.5	2595.6
## 65	1612.80	1669.3	1883.8	2599.0
## 66	1605.47	1664.7	1880.6	2621.7
## 67	1609.32	1672.3	1887.4	2645.6
## 68	1607.48	1687.7	1878.3	2644.2
## 69	1607.48	1686.8	1867.1	2625.6
## 70	1604.89	1686.6	1851.9	2624.6
## 71	1589.12	1675.8	1843.6	2596.2
## 72	1582.27	1677.4	1848.1	2599.5
## 73	1567.99	1673.2	1843.4	2584.1
## 74	1568.16	1665.0	1843.6	2570.8
## 75	1569.71	1671.3	1833.8	2555.0
## 76	1571.74	1672.4	1833.4	2574.5
## 77	1585.41	1676.2	1856.9	2576.7
## 78	1570.01	1692.6	1863.4	2579.0
## 79	1561.89	1696.5	1855.5	2588.7
## 80	1565.18	1716.1	1864.2	2601.1
## 81	1570.34	1713.3	1846.0	2575.7
## 82	1577.00	1705.1	1836.8	2559.5
## 83	1590.29	1711.3	1830.4	2561.1
## 84	1572.72	1709.8	1831.6	2528.3
## 85	1572.07	1688.6	1834.8	2514.7
## 86	1579.19	1698.9	1852.1	2558.5
## 87	1588.73	1700.0	1849.8	2553.3
## 88	1586.01	1693.0	1861.8	2577.1
## 89	1579.77	1683.9	1856.7	2566.0
## 90	1572.58	1679.2	1856.7	2549.5
## 91	1568.09	1673.9	1841.5	2527.8
## 92	1578.21	1683.9	1846.9	2540.9
## 93	1573.94	1688.4	1836.1	2534.2
## 94	1582.06	1693.9	1838.6	2538.0
## 95	1610.18	1720.9	1857.6	2559.0
## 96	1605.16	1717.9	1857.6	2554.9
## 97	1623.84	1733.6	1858.4	2575.5
## 98	1615.26	1729.7	1846.8	2546.5
## 99	1627.08	1735.6	1868.5	2561.6
## 100	1626.97	1734.1	1863.2	2546.6
## 101	1605.70	1699.3	1808.3	2502.9
## 102	1589.70	1678.6	1765.1	2463.1
## 103	1589.70	1675.5	1763.5	2472.6

## 104	1603.26	1670.1	1766.0	2463.5
## 105	1599.75	1652.2	1741.3	2446.3
## 106	1590.86	1635.0	1743.3	2456.2
## 107	1603.50	1654.9	1769.0	2471.5
## 108	1589.86	1642.0	1757.9	2447.5
## 109	1587.92	1638.7	1754.9	2428.6
## 110	1571.06	1622.6	1739.7	2420.2
## 111	1549.81	1596.1	1708.8	2414.9
## 112	1549.36	1612.4	1722.2	2420.2
## 113	1554.65	1625.0	1713.9	2423.8
## 114	1557.52	1610.5	1703.2	2407.0
## 115	1555.31	1606.6	1685.7	2388.7
## 116	1559.76	1610.7	1663.4	2409.6
## 117	1548.44	1603.1	1636.9	2392.0
## 118	1543.99	1591.5	1645.6	2380.2
## 119	1550.21	1605.2	1671.6	2423.3
## 120	1557.03	1621.4	1688.3	2451.6
## 121	1551.78	1622.5	1696.8	2440.8
## 122	1562.89	1626.6	1711.7	2432.9
## 123	1570.28	1627.4	1706.2	2413.6
## 124	1559.26	1614.9	1684.2	2391.6
## 125	1545.87	1602.3	1648.5	2358.1
## 126	1542.77	1598.3	1633.6	2345.4
## 127	1542.77	1627.0	1699.1	2384.4
## 128	1542.77	1627.0	1699.1	2384.4
## 129	1542.77	1627.0	1722.5	2384.4
## 130	1564.27	1655.7	1720.7	2418.7
## 131	1577.26	1670.1	1741.9	2420.0
## 132	1577.26	1670.1	1765.7	2493.1
## 133	1577.26	1670.1	1765.7	2493.1
## 134	1598.19	1670.1	1749.9	2492.8
## 135	1604.05	1704.0	1770.3	2504.1
## 136	1604.69	1711.8	1787.6	2493.2
## 137	1593.65	1700.5	1778.7	2482.9
## 138	1581.68	1690.3	1785.6	2467.1
## 139	1599.14	1715.4	1833.9	2497.9
## 140	1613.82	1723.5	1837.4	2477.9
## 141	1620.45	1719.4	1824.3	2490.1
## 142	1629.51	1734.4	1843.8	2516.3
## 143	1663.70	1772.8	1873.6	2537.1
## 144	1664.09	1760.3	1860.2	2541.6
## 145	1669.29	1747.2	1860.2	2536.7
## 146	1685.14	1750.2	1865.9	2544.9
## 147	1687.07	1755.3	1867.9	2543.4
## 148	1680.13	1754.6	1841.3	2522.0
## 149	1671.84	1751.2	1838.7	2525.3
## 150	1669.52	1752.5	1849.9	2510.4
## 151	1686.71	1769.4	1869.3	2539.9
## 152	1685.51	1767.6	1890.6	2552.0
## 153	1671.01	1750.0	1879.6	2546.5
## 154	1683.06	1747.1	1873.9	2550.8
## 155	1685.70	1753.5	1875.3	2571.2
## 156	1685.66	1752.8	1857.0	2560.2
## 157	1678.77	1752.9	1856.5	2556.8

##	158	1685.85	1764.7	1865.8	2547.1
##	159	1683.71	1776.8	1860.6	2534.3
##	160	1686.59	1779.3	1861.6	2517.2
##	161	1683.73	1785.1	1865.6	2538.4
##	162	1679.14	1798.2	1864.1	2537.1
##	163	1685.03	1794.1	1861.6	2523.7
##	164	1680.81	1795.2	1876.5	2522.6
##	165	1676.17	1780.4	1865.1	2513.9
##	166	1688.46	1789.5	1882.1	2541.0
##	167	1696.55	1794.2	1912.2	2555.9
##	168	1690.24	1784.4	1915.4	2536.7
##	169	1711.35	1800.1	1951.2	2543.4
##	170	1711.29	1804.0	1962.4	2542.3
##	171	1729.86	1816.2	1976.5	2559.7
##	172	1716.63	1810.5	1953.5	2546.8
##	173	1743.36	1821.9	1981.3	2565.0
##	174	1745.17	1828.2	1985.1	2562.0
##	175	1746.76	1840.6	1983.4	2562.1
##	176	1749.29	1841.1	1979.7	2554.3
##	177	1763.86	1846.3	1983.8	2565.4
##	178	1762.27	1850.0	1988.1	2558.4
##	179	1762.29	1839.0	1973.0	2538.3
##	180	1746.77	1820.2	1966.9	2533.1
##	181	1753.50	1815.2	1976.3	2550.7
##	182	1753.21	1820.6	1993.9	2574.8
##	183	1739.88	1807.1	1968.0	2522.4
##	184	1723.92	1791.4	1941.8	2493.3
##	185	1734.42	1806.2	1947.1	2476.0
##	186	1723.13	1798.7	1929.2	2470.7
##	187	1732.92	1818.2	1943.6	2491.2
##	188	1729.89	1820.5	1928.2	2464.7
##	189	1725.74	1833.3	1922.0	2467.6
##	190	1730.90	1837.1	1919.1	2456.6
##	191	1714.17	1818.2	1884.6	2441.0
##	192	1716.20	1824.1	1896.3	2458.7
##	193	1719.06	1830.1	1928.3	2464.9
##	194	1718.21	1835.6	1934.8	2472.2
##	195	1698.84	1828.7	1923.5	2447.9
##	196	1714.76	1839.2	1943.8	2452.9
##	197	1718.35	1837.2	1942.4	2440.1
##	198	1706.69	1826.7	1928.1	2408.6
##	199	1723.37	1838.0	1942.0	2405.4
##	200	1716.18	1829.1	1942.7	2382.7
##	201	1738.78	1843.1	1974.8	2400.9
##	202	1737.41	1850.5	1975.4	2404.2
##	203	1714.77	1827.1	1907.5	2393.2
##	204	1724.24	1829.1	1943.6	2436.4
##	205	1733.77	1848.0	1974.1	2572.6
##	206	1729.96	1840.5	1963.3	2591.0
##	207	1734.46	1853.8	1972.3	2600.5
##	208	1744.35	1874.1	1990.7	2640.2
##	209	1746.88	1871.3	1978.2	2638.6
##	210	1746.88	1871.3	1978.2	2638.6
##	211	1746.88	1871.3	1978.2	2638.6

##	212	1747.47	1860.5	1980.4	2625.8
##	213	1753.10	1874.7	1983.7	2607.8
##	214	1745.17	1880.1	1978.1	2609.8
##	215	1745.72	1874.7	1984.9	2643.0
##	216	1742.92	1875.6	1995.7	2658.2
##	217	1731.68	1859.5	2006.6	2651.0
##	218	1731.18	1874.2	2036.7	2664.9
##	219	1728.09	1880.1	2031.1	2654.1
##	220	1728.09	1880.1	2031.1	2659.8
##	221	1731.29	1907.7	2041.6	2659.8
##	222	1733.82	1920.5	2046.9	2662.2
##	223	1745.78	1937.3	2047.2	2698.7
##	224	1752.57	1936.8	2063.4	2701.9
##	225	1748.13	1949.1	2063.4	2725.7
##	226	1750.70	1963.7	2077.5	2737.8
##	227	1747.91	1950.8	2063.6	2722.4
##	228	1745.79	1953.5	2053.2	2720.5
##	229	1735.34	1945.0	2017.0	2694.7
##	230	1719.92	1921.1	2024.0	2682.6
##	231	1763.59	1939.1	2051.6	2703.6
##	232	1766.76	1928.0	2023.1	2700.6
##	233	1785.40	1933.4	2030.8	2711.9
##	234	1783.56	1925.7	2016.8	2702.0
##	235	1804.42	1931.7	2045.1	2715.0
##	236	1812.33	1928.7	2046.3	2715.0
##	237	1799.51	1924.5	2029.6	2704.6
##	238	1792.80	1914.2	2014.1	2698.6
##	239	1792.80	1914.2	2014.1	2694.2
##	240	1806.36	1920.6	2033.3	2707.6
##	241	1798.23	1923.3	2017.4	2697.6
##	242	1800.62	1930.4	2024.9	2705.9
##	243	1786.19	1915.2	1992.6	2680.9
##	244	1791.35	1916.9	1994.9	2681.9
##	245	1789.05	1913.8	1981.6	2668.5
##	246	1789.05	1913.8	1981.6	2645.8
##	247	1784.71	1899.7	1962.2	2635.4
##	248	1789.45	1888.0	1953.7	2636.1
##	249	1779.74	1868.8	1928.8	2614.1
##	250	1786.97	1879.9	1928.3	2603.7
##	251	1773.25	1865.7	1918.1	2593.6
##	252	1781.62	1881.3	1931.4	2616.3
##	253	1773.75	1873.1	1908.8	2598.4
##	254	1773.75	1862.5	1891.8	2562.7
##	255	1776.34	1869.3	1913.9	2584.8
##	256	1770.72	1846.9	1885.8	2550.3
##	257	1772.39	1847.1	1895.8	2560.6
##	258	1762.55	1838.3	1899.6	2532.6
##	259	1764.35	1845.8	1920.3	2557.3
##	260	1752.83	1835.5	1915.3	2534.1
##	261	1755.98	1846.6	1907.3	2515.8
##	262	1754.95	1854.8	1900.6	2521.2
##	263	1759.90	1845.3	1880.9	2493.9
##	264	1759.84	1854.5	1873.5	2476.1
##	265	1776.50	1870.5	1883.6	2497.1

##	266	1769.98	1862.6	1868.5	2469.0
##	267	1766.98	1856.6	1879.1	2493.7
##	268	1752.29	1837.6	1847.8	2472.6
##	269	1760.17	1846.7	1861.8	2497.9
##	270	1750.32	1856.5	1859.4	2490.8
##	271	1731.44	1841.8	1859.4	2478.3
##	272	1735.51	1835.0	1859.4	2484.0
##	273	1733.84	1844.4	1853.3	2486.4
##	274	1730.78	1838.9	1851.2	2483.4
##	275	1699.46	1805.6	1801.8	2431.9
##	276	1652.71	1756.6	1767.9	2403.7
##	277	1654.09	1786.1	1762.7	2415.6
##	278	1636.81	1757.1	1727.5	2387.9
##	279	1622.81	1762.8	1734.6	2399.5
##	280	1613.36	1756.8	1734.6	2377.2
##	281	1617.78	1761.9	1755.4	2348.0
##	282	1617.18	1778.5	1769.0	2373.4
##	283	1637.62	1812.7	1801.6	2423.2
##	284	1622.20	1806.1	1782.6	2411.6
##	285	1608.49	1798.1	1754.7	2399.6
##	286	1605.11	1794.9	1784.4	2420.2
##	287	1609.61	1805.4	1787.6	2407.5
##	288	1624.94	1820.3	1798.0	2392.8
##	289	1618.07	1819.6	1793.8	2377.6
##	290	1611.96	1809.6	1777.3	2350.1
##	291	1578.95	1799.9	1755.2	2325.7
##	292	1561.39	1800.3	1737.8	2309.6
##	293	1547.87	1793.3	1730.1	2303.1
##	294	1548.63	1784.8	1722.4	2318.0
##	295	1560.16	1791.7	1753.5	2356.8
##	296	1554.76	1800.2	1757.3	2376.1
##	297	1531.87	1788.6	1736.7	2354.7
##	298	1526.14	1775.7	1734.2	2363.5
##	299	1509.03	1753.5	1724.2	2359.4
##	300	1530.03	1768.2	1744.2	2365.7
##	301	1484.97	1727.9	1689.7	2311.1
##	302	1464.03	1709.6	1667.7	2281.0
##	303	1475.11	1704.6	1667.8	2285.0
##	304	1516.12	1740.6	1687.6	2311.6
##	305	1519.69	1745.7	1687.5	2312.6
##	306	1529.97	1751.7	1684.9	2312.6
##	307	1516.44	1747.3	1674.2	2298.4
##	308	1515.53	1757.8	1711.4	2313.0
##	309	1543.89	1774.2	1780.5	2381.9
##	310	1534.72	1774.4	1779.0	2362.2
##	311	1538.66	1788.3	1779.3	2372.2
##	312	1536.71	1788.0	1763.7	2337.7
##	313	1523.83	1779.1	1756.8	2327.5
##	314	1527.10	1792.8	1774.2	2340.6
##	315	1530.20	1812.0	1802.0	2370.9
##	316	1601.50	1872.1	1873.6	2422.1
##	317	1580.29	1851.4	1836.2	2370.0
##	318	1595.09	1873.4	1859.8	2378.3
##	319	1579.47	1889.6	1852.7	2483.9

## 320	1600.59	1897.5	1882.9	2567.0
## 321	1566.00	1888.8	1826.1	2560.1
## 322	1557.01	1900.4	1832.8	2586.0
## 323	1542.74	1913.4	1828.9	2580.5
## 324	1536.30	1909.9	1829.5	2621.2
## 325	1510.66	1910.8	1843.5	2601.0
## 326	1481.03	1879.2	1770.3	2560.0
## 327	1483.83	1880.2	1731.9	2565.5
## 328	1470.09	1878.3	1736.7	2553.0
## 329	1484.78	1885.2	1724.0	2572.3
## 330	1475.41	1867.6	1683.3	2549.7
## 331	1402.34	1788.0	1611.0	2446.3
## 332	1421.49	1820.5	1612.5	2488.4
## 333	1434.61	1858.2	1654.2	2517.1
## 334	1446.32	1870.3	1673.9	2538.8
## 335	1437.65	1878.4	1657.3	2541.2
## 336	1441.57	1881.5	1655.1	2557.2
## 337	1471.64	1893.2	1685.1	2584.7
## 338	1453.95	1889.3	1667.9	2574.7
## 339	1453.79	1877.3	1650.0	2546.6
## 340	1458.02	1884.0	1664.2	2563.9
## 341	1479.59	1904.7	1679.1	2562.2
## 342	1504.89	1922.7	1731.3	2617.0
## 343	1496.54	1908.5	1722.2	2645.7
## 344	1511.00	1911.4	1730.7	2658.1
## 345	1528.86	1921.1	1766.4	2669.7
## 346	1534.02	1930.8	1770.7	2661.6
## 347	1536.60	1927.8	1774.5	2669.8
## 348	1508.19	1908.3	1749.9	2650.4
## 349	1493.54	1905.9	1730.9	2642.3
## 350	1489.68	1911.1	1742.4	2658.3
## 351	1482.44	1921.6	1742.4	2687.8
## 352	1483.34	1933.6	1786.9	2705.6
## 353	1470.57	1942.0	1804.1	2691.7
## 354	1484.84	1951.5	1804.7	2711.1
## 355	1487.71	1955.7	1793.6	2702.7
## 356	1508.63	1957.4	1786.7	2695.4
## 357	1515.27	1962.3	1798.5	2714.6
## 358	1509.84	1946.1	1798.5	2696.8
## 359	1542.28	1950.2	1821.5	2726.4
## 360	1541.79	1929.7	1796.8	2697.5
## 361	1542.48	1913.4	1772.7	2679.6
## 362	1550.27	1889.5	1764.4	2679.2
## 363	1550.27	1882.8	1759.2	2704.0
## 364	1543.37	1895.4	1722.3	2706.2
## 365	1547.84	1897.9	1724.2	2732.4
## 366	1523.62	1891.5	1674.8	2722.9
## 367	1526.68	1880.1	1720.6	2727.1
## 368	1513.42	1887.0	1721.0	2709.6
## 369	1523.02	1891.4	1739.7	2741.8
## 370	1529.69	1914.6	1749.7	2760.1
## 371	1545.12	1931.2	1771.4	2778.8
## 372	1546.82	1929.2	1792.3	2792.0
## 373	1528.12	1924.3	1783.3	2764.1

## 374	1530.65	1927.0	1799.4	2771.0
## 375	1526.25	1935.0	1781.7	2759.4
## 376	1519.48	1955.4	1788.6	2754.5
## 377	1506.65	1962.2	1765.9	2769.8
## 378	1504.30	1980.7	1791.2	2750.7
## 379	1480.65	1987.7	1769.5	2726.5
## 380	1476.70	1993.7	1758.7	2716.2
## 381	1478.07	2015.7	1738.3	2721.8
## 382	1479.62	2005.0	1744.8	2717.9
## 383	1477.55	2023.9	1736.7	2732.8
## 384	1472.59	2028.5	1735.2	2740.3
## 385	1495.60	2044.9	1760.1	2789.7
## 386	1517.45	2045.8	1786.3	2807.7
## 387	1520.93	2057.3	1824.4	2842.0
## 388	1527.06	2061.7	1821.1	2827.4
## 389	1527.06	2061.7	1854.6	2827.5
## 390	1527.06	2061.7	1854.6	2827.5
## 391	1547.51	2092.3	1857.5	2827.5
## 392	1545.82	2090.1	1870.3	2847.8
## 393	1538.43	2105.4	1858.8	2832.5
## 394	1538.43	2105.4	1857.8	2846.5
## 395	1538.43	2105.4	1857.8	2846.5
## 396	1538.04	2117.7	1843.1	2861.5
## 397	1554.03	2128.2	1850.8	2833.6
## 398	1551.17	2124.7	1859.6	2826.0
## 399	1538.37	2079.9	1844.5	2816.5
## 400	1529.10	2074.9	1852.6	2799.2
## 401	1522.26	2046.4	1814.6	2773.4
## 402	1533.79	2079.8	1796.8	2757.9
## 403	1510.18	2076.7	1782.5	2745.3
## 404	1526.91	2104.5	1803.5	2759.2
## 405	1555.52	2101.3	1827.1	2765.1
## 406	1581.49	2084.0	1837.5	2763.1
## 407	1572.61	2063.9	1837.7	2737.6
## 408	1572.69	2062.7	1818.8	2748.7
## 409	1580.64	2089.9	1812.2	2773.3
## 410	1593.35	2102.9	1820.4	2781.2
## 411	1571.28	2086.0	1779.9	2771.9
## 412	1575.59	2085.9	1792.6	2835.7
## 413	1561.78	2064.1	1777.4	2832.5
## 414	1572.68	2072.7	1780.6	2816.9
## 415	1574.04	2091.0	1772.2	2807.2
## 416	1590.33	2120.2	1785.9	2851.6
## 417	1584.14	2120.4	1787.3	2834.4
## 418	1605.91	2117.6	1824.1	2873.8
## 419	1615.98	2123.7	1854.4	2865.9
## 420	1643.83	2132.2	1908.2	2862.9
## 421	1646.85	2137.0	1904.7	2870.0
## 422	1639.12	2134.8	1894.1	2831.3
## 423	1642.80	2121.4	1893.3	2816.4
## 424	1659.07	2127.5	1905.6	2834.3
## 425	1649.64	2135.5	1912.0	2843.0
## 426	1674.93	2144.8	1899.5	2845.9
## 427	1651.60	2131.0	1878.2	2812.2

## 428	1656.35	2112.9	1905.0	2814.0
## 429	1670.90	2131.3	1926.5	2837.7
## 430	1683.30	2117.8	1937.2	2840.0
## 431	1679.41	2096.1	1959.2	2838.3
## 432	1658.09	2051.5	1944.1	2818.0
## 433	1652.92	2065.7	1953.4	2817.0
## 434	1661.96	2061.0	1944.6	2828.7
## 435	1680.02	2100.6	1983.7	2868.0
## 436	1691.37	2120.5	1998.8	2882.6
## 437	1701.46	2130.9	2001.5	2882.3
## 438	1690.48	2142.4	1995.2	2918.6
## 439	1685.46	2139.5	1986.8	2904.8
## 440	1686.15	2134.6	1995.1	2916.6
## 441	1702.27	2132.2	2004.3	2957.3
## 442	1711.91	2150.1	2009.7	2949.9
## 443	1714.48	2157.0	1992.4	2956.7
## 444	1708.65	2165.0	1988.9	2953.4
## 445	1688.74	2127.2	1965.2	2915.9
## 446	1705.05	2157.2	1986.0	2922.4
## 447	1700.28	2150.8	1975.3	2919.3
## 448	1689.71	2139.1	1967.3	2889.9
## 449	1696.38	2154.7	1963.5	2883.3
## 450	1686.57	2182.4	1962.7	2900.1
## 451	1656.59	2161.3	1939.3	2863.9
## 452	1653.20	2166.3	1952.2	2861.1
## 453	1666.72	2146.8	1954.6	2860.6
## 454	1663.27	2135.7	2001.4	2852.8
## 455	1667.26	2160.9	2025.8	2852.9
## 456	1675.18	2175.7	2033.9	2846.5
## 457	1686.64	2188.9	2035.9	2861.0
## 458	1676.84	2190.3	2031.4	2878.7
## 459	1670.04	2188.4	2005.9	2878.4
## 460	1657.06	2190.3	1990.8	2869.9
## 461	1658.36	2184.0	1974.7	2838.8
## 462	1667.64	2196.0	1995.3	2832.2
## 463	1654.60	2184.9	1984.0	2822.1
## 464	1658.13	2188.3	1986.9	2821.8
## 465	1658.13	2188.3	1986.9	2821.8
## 466	1658.13	2188.3	1986.9	2821.8
## 467	1671.54	2181.7	2018.1	2846.8
## 468	1674.95	2165.7	2015.4	2842.1
## 469	1674.67	2160.5	1988.6	2839.7
## 470	1678.65	2162.9	1986.7	2824.4
## 471	1687.14	2166.3	1968.9	2830.0
## 472	1680.06	2170.8	1949.3	2856.1
## 473	1666.49	2178.1	1931.9	2869.6
## 474	1680.01	2177.3	1944.5	2881.1
## 475	1656.03	2162.3	1916.6	2843.8
## 476	1643.53	2140.4	1911.6	2822.3
## 477	1636.59	2124.7	1927.4	2832.7
## 478	1630.88	2138.2	1942.5	2797.3
## 479	1618.60	2123.2	1920.6	2786.8
## 480	1626.83	2129.7	1939.0	2813.1
## 481	1632.00	2152.8	1937.0	2813.1

## 482	1619.92	2160.0	1923.6	2812.6
## 483	1628.88	2165.8	1926.3	2796.5
## 484	1617.74	2165.4	1920.5	2786.3
## 485	1607.70	2162.6	1878.6	2793.7
## 486	1616.45	2179.1	1877.2	2829.7
## 487	1613.46	2191.1	1854.5	2836.1
## 488	1632.99	2191.5	1872.7	2860.8
## 489	1636.02	2183.3	1879.9	2849.3
## 490	1632.35	2186.3	1851.7	2847.0
## 491	1630.37	2205.2	1835.7	2858.1
## 492	1619.26	2227.2	1846.4	2847.3
## 493	1606.64	2227.0	1836.8	2819.7
## 494	1606.64	2227.0	1836.8	2816.8
## 495	1613.98	2232.9	1836.8	2812.2
## 496	1608.58	2237.4	1861.4	2825.6
## 497	1623.05	2243.5	1891.1	2837.7
## 498	1617.18	2247.5	1890.4	2846.9
## 499	1633.18	2267.1	1904.6	2855.3
## 500	1627.21	2271.6	1888.7	2840.7
## 501	1627.21	2271.6	1888.7	2840.7
## 502	1625.59	2253.8	1872.8	2849.2
## 503	1628.53	2259.8	1875.8	2863.0
## 504	1630.56	2269.0	1867.9	2852.8
## 505	1638.47	2284.2	1859.7	2829.9
## 506	1660.88	2309.7	1887.9	2844.8
## 507	1662.28	2294.5	1893.7	2844.4
## 508	1679.69	2312.5	1915.2	2866.9
## 509	1679.69	2309.2	1911.2	2860.0
## 510	1685.85	2308.6	1920.4	2861.8
## 511	1686.44	2293.8	1916.8	2885.5
## 512	1684.57	2274.0	1897.9	2870.0
## 513	1689.93	2294.6	1918.8	2883.0
## 514	1681.47	2323.4	1900.3	2875.7
## 515	1687.14	2318.0	1910.3	2879.4
## 516	1697.26	2329.5	1929.2	2903.4
## 517	1698.33	2335.0	1935.3	2907.6
## 518	1690.96	2323.9	1942.4	2900.7
## 519	1692.16	2335.8	1963.3	2894.7
## 520	1699.52	2347.3	1960.8	2887.5
## 521	1712.33	2369.8	1991.0	2897.0
## 522	1703.05	2371.9	1977.5	2886.0
## 523	1700.93	2376.2	1971.9	2900.0
## 524	1698.36	2375.5	1960.2	2888.8
## 525	1697.39	2368.8	1941.2	2857.7
## 526	1694.83	2364.4	1925.4	2838.5
## 527	1705.66	2390.9	1935.1	2848.1
## 528	1739.48	2372.0	1943.7	2848.3
## 529	1798.63	2397.1	1980.4	2845.9
## 530	1798.36	2403.0	1985.7	2843.2
## 531	1808.74	2408.7	1992.2	2830.9
## 532	1806.52	2418.1	1991.2	2837.1
## 533	1815.63	2410.5	1991.2	2832.3
## 534	1807.12	2399.9	1963.1	2831.7
## 535	1829.36	2396.4	1974.9	2833.0

##	536	1835.09	2381.8	1981.7	2842.9
##	537	1826.45	2324.5	1968.4	2823.9
##	538	1821.28	2313.7	1947.5	2814.1
##	539	1828.53	2340.2	1965.7	2820.1
##	540	1830.61	2350.5	1995.0	2827.7
##	541	1859.49	2388.7	2006.2	2844.2
##	542	1846.02	2398.0	1998.1	2879.4
##	543	1832.20	2408.7	1989.5	2884.2
##	544	1823.40	2401.5	2036.0	2917.6
##	545	1823.07	2400.9	2085.9	2926.5
##	546	1818.10	2400.7	2129.0	2941.7
##	547	1857.36	2429.8	2110.6	2945.0
##	548	1861.22	2431.5	2101.4	2941.3
##	549	1870.80	2424.9	2115.3	2943.4
##	550	1878.94	2423.3	2149.8	2969.8
##	551	1870.24	2420.5	2138.5	2986.4
##	552	1864.51	2384.5	2139.8	2971.6
##	553	1894.56	2411.1	2167.4	3006.1
##	554	1908.69	2449.5	2161.9	3009.1
##	555	1917.69	2461.0	2148.0	3010.1
##	556	1903.44	2478.7	2148.0	3008.3
##	557	1918.75	2464.9	2136.3	3025.0
##	558	1930.29	2488.0	2160.8	3073.6
##	559	1937.77	2480.6	2139.2	3065.5
##	560	1909.53	2474.5	2128.2	3057.6
##	561	1893.48	2467.3	2111.4	3042.0
##	562	1907.65	2472.4	2123.4	3049.3
##	563	1915.59	2499.7	2159.3	3079.2
##	564	1890.58	2475.2	2173.6	3079.2
##	565	1909.54	2478.6	2183.9	3100.6
##	566	1929.56	2481.0	2205.7	3100.6
##	567	1931.88	2488.5	2216.5	3100.0
##	568	1923.67	2470.4	2191.9	3085.1
##	569	1928.63	2463.8	2185.1	3072.6
##	570	1920.43	2438.8	2156.1	3057.3
##	571	1911.15	2392.5	2158.0	3055.4
##	572	1878.77	2403.4	2137.3	3038.6
##	573	1870.32	2397.9	2129.4	3035.4
##	574	1870.46	2382.1	2108.8	3031.2
##	575	1868.28	2363.6	2108.4	3037.0
##	576	1874.38	2365.6	2119.1	3024.8
##	577	1869.25	2388.3	2134.1	3028.0
##	578	1852.81	2361.8	2078.5	2989.4
##	579	1862.62	2374.4	2075.6	3003.9
##	580	1884.67	2385.2	2099.5	3005.5
##	581	1922.69	2418.4	2107.4	3004.5
##	582	1922.05	2431.8	2094.4	3001.6
##	583	1899.54	2414.6	2080.0	3007.5
##	584	1902.14	2425.8	2057.5	3001.3
##	585	1890.18	2445.9	2092.6	3005.2
##	586	1914.40	2482.4	2108.6	3026.3
##	587	1915.61	2478.3	2120.0	3036.9
##	588	1908.97	2485.4	2126.8	3030.1
##	589	1910.23	2473.1	2114.6	3037.5

## 590	1920.46	2481.6	2116.7	3039.3
## 591	1934.99	2490.3	2128.7	3067.7
## 592	1973.45	2521.3	2158.8	3085.2
## 593	1994.09	2534.8	2164.5	3100.8
## 594	1991.95	2528.0	2147.4	3092.4
## 595	2015.71	2533.6	2156.4	3108.6
## 596	2009.28	2548.5	2138.7	3102.2
## 597	2004.11	2552.5	2126.9	3094.7
## 598	1999.60	2571.0	2127.3	3080.9
## 599	1995.35	2586.4	2113.9	3086.3
## 600	2023.26	2612.6	2139.3	3120.8
## 601	2032.25	2663.6	2145.0	3137.6
## 602	2036.93	2660.7	2147.3	3129.6
## 603	2029.87	2668.4	2149.7	3156.3
## 604	2048.05	2690.1	2199.7	3188.3
## 605	2083.62	2701.4	2231.9	3199.0
## 606	2061.18	2685.0	2227.7	3184.8
## 607	2048.75	2700.2	2210.4	3165.3
## 608	2040.97	2715.9	2192.0	3154.3
## 609	2053.66	2720.9	2196.0	3163.0
## 610	2064.98	2723.2	2182.0	3171.0
## 611	2068.51	2727.1	2182.0	3164.4
## 612	2086.40	2742.9	2169.7	3164.1
## 613	2086.22	2749.9	2171.2	3162.3
## 614	2057.10	2706.6	2136.0	3149.0
## 615	2013.65	2654.2	2081.0	3085.6
## 616	2007.50	2675.3	2084.8	3077.6
## 617	2040.74	2727.1	2112.9	3096.0
## 618	2020.11	2742.1	2087.3	3098.5
## 619	2021.81	2720.1	2087.3	3099.7
## 620	2023.06	2721.1	2096.9	3099.1
## 621	2047.20	2717.4	2117.9	3093.3
## 622	2070.17	2712.3	2115.9	3097.5
## 623	2070.17	2711.1	2148.0	3120.0
## 624	2075.99	2727.1	2149.7	3125.5
## 625	2072.13	2733.9	2145.2	3108.0
## 626	2020.36	2696.5	2082.6	3070.6
## 627	2027.99	2702.1	2071.5	3069.3
## 628	2036.45	2717.8	2070.6	3067.2
## 629	2057.80	2726.8	2118.4	3093.1
## 630	2045.25	2741.9	2120.6	3111.4
## 631	2052.09	2738.2	2119.3	3135.8
## 632	2052.92	2738.5	2110.1	3166.9
## 633	2089.77	2774.3	2154.0	3233.2
## 634	2099.76	2787.2	2160.5	3223.9
## 635	2128.30	2819.0	2188.4	3234.2
## 636	2118.01	2836.4	2186.7	3237.3
## 637	2127.39	2834.8	2176.1	3237.3
## 638	2165.95	2843.8	2205.3	3277.4
## 639	2166.58	2858.4	2211.4	3271.6
## 640	2165.50	2861.2	2198.1	3261.3
## 641	2163.83	2876.9	2196.3	3254.6
## 642	2128.07	2867.8	2156.5	3248.4
## 643	2129.52	2850.6	2162.6	3278.8

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## 644 2144.03 2867.7 2160.3 3311.2
## 645 2154.76 2889.5 2196.4 3337.1
## 646 2188.18 2909.0 2223.5 3364.9
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## 653 2229.62 2934.2 2281.9 3462.0
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## 655 2255.29 2957.6 2268.2 3418.4
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## 659 2220.63 3021.9 2275.1 3403.0
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## 662 2228.10 3026.6 2331.3 3413.8
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## 666 2115.56 3011.1 2234.8 3407.8
## 667 2130.35 3037.5 2247.4 3437.0
## 668 2132.52 3049.4 2274.7 3475.1
## 669 2098.36 3045.9 2257.8 3470.0
## 670 2073.94 3039.3 2244.0 3484.2
## 671 2107.29 3041.3 2274.5 3481.4
## 672 2090.78 3066.5 2278.3 3444.0
## 673 2128.66 3091.3 2282.4 3436.1
## 674 2123.31 3095.2 2281.0 3427.3
## 675 2156.61 3140.7 2313.2 3447.4
## 676 2192.60 3178.4 2334.4 3491.8
## 677 2181.88 3148.7 2331.3 3481.5
## 678 2184.05 3169.1 2355.9 3520.3
## 679 2137.08 3151.9 2322.0 3491.5
## 680 2143.90 3166.6 2329.2 3475.4
## 681 2095.11 3089.8 2287.1 3419.1
## 682 2099.57 3097.2 2299.9 3440.2
## 683 2116.43 3054.2 2302.1 3429.1
## 684 2119.69 3012.2 2296.8 3407.0
## 685 2108.77 3012.2 2275.1 3378.9
## 686 2101.93 2947.1 2281.6 3363.5
## 687 2130.71 2947.1 2258.0 3393.2
## 688 2135.25 2947.1 2258.0 3417.7
## 689 2162.29 3033.4 2281.2 3425.3
## 690 2133.85 3025.9 2251.8 3382.6
## 691 2108.06 2997.6 2215.2 3350.3
## 692 2113.64 2982.8 2226.7 3333.7
## 693 2140.25 3027.5 2252.0 3341.9
## 694 2082.90 2958.4 2208.3 3267.5
## 695 2075.33 2929.3 2199.0 3281.2
## 696 2103.24 2888.2 2238.1 3328.1
## 697 2057.20 2847.4 2183.1 3270.6

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## 698	2018.69	2768.5	2144.7	3248.1
## 699	2044.45	2803.4	2144.7	3246.5
## 700	2076.76	2865.2	2178.7	3278.0
## 701	2132.12	2918.7	2219.9	3305.9
## 702	2125.47	2902.4	2216.4	3264.4
## 703	2118.01	2858.5	2199.7	3246.7
## 704	2124.51	2861.2	2184.6	3233.9
## 705	2101.89	2831.6	2175.0	3191.9
## 706	2169.40	2870.5	2215.0	3233.4
## 707	2178.91	2906.9	2258.5	3267.4
## 708	2168.11	2887.1	2242.7	3242.9
## 709	2160.45	2887.7	2247.8	3255.7
## 710	2140.39	2843.5	2221.3	3218.1
## 711	2130.55	2804.3	2202.7	3198.0
## 712	2141.70	2824.7	2200.7	3201.5
## 713	2162.96	2857.0	2200.2	3155.3
## 714	2144.36	2850.8	2152.6	3121.7
## 715	2144.00	2831.8	2136.6	3129.0
## 716	2167.72	2862.4	2144.5	3129.5
## 717	2162.82	2827.4	2123.4	3123.4
## 718	2151.84	2814.5	2083.9	3092.4
## 719	2142.88	2794.8	2081.9	3086.4
## 720	2142.88	2794.8	2081.9	3086.4
## 721	2142.88	2794.8	2081.9	3086.4
## 722	2177.09	2807.3	2100.3	3116.2
## 723	2184.89	2830.2	2128.2	3131.5
## 724	2202.57	2860.9	2119.6	3129.0
## 725	2203.18	2873.4	2114.8	3120.8
## 726	2224.85	2884.0	2145.3	3149.4
## 727	2211.19	2887.8	2148.6	3159.1
## 728	2215.19	2877.7	2152.4	3145.8
## 729	2198.24	2843.7	2139.1	3131.7
## 730	2211.92	2872.9	2159.6	3168.3
## 731	2218.37	2869.1	2160.1	3138.2
## 732	2193.89	2837.1	2136.0	3128.0
## 733	2194.09	2818.7	2102.7	3098.3
## 734	2194.41	2781.6	2092.0	3101.2
## 735	2218.13	2787.9	2135.2	3133.7
## 736	2208.68	2763.5	2116.3	3106.1
## 737	2241.36	2776.2	2130.9	3125.3
## 738	2256.98	2791.3	2147.3	3150.0
## 739	2237.82	2768.9	2150.3	3129.9
## 740	2252.51	2736.3	2166.0	3125.3
## 741	2266.72	2765.2	2186.2	3125.3
## 742	2261.71	2755.9	2179.0	3100.0
## 743	2241.85	2705.6	2141.6	3070.5
## 744	2249.78	2682.2	2162.6	3106.0
## 745	2233.55	2641.4	2158.2	3106.0
## 746	2218.77	2569.5	2139.4	3097.8
## 747	2241.34	2629.0	2165.0	3136.3
## 748	2248.02	2633.0	2176.7	3130.5
## 749	2248.02	2633.0	2176.7	3137.8
## 750	2257.33	2678.7	2187.0	3119.2
## 751	2272.96	2709.0	2187.8	3115.6

## 752	2268.11	2727.1	2195.2	3123.5
## 753	2254.21	2740.6	2184.0	3116.5
## 754	2245.79	2725.8	2165.4	3122.8
## 755	2238.97	2732.7	2155.4	3127.3
## 756	2238.97	2732.7	2155.4	3108.4
## 757	2188.01	2692.0	2133.3	3089.1
## 758	2137.56	2673.1	2084.4	3020.7
## 759	2146.00	2689.2	2091.9	3019.7
## 760	2112.80	2711.9	2050.7	2966.4
## 761	2129.76	2742.9	2052.5	2966.4
## 762	2137.34	2722.9	2029.9	2970.5
## 763	2113.62	2731.5	1979.7	2931.9
## 764	2120.23	2725.9	2007.4	2980.8
## 765	2158.88	2728.4	2041.7	2997.8
## 766	2163.59	2781.4	2037.2	3009.4
## 767	2131.80	2778.1	2023.7	3004.8
## 768	2143.93	2801.1	2046.8	3038.2
## 769	2131.14	2777.2	2028.4	3028.9
## 770	2143.58	2763.8	2020.7	3055.9
## 771	2084.42	2744.2	1977.7	3016.3
## 772	2088.44	2740.0	1992.0	3039.6
## 773	2073.21	2701.8	1966.4	3045.8
## 774	2047.29	2666.6	1942.8	3030.1
## 775	2031.80	2627.6	1936.0	3022.9
## 776	1986.42	2545.0	1903.0	2971.1
## 777	1957.08	2544.2	1890.8	2940.2
## 778	2004.93	2595.7	1917.0	2960.4
## 779	2032.52	2626.7	1939.0	2942.4
## 780	2005.07	2577.2	1907.0	2876.6
## 781	2000.48	2561.4	1911.6	2899.9
## 782	2022.25	2604.4	1925.8	2909.0
## 783	2042.45	2631.2	1936.3	2946.3
## 784	2020.85	2608.8	1892.0	2919.2
## 785	2040.69	2588.9	1872.9	2936.4
## 786	2061.70	2636.4	1866.2	2970.4
## 787	2034.64	2609.7	1878.7	2965.0
## 788	2031.33	2598.9	1889.0	2946.7
## 789	2049.10	2590.5	1920.8	2964.4
## 790	2047.83	2560.3	1920.8	2962.4
## 791	2069.46	2562.5	1949.8	2983.8
## 792	2048.57	2508.0	1942.1	2963.9
## 793	2051.25	2474.5	1974.6	3005.3
## 794	2070.71	2528.3	1974.6	3050.4
## 795	2103.54	2514.9	1974.6	3074.8
## 796	2116.96	2494.7	2025.1	3082.0
## 797	2129.86	2521.6	2052.3	3091.3
## 798	2120.97	2562.3	2043.7	3077.2
## 799	2126.75	2579.4	2053.8	3095.1
## 800	2148.23	2599.2	2041.4	3114.7
## 801	2144.21	2601.2	2059.8	3106.1
## 802	2163.32	2604.4	2076.8	3117.2
## 803	2135.93	2544.9	2055.7	3082.3
## 804	2134.12	2559.3	2053.4	3095.9
## 805	2152.19	2579.5	2075.0	3082.6

## 806	2161.50	2579.5	2069.6	3097.4
## 807	2193.63	2629.7	2117.2	3157.5
## 808	2190.83	2620.7	2115.0	3160.4
## 809	2176.66	2615.3	2096.5	3150.5
## 810	2188.81	2600.8	2107.1	3167.5
## 811	2182.32	2617.5	2106.3	3171.9
## 812	2160.56	2585.5	2074.5	3168.6
## 813	2166.51	2591.4	2064.2	3167.0
## 814	2156.31	2588.8	2038.9	3138.2
## 815	2133.74	2580.5	2007.0	3142.3
## 816	2134.34	2570.6	2007.0	3142.2
## 817	2152.65	2588.7	2012.4	3147.3
## 818	2166.56	2599.3	2035.0	3190.3
## 819	2151.44	2582.7	2010.5	3182.6
## 820	2143.84	2557.0	2001.3	3191.4
## 821	2113.37	2532.4	1972.6	3171.3
## 822	2121.25	2530.9	2000.6	3175.1
## 823	2132.98	2541.1	2006.3	3205.2
## 824	2153.48	2551.1	2026.5	3234.2
## 825	2190.58	2581.3	2062.7	3265.1
## 826	2215.72	2635.2	2075.3	3265.1
## 827	2205.82	2635.7	2060.4	3249.6
## 828	2207.09	2645.6	2069.1	3251.3
## 829	2185.78	2628.4	2034.9	3216.5
## 830	2197.38	2672.0	2020.4	3222.7
## 831	2173.60	2674.5	1998.2	3241.5
## 832	2158.07	2652.4	1961.5	3205.4
## 833	2167.68	2662.5	1964.2	3203.9
## 834	2178.10	2664.1	1983.4	3180.0
## 835	2155.58	2642.1	1948.8	3139.3
## 836	2155.81	2643.0	1966.8	3128.8
## 837	2157.15	2658.8	1969.4	3121.4
## 838	2118.17	2637.7	1952.9	3079.8
## 839	2129.36	2628.6	1977.3	3112.7
## 840	2097.45	2603.3	1924.6	3065.1
## 841	2100.55	2614.7	1922.9	3079.1
## 842	2059.15	2593.0	1919.3	3037.3
## 843	2067.17	2594.0	1897.2	3014.8
## 844	2072.81	2602.9	1899.4	3021.2
## 845	2097.33	2609.1	1927.4	3028.2
## 846	2057.83	2586.1	1902.7	2999.8
## 847	2056.89	2581.0	1901.3	3008.5
## 848	2070.36	2590.0	1905.0	3038.7
## 849	2016.08	2558.0	1876.2	2992.5
## 850	2002.30	2534.4	1879.3	3026.3
## 851	2002.30	2499.5	1852.8	2983.5
## 852	1988.67	2522.5	1876.1	3001.8
## 853	1946.49	2480.4	1833.7	2956.3
## 854	1965.41	2484.8	1843.4	2984.4
## 855	1977.67	2496.9	1856.4	2998.7
## 856	2048.56	2553.4	1898.3	3032.3
## 857	2087.71	2570.2	1919.0	3073.0
## 858	2072.68	2562.7	1918.1	3100.5
## 859	2108.08	2593.3	1955.6	3141.9

##	860	2118.52	2585.3	1933.0	3106.7
##	861	2095.58	2575.6	1906.4	3120.2
##	862	2069.58	2542.5	1898.6	3085.3
##	863	2055.94	2529.8	1876.3	3060.8
##	864	2048.15	2530.9	1867.4	3063.2
##	865	2016.60	2508.6	1842.1	3032.8
##	866	2022.64	2525.2	1841.6	3029.1
##	867	1995.85	2494.7	1824.4	3000.9
##	868	2009.45	2477.2	1831.5	2999.9
##	869	2026.37	2458.6	1858.1	3029.6
##	870	2064.86	2490.5	1905.7	3083.8
##	871	2061.58	2506.5	1905.7	3097.4
##	872	2066.18	2503.9	1905.7	3096.3
##	873	2039.91	2500.0	1873.6	3081.3
##	874	2061.37	2534.8	1911.1	3104.4
##	875	2069.39	2541.0	1931.7	3097.6
##	876	2043.30	2557.9	1906.1	3065.8
##	877	2056.36	2543.9	1921.5	3063.8
##	878	2090.78	2590.4	1943.9	3099.6
##	879	2098.04	2602.7	1948.4	3103.5
##	880	2073.67	2597.8	1948.4	3075.9
##	881	2091.04	2590.9	1941.1	3095.3
##	882	2112.21	2591.9	1954.5	3135.4
##	883	2112.21	2609.4	1950.2	3146.5
##	884	2091.94	2600.9	1927.5	3127.5
##	885	2089.48	2606.5	1926.5	3131.0
##	886	2097.20	2607.0	1927.8	3121.0
##	887	2073.29	2571.8	1911.4	3078.7
##	888	2040.05	2546.1	1893.1	3027.5
##	889	2058.79	2568.6	1934.7	3036.6
##	890	2056.27	2572.5	1945.9	3033.5
##	891	2050.82	2579.4	1952.4	3047.1
##	892	2036.24	2584.7	1940.0	3061.1
##	893	2057.08	2594.9	1975.9	3081.4
##	894	2045.54	2576.0	1964.0	3039.6
##	895	2042.38	2577.5	1982.7	3017.3
##	896	2067.26	2611.0	1973.7	3033.5
##	897	2046.99	2589.1	1969.0	3016.1
##	898	2044.04	2584.3	1969.8	3012.5
##	899	2041.85	2589.3	1954.1	3013.8
##	900	2024.19	2576.0	1937.0	2977.3
##	901	2003.64	2562.8	1919.3	2943.4
##	902	2019.13	2566.0	1917.1	2946.4
##	903	2040.94	2581.4	1930.2	2980.6
##	904	2054.23	2598.0	1931.1	2973.4
##	905	2069.90	2604.7	1924.2	3013.6
##	906	2066.59	2600.7	1928.1	3034.4
##	907	2080.16	2614.7	1924.7	3058.1
##	908	2095.50	2636.1	1940.9	3070.4
##	909	2102.25	2649.8	1952.1	3091.7
##	910	2100.98	2651.0	1949.9	3083.4
##	911	2100.98	2651.0	1966.6	3083.4
##	912	2110.77	2673.5	1956.0	3083.4
##	913	2097.34	2656.2	1927.8	3095.8

## 914	2074.68	2628.8	1894.2	3065.6
## 915	2097.51	2628.8	1881.2	3065.5
## 916	2079.19	2628.8	1881.2	3065.5
## 917	2068.92	2612.3	1885.9	3065.7
## 918	2072.90	2632.4	1901.8	3051.6
## 919	2051.46	2613.1	1871.5	3032.3
## 920	2058.20	2622.3	1886.4	3065.0
## 921	2053.41	2617.3	1864.2	3055.8
## 922	2062.08	2600.4	1859.2	3060.4
## 923	2061.76	2597.0	1849.1	3049.4
## 924	2059.68	2600.5	1844.1	3033.2
## 925	2064.14	2600.2	1854.0	3048.3
## 926	2088.25	2591.6	1872.8	3076.7
## 927	2081.39	2582.8	1856.9	3054.0
## 928	2085.62	2593.6	1860.3	3054.9
## 929	2079.60	2595.5	1837.1	3028.6
## 930	2050.86	2574.6	1813.3	2995.9
## 931	2013.03	2525.3	1772.8	2954.2
## 932	2027.67	2534.8	1780.2	2969.0
## 933	2026.97	2525.5	1802.5	2982.2
## 934	2040.79	2554.7	1826.3	3007.3
## 935	2030.56	2552.4	1814.1	3022.2
## 936	2026.68	2540.2	1813.4	2995.9
## 937	2024.82	2536.9	1797.9	2991.6
## 938	2047.44	2560.8	1827.8	3017.3
## 939	2038.46	2563.7	1816.1	3034.7
## 940	2077.94	2589.4	1842.4	3059.7
## 941	2085.08	2621.4	1872.1	3062.0
## 942	2093.01	2628.0	1870.4	3072.7
## 943	2087.78	2617.4	1850.9	3072.5
## 944	2117.80	2636.9	1874.4	3099.0
## 945	2127.56	2635.4	1869.4	3109.9
## 946	2118.96	2636.0	1850.1	3081.1
## 947	2128.33	2642.4	1856.1	3071.3
## 948	2135.49	2636.0	1861.9	3074.9
## 949	2112.06	2621.0	1835.0	3051.1
## 950	2119.29	2601.0	1822.5	3044.2
## 951	2101.98	2597.2	1802.2	3018.6
## 952	2101.82	2609.6	1805.6	3023.4
## 953	2096.26	2610.0	1804.4	3019.5
## 954	2126.44	2632.1	1827.0	3049.3
## 955	2117.59	2623.3	1805.7	3037.7
## 956	2106.05	2607.5	1802.2	3025.3
## 957	2097.85	2600.4	1776.9	3009.3
## 958	2127.21	2619.2	1808.4	3041.2
## 959	2116.64	2617.2	1807.4	3038.2
## 960	2094.16	2586.5	1795.2	3025.1
## 961	2069.95	2553.2	1773.3	3001.9
## 962	2041.26	2543.1	1748.6	2977.0
## 963	2029.38	2515.8	1756.8	2992.1
## 964	1989.20	2461.5	1727.1	2986.9
## 965	2008.85	2467.7	1743.1	3021.1
## 966	1974.14	2450.3	1721.8	3011.8
## 967	2022.50	2463.3	1769.0	3050.6

##	968	1995.22	2475.0	1738.6	3047.0
##	969	2016.15	2491.7	1785.8	3094.1
##	970	1979.52	2497.5	1788.8	3089.3
##	971	1984.99	2516.0	1811.6	3124.2
##	972	1984.15	2505.5	1813.8	3135.0
##	973	1978.07	2501.9	1818.0	3139.7
##	974	1935.08	2480.7	1795.7	3136.4
##	975	1935.87	2526.6	1817.3	3153.4
##	976	1928.82	2518.1	1836.1	3149.8
##	977	1911.70	2495.6	1837.2	3128.3
##	978	1918.85	2495.0	1852.4	3142.3
##	979	1949.76	2533.1	1893.0	3176.2
##	980	1914.69	2508.9	1859.5	3137.9
##	981	1934.96	2511.1	1864.0	3143.1
##	982	1965.68	2536.2	1882.8	3188.1
##	983	1972.59	2536.3	1872.9	3190.2
##	984	1976.52	2556.1	1890.2	3200.9
##	985	1978.71	2559.3	1900.4	3210.9
##	986	1980.81	2561.2	1880.9	3204.2
##	987	1979.26	2563.1	1869.3	3190.9
##	988	1991.08	2562.4	1871.9	3209.8
##	989	1982.99	2560.3	1881.1	3208.8
##	990	1982.99	2560.3	1881.1	3208.8
##	991	1982.99	2560.3	1881.1	3208.8
##	992	1954.62	2547.1	1855.7	3194.5
##	993	1943.88	2516.8	1874.9	3170.1
##	994	1955.33	2544.2	1882.0	3174.7
##	995	1987.70	2560.8	1928.4	3199.9
##	996	1978.97	2554.8	1918.5	3209.3
##	997	2007.57	2561.1	1945.9	3214.9
##	998	2028.52	2574.4	1942.3	3226.2
##	999	2024.25	2567.0	1931.0	3217.6
##	1000	2017.95	2597.2	1918.5	3216.7
##	1001	2017.95	2597.2	1918.5	3220.4
##	1002	2036.47	2621.4	1936.9	3248.2
##	1003	2037.99	2618.6	1971.1	3262.6
##	1004	2034.15	2641.7	1946.2	3264.3
##	1005	2021.22	2650.5	1927.4	3251.7
##	1006	2030.65	2658.8	1927.4	3251.7
##	1007	2050.66	2655.6	1988.7	3261.2
##	1008	2064.41	2661.4	1996.7	3290.1
##	1009	2086.41	2701.0	2003.6	3317.9
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##	1012	2109.36	2746.6	2001.3	3300.8
##	1013	2088.99	2739.8	2004.7	3297.4
##	1014	2083.80	2727.7	1989.8	3285.8
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##	1016	2096.87	2751.2	1979.5	3284.5
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##	1018	2105.88	2778.5	1960.7	3327.3
##	1019	2105.88	2778.5	1960.7	3328.2
##	1020	2065.71	2751.7	1919.1	3311.1
##	1021	2069.26	2762.5	1927.8	3311.1

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1804 5507.36 7605.0 4014.9 5862.3
1805 5556.99 7656.1 4041.2 5870.7
1806 5556.99 7656.1 4041.2 5837.9
1807 5583.83 7657.5 4087.0 5842.3
1808 5640.42 7676.3 4149.4 5898.4
1809 5605.38 7592.9 4119.0 5860.8
1810 5724.75 7699.5 4185.1 5947.3
1811 5787.05 7743.4 4204.6 6037.8
1812 5773.77 7716.8 4201.9 6019.8
1813 5799.22 7652.6 4208.6 5987.4
1814 5799.22 7498.4 4141.6 5852.5
1815 5631.34 7417.4 4050.8 5769.8
1816 5581.24 7342.7 4005.3 5715.7
1817 5621.71 7388.7 4013.3 5729.7
1818 5742.83 7562.7 4092.9 5832.7
1819 5689.89 7488.0 4052.3 5812.1
1820 5644.22 7518.6 4027.3 5748.1
1821 5648.11 7511.8 4018.6 5712.4
1822 5748.34 7624.8 4065.0 5772.0
1823 5784.40 7667.9 4126.3 5804.9
1824 5886.72 7794.7 4203.8 5858.9
1825 5870.49 7816.9 4215.7 5877.4
1826 5933.73 7881.9 4248.2 5884.5
1827 5841.83 7882.0 4203.5 5832.5
1828 5910.51 8038.2 4260.7 5919.9
1829 5905.15 8047.3 4252.1 5960.2
1830 5961.45 8099.0 4304.4 5988.4
1831 5942.06 8166.0 4311.1 5990.3

```
## 1832 5975.88 8160.0 4333.1 6003.4
## 1833 6018.89 8227.2 4339.9 6009.6
## 1834 6000.84 8205.0 4319.2 5969.7
## 1835 6001.24 8192.4 4256.4 5927.9
## 1836 6023.31 8141.9 4256.4 5958.2
## 1837 6101.90 8180.5 4256.4 6100.2
## 1838 6106.10 8158.1 4344.3 6151.5
## 1839 6108.00 8126.5 4358.1 6116.8
## 1840 6162.86 8288.2 4388.5 6174.0
## 1841 6186.09 8400.8 4368.9 6179.0
## 1842 6184.10 8412.0 4322.1 6132.7
## 1843 6081.11 8340.7 4220.1 5989.6
## 1844 6043.82 8229.2 4235.9 5976.2
## 1845 6040.58 8205.7 4205.4 5892.3
## 1846 5854.35 7998.7 4139.5 5836.1
## 1847 5867.52 8093.0 4122.4 5835.8
## 1848 5828.74 8102.7 4139.2 5844.1
## 1849 5906.33 8205.5 4197.6 5910.7
## 1850 5861.19 8239.5 4177.3 5837.0
## 1851 5774.38 8139.2 4095.0 5809.7
## 1852 5718.70 8170.2 4047.9 5736.1
## 1853 5614.77 7943.2 3976.4 5632.5
## 1854 5528.12 7846.2 3968.6 5594.1
## 1855 5598.32 7952.9 4041.9 5680.4
## 1856 5460.43 7721.3 3939.5 5587.6
## 1857 5285.78 7447.9 3846.0 5432.8
## 1858 5386.94 7607.5 3945.7 5462.2
## 1859 5355.03 7552.6 3951.7 5399.5
## 1860 5473.72 7676.3 3995.0 5455.0
```

3. Find the descriptive statistics of the data frame generated and the structure of the data. # the summary function gives the very basic statistical information of the data frame # the str function displays the internal structure of the data frame

```
cat("          ----- Descriptive Statistics -----\n\n")
```

```
##          ----- Descriptive Statistics -----
```

```
summary(eustock)
```

```
##          DAX          SMI          CAC          FTSE
##  Min.   :1402   Min.   :1587   Min.   :1611   Min.   :2281
##  1st Qu.:1744   1st Qu.:2166   1st Qu.:1875   1st Qu.:2843
##  Median :2141   Median :2796   Median :1992   Median :3247
##  Mean   :2531   Mean   :3376   Mean   :2228   Mean   :3566
##  3rd Qu.:2722   3rd Qu.:3812   3rd Qu.:2274   3rd Qu.:3994
##  Max.   :6186   Max.   :8412   Max.   :4388   Max.   :6179
```

```
cat("\n") #just for neatness, leaves an empty space w/o " "
```

```
cat("----- Structure -----\\n\\n")
```

```
## ----- Structure -----
```

```
str(eustock)
```

```
## 'data.frame': 1860 obs. of 4 variables:  
## $ DAX : num 1629 1614 1607 1621 1618 ...  
## $ SMI : num 1678 1688 1679 1684 1687 ...  
## $ CAC : num 1773 1750 1718 1708 1723 ...  
## $ FTSE: num 2444 2460 2448 2470 2485 ...
```

4. Find the mean, min and max closing price of each column using indexing (both column index and name). #1 Using column index

```
cat("----- DAX -----\\n\\n")
```

```
## ----- DAX -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(as.numeric(eustock[,1]))
```

```
## [1] 2530.657
```

```
cat("Max: ")
```

```
## Max:
```

```
max(as.numeric(eustock[,1]))
```

```
## [1] 6186.09
```

```
cat("Min: ")
```

```
## Min:
```

```
min(as.numeric(eustock[,1]))
```

```
## [1] 1402.34
```

```
cat("\\n")
```

```
cat("----- SMI -----\\n\\n")
```

```
## ----- SMI -----
```

```
cat("SMI: ")
```

```
## SMI:
```

```
mean(eustock[,2])
```

```
## [1] 3376.224
```

```
cat("Max: ")
```

```
## Max:
```

```
max(eustock[,2])
```

```
## [1] 8412
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock[,2])
```

```
## [1] 1587.4
```

```
cat("\\n")
```

```
cat("----- CAC -----\\n\\n")
```

```
## ----- CAC -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(eustock[,3])
```

```
## [1] 2227.828
```

```
cat("CAC: ")
```

```
## CAC:
```



```
max(eustock[,3])
```

```
## [1] 4388.5
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock[,3])
```

```
## [1] 1611
```

```
cat("\n")
```

```
cat("----- FTSE ----- \n\n")
```

```
## ----- FTSE -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(eustock[,4])
```

```
## [1] 3565.643
```

```
cat("Max: ")
```

```
## Max:
```

```
max(eustock[,4])
```

```
## [1] 6179
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock[,4])
```

```
## [1] 2281
```

```
#2 Using Name Index
```

```
cat("----- DAX -----\n\n")
```

```
## ----- DAX -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(eustock$DAX)
```

```
## [1] 2530.657
```

```
cat("Max: ")
```

```
## Max:
```

```
max(eustock$DAX)
```

```
## [1] 6186.09
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock$DAX)
```

```
## [1] 1402.34
```

```
cat("\n")
```

```
cat("----- SMI -----\n\n")
```

```
## ----- SMI -----
```

```
cat("SMI: ")
```

```
## SMI:
```

```
mean(eustock$SMI)
```

```
## [1] 3376.224
```

```
cat("Max: ")
```

```
## Max:
```

```
max(eustock$SMI)
```

```
## [1] 8412
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock$SMI)
```

```
## [1] 1587.4
```

```
cat("\n")
```

```
cat("----- CAC ----- \n\n")
```

```
## ----- CAC -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(eustock$CAC)
```

```
## [1] 2227.828
```

```
cat("CAC: ")
```

```
## CAC:
```

```
max(eustock$CAC)
```

```
## [1] 4388.5
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock$CAC)
```

```
## [1] 1611
```

```
cat("\n")
```

```
cat("----- FTSE -----\n\n")
```

```
## ----- FTSE -----
```

```
cat("Mean: ")
```

```
## Mean:
```

```
mean(eustock$FTSE)
```

```
## [1] 3565.643
```

```
cat("Max: ")
```

```
## Max:
```

```
max(eustock$FTSE)
```

```
## [1] 6179
```

```
cat("Min: ")
```

```
## Min:
```

```
min(eustock$FTSE)
```

```
## [1] 2281
```

5. Find and create a column CAT_DAX that categorize the observations based on the DAX column. Criteria: If the values are less than or equals to 1744, then consider as A_1, if values are greater than or equals to 2722 then categorize as A_2 and rest as A_3.

```
eustock$CAT_DAX <- ifelse(eustock$DAX<=1744, "A_1", ifelse(eustock$DAX>=2722, "A_2", "A_3"))  
eustock
```

```
##      DAX    SMI    CAC   FTSE CAT_DAX  
## 1  1628.75 1678.1 1772.8 2443.6    A_1  
## 2  1613.63 1688.5 1750.5 2460.2    A_1  
## 3  1606.51 1678.6 1718.0 2448.2    A_1  
## 4  1621.04 1684.1 1708.1 2470.4    A_1  
## 5  1618.16 1686.6 1723.1 2484.7    A_1  
## 6  1610.61 1671.6 1714.3 2466.8    A_1  
## 7  1630.75 1682.9 1734.5 2487.9    A_1  
## 8  1640.17 1703.6 1757.4 2508.4    A_1  
## 9  1635.47 1697.5 1754.0 2510.5    A_1  
## 10 1645.89 1716.3 1754.3 2497.4    A_1  
## 11 1647.84 1723.8 1759.8 2532.5    A_1  
## 12 1638.35 1730.5 1755.5 2556.8    A_1
```

## 13	1629.93	1727.4	1758.1	2561.0	A_1
## 14	1621.49	1733.3	1757.5	2547.3	A_1
## 15	1624.74	1734.0	1763.5	2541.5	A_1
## 16	1627.63	1728.3	1762.8	2558.5	A_1
## 17	1631.99	1737.1	1768.9	2587.9	A_1
## 18	1621.18	1723.1	1778.1	2580.5	A_1
## 19	1613.42	1723.6	1780.1	2579.6	A_1
## 20	1604.95	1719.0	1767.7	2589.3	A_1
## 21	1605.75	1721.2	1757.9	2595.0	A_1
## 22	1616.67	1725.3	1756.6	2595.6	A_1
## 23	1619.29	1727.2	1754.7	2588.8	A_1
## 24	1620.49	1727.2	1766.8	2591.7	A_1
## 25	1619.67	1731.6	1766.5	2601.7	A_1
## 26	1623.07	1724.1	1762.2	2585.4	A_1
## 27	1613.98	1716.9	1759.5	2573.3	A_1
## 28	1631.87	1723.4	1782.4	2597.4	A_1
## 29	1630.37	1723.0	1789.5	2600.6	A_1
## 30	1633.47	1728.4	1783.5	2570.6	A_1
## 31	1626.55	1722.1	1780.4	2569.4	A_1
## 32	1650.43	1724.5	1808.8	2584.9	A_1
## 33	1650.06	1733.6	1820.3	2608.8	A_1
## 34	1654.11	1739.0	1820.3	2617.2	A_1
## 35	1653.60	1726.2	1820.3	2621.0	A_1
## 36	1501.82	1587.4	1687.5	2540.5	A_1
## 37	1524.28	1630.6	1725.6	2554.5	A_1
## 38	1603.65	1685.5	1792.9	2601.9	A_1
## 39	1622.49	1701.3	1819.1	2623.0	A_1
## 40	1636.68	1718.0	1833.5	2640.7	A_1
## 41	1652.10	1726.2	1853.4	2640.7	A_1
## 42	1645.81	1716.6	1849.7	2619.8	A_1
## 43	1650.36	1725.8	1851.8	2624.2	A_1
## 44	1651.55	1737.4	1857.7	2638.2	A_1
## 45	1649.88	1736.6	1864.3	2645.7	A_1
## 46	1653.52	1732.4	1863.5	2679.6	A_1
## 47	1657.51	1731.2	1873.2	2669.0	A_1
## 48	1649.55	1726.9	1860.8	2664.6	A_1
## 49	1649.09	1727.8	1868.7	2663.3	A_1
## 50	1646.41	1720.2	1860.4	2667.4	A_1
## 51	1638.65	1715.4	1855.9	2653.2	A_1
## 52	1625.80	1708.7	1840.5	2630.8	A_1
## 53	1628.64	1713.0	1842.6	2626.6	A_1
## 54	1632.22	1713.5	1861.2	2641.9	A_1
## 55	1633.65	1718.0	1876.2	2625.8	A_1
## 56	1631.17	1701.7	1878.3	2606.0	A_1
## 57	1635.80	1701.7	1878.4	2594.4	A_1
## 58	1621.27	1684.9	1869.4	2583.6	A_1
## 59	1624.70	1687.2	1880.4	2588.7	A_1
## 60	1616.13	1690.6	1885.5	2600.3	A_1
## 61	1618.12	1684.3	1888.4	2579.5	A_1
## 62	1627.80	1679.9	1885.2	2576.6	A_1
## 63	1625.79	1672.9	1877.9	2597.8	A_1
## 64	1614.80	1663.1	1876.5	2595.6	A_1
## 65	1612.80	1669.3	1883.8	2599.0	A_1
## 66	1605.47	1664.7	1880.6	2621.7	A_1

## 67	1609.32	1672.3	1887.4	2645.6	A_1
## 68	1607.48	1687.7	1878.3	2644.2	A_1
## 69	1607.48	1686.8	1867.1	2625.6	A_1
## 70	1604.89	1686.6	1851.9	2624.6	A_1
## 71	1589.12	1675.8	1843.6	2596.2	A_1
## 72	1582.27	1677.4	1848.1	2599.5	A_1
## 73	1567.99	1673.2	1843.4	2584.1	A_1
## 74	1568.16	1665.0	1843.6	2570.8	A_1
## 75	1569.71	1671.3	1833.8	2555.0	A_1
## 76	1571.74	1672.4	1833.4	2574.5	A_1
## 77	1585.41	1676.2	1856.9	2576.7	A_1
## 78	1570.01	1692.6	1863.4	2579.0	A_1
## 79	1561.89	1696.5	1855.5	2588.7	A_1
## 80	1565.18	1716.1	1864.2	2601.1	A_1
## 81	1570.34	1713.3	1846.0	2575.7	A_1
## 82	1577.00	1705.1	1836.8	2559.5	A_1
## 83	1590.29	1711.3	1830.4	2561.1	A_1
## 84	1572.72	1709.8	1831.6	2528.3	A_1
## 85	1572.07	1688.6	1834.8	2514.7	A_1
## 86	1579.19	1698.9	1852.1	2558.5	A_1
## 87	1588.73	1700.0	1849.8	2553.3	A_1
## 88	1586.01	1693.0	1861.8	2577.1	A_1
## 89	1579.77	1683.9	1856.7	2566.0	A_1
## 90	1572.58	1679.2	1856.7	2549.5	A_1
## 91	1568.09	1673.9	1841.5	2527.8	A_1
## 92	1578.21	1683.9	1846.9	2540.9	A_1
## 93	1573.94	1688.4	1836.1	2534.2	A_1
## 94	1582.06	1693.9	1838.6	2538.0	A_1
## 95	1610.18	1720.9	1857.6	2559.0	A_1
## 96	1605.16	1717.9	1857.6	2554.9	A_1
## 97	1623.84	1733.6	1858.4	2575.5	A_1
## 98	1615.26	1729.7	1846.8	2546.5	A_1
## 99	1627.08	1735.6	1868.5	2561.6	A_1
## 100	1626.97	1734.1	1863.2	2546.6	A_1
## 101	1605.70	1699.3	1808.3	2502.9	A_1
## 102	1589.70	1678.6	1765.1	2463.1	A_1
## 103	1589.70	1675.5	1763.5	2472.6	A_1
## 104	1603.26	1670.1	1766.0	2463.5	A_1
## 105	1599.75	1652.2	1741.3	2446.3	A_1
## 106	1590.86	1635.0	1743.3	2456.2	A_1
## 107	1603.50	1654.9	1769.0	2471.5	A_1
## 108	1589.86	1642.0	1757.9	2447.5	A_1
## 109	1587.92	1638.7	1754.9	2428.6	A_1
## 110	1571.06	1622.6	1739.7	2420.2	A_1
## 111	1549.81	1596.1	1708.8	2414.9	A_1
## 112	1549.36	1612.4	1722.2	2420.2	A_1
## 113	1554.65	1625.0	1713.9	2423.8	A_1
## 114	1557.52	1610.5	1703.2	2407.0	A_1
## 115	1555.31	1606.6	1685.7	2388.7	A_1
## 116	1559.76	1610.7	1663.4	2409.6	A_1
## 117	1548.44	1603.1	1636.9	2392.0	A_1
## 118	1543.99	1591.5	1645.6	2380.2	A_1
## 119	1550.21	1605.2	1671.6	2423.3	A_1
## 120	1557.03	1621.4	1688.3	2451.6	A_1

## 121	1551.78	1622.5	1696.8	2440.8	A_1
## 122	1562.89	1626.6	1711.7	2432.9	A_1
## 123	1570.28	1627.4	1706.2	2413.6	A_1
## 124	1559.26	1614.9	1684.2	2391.6	A_1
## 125	1545.87	1602.3	1648.5	2358.1	A_1
## 126	1542.77	1598.3	1633.6	2345.4	A_1
## 127	1542.77	1627.0	1699.1	2384.4	A_1
## 128	1542.77	1627.0	1699.1	2384.4	A_1
## 129	1542.77	1627.0	1722.5	2384.4	A_1
## 130	1564.27	1655.7	1720.7	2418.7	A_1
## 131	1577.26	1670.1	1741.9	2420.0	A_1
## 132	1577.26	1670.1	1765.7	2493.1	A_1
## 133	1577.26	1670.1	1765.7	2493.1	A_1
## 134	1598.19	1670.1	1749.9	2492.8	A_1
## 135	1604.05	1704.0	1770.3	2504.1	A_1
## 136	1604.69	1711.8	1787.6	2493.2	A_1
## 137	1593.65	1700.5	1778.7	2482.9	A_1
## 138	1581.68	1690.3	1785.6	2467.1	A_1
## 139	1599.14	1715.4	1833.9	2497.9	A_1
## 140	1613.82	1723.5	1837.4	2477.9	A_1
## 141	1620.45	1719.4	1824.3	2490.1	A_1
## 142	1629.51	1734.4	1843.8	2516.3	A_1
## 143	1663.70	1772.8	1873.6	2537.1	A_1
## 144	1664.09	1760.3	1860.2	2541.6	A_1
## 145	1669.29	1747.2	1860.2	2536.7	A_1
## 146	1685.14	1750.2	1865.9	2544.9	A_1
## 147	1687.07	1755.3	1867.9	2543.4	A_1
## 148	1680.13	1754.6	1841.3	2522.0	A_1
## 149	1671.84	1751.2	1838.7	2525.3	A_1
## 150	1669.52	1752.5	1849.9	2510.4	A_1
## 151	1686.71	1769.4	1869.3	2539.9	A_1
## 152	1685.51	1767.6	1890.6	2552.0	A_1
## 153	1671.01	1750.0	1879.6	2546.5	A_1
## 154	1683.06	1747.1	1873.9	2550.8	A_1
## 155	1685.70	1753.5	1875.3	2571.2	A_1
## 156	1685.66	1752.8	1857.0	2560.2	A_1
## 157	1678.77	1752.9	1856.5	2556.8	A_1
## 158	1685.85	1764.7	1865.8	2547.1	A_1
## 159	1683.71	1776.8	1860.6	2534.3	A_1
## 160	1686.59	1779.3	1861.6	2517.2	A_1
## 161	1683.73	1785.1	1865.6	2538.4	A_1
## 162	1679.14	1798.2	1864.1	2537.1	A_1
## 163	1685.03	1794.1	1861.6	2523.7	A_1
## 164	1680.81	1795.2	1876.5	2522.6	A_1
## 165	1676.17	1780.4	1865.1	2513.9	A_1
## 166	1688.46	1789.5	1882.1	2541.0	A_1
## 167	1696.55	1794.2	1912.2	2555.9	A_1
## 168	1690.24	1784.4	1915.4	2536.7	A_1
## 169	1711.35	1800.1	1951.2	2543.4	A_1
## 170	1711.29	1804.0	1962.4	2542.3	A_1
## 171	1729.86	1816.2	1976.5	2559.7	A_1
## 172	1716.63	1810.5	1953.5	2546.8	A_1
## 173	1743.36	1821.9	1981.3	2565.0	A_1
## 174	1745.17	1828.2	1985.1	2562.0	A_3

## 175	1746.76	1840.6	1983.4	2562.1	A_3
## 176	1749.29	1841.1	1979.7	2554.3	A_3
## 177	1763.86	1846.3	1983.8	2565.4	A_3
## 178	1762.27	1850.0	1988.1	2558.4	A_3
## 179	1762.29	1839.0	1973.0	2538.3	A_3
## 180	1746.77	1820.2	1966.9	2533.1	A_3
## 181	1753.50	1815.2	1976.3	2550.7	A_3
## 182	1753.21	1820.6	1993.9	2574.8	A_3
## 183	1739.88	1807.1	1968.0	2522.4	A_1
## 184	1723.92	1791.4	1941.8	2493.3	A_1
## 185	1734.42	1806.2	1947.1	2476.0	A_1
## 186	1723.13	1798.7	1929.2	2470.7	A_1
## 187	1732.92	1818.2	1943.6	2491.2	A_1
## 188	1729.89	1820.5	1928.2	2464.7	A_1
## 189	1725.74	1833.3	1922.0	2467.6	A_1
## 190	1730.90	1837.1	1919.1	2456.6	A_1
## 191	1714.17	1818.2	1884.6	2441.0	A_1
## 192	1716.20	1824.1	1896.3	2458.7	A_1
## 193	1719.06	1830.1	1928.3	2464.9	A_1
## 194	1718.21	1835.6	1934.8	2472.2	A_1
## 195	1698.84	1828.7	1923.5	2447.9	A_1
## 196	1714.76	1839.2	1943.8	2452.9	A_1
## 197	1718.35	1837.2	1942.4	2440.1	A_1
## 198	1706.69	1826.7	1928.1	2408.6	A_1
## 199	1723.37	1838.0	1942.0	2405.4	A_1
## 200	1716.18	1829.1	1942.7	2382.7	A_1
## 201	1738.78	1843.1	1974.8	2400.9	A_1
## 202	1737.41	1850.5	1975.4	2404.2	A_1
## 203	1714.77	1827.1	1907.5	2393.2	A_1
## 204	1724.24	1829.1	1943.6	2436.4	A_1
## 205	1733.77	1848.0	1974.1	2572.6	A_1
## 206	1729.96	1840.5	1963.3	2591.0	A_1
## 207	1734.46	1853.8	1972.3	2600.5	A_1
## 208	1744.35	1874.1	1990.7	2640.2	A_3
## 209	1746.88	1871.3	1978.2	2638.6	A_3
## 210	1746.88	1871.3	1978.2	2638.6	A_3
## 211	1746.88	1871.3	1978.2	2638.6	A_3
## 212	1747.47	1860.5	1980.4	2625.8	A_3
## 213	1753.10	1874.7	1983.7	2607.8	A_3
## 214	1745.17	1880.1	1978.1	2609.8	A_3
## 215	1745.72	1874.7	1984.9	2643.0	A_3
## 216	1742.92	1875.6	1995.7	2658.2	A_1
## 217	1731.68	1859.5	2006.6	2651.0	A_1
## 218	1731.18	1874.2	2036.7	2664.9	A_1
## 219	1728.09	1880.1	2031.1	2654.1	A_1
## 220	1728.09	1880.1	2031.1	2659.8	A_1
## 221	1731.29	1907.7	2041.6	2659.8	A_1
## 222	1733.82	1920.5	2046.9	2662.2	A_1
## 223	1745.78	1937.3	2047.2	2698.7	A_3
## 224	1752.57	1936.8	2063.4	2701.9	A_3
## 225	1748.13	1949.1	2063.4	2725.7	A_3
## 226	1750.70	1963.7	2077.5	2737.8	A_3
## 227	1747.91	1950.8	2063.6	2722.4	A_3
## 228	1745.79	1953.5	2053.2	2720.5	A_3

##	229	1735.34	1945.0	2017.0	2694.7	A_1
##	230	1719.92	1921.1	2024.0	2682.6	A_1
##	231	1763.59	1939.1	2051.6	2703.6	A_3
##	232	1766.76	1928.0	2023.1	2700.6	A_3
##	233	1785.40	1933.4	2030.8	2711.9	A_3
##	234	1783.56	1925.7	2016.8	2702.0	A_3
##	235	1804.42	1931.7	2045.1	2715.0	A_3
##	236	1812.33	1928.7	2046.3	2715.0	A_3
##	237	1799.51	1924.5	2029.6	2704.6	A_3
##	238	1792.80	1914.2	2014.1	2698.6	A_3
##	239	1792.80	1914.2	2014.1	2694.2	A_3
##	240	1806.36	1920.6	2033.3	2707.6	A_3
##	241	1798.23	1923.3	2017.4	2697.6	A_3
##	242	1800.62	1930.4	2024.9	2705.9	A_3
##	243	1786.19	1915.2	1992.6	2680.9	A_3
##	244	1791.35	1916.9	1994.9	2681.9	A_3
##	245	1789.05	1913.8	1981.6	2668.5	A_3
##	246	1789.05	1913.8	1981.6	2645.8	A_3
##	247	1784.71	1899.7	1962.2	2635.4	A_3
##	248	1789.45	1888.0	1953.7	2636.1	A_3
##	249	1779.74	1868.8	1928.8	2614.1	A_3
##	250	1786.97	1879.9	1928.3	2603.7	A_3
##	251	1773.25	1865.7	1918.1	2593.6	A_3
##	252	1781.62	1881.3	1931.4	2616.3	A_3
##	253	1773.75	1873.1	1908.8	2598.4	A_3
##	254	1773.75	1862.5	1891.8	2562.7	A_3
##	255	1776.34	1869.3	1913.9	2584.8	A_3
##	256	1770.72	1846.9	1885.8	2550.3	A_3
##	257	1772.39	1847.1	1895.8	2560.6	A_3
##	258	1762.55	1838.3	1899.6	2532.6	A_3
##	259	1764.35	1845.8	1920.3	2557.3	A_3
##	260	1752.83	1835.5	1915.3	2534.1	A_3
##	261	1755.98	1846.6	1907.3	2515.8	A_3
##	262	1754.95	1854.8	1900.6	2521.2	A_3
##	263	1759.90	1845.3	1880.9	2493.9	A_3
##	264	1759.84	1854.5	1873.5	2476.1	A_3
##	265	1776.50	1870.5	1883.6	2497.1	A_3
##	266	1769.98	1862.6	1868.5	2469.0	A_3
##	267	1766.98	1856.6	1879.1	2493.7	A_3
##	268	1752.29	1837.6	1847.8	2472.6	A_3
##	269	1760.17	1846.7	1861.8	2497.9	A_3
##	270	1750.32	1856.5	1859.4	2490.8	A_3
##	271	1731.44	1841.8	1859.4	2478.3	A_1
##	272	1735.51	1835.0	1859.4	2484.0	A_1
##	273	1733.84	1844.4	1853.3	2486.4	A_1
##	274	1730.78	1838.9	1851.2	2483.4	A_1
##	275	1699.46	1805.6	1801.8	2431.9	A_1
##	276	1652.71	1756.6	1767.9	2403.7	A_1
##	277	1654.09	1786.1	1762.7	2415.6	A_1
##	278	1636.81	1757.1	1727.5	2387.9	A_1
##	279	1622.81	1762.8	1734.6	2399.5	A_1
##	280	1613.36	1756.8	1734.6	2377.2	A_1
##	281	1617.78	1761.9	1755.4	2348.0	A_1
##	282	1617.18	1778.5	1769.0	2373.4	A_1

## 283	1637.62	1812.7	1801.6	2423.2	A_1
## 284	1622.20	1806.1	1782.6	2411.6	A_1
## 285	1608.49	1798.1	1754.7	2399.6	A_1
## 286	1605.11	1794.9	1784.4	2420.2	A_1
## 287	1609.61	1805.4	1787.6	2407.5	A_1
## 288	1624.94	1820.3	1798.0	2392.8	A_1
## 289	1618.07	1819.6	1793.8	2377.6	A_1
## 290	1611.96	1809.6	1777.3	2350.1	A_1
## 291	1578.95	1799.9	1755.2	2325.7	A_1
## 292	1561.39	1800.3	1737.8	2309.6	A_1
## 293	1547.87	1793.3	1730.1	2303.1	A_1
## 294	1548.63	1784.8	1722.4	2318.0	A_1
## 295	1560.16	1791.7	1753.5	2356.8	A_1
## 296	1554.76	1800.2	1757.3	2376.1	A_1
## 297	1531.87	1788.6	1736.7	2354.7	A_1
## 298	1526.14	1775.7	1734.2	2363.5	A_1
## 299	1509.03	1753.5	1724.2	2359.4	A_1
## 300	1530.03	1768.2	1744.2	2365.7	A_1
## 301	1484.97	1727.9	1689.7	2311.1	A_1
## 302	1464.03	1709.6	1667.7	2281.0	A_1
## 303	1475.11	1704.6	1667.8	2285.0	A_1
## 304	1516.12	1740.6	1687.6	2311.6	A_1
## 305	1519.69	1745.7	1687.5	2312.6	A_1
## 306	1529.97	1751.7	1684.9	2312.6	A_1
## 307	1516.44	1747.3	1674.2	2298.4	A_1
## 308	1515.53	1757.8	1711.4	2313.0	A_1
## 309	1543.89	1774.2	1780.5	2381.9	A_1
## 310	1534.72	1774.4	1779.0	2362.2	A_1
## 311	1538.66	1788.3	1779.3	2372.2	A_1
## 312	1536.71	1788.0	1763.7	2337.7	A_1
## 313	1523.83	1779.1	1756.8	2327.5	A_1
## 314	1527.10	1792.8	1774.2	2340.6	A_1
## 315	1530.20	1812.0	1802.0	2370.9	A_1
## 316	1601.50	1872.1	1873.6	2422.1	A_1
## 317	1580.29	1851.4	1836.2	2370.0	A_1
## 318	1595.09	1873.4	1859.8	2378.3	A_1
## 319	1579.47	1889.6	1852.7	2483.9	A_1
## 320	1600.59	1897.5	1882.9	2567.0	A_1
## 321	1566.00	1888.8	1826.1	2560.1	A_1
## 322	1557.01	1900.4	1832.8	2586.0	A_1
## 323	1542.74	1913.4	1828.9	2580.5	A_1
## 324	1536.30	1909.9	1829.5	2621.2	A_1
## 325	1510.66	1910.8	1843.5	2601.0	A_1
## 326	1481.03	1879.2	1770.3	2560.0	A_1
## 327	1483.83	1880.2	1731.9	2565.5	A_1
## 328	1470.09	1878.3	1736.7	2553.0	A_1
## 329	1484.78	1885.2	1724.0	2572.3	A_1
## 330	1475.41	1867.6	1683.3	2549.7	A_1
## 331	1402.34	1788.0	1611.0	2446.3	A_1
## 332	1421.49	1820.5	1612.5	2488.4	A_1
## 333	1434.61	1858.2	1654.2	2517.1	A_1
## 334	1446.32	1870.3	1673.9	2538.8	A_1
## 335	1437.65	1878.4	1657.3	2541.2	A_1
## 336	1441.57	1881.5	1655.1	2557.2	A_1

## 337	1471.64	1893.2	1685.1	2584.7	A_1
## 338	1453.95	1889.3	1667.9	2574.7	A_1
## 339	1453.79	1877.3	1650.0	2546.6	A_1
## 340	1458.02	1884.0	1664.2	2563.9	A_1
## 341	1479.59	1904.7	1679.1	2562.2	A_1
## 342	1504.89	1922.7	1731.3	2617.0	A_1
## 343	1496.54	1908.5	1722.2	2645.7	A_1
## 344	1511.00	1911.4	1730.7	2658.1	A_1
## 345	1528.86	1921.1	1766.4	2669.7	A_1
## 346	1534.02	1930.8	1770.7	2661.6	A_1
## 347	1536.60	1927.8	1774.5	2669.8	A_1
## 348	1508.19	1908.3	1749.9	2650.4	A_1
## 349	1493.54	1905.9	1730.9	2642.3	A_1
## 350	1489.68	1911.1	1742.4	2658.3	A_1
## 351	1482.44	1921.6	1742.4	2687.8	A_1
## 352	1483.34	1933.6	1786.9	2705.6	A_1
## 353	1470.57	1942.0	1804.1	2691.7	A_1
## 354	1484.84	1951.5	1804.7	2711.1	A_1
## 355	1487.71	1955.7	1793.6	2702.7	A_1
## 356	1508.63	1957.4	1786.7	2695.4	A_1
## 357	1515.27	1962.3	1798.5	2714.6	A_1
## 358	1509.84	1946.1	1798.5	2696.8	A_1
## 359	1542.28	1950.2	1821.5	2726.4	A_1
## 360	1541.79	1929.7	1796.8	2697.5	A_1
## 361	1542.48	1913.4	1772.7	2679.6	A_1
## 362	1550.27	1889.5	1764.4	2679.2	A_1
## 363	1550.27	1882.8	1759.2	2704.0	A_1
## 364	1543.37	1895.4	1722.3	2706.2	A_1
## 365	1547.84	1897.9	1724.2	2732.4	A_1
## 366	1523.62	1891.5	1674.8	2722.9	A_1
## 367	1526.68	1880.1	1720.6	2727.1	A_1
## 368	1513.42	1887.0	1721.0	2709.6	A_1
## 369	1523.02	1891.4	1739.7	2741.8	A_1
## 370	1529.69	1914.6	1749.7	2760.1	A_1
## 371	1545.12	1931.2	1771.4	2778.8	A_1
## 372	1546.82	1929.2	1792.3	2792.0	A_1
## 373	1528.12	1924.3	1783.3	2764.1	A_1
## 374	1530.65	1927.0	1799.4	2771.0	A_1
## 375	1526.25	1935.0	1781.7	2759.4	A_1
## 376	1519.48	1955.4	1788.6	2754.5	A_1
## 377	1506.65	1962.2	1765.9	2769.8	A_1
## 378	1504.30	1980.7	1791.2	2750.7	A_1
## 379	1480.65	1987.7	1769.5	2726.5	A_1
## 380	1476.70	1993.7	1758.7	2716.2	A_1
## 381	1478.07	2015.7	1738.3	2721.8	A_1
## 382	1479.62	2005.0	1744.8	2717.9	A_1
## 383	1477.55	2023.9	1736.7	2732.8	A_1
## 384	1472.59	2028.5	1735.2	2740.3	A_1
## 385	1495.60	2044.9	1760.1	2789.7	A_1
## 386	1517.45	2045.8	1786.3	2807.7	A_1
## 387	1520.93	2057.3	1824.4	2842.0	A_1
## 388	1527.06	2061.7	1821.1	2827.4	A_1
## 389	1527.06	2061.7	1854.6	2827.5	A_1
## 390	1527.06	2061.7	1854.6	2827.5	A_1

## 391	1547.51	2092.3	1857.5	2827.5	A_1
## 392	1545.82	2090.1	1870.3	2847.8	A_1
## 393	1538.43	2105.4	1858.8	2832.5	A_1
## 394	1538.43	2105.4	1857.8	2846.5	A_1
## 395	1538.43	2105.4	1857.8	2846.5	A_1
## 396	1538.04	2117.7	1843.1	2861.5	A_1
## 397	1554.03	2128.2	1850.8	2833.6	A_1
## 398	1551.17	2124.7	1859.6	2826.0	A_1
## 399	1538.37	2079.9	1844.5	2816.5	A_1
## 400	1529.10	2074.9	1852.6	2799.2	A_1
## 401	1522.26	2046.4	1814.6	2773.4	A_1
## 402	1533.79	2079.8	1796.8	2757.9	A_1
## 403	1510.18	2076.7	1782.5	2745.3	A_1
## 404	1526.91	2104.5	1803.5	2759.2	A_1
## 405	1555.52	2101.3	1827.1	2765.1	A_1
## 406	1581.49	2084.0	1837.5	2763.1	A_1
## 407	1572.61	2063.9	1837.7	2737.6	A_1
## 408	1572.69	2062.7	1818.8	2748.7	A_1
## 409	1580.64	2089.9	1812.2	2773.3	A_1
## 410	1593.35	2102.9	1820.4	2781.2	A_1
## 411	1571.28	2086.0	1779.9	2771.9	A_1
## 412	1575.59	2085.9	1792.6	2835.7	A_1
## 413	1561.78	2064.1	1777.4	2832.5	A_1
## 414	1572.68	2072.7	1780.6	2816.9	A_1
## 415	1574.04	2091.0	1772.2	2807.2	A_1
## 416	1590.33	2120.2	1785.9	2851.6	A_1
## 417	1584.14	2120.4	1787.3	2834.4	A_1
## 418	1605.91	2117.6	1824.1	2873.8	A_1
## 419	1615.98	2123.7	1854.4	2865.9	A_1
## 420	1643.83	2132.2	1908.2	2862.9	A_1
## 421	1646.85	2137.0	1904.7	2870.0	A_1
## 422	1639.12	2134.8	1894.1	2831.3	A_1
## 423	1642.80	2121.4	1893.3	2816.4	A_1
## 424	1659.07	2127.5	1905.6	2834.3	A_1
## 425	1649.64	2135.5	1912.0	2843.0	A_1
## 426	1674.93	2144.8	1899.5	2845.9	A_1
## 427	1651.60	2131.0	1878.2	2812.2	A_1
## 428	1656.35	2112.9	1905.0	2814.0	A_1
## 429	1670.90	2131.3	1926.5	2837.7	A_1
## 430	1683.30	2117.8	1937.2	2840.0	A_1
## 431	1679.41	2096.1	1959.2	2838.3	A_1
## 432	1658.09	2051.5	1944.1	2818.0	A_1
## 433	1652.92	2065.7	1953.4	2817.0	A_1
## 434	1661.96	2061.0	1944.6	2828.7	A_1
## 435	1680.02	2100.6	1983.7	2868.0	A_1
## 436	1691.37	2120.5	1998.8	2882.6	A_1
## 437	1701.46	2130.9	2001.5	2882.3	A_1
## 438	1690.48	2142.4	1995.2	2918.6	A_1
## 439	1685.46	2139.5	1986.8	2904.8	A_1
## 440	1686.15	2134.6	1995.1	2916.6	A_1
## 441	1702.27	2132.2	2004.3	2957.3	A_1
## 442	1711.91	2150.1	2009.7	2949.9	A_1
## 443	1714.48	2157.0	1992.4	2956.7	A_1
## 444	1708.65	2165.0	1988.9	2953.4	A_1

## 445	1688.74	2127.2	1965.2	2915.9	A_1
## 446	1705.05	2157.2	1986.0	2922.4	A_1
## 447	1700.28	2150.8	1975.3	2919.3	A_1
## 448	1689.71	2139.1	1967.3	2889.9	A_1
## 449	1696.38	2154.7	1963.5	2883.3	A_1
## 450	1686.57	2182.4	1962.7	2900.1	A_1
## 451	1656.59	2161.3	1939.3	2863.9	A_1
## 452	1653.20	2166.3	1952.2	2861.1	A_1
## 453	1666.72	2146.8	1954.6	2860.6	A_1
## 454	1663.27	2135.7	2001.4	2852.8	A_1
## 455	1667.26	2160.9	2025.8	2852.9	A_1
## 456	1675.18	2175.7	2033.9	2846.5	A_1
## 457	1686.64	2188.9	2035.9	2861.0	A_1
## 458	1676.84	2190.3	2031.4	2878.7	A_1
## 459	1670.04	2188.4	2005.9	2878.4	A_1
## 460	1657.06	2190.3	1990.8	2869.9	A_1
## 461	1658.36	2184.0	1974.7	2838.8	A_1
## 462	1667.64	2196.0	1995.3	2832.2	A_1
## 463	1654.60	2184.9	1984.0	2822.1	A_1
## 464	1658.13	2188.3	1986.9	2821.8	A_1
## 465	1658.13	2188.3	1986.9	2821.8	A_1
## 466	1658.13	2188.3	1986.9	2821.8	A_1
## 467	1671.54	2181.7	2018.1	2846.8	A_1
## 468	1674.95	2165.7	2015.4	2842.1	A_1
## 469	1674.67	2160.5	1988.6	2839.7	A_1
## 470	1678.65	2162.9	1986.7	2824.4	A_1
## 471	1687.14	2166.3	1968.9	2830.0	A_1
## 472	1680.06	2170.8	1949.3	2856.1	A_1
## 473	1666.49	2178.1	1931.9	2869.6	A_1
## 474	1680.01	2177.3	1944.5	2881.1	A_1
## 475	1656.03	2162.3	1916.6	2843.8	A_1
## 476	1643.53	2140.4	1911.6	2822.3	A_1
## 477	1636.59	2124.7	1927.4	2832.7	A_1
## 478	1630.88	2138.2	1942.5	2797.3	A_1
## 479	1618.60	2123.2	1920.6	2786.8	A_1
## 480	1626.83	2129.7	1939.0	2813.1	A_1
## 481	1632.00	2152.8	1937.0	2813.1	A_1
## 482	1619.92	2160.0	1923.6	2812.6	A_1
## 483	1628.88	2165.8	1926.3	2796.5	A_1
## 484	1617.74	2165.4	1920.5	2786.3	A_1
## 485	1607.70	2162.6	1878.6	2793.7	A_1
## 486	1616.45	2179.1	1877.2	2829.7	A_1
## 487	1613.46	2191.1	1854.5	2836.1	A_1
## 488	1632.99	2191.5	1872.7	2860.8	A_1
## 489	1636.02	2183.3	1879.9	2849.3	A_1
## 490	1632.35	2186.3	1851.7	2847.0	A_1
## 491	1630.37	2205.2	1835.7	2858.1	A_1
## 492	1619.26	2227.2	1846.4	2847.3	A_1
## 493	1606.64	2227.0	1836.8	2819.7	A_1
## 494	1606.64	2227.0	1836.8	2816.8	A_1
## 495	1613.98	2232.9	1836.8	2812.2	A_1
## 496	1608.58	2237.4	1861.4	2825.6	A_1
## 497	1623.05	2243.5	1891.1	2837.7	A_1
## 498	1617.18	2247.5	1890.4	2846.9	A_1

## 499	1633.18	2267.1	1904.6	2855.3	A_1
## 500	1627.21	2271.6	1888.7	2840.7	A_1
## 501	1627.21	2271.6	1888.7	2840.7	A_1
## 502	1625.59	2253.8	1872.8	2849.2	A_1
## 503	1628.53	2259.8	1875.8	2863.0	A_1
## 504	1630.56	2269.0	1867.9	2852.8	A_1
## 505	1638.47	2284.2	1859.7	2829.9	A_1
## 506	1660.88	2309.7	1887.9	2844.8	A_1
## 507	1662.28	2294.5	1893.7	2844.4	A_1
## 508	1679.69	2312.5	1915.2	2866.9	A_1
## 509	1679.69	2309.2	1911.2	2860.0	A_1
## 510	1685.85	2308.6	1920.4	2861.8	A_1
## 511	1686.44	2293.8	1916.8	2885.5	A_1
## 512	1684.57	2274.0	1897.9	2870.0	A_1
## 513	1689.93	2294.6	1918.8	2883.0	A_1
## 514	1681.47	2323.4	1900.3	2875.7	A_1
## 515	1687.14	2318.0	1910.3	2879.4	A_1
## 516	1697.26	2329.5	1929.2	2903.4	A_1
## 517	1698.33	2335.0	1935.3	2907.6	A_1
## 518	1690.96	2323.9	1942.4	2900.7	A_1
## 519	1692.16	2335.8	1963.3	2894.7	A_1
## 520	1699.52	2347.3	1960.8	2887.5	A_1
## 521	1712.33	2369.8	1991.0	2897.0	A_1
## 522	1703.05	2371.9	1977.5	2886.0	A_1
## 523	1700.93	2376.2	1971.9	2900.0	A_1
## 524	1698.36	2375.5	1960.2	2888.8	A_1
## 525	1697.39	2368.8	1941.2	2857.7	A_1
## 526	1694.83	2364.4	1925.4	2838.5	A_1
## 527	1705.66	2390.9	1935.1	2848.1	A_1
## 528	1739.48	2372.0	1943.7	2848.3	A_1
## 529	1798.63	2397.1	1980.4	2845.9	A_3
## 530	1798.36	2403.0	1985.7	2843.2	A_3
## 531	1808.74	2408.7	1992.2	2830.9	A_3
## 532	1806.52	2418.1	1991.2	2837.1	A_3
## 533	1815.63	2410.5	1991.2	2832.3	A_3
## 534	1807.12	2399.9	1963.1	2831.7	A_3
## 535	1829.36	2396.4	1974.9	2833.0	A_3
## 536	1835.09	2381.8	1981.7	2842.9	A_3
## 537	1826.45	2324.5	1968.4	2823.9	A_3
## 538	1821.28	2313.7	1947.5	2814.1	A_3
## 539	1828.53	2340.2	1965.7	2820.1	A_3
## 540	1830.61	2350.5	1995.0	2827.7	A_3
## 541	1859.49	2388.7	2006.2	2844.2	A_3
## 542	1846.02	2398.0	1998.1	2879.4	A_3
## 543	1832.20	2408.7	1989.5	2884.2	A_3
## 544	1823.40	2401.5	2036.0	2917.6	A_3
## 545	1823.07	2400.9	2085.9	2926.5	A_3
## 546	1818.10	2400.7	2129.0	2941.7	A_3
## 547	1857.36	2429.8	2110.6	2945.0	A_3
## 548	1861.22	2431.5	2101.4	2941.3	A_3
## 549	1870.80	2424.9	2115.3	2943.4	A_3
## 550	1878.94	2423.3	2149.8	2969.8	A_3
## 551	1870.24	2420.5	2138.5	2986.4	A_3
## 552	1864.51	2384.5	2139.8	2971.6	A_3

## 553	1894.56	2411.1	2167.4	3006.1	A_3
## 554	1908.69	2449.5	2161.9	3009.1	A_3
## 555	1917.69	2461.0	2148.0	3010.1	A_3
## 556	1903.44	2478.7	2148.0	3008.3	A_3
## 557	1918.75	2464.9	2136.3	3025.0	A_3
## 558	1930.29	2488.0	2160.8	3073.6	A_3
## 559	1937.77	2480.6	2139.2	3065.5	A_3
## 560	1909.53	2474.5	2128.2	3057.6	A_3
## 561	1893.48	2467.3	2111.4	3042.0	A_3
## 562	1907.65	2472.4	2123.4	3049.3	A_3
## 563	1915.59	2499.7	2159.3	3079.2	A_3
## 564	1890.58	2475.2	2173.6	3079.2	A_3
## 565	1909.54	2478.6	2183.9	3100.6	A_3
## 566	1929.56	2481.0	2205.7	3100.6	A_3
## 567	1931.88	2488.5	2216.5	3100.0	A_3
## 568	1923.67	2470.4	2191.9	3085.1	A_3
## 569	1928.63	2463.8	2185.1	3072.6	A_3
## 570	1920.43	2438.8	2156.1	3057.3	A_3
## 571	1911.15	2392.5	2158.0	3055.4	A_3
## 572	1878.77	2403.4	2137.3	3038.6	A_3
## 573	1870.32	2397.9	2129.4	3035.4	A_3
## 574	1870.46	2382.1	2108.8	3031.2	A_3
## 575	1868.28	2363.6	2108.4	3037.0	A_3
## 576	1874.38	2365.6	2119.1	3024.8	A_3
## 577	1869.25	2388.3	2134.1	3028.0	A_3
## 578	1852.81	2361.8	2078.5	2989.4	A_3
## 579	1862.62	2374.4	2075.6	3003.9	A_3
## 580	1884.67	2385.2	2099.5	3005.5	A_3
## 581	1922.69	2418.4	2107.4	3004.5	A_3
## 582	1922.05	2431.8	2094.4	3001.6	A_3
## 583	1899.54	2414.6	2080.0	3007.5	A_3
## 584	1902.14	2425.8	2057.5	3001.3	A_3
## 585	1890.18	2445.9	2092.6	3005.2	A_3
## 586	1914.40	2482.4	2108.6	3026.3	A_3
## 587	1915.61	2478.3	2120.0	3036.9	A_3
## 588	1908.97	2485.4	2126.8	3030.1	A_3
## 589	1910.23	2473.1	2114.6	3037.5	A_3
## 590	1920.46	2481.6	2116.7	3039.3	A_3
## 591	1934.99	2490.3	2128.7	3067.7	A_3
## 592	1973.45	2521.3	2158.8	3085.2	A_3
## 593	1994.09	2534.8	2164.5	3100.8	A_3
## 594	1991.95	2528.0	2147.4	3092.4	A_3
## 595	2015.71	2533.6	2156.4	3108.6	A_3
## 596	2009.28	2548.5	2138.7	3102.2	A_3
## 597	2004.11	2552.5	2126.9	3094.7	A_3
## 598	1999.60	2571.0	2127.3	3080.9	A_3
## 599	1995.35	2586.4	2113.9	3086.3	A_3
## 600	2023.26	2612.6	2139.3	3120.8	A_3
## 601	2032.25	2663.6	2145.0	3137.6	A_3
## 602	2036.93	2660.7	2147.3	3129.6	A_3
## 603	2029.87	2668.4	2149.7	3156.3	A_3
## 604	2048.05	2690.1	2199.7	3188.3	A_3
## 605	2083.62	2701.4	2231.9	3199.0	A_3
## 606	2061.18	2685.0	2227.7	3184.8	A_3

## 607	2048.75	2700.2	2210.4	3165.3	A_3
## 608	2040.97	2715.9	2192.0	3154.3	A_3
## 609	2053.66	2720.9	2196.0	3163.0	A_3
## 610	2064.98	2723.2	2182.0	3171.0	A_3
## 611	2068.51	2727.1	2182.0	3164.4	A_3
## 612	2086.40	2742.9	2169.7	3164.1	A_3
## 613	2086.22	2749.9	2171.2	3162.3	A_3
## 614	2057.10	2706.6	2136.0	3149.0	A_3
## 615	2013.65	2654.2	2081.0	3085.6	A_3
## 616	2007.50	2675.3	2084.8	3077.6	A_3
## 617	2040.74	2727.1	2112.9	3096.0	A_3
## 618	2020.11	2742.1	2087.3	3098.5	A_3
## 619	2021.81	2720.1	2087.3	3099.7	A_3
## 620	2023.06	2721.1	2096.9	3099.1	A_3
## 621	2047.20	2717.4	2117.9	3093.3	A_3
## 622	2070.17	2712.3	2115.9	3097.5	A_3
## 623	2070.17	2711.1	2148.0	3120.0	A_3
## 624	2075.99	2727.1	2149.7	3125.5	A_3
## 625	2072.13	2733.9	2145.2	3108.0	A_3
## 626	2020.36	2696.5	2082.6	3070.6	A_3
## 627	2027.99	2702.1	2071.5	3069.3	A_3
## 628	2036.45	2717.8	2070.6	3067.2	A_3
## 629	2057.80	2726.8	2118.4	3093.1	A_3
## 630	2045.25	2741.9	2120.6	3111.4	A_3
## 631	2052.09	2738.2	2119.3	3135.8	A_3
## 632	2052.92	2738.5	2110.1	3166.9	A_3
## 633	2089.77	2774.3	2154.0	3233.2	A_3
## 634	2099.76	2787.2	2160.5	3223.9	A_3
## 635	2128.30	2819.0	2188.4	3234.2	A_3
## 636	2118.01	2836.4	2186.7	3237.3	A_3
## 637	2127.39	2834.8	2176.1	3237.3	A_3
## 638	2165.95	2843.8	2205.3	3277.4	A_3
## 639	2166.58	2858.4	2211.4	3271.6	A_3
## 640	2165.50	2861.2	2198.1	3261.3	A_3
## 641	2163.83	2876.9	2196.3	3254.6	A_3
## 642	2128.07	2867.8	2156.5	3248.4	A_3
## 643	2129.52	2850.6	2162.6	3278.8	A_3
## 644	2144.03	2867.7	2160.3	3311.2	A_3
## 645	2154.76	2889.5	2196.4	3337.1	A_3
## 646	2188.18	2909.0	2223.5	3364.9	A_3
## 647	2183.78	2918.0	2215.9	3342.4	A_3
## 648	2209.17	2942.4	2225.8	3355.7	A_3
## 649	2227.63	2967.4	2243.0	3396.5	A_3
## 650	2227.63	2967.4	2251.5	3412.3	A_3
## 651	2266.70	2972.6	2276.6	3412.3	A_3
## 652	2236.91	2930.9	2264.6	3412.3	A_3
## 653	2229.62	2934.2	2281.9	3462.0	A_3
## 654	2255.29	2957.6	2281.2	3428.8	A_3
## 655	2255.29	2957.6	2268.2	3418.4	A_3
## 656	2274.62	2996.2	2290.6	3418.4	A_3
## 657	2249.85	2999.2	2274.3	3408.5	A_3
## 658	2233.61	3009.4	2249.6	3379.2	A_3
## 659	2220.63	3021.9	2275.1	3403.0	A_3
## 660	2224.95	3042.9	2307.6	3446.0	A_3

## 661	2225.00	3015.9	2317.3	3440.6	A_3
## 662	2228.10	3026.6	2331.3	3413.8	A_3
## 663	2182.06	2999.0	2281.9	3372.0	A_3
## 664	2142.37	2949.9	2252.2	3360.0	A_3
## 665	2151.05	2990.6	2262.3	3400.6	A_3
## 666	2115.56	3011.1	2234.8	3407.8	A_3
## 667	2130.35	3037.5	2247.4	3437.0	A_3
## 668	2132.52	3049.4	2274.7	3475.1	A_3
## 669	2098.36	3045.9	2257.8	3470.0	A_3
## 670	2073.94	3039.3	2244.0	3484.2	A_3
## 671	2107.29	3041.3	2274.5	3481.4	A_3
## 672	2090.78	3066.5	2278.3	3444.0	A_3
## 673	2128.66	3091.3	2282.4	3436.1	A_3
## 674	2123.31	3095.2	2281.0	3427.3	A_3
## 675	2156.61	3140.7	2313.2	3447.4	A_3
## 676	2192.60	3178.4	2334.4	3491.8	A_3
## 677	2181.88	3148.7	2331.3	3481.5	A_3
## 678	2184.05	3169.1	2355.9	3520.3	A_3
## 679	2137.08	3151.9	2322.0	3491.5	A_3
## 680	2143.90	3166.6	2329.2	3475.4	A_3
## 681	2095.11	3089.8	2287.1	3419.1	A_3
## 682	2099.57	3097.2	2299.9	3440.2	A_3
## 683	2116.43	3054.2	2302.1	3429.1	A_3
## 684	2119.69	3012.2	2296.8	3407.0	A_3
## 685	2108.77	3012.2	2275.1	3378.9	A_3
## 686	2101.93	2947.1	2281.6	3363.5	A_3
## 687	2130.71	2947.1	2258.0	3393.2	A_3
## 688	2135.25	2947.1	2258.0	3417.7	A_3
## 689	2162.29	3033.4	2281.2	3425.3	A_3
## 690	2133.85	3025.9	2251.8	3382.6	A_3
## 691	2108.06	2997.6	2215.2	3350.3	A_3
## 692	2113.64	2982.8	2226.7	3333.7	A_3
## 693	2140.25	3027.5	2252.0	3341.9	A_3
## 694	2082.90	2958.4	2208.3	3267.5	A_3
## 695	2075.33	2929.3	2199.0	3281.2	A_3
## 696	2103.24	2888.2	2238.1	3328.1	A_3
## 697	2057.20	2847.4	2183.1	3270.6	A_3
## 698	2018.69	2768.5	2144.7	3248.1	A_3
## 699	2044.45	2803.4	2144.7	3246.5	A_3
## 700	2076.76	2865.2	2178.7	3278.0	A_3
## 701	2132.12	2918.7	2219.9	3305.9	A_3
## 702	2125.47	2902.4	2216.4	3264.4	A_3
## 703	2118.01	2858.5	2199.7	3246.7	A_3
## 704	2124.51	2861.2	2184.6	3233.9	A_3
## 705	2101.89	2831.6	2175.0	3191.9	A_3
## 706	2169.40	2870.5	2215.0	3233.4	A_3
## 707	2178.91	2906.9	2258.5	3267.4	A_3
## 708	2168.11	2887.1	2242.7	3242.9	A_3
## 709	2160.45	2887.7	2247.8	3255.7	A_3
## 710	2140.39	2843.5	2221.3	3218.1	A_3
## 711	2130.55	2804.3	2202.7	3198.0	A_3
## 712	2141.70	2824.7	2200.7	3201.5	A_3
## 713	2162.96	2857.0	2200.2	3155.3	A_3
## 714	2144.36	2850.8	2152.6	3121.7	A_3

## 715	2144.00	2831.8	2136.6	3129.0	A_3
## 716	2167.72	2862.4	2144.5	3129.5	A_3
## 717	2162.82	2827.4	2123.4	3123.4	A_3
## 718	2151.84	2814.5	2083.9	3092.4	A_3
## 719	2142.88	2794.8	2081.9	3086.4	A_3
## 720	2142.88	2794.8	2081.9	3086.4	A_3
## 721	2142.88	2794.8	2081.9	3086.4	A_3
## 722	2177.09	2807.3	2100.3	3116.2	A_3
## 723	2184.89	2830.2	2128.2	3131.5	A_3
## 724	2202.57	2860.9	2119.6	3129.0	A_3
## 725	2203.18	2873.4	2114.8	3120.8	A_3
## 726	2224.85	2884.0	2145.3	3149.4	A_3
## 727	2211.19	2887.8	2148.6	3159.1	A_3
## 728	2215.19	2877.7	2152.4	3145.8	A_3
## 729	2198.24	2843.7	2139.1	3131.7	A_3
## 730	2211.92	2872.9	2159.6	3168.3	A_3
## 731	2218.37	2869.1	2160.1	3138.2	A_3
## 732	2193.89	2837.1	2136.0	3128.0	A_3
## 733	2194.09	2818.7	2102.7	3098.3	A_3
## 734	2194.41	2781.6	2092.0	3101.2	A_3
## 735	2218.13	2787.9	2135.2	3133.7	A_3
## 736	2208.68	2763.5	2116.3	3106.1	A_3
## 737	2241.36	2776.2	2130.9	3125.3	A_3
## 738	2256.98	2791.3	2147.3	3150.0	A_3
## 739	2237.82	2768.9	2150.3	3129.9	A_3
## 740	2252.51	2736.3	2166.0	3125.3	A_3
## 741	2266.72	2765.2	2186.2	3125.3	A_3
## 742	2261.71	2755.9	2179.0	3100.0	A_3
## 743	2241.85	2705.6	2141.6	3070.5	A_3
## 744	2249.78	2682.2	2162.6	3106.0	A_3
## 745	2233.55	2641.4	2158.2	3106.0	A_3
## 746	2218.77	2569.5	2139.4	3097.8	A_3
## 747	2241.34	2629.0	2165.0	3136.3	A_3
## 748	2248.02	2633.0	2176.7	3130.5	A_3
## 749	2248.02	2633.0	2176.7	3137.8	A_3
## 750	2257.33	2678.7	2187.0	3119.2	A_3
## 751	2272.96	2709.0	2187.8	3115.6	A_3
## 752	2268.11	2727.1	2195.2	3123.5	A_3
## 753	2254.21	2740.6	2184.0	3116.5	A_3
## 754	2245.79	2725.8	2165.4	3122.8	A_3
## 755	2238.97	2732.7	2155.4	3127.3	A_3
## 756	2238.97	2732.7	2155.4	3108.4	A_3
## 757	2188.01	2692.0	2133.3	3089.1	A_3
## 758	2137.56	2673.1	2084.4	3020.7	A_3
## 759	2146.00	2689.2	2091.9	3019.7	A_3
## 760	2112.80	2711.9	2050.7	2966.4	A_3
## 761	2129.76	2742.9	2052.5	2966.4	A_3
## 762	2137.34	2722.9	2029.9	2970.5	A_3
## 763	2113.62	2731.5	1979.7	2931.9	A_3
## 764	2120.23	2725.9	2007.4	2980.8	A_3
## 765	2158.88	2728.4	2041.7	2997.8	A_3
## 766	2163.59	2781.4	2037.2	3009.4	A_3
## 767	2131.80	2778.1	2023.7	3004.8	A_3
## 768	2143.93	2801.1	2046.8	3038.2	A_3

## 769	2131.14	2777.2	2028.4	3028.9	A_3
## 770	2143.58	2763.8	2020.7	3055.9	A_3
## 771	2084.42	2744.2	1977.7	3016.3	A_3
## 772	2088.44	2740.0	1992.0	3039.6	A_3
## 773	2073.21	2701.8	1966.4	3045.8	A_3
## 774	2047.29	2666.6	1942.8	3030.1	A_3
## 775	2031.80	2627.6	1936.0	3022.9	A_3
## 776	1986.42	2545.0	1903.0	2971.1	A_3
## 777	1957.08	2544.2	1890.8	2940.2	A_3
## 778	2004.93	2595.7	1917.0	2960.4	A_3
## 779	2032.52	2626.7	1939.0	2942.4	A_3
## 780	2005.07	2577.2	1907.0	2876.6	A_3
## 781	2000.48	2561.4	1911.6	2899.9	A_3
## 782	2022.25	2604.4	1925.8	2909.0	A_3
## 783	2042.45	2631.2	1936.3	2946.3	A_3
## 784	2020.85	2608.8	1892.0	2919.2	A_3
## 785	2040.69	2588.9	1872.9	2936.4	A_3
## 786	2061.70	2636.4	1866.2	2970.4	A_3
## 787	2034.64	2609.7	1878.7	2965.0	A_3
## 788	2031.33	2598.9	1889.0	2946.7	A_3
## 789	2049.10	2590.5	1920.8	2964.4	A_3
## 790	2047.83	2560.3	1920.8	2962.4	A_3
## 791	2069.46	2562.5	1949.8	2983.8	A_3
## 792	2048.57	2508.0	1942.1	2963.9	A_3
## 793	2051.25	2474.5	1974.6	3005.3	A_3
## 794	2070.71	2528.3	1974.6	3050.4	A_3
## 795	2103.54	2514.9	1974.6	3074.8	A_3
## 796	2116.96	2494.7	2025.1	3082.0	A_3
## 797	2129.86	2521.6	2052.3	3091.3	A_3
## 798	2120.97	2562.3	2043.7	3077.2	A_3
## 799	2126.75	2579.4	2053.8	3095.1	A_3
## 800	2148.23	2599.2	2041.4	3114.7	A_3
## 801	2144.21	2601.2	2059.8	3106.1	A_3
## 802	2163.32	2604.4	2076.8	3117.2	A_3
## 803	2135.93	2544.9	2055.7	3082.3	A_3
## 804	2134.12	2559.3	2053.4	3095.9	A_3
## 805	2152.19	2579.5	2075.0	3082.6	A_3
## 806	2161.50	2579.5	2069.6	3097.4	A_3
## 807	2193.63	2629.7	2117.2	3157.5	A_3
## 808	2190.83	2620.7	2115.0	3160.4	A_3
## 809	2176.66	2615.3	2096.5	3150.5	A_3
## 810	2188.81	2600.8	2107.1	3167.5	A_3
## 811	2182.32	2617.5	2106.3	3171.9	A_3
## 812	2160.56	2585.5	2074.5	3168.6	A_3
## 813	2166.51	2591.4	2064.2	3167.0	A_3
## 814	2156.31	2588.8	2038.9	3138.2	A_3
## 815	2133.74	2580.5	2007.0	3142.3	A_3
## 816	2134.34	2570.6	2007.0	3142.2	A_3
## 817	2152.65	2588.7	2012.4	3147.3	A_3
## 818	2166.56	2599.3	2035.0	3190.3	A_3
## 819	2151.44	2582.7	2010.5	3182.6	A_3
## 820	2143.84	2557.0	2001.3	3191.4	A_3
## 821	2113.37	2532.4	1972.6	3171.3	A_3
## 822	2121.25	2530.9	2000.6	3175.1	A_3

## 823	2132.98	2541.1	2006.3	3205.2	A_3
## 824	2153.48	2551.1	2026.5	3234.2	A_3
## 825	2190.58	2581.3	2062.7	3265.1	A_3
## 826	2215.72	2635.2	2075.3	3265.1	A_3
## 827	2205.82	2635.7	2060.4	3249.6	A_3
## 828	2207.09	2645.6	2069.1	3251.3	A_3
## 829	2185.78	2628.4	2034.9	3216.5	A_3
## 830	2197.38	2672.0	2020.4	3222.7	A_3
## 831	2173.60	2674.5	1998.2	3241.5	A_3
## 832	2158.07	2652.4	1961.5	3205.4	A_3
## 833	2167.68	2662.5	1964.2	3203.9	A_3
## 834	2178.10	2664.1	1983.4	3180.0	A_3
## 835	2155.58	2642.1	1948.8	3139.3	A_3
## 836	2155.81	2643.0	1966.8	3128.8	A_3
## 837	2157.15	2658.8	1969.4	3121.4	A_3
## 838	2118.17	2637.7	1952.9	3079.8	A_3
## 839	2129.36	2628.6	1977.3	3112.7	A_3
## 840	2097.45	2603.3	1924.6	3065.1	A_3
## 841	2100.55	2614.7	1922.9	3079.1	A_3
## 842	2059.15	2593.0	1919.3	3037.3	A_3
## 843	2067.17	2594.0	1897.2	3014.8	A_3
## 844	2072.81	2602.9	1899.4	3021.2	A_3
## 845	2097.33	2609.1	1927.4	3028.2	A_3
## 846	2057.83	2586.1	1902.7	2999.8	A_3
## 847	2056.89	2581.0	1901.3	3008.5	A_3
## 848	2070.36	2590.0	1905.0	3038.7	A_3
## 849	2016.08	2558.0	1876.2	2992.5	A_3
## 850	2002.30	2534.4	1879.3	3026.3	A_3
## 851	2002.30	2499.5	1852.8	2983.5	A_3
## 852	1988.67	2522.5	1876.1	3001.8	A_3
## 853	1946.49	2480.4	1833.7	2956.3	A_3
## 854	1965.41	2484.8	1843.4	2984.4	A_3
## 855	1977.67	2496.9	1856.4	2998.7	A_3
## 856	2048.56	2553.4	1898.3	3032.3	A_3
## 857	2087.71	2570.2	1919.0	3073.0	A_3
## 858	2072.68	2562.7	1918.1	3100.5	A_3
## 859	2108.08	2593.3	1955.6	3141.9	A_3
## 860	2118.52	2585.3	1933.0	3106.7	A_3
## 861	2095.58	2575.6	1906.4	3120.2	A_3
## 862	2069.58	2542.5	1898.6	3085.3	A_3
## 863	2055.94	2529.8	1876.3	3060.8	A_3
## 864	2048.15	2530.9	1867.4	3063.2	A_3
## 865	2016.60	2508.6	1842.1	3032.8	A_3
## 866	2022.64	2525.2	1841.6	3029.1	A_3
## 867	1995.85	2494.7	1824.4	3000.9	A_3
## 868	2009.45	2477.2	1831.5	2999.9	A_3
## 869	2026.37	2458.6	1858.1	3029.6	A_3
## 870	2064.86	2490.5	1905.7	3083.8	A_3
## 871	2061.58	2506.5	1905.7	3097.4	A_3
## 872	2066.18	2503.9	1905.7	3096.3	A_3
## 873	2039.91	2500.0	1873.6	3081.3	A_3
## 874	2061.37	2534.8	1911.1	3104.4	A_3
## 875	2069.39	2541.0	1931.7	3097.6	A_3
## 876	2043.30	2557.9	1906.1	3065.8	A_3

## 877	2056.36	2543.9	1921.5	3063.8	A_3
## 878	2090.78	2590.4	1943.9	3099.6	A_3
## 879	2098.04	2602.7	1948.4	3103.5	A_3
## 880	2073.67	2597.8	1948.4	3075.9	A_3
## 881	2091.04	2590.9	1941.1	3095.3	A_3
## 882	2112.21	2591.9	1954.5	3135.4	A_3
## 883	2112.21	2609.4	1950.2	3146.5	A_3
## 884	2091.94	2600.9	1927.5	3127.5	A_3
## 885	2089.48	2606.5	1926.5	3131.0	A_3
## 886	2097.20	2607.0	1927.8	3121.0	A_3
## 887	2073.29	2571.8	1911.4	3078.7	A_3
## 888	2040.05	2546.1	1893.1	3027.5	A_3
## 889	2058.79	2568.6	1934.7	3036.6	A_3
## 890	2056.27	2572.5	1945.9	3033.5	A_3
## 891	2050.82	2579.4	1952.4	3047.1	A_3
## 892	2036.24	2584.7	1940.0	3061.1	A_3
## 893	2057.08	2594.9	1975.9	3081.4	A_3
## 894	2045.54	2576.0	1964.0	3039.6	A_3
## 895	2042.38	2577.5	1982.7	3017.3	A_3
## 896	2067.26	2611.0	1973.7	3033.5	A_3
## 897	2046.99	2589.1	1969.0	3016.1	A_3
## 898	2044.04	2584.3	1969.8	3012.5	A_3
## 899	2041.85	2589.3	1954.1	3013.8	A_3
## 900	2024.19	2576.0	1937.0	2977.3	A_3
## 901	2003.64	2562.8	1919.3	2943.4	A_3
## 902	2019.13	2566.0	1917.1	2946.4	A_3
## 903	2040.94	2581.4	1930.2	2980.6	A_3
## 904	2054.23	2598.0	1931.1	2973.4	A_3
## 905	2069.90	2604.7	1924.2	3013.6	A_3
## 906	2066.59	2600.7	1928.1	3034.4	A_3
## 907	2080.16	2614.7	1924.7	3058.1	A_3
## 908	2095.50	2636.1	1940.9	3070.4	A_3
## 909	2102.25	2649.8	1952.1	3091.7	A_3
## 910	2100.98	2651.0	1949.9	3083.4	A_3
## 911	2100.98	2651.0	1966.6	3083.4	A_3
## 912	2110.77	2673.5	1956.0	3083.4	A_3
## 913	2097.34	2656.2	1927.8	3095.8	A_3
## 914	2074.68	2628.8	1894.2	3065.6	A_3
## 915	2097.51	2628.8	1881.2	3065.5	A_3
## 916	2079.19	2628.8	1881.2	3065.5	A_3
## 917	2068.92	2612.3	1885.9	3065.7	A_3
## 918	2072.90	2632.4	1901.8	3051.6	A_3
## 919	2051.46	2613.1	1871.5	3032.3	A_3
## 920	2058.20	2622.3	1886.4	3065.0	A_3
## 921	2053.41	2617.3	1864.2	3055.8	A_3
## 922	2062.08	2600.4	1859.2	3060.4	A_3
## 923	2061.76	2597.0	1849.1	3049.4	A_3
## 924	2059.68	2600.5	1844.1	3033.2	A_3
## 925	2064.14	2600.2	1854.0	3048.3	A_3
## 926	2088.25	2591.6	1872.8	3076.7	A_3
## 927	2081.39	2582.8	1856.9	3054.0	A_3
## 928	2085.62	2593.6	1860.3	3054.9	A_3
## 929	2079.60	2595.5	1837.1	3028.6	A_3
## 930	2050.86	2574.6	1813.3	2995.9	A_3

## 931	2013.03	2525.3	1772.8	2954.2	A_3
## 932	2027.67	2534.8	1780.2	2969.0	A_3
## 933	2026.97	2525.5	1802.5	2982.2	A_3
## 934	2040.79	2554.7	1826.3	3007.3	A_3
## 935	2030.56	2552.4	1814.1	3022.2	A_3
## 936	2026.68	2540.2	1813.4	2995.9	A_3
## 937	2024.82	2536.9	1797.9	2991.6	A_3
## 938	2047.44	2560.8	1827.8	3017.3	A_3
## 939	2038.46	2563.7	1816.1	3034.7	A_3
## 940	2077.94	2589.4	1842.4	3059.7	A_3
## 941	2085.08	2621.4	1872.1	3062.0	A_3
## 942	2093.01	2628.0	1870.4	3072.7	A_3
## 943	2087.78	2617.4	1850.9	3072.5	A_3
## 944	2117.80	2636.9	1874.4	3099.0	A_3
## 945	2127.56	2635.4	1869.4	3109.9	A_3
## 946	2118.96	2636.0	1850.1	3081.1	A_3
## 947	2128.33	2642.4	1856.1	3071.3	A_3
## 948	2135.49	2636.0	1861.9	3074.9	A_3
## 949	2112.06	2621.0	1835.0	3051.1	A_3
## 950	2119.29	2601.0	1822.5	3044.2	A_3
## 951	2101.98	2597.2	1802.2	3018.6	A_3
## 952	2101.82	2609.6	1805.6	3023.4	A_3
## 953	2096.26	2610.0	1804.4	3019.5	A_3
## 954	2126.44	2632.1	1827.0	3049.3	A_3
## 955	2117.59	2623.3	1805.7	3037.7	A_3
## 956	2106.05	2607.5	1802.2	3025.3	A_3
## 957	2097.85	2600.4	1776.9	3009.3	A_3
## 958	2127.21	2619.2	1808.4	3041.2	A_3
## 959	2116.64	2617.2	1807.4	3038.2	A_3
## 960	2094.16	2586.5	1795.2	3025.1	A_3
## 961	2069.95	2553.2	1773.3	3001.9	A_3
## 962	2041.26	2543.1	1748.6	2977.0	A_3
## 963	2029.38	2515.8	1756.8	2992.1	A_3
## 964	1989.20	2461.5	1727.1	2986.9	A_3
## 965	2008.85	2467.7	1743.1	3021.1	A_3
## 966	1974.14	2450.3	1721.8	3011.8	A_3
## 967	2022.50	2463.3	1769.0	3050.6	A_3
## 968	1995.22	2475.0	1738.6	3047.0	A_3
## 969	2016.15	2491.7	1785.8	3094.1	A_3
## 970	1979.52	2497.5	1788.8	3089.3	A_3
## 971	1984.99	2516.0	1811.6	3124.2	A_3
## 972	1984.15	2505.5	1813.8	3135.0	A_3
## 973	1978.07	2501.9	1818.0	3139.7	A_3
## 974	1935.08	2480.7	1795.7	3136.4	A_3
## 975	1935.87	2526.6	1817.3	3153.4	A_3
## 976	1928.82	2518.1	1836.1	3149.8	A_3
## 977	1911.70	2495.6	1837.2	3128.3	A_3
## 978	1918.85	2495.0	1852.4	3142.3	A_3
## 979	1949.76	2533.1	1893.0	3176.2	A_3
## 980	1914.69	2508.9	1859.5	3137.9	A_3
## 981	1934.96	2511.1	1864.0	3143.1	A_3
## 982	1965.68	2536.2	1882.8	3188.1	A_3
## 983	1972.59	2536.3	1872.9	3190.2	A_3
## 984	1976.52	2556.1	1890.2	3200.9	A_3

## 985	1978.71	2559.3	1900.4	3210.9	A_3
## 986	1980.81	2561.2	1880.9	3204.2	A_3
## 987	1979.26	2563.1	1869.3	3190.9	A_3
## 988	1991.08	2562.4	1871.9	3209.8	A_3
## 989	1982.99	2560.3	1881.1	3208.8	A_3
## 990	1982.99	2560.3	1881.1	3208.8	A_3
## 991	1982.99	2560.3	1881.1	3208.8	A_3
## 992	1954.62	2547.1	1855.7	3194.5	A_3
## 993	1943.88	2516.8	1874.9	3170.1	A_3
## 994	1955.33	2544.2	1882.0	3174.7	A_3
## 995	1987.70	2560.8	1928.4	3199.9	A_3
## 996	1978.97	2554.8	1918.5	3209.3	A_3
## 997	2007.57	2561.1	1945.9	3214.9	A_3
## 998	2028.52	2574.4	1942.3	3226.2	A_3
## 999	2024.25	2567.0	1931.0	3217.6	A_3
## 1000	2017.95	2597.2	1918.5	3216.7	A_3
## 1001	2017.95	2597.2	1918.5	3220.4	A_3
## 1002	2036.47	2621.4	1936.9	3248.2	A_3
## 1003	2037.99	2618.6	1971.1	3262.6	A_3
## 1004	2034.15	2641.7	1946.2	3264.3	A_3
## 1005	2021.22	2650.5	1927.4	3251.7	A_3
## 1006	2030.65	2658.8	1927.4	3251.7	A_3
## 1007	2050.66	2655.6	1988.7	3261.2	A_3
## 1008	2064.41	2661.4	1996.7	3290.1	A_3
## 1009	2086.41	2701.0	2003.6	3317.9	A_3
## 1010	2102.40	2728.2	2017.3	3310.3	A_3
## 1011	2092.00	2739.0	1991.5	3310.7	A_3
## 1012	2109.36	2746.6	2001.3	3300.8	A_3
## 1013	2088.99	2739.8	2004.7	3297.4	A_3
## 1014	2083.80	2727.7	1989.8	3285.8	A_3
## 1015	2064.42	2701.0	1965.5	3261.0	A_3
## 1016	2096.87	2751.2	1979.5	3284.5	A_3
## 1017	2083.55	2750.4	1965.3	3291.8	A_3
## 1018	2105.88	2778.5	1960.7	3327.3	A_3
## 1019	2105.88	2778.5	1960.7	3328.2	A_3
## 1020	2065.71	2751.7	1919.1	3311.1	A_3
## 1021	2069.26	2762.5	1927.8	3311.1	A_3
## 1022	2081.46	2779.4	1927.3	3309.9	A_3
## 1023	2099.95	2786.4	1948.0	3319.4	A_3
## 1024	2119.24	2807.8	1960.8	3340.6	A_3
## 1025	2132.72	2805.3	1971.3	3345.0	A_3
## 1026	2132.72	2805.3	1971.3	3376.6	A_3
## 1027	2154.17	2809.7	1965.9	3380.0	A_3
## 1028	2136.72	2819.6	1974.7	3370.8	A_3
## 1029	2137.21	2806.8	1951.2	3380.8	A_3
## 1030	2107.16	2795.3	1897.0	3337.7	A_3
## 1031	2127.79	2802.3	1907.8	3344.6	A_3
## 1032	2124.25	2800.9	1922.8	3348.0	A_3
## 1033	2124.84	2798.1	1893.7	3339.8	A_3
## 1034	2130.78	2800.2	1920.7	3370.4	A_3
## 1035	2125.06	2775.4	1905.0	3366.1	A_3
## 1036	2154.13	2803.0	1918.4	3381.3	A_3
## 1037	2140.36	2805.6	1896.1	3377.2	A_3
## 1038	2144.88	2816.8	1902.8	3378.3	A_3

##	1039	2144.88	2843.3	1925.2	3403.8	A_3
##	1040	2144.88	2837.7	1895.1	3379.4	A_3
##	1041	2137.36	2830.3	1902.4	3309.2	A_3
##	1042	2128.99	2845.1	1877.7	3313.2	A_3
##	1043	2091.30	2836.8	1865.5	3282.7	A_3
##	1044	2094.68	2845.6	1861.9	3294.0	A_3
##	1045	2089.04	2825.3	1858.8	3314.6	A_3
##	1046	2099.68	2827.5	1879.7	3323.7	A_3
##	1047	2110.13	2847.5	1889.4	3349.2	A_3
##	1048	2117.63	2843.7	1907.8	3394.9	A_3
##	1049	2111.35	2833.7	1889.5	3388.3	A_3
##	1050	2163.37	2848.4	1950.8	3462.9	A_3
##	1051	2184.39	2842.9	1949.4	3455.0	A_3
##	1052	2194.15	2847.3	1961.3	3464.0	A_3
##	1053	2200.32	2867.9	1961.7	3450.6	A_3
##	1054	2193.72	2869.7	1948.3	3447.2	A_3
##	1055	2191.25	2863.4	1948.3	3429.2	A_3
##	1056	2201.36	2892.3	1951.5	3442.6	A_3
##	1057	2183.71	2875.1	1929.0	3420.7	A_3
##	1058	2195.31	2856.2	1931.2	3405.3	A_3
##	1059	2183.52	2822.2	1905.9	3400.4	A_3
##	1060	2196.54	2830.2	1908.9	3413.1	A_3
##	1061	2232.02	2836.6	1926.6	3431.6	A_3
##	1062	2232.23	2833.2	1941.3	3432.9	A_3
##	1063	2237.73	2827.1	1942.5	3454.3	A_3
##	1064	2239.36	2824.7	1947.9	3458.3	A_3
##	1065	2217.91	2833.1	1932.8	3468.9	A_3
##	1066	2222.51	2826.8	1920.0	3463.3	A_3
##	1067	2211.26	2826.8	1917.8	3449.9	A_3
##	1068	2249.60	2852.3	1960.0	3499.9	A_3
##	1069	2234.86	2814.3	1950.8	3475.6	A_3
##	1070	2236.68	2807.1	1957.1	3482.4	A_3
##	1071	2244.56	2800.6	1950.4	3483.5	A_3
##	1072	2236.89	2797.4	1954.7	3468.8	A_3
##	1073	2222.28	2781.3	1943.7	3468.3	A_3
##	1074	2236.72	2802.6	1949.2	3474.7	A_3
##	1075	2228.44	2820.1	1946.2	3467.5	A_3
##	1076	2208.41	2807.2	1946.2	3441.4	A_3
##	1077	2236.73	2838.4	1946.2	3444.4	A_3
##	1078	2251.64	2880.6	1970.4	3465.1	A_3
##	1079	2253.93	2880.0	1967.3	3470.6	A_3
##	1080	2265.86	2889.5	1971.6	3509.8	A_3
##	1081	2269.60	2886.7	1984.4	3535.7	A_3
##	1082	2258.97	2900.8	1963.3	3530.2	A_3
##	1083	2262.66	2896.8	1957.4	3515.9	A_3
##	1084	2253.91	2887.1	1939.2	3520.0	A_3
##	1085	2257.34	2893.8	1937.8	3524.9	A_3
##	1086	2240.31	2883.3	1890.1	3524.9	A_3
##	1087	2230.27	2887.3	1899.5	3502.6	A_3
##	1088	2251.30	2915.7	1921.4	3504.0	A_3
##	1089	2234.23	2908.8	1883.4	3477.8	A_3
##	1090	2242.76	2918.3	1881.7	3509.4	A_3
##	1091	2263.08	2952.7	1900.5	3522.7	A_3
##	1092	2266.57	2971.1	1902.5	3532.4	A_3

##	1093	2266.37	2999.6	1884.8	3557.7	A_3
##	1094	2263.27	2989.1	1861.7	3545.6	A_3
##	1095	2266.77	2989.2	1854.9	3554.5	A_3
##	1096	2268.26	2986.3	1869.7	3549.3	A_3
##	1097	2266.07	2990.5	1873.6	3535.9	A_3
##	1098	2300.72	3016.8	1898.2	3570.8	A_3
##	1099	2300.29	3011.6	1892.4	3565.4	A_3
##	1100	2305.58	3025.4	1880.0	3564.6	A_3
##	1101	2289.49	3008.1	1871.7	3533.3	A_3
##	1102	2306.66	3033.5	1882.5	3541.4	A_3
##	1103	2294.15	3029.0	1863.8	3561.5	A_3
##	1104	2275.72	3039.1	1853.9	3557.9	A_3
##	1105	2204.44	2994.7	1790.7	3514.8	A_3
##	1106	2212.97	3015.3	1800.6	3507.0	A_3
##	1107	2232.02	3045.5	1816.3	3523.3	A_3
##	1108	2190.90	3009.8	1791.8	3485.0	A_3
##	1109	2184.24	3000.6	1767.6	3479.0	A_3
##	1110	2201.27	3014.8	1788.4	3508.2	A_3
##	1111	2197.01	3039.0	1780.7	3520.2	A_3
##	1112	2197.01	3049.0	1800.7	3524.2	A_3
##	1113	2211.60	3036.5	1803.9	3544.1	A_3
##	1114	2191.54	3036.6	1800.3	3544.4	A_3
##	1115	2176.35	3054.0	1809.6	3526.5	A_3
##	1116	2157.41	3064.0	1785.7	3510.3	A_3
##	1117	2137.01	3050.0	1778.0	3460.1	A_3
##	1118	2153.56	3073.0	1794.4	3474.3	A_3
##	1119	2159.73	3083.7	1803.8	3523.8	A_3
##	1120	2206.11	3109.2	1817.0	3568.0	A_3
##	1121	2193.85	3116.3	1790.5	3557.3	A_3
##	1122	2185.52	3112.3	1779.7	3562.2	A_3
##	1123	2197.57	3135.4	1770.7	3593.0	A_3
##	1124	2176.09	3124.5	1757.3	3578.6	A_3
##	1125	2148.12	3120.4	1740.7	3551.4	A_3
##	1126	2116.86	3041.7	1721.1	3531.5	A_3
##	1127	2114.88	3062.3	1724.2	3535.3	A_3
##	1128	2140.74	3078.9	1764.1	3537.8	A_3
##	1129	2142.74	3080.0	1754.1	3519.6	A_3
##	1130	2112.01	3026.6	1742.4	3497.9	A_3
##	1131	2149.71	3057.9	1795.3	3510.0	A_3
##	1132	2165.76	3108.2	1814.0	3529.1	A_3
##	1133	2182.11	3128.5	1814.0	3518.7	A_3
##	1134	2180.49	3123.4	1828.7	3523.0	A_3
##	1135	2169.69	3137.6	1832.1	3500.4	A_3
##	1136	2168.57	3123.2	1822.6	3514.8	A_3
##	1137	2174.27	3133.8	1857.4	3522.4	A_3
##	1138	2184.05	3132.6	1866.3	3537.1	A_3
##	1139	2182.47	3150.1	1852.6	3541.6	A_3
##	1140	2174.78	3130.4	1839.8	3523.4	A_3
##	1141	2195.15	3121.4	1838.2	3536.8	A_3
##	1142	2197.34	3133.0	1838.2	3547.9	A_3
##	1143	2196.64	3124.8	1875.2	3571.4	A_3
##	1144	2199.29	3148.4	1905.1	3610.8	A_3
##	1145	2196.59	3152.5	1890.5	3609.2	A_3
##	1146	2204.01	3182.2	1881.4	3628.8	A_3

##	1147	2201.90	3183.9	1872.9	3604.1	A_3
##	1148	2194.53	3201.0	1875.5	3632.4	A_3
##	1149	2197.26	3209.2	1867.1	3602.5	A_3
##	1150	2210.92	3220.1	1891.0	3624.0	A_3
##	1151	2247.97	3251.0	1889.8	3649.0	A_3
##	1152	2242.91	3229.5	1870.3	3648.8	A_3
##	1153	2249.75	3245.9	1857.3	3655.5	A_3
##	1154	2254.95	3251.6	1828.3	3664.3	A_3
##	1155	2266.56	3261.2	1820.9	3664.3	A_3
##	1156	2261.08	3278.4	1774.9	3669.7	A_3
##	1157	2269.34	3278.5	1814.9	3664.2	A_3
##	1158	2274.94	3281.5	1834.8	3662.8	A_3
##	1159	2260.62	3245.7	1846.8	3639.5	A_3
##	1160	2277.70	3246.6	1856.3	3630.0	A_3
##	1161	2277.70	3261.6	1849.6	3652.1	A_3
##	1162	2278.64	3280.9	1848.9	3654.9	A_3
##	1163	2283.26	3273.4	1833.8	3662.4	A_3
##	1164	2286.21	3272.2	1875.0	3671.6	A_3
##	1165	2283.84	3289.8	1859.3	3642.6	A_3
##	1166	2240.24	3251.6	1820.5	3596.1	A_3
##	1167	2241.43	3217.7	1810.2	3576.9	A_3
##	1168	2268.07	3254.3	1831.2	3613.7	A_3
##	1169	2268.35	3255.0	1834.4	3633.3	A_3
##	1170	2280.81	3277.9	1873.4	3658.3	A_3
##	1171	2280.81	3277.9	1873.4	3658.3	A_3
##	1172	2280.81	3277.9	1866.7	3658.3	A_3
##	1173	2280.44	3317.1	1877.0	3676.4	A_3
##	1174	2273.90	3297.7	1879.1	3676.7	A_3
##	1175	2260.69	3297.7	1872.0	3689.3	A_3
##	1176	2260.69	3297.7	1872.0	3689.3	A_3
##	1177	2307.70	3297.7	1908.4	3687.9	A_3
##	1178	2326.18	3384.5	1943.0	3715.6	A_3
##	1179	2332.81	3395.8	1931.2	3714.1	A_3
##	1180	2315.66	3376.1	1917.7	3704.5	A_3
##	1181	2336.76	3368.1	1916.6	3720.6	A_3
##	1182	2351.47	3361.5	1916.3	3720.6	A_3
##	1183	2340.31	3314.8	1910.1	3671.5	A_3
##	1184	2330.98	3284.1	1897.9	3654.9	A_3
##	1185	2353.89	3292.9	1907.6	3657.3	A_3
##	1186	2361.38	3233.9	1924.4	3662.7	A_3
##	1187	2379.43	3254.8	1952.1	3710.6	A_3
##	1188	2375.63	3219.3	1966.0	3704.2	A_3
##	1189	2389.62	3257.8	1960.1	3748.7	A_3
##	1190	2400.58	3253.1	1964.3	3748.4	A_3
##	1191	2391.74	3249.9	1954.4	3754.2	A_3
##	1192	2393.12	3219.0	1934.1	3735.0	A_3
##	1193	2436.68	3221.3	1946.0	3758.2	A_3
##	1194	2437.02	3211.2	1950.2	3734.2	A_3
##	1195	2449.71	3191.4	1966.7	3734.7	A_3
##	1196	2437.70	3198.2	1980.7	3734.6	A_3
##	1197	2456.09	3236.8	2003.1	3735.3	A_3
##	1198	2463.00	3248.7	2021.0	3759.3	A_3
##	1199	2472.53	3279.9	2024.1	3752.8	A_3
##	1200	2459.81	3270.0	2022.2	3781.3	A_3

##	1201	2416.84	3221.7	1985.6	3746.6	A_3
##	1202	2437.98	3253.8	1988.5	3747.5	A_3
##	1203	2442.43	3262.7	1983.3	3726.1	A_3
##	1204	2411.49	3245.6	1956.2	3708.4	A_3
##	1205	2435.07	3242.7	1960.7	3716.3	A_3
##	1206	2428.59	3253.1	1967.7	3726.6	A_3
##	1207	2436.09	3260.1	1983.3	3747.6	A_3
##	1208	2427.77	3266.1	1956.4	3745.0	A_3
##	1209	2426.51	3272.2	1964.2	3779.8	A_3
##	1210	2423.60	3280.3	1952.5	3770.9	A_3
##	1211	2387.60	3270.6	1939.7	3744.3	A_3
##	1212	2373.01	3243.5	1932.4	3714.6	A_3
##	1213	2401.59	3253.0	1936.9	3725.6	A_3
##	1214	2421.93	3264.4	1953.3	3740.0	A_3
##	1215	2449.52	3296.2	1976.9	3740.3	A_3
##	1216	2438.73	3298.6	1960.9	3704.2	A_3
##	1217	2449.09	3309.9	1974.5	3715.9	A_3
##	1218	2486.95	3360.5	1996.9	3738.2	A_3
##	1219	2485.18	3354.8	1990.8	3727.6	A_3
##	1220	2488.85	3385.5	2017.2	3752.7	A_3
##	1221	2486.83	3400.6	2015.3	3768.6	A_3
##	1222	2472.52	3383.4	2001.9	3777.1	A_3
##	1223	2471.38	3408.3	2005.9	3758.9	A_3
##	1224	2479.38	3581.9	2008.0	3758.2	A_3
##	1225	2448.80	3549.7	1975.5	3710.3	A_3
##	1226	2419.72	3506.2	1948.9	3674.5	A_3
##	1227	2415.29	3540.5	1932.1	3639.5	A_3
##	1228	2417.00	3558.3	1944.3	3640.3	A_3
##	1229	2432.46	3578.4	1962.4	3681.8	A_3
##	1230	2458.00	3561.1	1950.1	3644.8	A_3
##	1231	2472.55	3583.6	1965.0	3669.6	A_3
##	1232	2484.74	3605.1	1967.2	3693.0	A_3
##	1233	2491.73	3611.1	1969.8	3685.4	A_3
##	1234	2505.32	3629.3	1976.9	3698.3	A_3
##	1235	2479.84	3647.7	1974.4	3707.0	A_3
##	1236	2514.80	3677.0	2003.8	3681.9	A_3
##	1237	2505.78	3658.1	2008.0	3660.9	A_3
##	1238	2523.81	3671.0	2030.5	3672.4	A_3
##	1239	2502.94	3640.3	2020.0	3672.6	A_3
##	1240	2489.35	3646.5	2044.8	3699.7	A_3
##	1241	2500.75	3654.3	2055.6	3718.4	A_3
##	1242	2508.11	3648.3	2070.4	3728.5	A_3
##	1243	2489.52	3606.7	2064.0	3725.1	A_3
##	1244	2498.75	3611.1	2075.0	3755.6	A_3
##	1245	2498.75	3611.1	2075.0	3755.6	A_3
##	1246	2498.75	3611.1	2075.0	3755.6	A_3
##	1247	2510.81	3594.4	2081.7	3758.6	A_3
##	1248	2525.59	3601.5	2093.9	3767.4	A_3
##	1249	2508.12	3566.9	2072.5	3744.2	A_3
##	1250	2526.74	3575.5	2074.7	3766.8	A_3
##	1251	2540.79	3589.6	2080.6	3790.5	A_3
##	1252	2547.32	3607.5	2097.3	3825.3	A_3
##	1253	2519.82	3603.9	2075.1	3805.6	A_3
##	1254	2524.18	3601.2	2086.0	3820.7	A_3

##	1255	2535.86	3628.1	2092.5	3857.1	A_3
##	1256	2549.27	3673.2	2116.5	3852.7	A_3
##	1257	2549.12	3647.3	2112.0	3833.0	A_3
##	1258	2524.84	3668.4	2122.1	3817.6	A_3
##	1259	2538.68	3668.1	2116.4	3819.3	A_3
##	1260	2539.88	3696.0	2138.4	3832.8	A_3
##	1261	2505.97	3658.2	2130.8	3809.2	A_3
##	1262	2492.63	3651.0	2146.8	3817.9	A_3
##	1263	2492.63	3651.0	2146.8	3806.0	A_3
##	1264	2465.49	3635.8	2136.8	3776.4	A_3
##	1265	2472.43	3611.2	2115.4	3751.6	A_3
##	1266	2473.52	3591.6	2090.4	3751.6	A_3
##	1267	2476.79	3583.6	2083.7	3723.0	A_3
##	1268	2466.21	3534.1	2083.7	3707.3	A_3
##	1269	2470.57	3521.6	2085.4	3728.3	A_3
##	1270	2499.02	3556.9	2114.8	3754.4	A_3
##	1271	2496.33	3557.8	2100.9	3739.2	A_3
##	1272	2528.20	3582.4	2122.1	3759.7	A_3
##	1273	2534.40	3572.5	2124.6	3776.2	A_3
##	1274	2534.40	3572.5	2124.6	3753.6	A_3
##	1275	2552.29	3593.0	2136.9	3789.6	A_3
##	1276	2541.98	3584.0	2120.6	3778.2	A_3
##	1277	2564.12	3587.3	2129.7	3789.4	A_3
##	1278	2548.79	3550.0	2103.5	3764.2	A_3
##	1279	2546.55	3547.4	2114.5	3747.0	A_3
##	1280	2549.53	3572.2	2117.7	3752.1	A_3
##	1281	2549.53	3572.2	2117.7	3752.1	A_3
##	1282	2559.15	3583.8	2132.9	3760.2	A_3
##	1283	2548.53	3558.2	2117.1	3775.7	A_3
##	1284	2535.78	3537.7	2108.4	3746.7	A_3
##	1285	2523.81	3556.1	2110.1	3747.8	A_3
##	1286	2543.99	3544.6	2121.1	3739.2	A_3
##	1287	2550.42	3568.1	2111.0	3755.2	A_3
##	1288	2551.03	3572.0	2115.4	3753.4	A_3
##	1289	2559.02	3585.5	2133.2	3760.3	A_3
##	1290	2536.03	3547.9	2102.0	3706.8	A_3
##	1291	2552.96	3575.8	2120.8	3728.8	A_3
##	1292	2571.10	3575.6	2137.5	3755.7	A_3
##	1293	2569.90	3600.9	2137.3	3769.2	A_3
##	1294	2566.13	3607.4	2126.2	3761.7	A_3
##	1295	2544.90	3593.9	2111.8	3753.6	A_3
##	1296	2549.71	3600.1	2113.0	3761.5	A_3
##	1297	2554.12	3628.3	2107.9	3756.4	A_3
##	1298	2546.04	3643.6	2100.7	3753.2	A_3
##	1299	2532.22	3655.4	2077.1	3727.5	A_3
##	1300	2547.78	3687.3	2084.2	3722.3	A_3
##	1301	2562.19	3701.5	2097.6	3710.8	A_3
##	1302	2578.36	3699.6	2118.4	3679.5	A_3
##	1303	2572.06	3723.5	2113.3	3695.5	A_3
##	1304	2551.80	3703.0	2112.9	3678.8	A_3
##	1305	2570.44	3732.9	2123.7	3711.0	A_3
##	1306	2573.44	3728.2	2118.8	3725.6	A_3
##	1307	2565.32	3750.8	2111.8	3725.7	A_3
##	1308	2566.32	3757.0	2114.0	3714.1	A_3

##	1309	2578.74	3771.3	2126.8	3760.6	A_3
##	1310	2568.79	3731.2	2098.8	3743.2	A_3
##	1311	2561.51	3732.8	2079.1	3741.5	A_3
##	1312	2562.24	3773.4	2076.6	3752.3	A_3
##	1313	2573.00	3788.0	2081.9	3765.8	A_3
##	1314	2561.95	3810.0	2073.4	3749.0	A_3
##	1315	2548.97	3785.8	2050.6	3728.3	A_3
##	1316	2529.50	3755.4	2029.5	3698.3	A_3
##	1317	2475.98	3678.1	1989.5	3632.3	A_3
##	1318	2497.69	3656.2	1995.1	3658.2	A_3
##	1319	2505.56	3649.2	2007.3	3693.4	A_3
##	1320	2498.35	3661.5	1992.8	3710.5	A_3
##	1321	2468.32	3566.1	1960.3	3681.3	A_3
##	1322	2488.82	3585.2	1982.2	3708.4	A_3
##	1323	2459.13	3482.6	1954.1	3668.8	A_3
##	1324	2464.51	3537.4	1974.7	3684.7	A_3
##	1325	2469.51	3537.8	1962.9	3673.3	A_3
##	1326	2472.25	3549.5	1961.1	3678.8	A_3
##	1327	2466.84	3518.2	1968.5	3668.5	A_3
##	1328	2491.50	3494.4	1995.9	3703.2	A_3
##	1329	2504.16	3494.4	2009.9	3734.4	A_3
##	1330	2520.26	3604.6	2023.4	3770.6	A_3
##	1331	2520.52	3623.3	2013.2	3788.3	A_3
##	1332	2527.73	3629.0	1999.3	3788.4	A_3
##	1333	2541.41	3662.6	1996.7	3811.1	A_3
##	1334	2534.63	3653.4	1997.4	3811.4	A_3
##	1335	2532.96	3643.2	1985.4	3810.7	A_3
##	1336	2529.14	3623.1	1978.2	3803.3	A_3
##	1337	2545.65	3630.2	1980.6	3823.4	A_3
##	1338	2544.61	3650.7	1979.5	3830.3	A_3
##	1339	2542.75	3646.3	1979.5	3837.4	A_3
##	1340	2567.96	3670.5	1979.5	3872.9	A_3
##	1341	2556.25	3664.4	1986.2	3863.7	A_3
##	1342	2562.12	3698.2	2019.3	3883.2	A_3
##	1343	2534.44	3683.8	2000.6	3872.1	A_3
##	1344	2559.42	3713.0	2017.8	3891.1	A_3
##	1345	2562.12	3725.4	2020.8	3907.5	A_3
##	1346	2554.42	3714.6	2020.4	3907.5	A_3
##	1347	2563.59	3722.4	2018.0	3905.7	A_3
##	1348	2556.64	3692.6	2002.9	3918.7	A_3
##	1349	2548.84	3682.6	1977.6	3885.0	A_3
##	1350	2534.49	3646.3	1970.6	3867.6	A_3
##	1351	2538.34	3654.7	1977.0	3884.4	A_3
##	1352	2528.73	3623.9	1971.4	3855.9	A_3
##	1353	2526.18	3634.2	1984.8	3872.7	A_3
##	1354	2532.55	3627.1	1996.2	3887.2	A_3
##	1355	2542.74	3637.8	2004.8	3893.0	A_3
##	1356	2549.71	3684.4	2020.3	3910.8	A_3
##	1357	2568.77	3694.2	2042.1	3916.1	A_3
##	1358	2568.70	3678.9	2038.1	3905.6	A_3
##	1359	2588.04	3687.2	2065.4	3932.6	A_3
##	1360	2614.50	3716.8	2080.4	3967.9	A_3
##	1361	2630.24	3722.7	2086.2	3977.2	A_3
##	1362	2626.43	3690.0	2080.9	3972.3	A_3

##	1363	2621.20	3690.1	2072.7	3955.7	A_3
##	1364	2625.46	3694.9	2082.3	3974.3	A_3
##	1365	2641.50	3694.9	2079.5	3964.1	A_3
##	1366	2624.18	3635.5	2067.1	3919.7	A_3
##	1367	2643.42	3661.2	2081.5	3910.5	A_3
##	1368	2663.10	3697.7	2103.4	3935.7	A_3
##	1369	2664.96	3699.5	2104.1	3933.2	A_3
##	1370	2659.86	3696.6	2107.1	3946.4	A_3
##	1371	2655.49	3736.4	2132.8	3953.7	A_3
##	1372	2654.34	3737.5	2123.2	3992.2	A_3
##	1373	2685.29	3760.2	2141.8	4015.1	A_3
##	1374	2685.29	3771.6	2136.1	4000.0	A_3
##	1375	2704.25	3771.6	2152.7	4024.8	A_3
##	1376	2705.21	3813.7	2151.6	4031.5	A_3
##	1377	2702.60	3818.1	2161.5	4035.6	A_3
##	1378	2685.23	3807.9	2146.7	4009.3	A_3
##	1379	2683.52	3797.3	2135.6	3994.7	A_3
##	1380	2692.69	3805.2	2147.1	4028.1	A_3
##	1381	2700.83	3813.7	2143.6	4038.7	A_3
##	1382	2718.73	3822.2	2168.3	4050.8	A_3
##	1383	2705.06	3790.2	2158.5	4024.4	A_3
##	1384	2717.50	3793.2	2165.3	4042.1	A_3
##	1385	2727.56	3803.3	2185.2	4053.1	A_2
##	1386	2733.67	3788.2	2180.2	4073.1	A_2
##	1387	2721.74	3775.3	2175.6	4057.2	A_3
##	1388	2678.89	3742.9	2148.9	4028.4	A_3
##	1389	2681.94	3753.6	2151.6	3999.4	A_3
##	1390	2690.79	3758.7	2162.4	4022.4	A_3
##	1391	2703.33	3763.5	2150.4	4025.3	A_3
##	1392	2675.50	3732.0	2125.7	3993.5	A_3
##	1393	2664.72	3723.1	2124.8	3963.9	A_3
##	1394	2671.40	3725.3	2140.5	3979.1	A_3
##	1395	2670.19	3736.1	2140.5	3948.5	A_3
##	1396	2678.73	3749.2	2142.2	3928.1	A_3
##	1397	2716.16	3784.8	2187.3	3921.1	A_3
##	1398	2735.28	3815.4	2213.4	3935.7	A_2
##	1399	2724.25	3811.5	2211.8	3900.4	A_2
##	1400	2732.29	3812.0	2205.2	3910.8	A_2
##	1401	2730.44	3827.6	2205.2	3914.4	A_2
##	1402	2764.00	3829.8	2229.1	3934.3	A_2
##	1403	2770.61	3825.7	2217.2	3926.9	A_2
##	1404	2784.39	3856.4	2218.2	3926.1	A_2
##	1405	2800.60	3897.9	2240.3	3958.2	A_2
##	1406	2768.68	3888.3	2228.8	3962.1	A_2
##	1407	2781.54	3892.6	2240.1	3978.1	A_2
##	1408	2766.08	3883.3	2233.4	3962.8	A_2
##	1409	2765.29	3861.5	2233.6	3953.8	A_2
##	1410	2769.47	3882.8	2255.5	4018.7	A_2
##	1411	2800.52	3891.7	2277.1	4054.6	A_2
##	1412	2808.62	3878.2	2275.1	4068.4	A_2
##	1413	2793.86	3845.3	2270.8	4049.2	A_2
##	1414	2829.68	3884.1	2290.3	4050.2	A_2
##	1415	2848.84	3902.5	2315.7	4058.0	A_2
##	1416	2853.46	3874.0	2318.6	4038.5	A_2

##	1417	2900.76	3924.5	2349.1	4061.5	A_2
##	1418	2880.89	3910.6	2308.7	4045.2	A_2
##	1419	2894.43	3913.8	2292.5	4051.2	A_2
##	1420	2832.53	3835.5	2240.7	3963.0	A_2
##	1421	2870.30	3874.0	2255.8	4011.6	A_2
##	1422	2890.95	3885.4	2251.4	4035.7	A_2
##	1423	2836.36	3857.6	2213.3	3982.5	A_2
##	1424	2846.94	3860.0	2212.1	3990.7	A_2
##	1425	2815.77	3839.3	2203.4	3972.4	A_2
##	1426	2841.16	3869.2	2222.6	3993.8	A_2
##	1427	2808.50	3850.4	2193.7	3979.6	A_2
##	1428	2814.23	3874.0	2218.9	4018.2	A_2
##	1429	2824.83	3880.8	2248.7	4051.3	A_2
##	1430	2835.54	3890.1	2278.5	4077.6	A_2
##	1431	2844.09	3875.5	2287.4	4087.2	A_2
##	1432	2844.09	3869.8	2289.6	4092.5	A_2
##	1433	2844.09	3869.8	2289.6	4092.5	A_2
##	1434	2844.09	3869.8	2303.8	4092.5	A_2
##	1435	2859.22	3922.2	2307.0	4091.0	A_2
##	1436	2880.07	3948.3	2318.6	4115.7	A_2
##	1437	2880.07	3942.2	2315.7	4118.5	A_2
##	1438	2880.07	3942.2	2315.7	4118.5	A_2
##	1439	2820.81	3942.2	2257.0	4057.4	A_2
##	1440	2863.26	3940.1	2282.8	4089.5	A_2
##	1441	2890.20	3923.8	2306.7	4106.5	A_2
##	1442	2876.34	3922.9	2301.7	4078.8	A_2
##	1443	2904.08	3944.9	2331.6	4087.5	A_2
##	1444	2936.69	3966.2	2349.1	4087.0	A_2
##	1445	2915.81	3947.4	2327.5	4056.6	A_2
##	1446	2956.78	3975.5	2361.3	4107.3	A_2
##	1447	2978.84	3983.6	2402.1	4168.2	A_2
##	1448	2976.56	3979.6	2388.0	4158.9	A_2
##	1449	2996.12	4007.1	2407.8	4197.5	A_2
##	1450	3006.87	4019.9	2425.1	4207.7	A_2
##	1451	2999.19	4009.5	2406.1	4194.0	A_2
##	1452	3000.66	4023.1	2409.9	4195.5	A_2
##	1453	3026.63	4115.4	2442.5	4219.1	A_2
##	1454	3037.28	4161.0	2461.3	4219.1	A_2
##	1455	2982.63	4125.5	2430.3	4218.8	A_2
##	1456	2992.55	4127.3	2435.2	4212.0	A_2
##	1457	3028.27	4182.3	2482.8	4237.4	A_2
##	1458	2997.95	4169.7	2465.0	4207.5	A_2
##	1459	3018.58	4209.1	2503.1	4228.4	A_2
##	1460	3037.70	4272.2	2516.6	4275.8	A_2
##	1461	3064.70	4282.8	2508.6	4257.8	A_2
##	1462	3067.48	4296.5	2503.1	4260.9	A_2
##	1463	3114.73	4305.5	2541.3	4281.5	A_2
##	1464	3124.78	4309.8	2558.4	4265.9	A_2
##	1465	3161.36	4357.9	2597.5	4307.8	A_2
##	1466	3185.72	4384.3	2595.4	4307.7	A_2
##	1467	3191.45	4408.4	2582.1	4304.3	A_2
##	1468	3211.01	4444.1	2599.3	4304.3	A_2
##	1469	3256.86	4436.3	2628.4	4327.1	A_2
##	1470	3249.17	4464.2	2627.4	4341.0	A_2

##	1471	3260.30	4514.6	2634.5	4337.8	A_2
##	1472	3230.83	4490.7	2617.5	4332.3	A_2
##	1473	3209.04	4525.5	2594.8	4357.4	A_2
##	1474	3197.09	4530.8	2575.2	4356.1	A_2
##	1475	3203.79	4522.5	2562.8	4336.8	A_2
##	1476	3180.63	4463.2	2567.9	4331.1	A_2
##	1477	3233.34	4503.9	2607.7	4344.7	A_2
##	1478	3245.02	4539.0	2602.2	4329.3	A_2
##	1479	3272.58	4519.7	2629.4	4339.2	A_2
##	1480	3261.04	4487.6	2607.8	4308.3	A_2
##	1481	3258.74	4460.1	2600.3	4307.1	A_2
##	1482	3345.09	4513.7	2651.7	4357.7	A_2
##	1483	3375.45	4547.1	2666.2	4360.1	A_2
##	1484	3396.55	4605.2	2698.9	4399.3	A_2
##	1485	3419.51	4638.9	2708.3	4420.3	A_2
##	1486	3426.77	4684.4	2709.2	4437.4	A_2
##	1487	3430.95	4677.1	2686.2	4444.3	A_2
##	1488	3382.40	4676.2	2641.7	4422.5	A_2
##	1489	3367.82	4609.9	2632.1	4397.7	A_2
##	1490	3404.29	4636.2	2645.6	4424.3	A_2
##	1491	3337.11	4556.5	2588.4	4373.3	A_2
##	1492	3289.59	4519.9	2574.0	4356.8	A_2
##	1493	3305.72	4535.1	2596.8	4332.2	A_2
##	1494	3247.03	4442.9	2553.7	4258.1	A_2
##	1495	3288.52	4491.3	2587.1	4254.8	A_2
##	1496	3302.57	4497.3	2579.3	4214.8	A_2
##	1497	3374.93	4558.6	2624.3	4270.7	A_2
##	1498	3439.22	4620.5	2648.7	4301.5	A_2
##	1499	3407.83	4659.2	2656.7	4312.9	A_2
##	1500	3407.83	4659.2	2656.7	4312.9	A_2
##	1501	3407.83	4659.2	2656.7	4312.9	A_2
##	1502	3281.46	4501.7	2581.8	4248.1	A_2
##	1503	3210.94	4488.7	2530.3	4236.6	A_2
##	1504	3212.82	4463.9	2514.5	4214.6	A_2
##	1505	3235.35	4471.5	2518.0	4236.6	A_2
##	1506	3342.77	4588.0	2572.3	4271.7	A_2
##	1507	3328.13	4582.6	2579.0	4269.3	A_2
##	1508	3364.76	4634.9	2617.6	4292.3	A_2
##	1509	3352.58	4626.6	2608.0	4313.2	A_2
##	1510	3319.24	4604.2	2574.6	4270.7	A_2
##	1511	3297.52	4586.3	2566.1	4251.7	A_2
##	1512	3369.26	4643.4	2620.6	4286.8	A_2
##	1513	3347.54	4625.6	2621.0	4294.6	A_2
##	1514	3361.80	4665.7	2615.2	4298.9	A_2
##	1515	3361.20	4699.1	2547.6	4310.5	A_2
##	1516	3328.41	4740.1	2522.7	4328.7	A_2
##	1517	3348.90	4752.3	2514.7	4346.1	A_2
##	1518	3366.87	4781.1	2533.6	4387.7	A_2
##	1519	3396.49	4836.1	2539.8	4388.5	A_2
##	1520	3357.57	4772.3	2536.3	4369.7	A_2
##	1521	3372.96	4793.3	2550.3	4389.7	A_2
##	1522	3425.86	4855.1	2602.9	4433.2	A_2
##	1523	3438.09	4897.6	2639.5	4436.0	A_2
##	1524	3438.09	4897.6	2639.5	4445.0	A_2

##	1525	3491.08	4953.5	2655.3	4455.6	A_2
##	1526	3565.69	5029.6	2672.8	4455.6	A_2
##	1527	3548.52	4988.4	2651.9	4519.3	A_2
##	1528	3537.45	5016.0	2643.3	4537.5	A_2
##	1529	3537.45	5016.0	2643.3	4580.4	A_2
##	1530	3533.21	5004.7	2633.9	4630.9	A_2
##	1531	3593.14	5042.5	2693.1	4669.6	A_2
##	1532	3559.29	5084.2	2719.6	4691.0	A_2
##	1533	3588.57	5134.3	2774.6	4686.9	A_2
##	1534	3564.85	5141.7	2776.0	4681.2	A_2
##	1535	3569.26	5157.5	2784.3	4693.9	A_2
##	1536	3569.26	5157.5	2784.3	4645.2	A_2
##	1537	3516.20	5081.0	2751.1	4607.5	A_2
##	1538	3600.40	5178.6	2786.4	4642.0	A_2
##	1539	3575.44	5176.4	2741.7	4651.8	A_2
##	1540	3621.72	5181.0	2762.9	4661.8	A_2
##	1541	3669.31	5196.7	2654.7	4661.8	A_2
##	1542	3665.43	5190.0	2680.3	4681.6	A_2
##	1543	3626.60	5133.1	2583.2	4677.5	A_2
##	1544	3635.38	5132.1	2579.2	4672.3	A_2
##	1545	3562.73	5041.6	2583.9	4621.3	A_2
##	1546	3596.40	5150.0	2601.5	4562.8	A_2
##	1547	3655.59	5207.2	2624.5	4557.8	A_2
##	1548	3651.59	5238.5	2635.4	4557.1	A_2
##	1549	3684.60	5251.2	2690.9	4576.2	A_2
##	1550	3700.53	5320.0	2719.3	4645.0	A_2
##	1551	3668.61	5368.8	2686.2	4686.7	A_2
##	1552	3671.16	5361.9	2664.2	4739.6	A_2
##	1553	3671.87	5308.6	2696.2	4724.8	A_2
##	1554	3737.16	5364.2	2760.3	4757.4	A_2
##	1555	3752.37	5384.6	2808.5	4783.1	A_2
##	1556	3750.02	5362.0	2795.9	4745.1	A_2
##	1557	3721.18	5345.9	2762.6	4682.2	A_2
##	1558	3730.56	5405.0	2751.7	4657.0	A_2
##	1559	3777.56	5510.3	2739.7	4653.7	A_2
##	1560	3788.54	5561.8	2757.1	4593.9	A_2
##	1561	3748.79	5587.8	2762.2	4575.8	A_2
##	1562	3761.07	5576.1	2784.8	4596.3	A_2
##	1563	3819.52	5662.4	2867.4	4640.0	A_2
##	1564	3820.16	5669.9	2893.6	4657.9	A_2
##	1565	3809.92	5700.3	2891.0	4640.3	A_2
##	1566	3766.89	5620.6	2858.3	4604.6	A_2
##	1567	3834.84	5654.8	2944.0	4728.3	A_2
##	1568	3867.53	5674.3	2909.5	4751.4	A_2
##	1569	3939.73	5804.9	2937.0	4831.7	A_2
##	1570	3946.73	5846.5	2934.5	4812.8	A_2
##	1571	4003.35	5947.0	2947.7	4810.7	A_2
##	1572	4030.10	6012.6	2929.8	4758.5	A_2
##	1573	4026.97	5977.1	2950.6	4762.4	A_2
##	1574	4000.65	5885.4	2929.1	4767.8	A_2
##	1575	4074.30	5801.5	2941.6	4799.5	A_2
##	1576	4142.19	5845.8	2941.6	4857.4	A_2
##	1577	4139.68	5844.7	2950.7	4899.3	A_2
##	1578	4223.69	5927.5	2988.0	4964.2	A_2

##	1579	4203.91	5868.3	2958.6	4949.0	A_2
##	1580	4131.94	5737.1	2876.7	4877.2	A_2
##	1581	4139.96	5620.5	2874.1	4805.7	A_2
##	1582	4297.64	5677.1	2921.1	4846.7	A_2
##	1583	4384.82	5869.9	3003.5	4874.5	A_2
##	1584	4320.52	5849.2	2973.5	4862.9	A_2
##	1585	4368.54	5847.0	3025.9	4851.5	A_2
##	1586	4400.30	5888.0	3022.2	4862.6	A_2
##	1587	4377.70	5842.1	3023.6	4876.6	A_2
##	1588	4458.66	5929.5	3069.3	4927.3	A_2
##	1589	4405.52	5898.2	3075.7	4907.5	A_2
##	1590	4336.98	5898.2	3049.5	4899.3	A_2
##	1591	4302.50	5771.0	2992.4	4895.7	A_2
##	1592	4325.86	5765.2	2984.1	4960.6	A_2
##	1593	4364.25	5812.1	3037.1	5026.2	A_2
##	1594	4428.08	5922.1	3056.3	5086.8	A_2
##	1595	4342.31	5864.8	2996.3	5031.3	A_2
##	1596	4333.15	5825.6	2983.4	5031.9	A_2
##	1597	4377.51	5808.4	2998.6	5075.8	A_2
##	1598	4237.06	5682.1	2924.0	5003.6	A_2
##	1599	4195.53	5579.5	2921.8	4991.3	A_2
##	1600	4077.59	5498.5	2921.8	4865.8	A_2
##	1601	4080.55	5405.6	2870.1	4835.0	A_2
##	1602	4190.45	5580.1	2936.2	4914.2	A_2
##	1603	4251.93	5690.1	2979.3	4958.4	A_2
##	1604	4204.81	5668.8	2957.2	4978.0	A_2
##	1605	4090.14	5475.8	2904.2	4901.1	A_2
##	1606	4076.75	5473.9	2898.6	4901.1	A_2
##	1607	3993.70	5363.3	2869.3	4886.3	A_2
##	1608	3992.03	5409.6	2871.7	4906.9	A_2
##	1609	3897.43	5217.3	2828.4	4845.4	A_2
##	1610	3919.79	5216.7	2770.5	4817.5	A_2
##	1611	4001.81	5271.5	2805.8	4870.2	A_2
##	1612	4127.28	5447.5	2921.2	4952.2	A_2
##	1613	4062.13	5478.6	2918.0	4976.9	A_2
##	1614	4093.43	5478.1	2927.0	4991.3	A_2
##	1615	4073.71	5532.9	2924.5	4994.2	A_2
##	1616	4131.26	5505.3	2940.9	4985.2	A_2
##	1617	4104.57	5445.1	2919.7	4950.5	A_2
##	1618	4028.00	5356.7	2874.6	4905.2	A_2
##	1619	3890.24	5280.8	2843.6	4854.8	A_2
##	1620	3796.61	5281.9	2834.1	4848.2	A_2
##	1621	3869.53	5321.7	2898.6	4902.9	A_2
##	1622	3995.69	5417.8	2940.6	4976.4	A_2
##	1623	3970.44	5550.4	2944.0	5013.1	A_2
##	1624	4004.04	5629.0	2978.4	5046.2	A_2
##	1625	3983.06	5611.0	2977.2	5023.8	A_2
##	1626	4096.85	5705.1	3017.5	5075.7	A_2
##	1627	4091.77	5730.4	2997.2	5027.5	A_2
##	1628	4150.95	5732.5	3023.7	5077.2	A_2
##	1629	4104.93	5667.1	3005.4	5065.5	A_2
##	1630	4135.09	5716.6	2985.6	5226.3	A_2
##	1631	4116.52	5691.8	2989.0	5220.3	A_2
##	1632	4154.89	5673.6	3008.3	5244.2	A_2

##	1633	4262.98	5754.7	3054.9	5317.1	A_2
##	1634	4266.17	5825.0	3052.1	5296.1	A_2
##	1635	4266.17	5929.0	3094.0	5330.8	A_2
##	1636	4326.35	5897.4	3078.0	5300.0	A_2
##	1637	4311.13	5846.9	3064.4	5305.6	A_2
##	1638	4267.40	5822.3	3024.1	5262.1	A_2
##	1639	4179.92	5732.2	2960.7	5217.8	A_2
##	1640	4164.62	5699.5	2955.1	5227.3	A_2
##	1641	4225.27	5792.8	3002.9	5300.1	A_2
##	1642	4215.23	5836.3	3002.5	5298.9	A_2
##	1643	4168.62	5815.9	2992.2	5263.7	A_2
##	1644	4149.92	5806.8	2992.9	5287.9	A_2
##	1645	4049.16	5751.6	2958.0	5271.1	A_2
##	1646	4069.25	5777.2	2946.7	5211.0	A_2
##	1647	4172.47	5862.9	2989.9	5225.9	A_2
##	1648	4124.86	5803.2	2958.1	5148.8	A_2
##	1649	3976.38	5651.8	2856.9	4991.5	A_2
##	1650	3981.44	5689.5	2849.0	4970.2	A_2
##	1651	3871.39	5533.5	2769.6	4840.7	A_2
##	1652	3645.69	5279.7	2651.3	4755.4	A_2
##	1653	3806.66	5479.0	2818.0	4871.8	A_2
##	1654	3748.88	5370.9	2739.5	4801.9	A_2
##	1655	3753.66	5467.2	2739.3	4842.3	A_2
##	1656	3847.73	5581.6	2788.0	4906.4	A_2
##	1657	3784.80	5538.2	2774.9	4897.4	A_2
##	1658	3841.39	5601.6	2822.4	4908.3	A_2
##	1659	3813.88	5557.4	2781.8	4863.8	A_2
##	1660	3715.38	5438.6	2707.1	4764.3	A_2
##	1661	3728.37	5459.7	2707.1	4806.8	A_2
##	1662	3734.79	5483.9	2707.1	4793.7	A_2
##	1663	3697.48	5434.0	2694.5	4720.4	A_2
##	1664	3701.94	5418.2	2700.7	4711.0	A_2
##	1665	3676.65	5437.0	2698.9	4741.8	A_2
##	1666	3816.71	5565.0	2773.0	4867.0	A_2
##	1667	3844.14	5574.2	2782.6	4845.4	A_2
##	1668	3876.90	5571.7	2790.6	4830.1	A_2
##	1669	3931.81	5650.4	2821.2	4908.4	A_2
##	1670	3941.91	5725.5	2861.7	4985.8	A_2
##	1671	3832.10	5645.7	2802.5	4898.6	A_2
##	1672	3850.14	5666.3	2786.3	4863.5	A_2
##	1673	3926.93	5738.3	2811.7	4891.2	A_2
##	1674	3961.97	5772.4	2829.0	4889.0	A_2
##	1675	3972.08	5775.9	2854.4	4831.8	A_2
##	1676	4125.92	5875.1	2918.5	4921.8	A_2
##	1677	4096.40	5919.9	2913.1	4977.6	A_2
##	1678	4074.55	5922.7	2902.4	4970.7	A_2
##	1679	4159.72	5969.5	2914.5	5082.3	A_2
##	1680	4191.81	6009.0	2910.1	5142.9	A_2
##	1681	4208.14	6095.3	2932.5	5187.4	A_2
##	1682	4187.13	6103.2	2959.4	5177.1	A_2
##	1683	4116.70	6056.6	2932.2	5130.7	A_2
##	1684	4016.70	6021.8	2828.5	5035.9	A_2
##	1685	4061.91	6018.7	2830.3	5045.2	A_2
##	1686	4029.08	5986.6	2838.3	5121.8	A_2

##	1687	4150.31	6092.7	2912.2	5203.4	A_2
##	1688	4154.57	6122.1	2893.3	5190.8	A_2
##	1689	4162.92	6115.1	2894.5	5168.3	A_2
##	1690	4055.35	5989.9	2822.9	5020.2	A_2
##	1691	4125.54	6049.3	2869.7	5018.2	A_2
##	1692	4132.79	6044.7	2858.1	5049.8	A_2
##	1693	4132.79	6046.7	2874.1	5013.9	A_2
##	1694	4132.79	6046.7	2874.1	5013.9	A_2
##	1695	4132.79	6046.7	2875.1	5013.9	A_2
##	1696	4266.02	6190.4	2939.5	5112.4	A_2
##	1697	4224.30	6267.6	2975.5	5132.3	A_2
##	1698	4224.30	6265.5	2998.9	5135.5	A_2
##	1699	4224.30	6265.5	2998.9	5135.5	A_2
##	1700	4364.32	6265.5	3038.7	5193.5	A_2
##	1701	4416.95	6397.0	3072.8	5262.5	A_2
##	1702	4360.05	6375.7	3037.7	5264.4	A_2
##	1703	4339.98	6390.0	3006.7	5224.1	A_2
##	1704	4293.64	6330.2	2954.9	5237.1	A_2
##	1705	4237.75	6251.8	2919.8	5138.3	A_2
##	1706	4134.64	6062.1	2862.5	5068.8	A_2
##	1707	4150.01	6169.3	2902.9	5083.9	A_2
##	1708	4145.41	6149.8	2919.8	5106.9	A_2
##	1709	4140.22	6148.5	2932.8	5165.8	A_2
##	1710	4216.24	6274.0	2976.1	5263.1	A_2
##	1711	4290.05	6340.4	2987.0	5273.6	A_2
##	1712	4310.83	6397.5	3008.3	5278.2	A_2
##	1713	4250.47	6391.4	2998.1	5272.3	A_2
##	1714	4238.77	6356.1	2988.6	5253.1	A_2
##	1715	4222.16	6391.0	2966.2	5181.4	A_2
##	1716	4266.34	6411.0	3000.5	5237.2	A_2
##	1717	4316.05	6424.0	3052.0	5326.3	A_2
##	1718	4385.29	6508.7	3088.3	5372.6	A_2
##	1719	4444.53	6530.4	3133.8	5422.4	A_2
##	1720	4442.53	6582.6	3172.1	5458.5	A_2
##	1721	4529.88	6688.0	3187.5	5599.0	A_2
##	1722	4529.18	6720.7	3188.4	5612.8	A_2
##	1723	4509.25	6708.9	3166.3	5595.8	A_2
##	1724	4494.72	6772.0	3189.6	5606.4	A_2
##	1725	4536.91	6857.1	3216.7	5629.7	A_2
##	1726	4519.56	6828.4	3220.9	5600.9	A_2
##	1727	4558.62	6860.8	3235.8	5613.3	A_2
##	1728	4552.46	6931.6	3240.0	5607.9	A_2
##	1729	4509.37	6856.0	3178.7	5552.5	A_2
##	1730	4522.42	6898.9	3187.7	5582.3	A_2
##	1731	4535.56	6905.3	3225.1	5619.9	A_2
##	1732	4627.42	6990.5	3280.5	5709.5	A_2
##	1733	4611.66	6966.2	3281.7	5723.4	A_2
##	1734	4581.08	6953.2	3250.6	5718.5	A_2
##	1735	4583.03	6986.7	3262.5	5718.5	A_2
##	1736	4610.66	6986.1	3273.5	5702.8	A_2
##	1737	4604.55	6945.0	3262.3	5651.0	A_2
##	1738	4704.58	7065.4	3348.2	5745.1	A_2
##	1739	4695.78	7118.6	3397.0	5764.8	A_2
##	1740	4693.86	7153.1	3421.9	5767.3	A_2

## 1741	4781.62	7273.0	3446.7	5820.6	A_2
## 1742	4759.62	7259.5	3414.9	5807.7	A_2
## 1743	4690.52	7130.5	3381.3	5733.1	A_2
## 1744	4676.42	7077.3	3395.8	5695.6	A_2
## 1745	4762.71	7197.2	3483.2	5782.9	A_2
## 1746	4828.89	7187.5	3525.9	5818.9	A_2
## 1747	4852.22	7246.5	3521.5	5828.5	A_2
## 1748	4862.41	7276.7	3539.4	5829.8	A_2
## 1749	4838.67	7267.9	3526.6	5794.8	A_2
## 1750	4872.24	7328.0	3540.2	5782.3	A_2
## 1751	4905.59	7261.2	3598.3	5785.1	A_2
## 1752	4945.91	7236.5	3661.3	5834.9	A_2
## 1753	4908.55	7132.4	3652.5	5903.6	A_2
## 1754	4949.91	7143.8	3688.7	5997.9	A_2
## 1755	5045.16	7300.5	3688.9	5956.3	A_2
## 1756	5014.13	7341.0	3680.1	5947.0	A_2
## 1757	5064.35	7407.4	3738.5	5983.7	A_2
## 1758	5114.13	7472.1	3818.7	5967.8	A_2
## 1759	5029.00	7415.9	3783.8	5905.6	A_2
## 1760	5066.90	7530.3	3810.2	5939.3	A_2
## 1761	5069.89	7536.3	3800.2	5911.9	A_2
## 1762	5097.25	7585.5	3875.3	5932.2	A_2
## 1763	5135.35	7615.5	3883.3	6017.6	A_2
## 1764	5179.04	7638.8	3935.9	6052.8	A_2
## 1765	5254.32	7725.9	3932.0	6064.2	A_2
## 1766	5345.89	7827.7	3986.8	6105.8	A_2
## 1767	5309.67	7744.3	3903.3	6094.0	A_2
## 1768	5267.35	7588.1	3873.9	6055.2	A_2
## 1769	5312.25	7624.1	3894.5	6105.5	A_2
## 1770	5312.25	7624.1	3894.5	6105.5	A_2
## 1771	5312.25	7624.1	3894.5	6105.5	A_2
## 1772	5367.98	7662.9	3867.7	6104.1	A_2
## 1773	5359.24	7616.3	3884.6	6074.1	A_2
## 1774	5292.97	7500.1	3845.9	6002.0	A_2
## 1775	5326.63	7453.7	3861.6	5922.2	A_2
## 1776	5407.93	7500.1	3885.7	5954.1	A_2
## 1777	5373.80	7369.1	3860.4	5955.0	A_2
## 1778	5312.28	7308.9	3835.1	5931.1	A_2
## 1779	5262.57	7265.5	3822.1	5898.1	A_2
## 1780	5144.42	7232.3	3788.7	5863.9	A_2
## 1781	5002.71	7053.5	3689.4	5722.4	A_2
## 1782	5110.88	7180.1	3777.2	5806.6	A_2
## 1783	5083.80	7241.8	3726.2	5833.1	A_2
## 1784	5241.23	7401.4	3867.9	5928.3	A_2
## 1785	5241.23	7401.4	3867.9	6011.3	A_2
## 1786	5337.75	7640.8	3979.3	6011.3	A_2
## 1787	5226.20	7596.2	3945.5	5986.5	A_2
## 1788	5264.62	7610.8	3947.5	5992.4	A_2
## 1789	5164.89	7536.0	3912.8	5938.0	A_2
## 1790	5270.61	7587.1	3912.8	5969.8	A_2
## 1791	5348.75	7677.5	4007.3	6028.3	A_2
## 1792	5307.82	7627.3	3986.1	5956.7	A_2
## 1793	5371.99	7582.8	4018.5	5972.9	A_2
## 1794	5374.11	7550.6	4012.0	5948.5	A_2

##	1795	5414.31	7519.4	3990.2	5917.8	A_2
##	1796	5343.66	7371.4	3945.3	5826.2	A_2
##	1797	5441.00	7483.2	3980.8	5877.8	A_2
##	1798	5514.51	7495.8	4047.9	5907.4	A_2
##	1799	5514.51	7495.8	4047.9	5935.6	A_2
##	1800	5530.19	7542.7	4049.8	5955.6	A_2
##	1801	5592.46	7657.1	4108.7	5955.6	A_2
##	1802	5639.89	7731.9	4115.9	5970.7	A_2
##	1803	5466.88	7633.5	4017.4	5870.2	A_2
##	1804	5507.36	7605.0	4014.9	5862.3	A_2
##	1805	5556.99	7656.1	4041.2	5870.7	A_2
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##	1807	5583.83	7657.5	4087.0	5842.3	A_2
##	1808	5640.42	7676.3	4149.4	5898.4	A_2
##	1809	5605.38	7592.9	4119.0	5860.8	A_2
##	1810	5724.75	7699.5	4185.1	5947.3	A_2
##	1811	5787.05	7743.4	4204.6	6037.8	A_2
##	1812	5773.77	7716.8	4201.9	6019.8	A_2
##	1813	5799.22	7652.6	4208.6	5987.4	A_2
##	1814	5799.22	7498.4	4141.6	5852.5	A_2
##	1815	5631.34	7417.4	4050.8	5769.8	A_2
##	1816	5581.24	7342.7	4005.3	5715.7	A_2
##	1817	5621.71	7388.7	4013.3	5729.7	A_2
##	1818	5742.83	7562.7	4092.9	5832.7	A_2
##	1819	5689.89	7488.0	4052.3	5812.1	A_2
##	1820	5644.22	7518.6	4027.3	5748.1	A_2
##	1821	5648.11	7511.8	4018.6	5712.4	A_2
##	1822	5748.34	7624.8	4065.0	5772.0	A_2
##	1823	5784.40	7667.9	4126.3	5804.9	A_2
##	1824	5886.72	7794.7	4203.8	5858.9	A_2
##	1825	5870.49	7816.9	4215.7	5877.4	A_2
##	1826	5933.73	7881.9	4248.2	5884.5	A_2
##	1827	5841.83	7882.0	4203.5	5832.5	A_2
##	1828	5910.51	8038.2	4260.7	5919.9	A_2
##	1829	5905.15	8047.3	4252.1	5960.2	A_2
##	1830	5961.45	8099.0	4304.4	5988.4	A_2
##	1831	5942.06	8166.0	4311.1	5990.3	A_2
##	1832	5975.88	8160.0	4333.1	6003.4	A_2
##	1833	6018.89	8227.2	4339.9	6009.6	A_2
##	1834	6000.84	8205.0	4319.2	5969.7	A_2
##	1835	6001.24	8192.4	4256.4	5927.9	A_2
##	1836	6023.31	8141.9	4256.4	5958.2	A_2
##	1837	6101.90	8180.5	4256.4	6100.2	A_2
##	1838	6106.10	8158.1	4344.3	6151.5	A_2
##	1839	6108.00	8126.5	4358.1	6116.8	A_2
##	1840	6162.86	8288.2	4388.5	6174.0	A_2
##	1841	6186.09	8400.8	4368.9	6179.0	A_2
##	1842	6184.10	8412.0	4322.1	6132.7	A_2
##	1843	6081.11	8340.7	4220.1	5989.6	A_2
##	1844	6043.82	8229.2	4235.9	5976.2	A_2
##	1845	6040.58	8205.7	4205.4	5892.3	A_2
##	1846	5854.35	7998.7	4139.5	5836.1	A_2
##	1847	5867.52	8093.0	4122.4	5835.8	A_2
##	1848	5828.74	8102.7	4139.2	5844.1	A_2

```
## 1849 5906.33 8205.5 4197.6 5910.7      A_2
## 1850 5861.19 8239.5 4177.3 5837.0      A_2
## 1851 5774.38 8139.2 4095.0 5809.7      A_2
## 1852 5718.70 8170.2 4047.9 5736.1      A_2
## 1853 5614.77 7943.2 3976.4 5632.5      A_2
## 1854 5528.12 7846.2 3968.6 5594.1      A_2
## 1855 5598.32 7952.9 4041.9 5680.4      A_2
## 1856 5460.43 7721.3 3939.5 5587.6      A_2
## 1857 5285.78 7447.9 3846.0 5432.8      A_2
## 1858 5386.94 7607.5 3945.7 5462.2      A_2
## 1859 5355.03 7552.6 3951.7 5399.5      A_2
## 1860 5473.72 7676.3 3995.0 5455.0      A_2
```

5. Count the number of values that fall in each of the categories.

```
cat("Total no of values in each categories:\n\n")
```

```
## Total no of values in each categories:
```

```
summary(as.factor(eustock$CAT_DAX))
```

```
## A_1 A_2 A_3
## 465 465 930
```

6. Find and create a column CAT_FTSE that will save the modified values of FTSE based on the given condition. Criteria: For all the values less than the median of the column FTSE, if the value is even subtract a value to make it an odd values and for all values greater than or equal to median of FTSE and if the value is even convert to odd values by adding 1 to it.

```
emp_vec <- c()

for(i in as.integer(eustock$FTSE)){
  ifelse(i < median(eustock$FTSE), ifelse(i%%2==0, emp_vec <- append(emp_vec, i-1),
    emp_vec <- append(emp_vec, i)),
    ifelse(i%%2==0, emp_vec <- append(emp_vec, i+1),
    emp_vec <- append(emp_vec, i)))
}

eustock$CAT_FTSE <- emp_vec

eustock
```

```
##          DAX      SMI      CAC    FTSE CAT_DAX CAT_FTSE
## 1  1628.75 1678.1 1772.8 2443.6      A_1    2443
## 2  1613.63 1688.5 1750.5 2460.2      A_1    2459
## 3  1606.51 1678.6 1718.0 2448.2      A_1    2447
## 4  1621.04 1684.1 1708.1 2470.4      A_1    2469
## 5  1618.16 1686.6 1723.1 2484.7      A_1    2483
## 6  1610.61 1671.6 1714.3 2466.8      A_1    2465
## 7  1630.75 1682.9 1734.5 2487.9      A_1    2487
## 8  1640.17 1703.6 1757.4 2508.4      A_1    2507
```

## 9	1635.47	1697.5	1754.0	2510.5	A_1	2509
## 10	1645.89	1716.3	1754.3	2497.4	A_1	2497
## 11	1647.84	1723.8	1759.8	2532.5	A_1	2531
## 12	1638.35	1730.5	1755.5	2556.8	A_1	2555
## 13	1629.93	1727.4	1758.1	2561.0	A_1	2561
## 14	1621.49	1733.3	1757.5	2547.3	A_1	2547
## 15	1624.74	1734.0	1763.5	2541.5	A_1	2541
## 16	1627.63	1728.3	1762.8	2558.5	A_1	2557
## 17	1631.99	1737.1	1768.9	2587.9	A_1	2587
## 18	1621.18	1723.1	1778.1	2580.5	A_1	2579
## 19	1613.42	1723.6	1780.1	2579.6	A_1	2579
## 20	1604.95	1719.0	1767.7	2589.3	A_1	2589
## 21	1605.75	1721.2	1757.9	2595.0	A_1	2595
## 22	1616.67	1725.3	1756.6	2595.6	A_1	2595
## 23	1619.29	1727.2	1754.7	2588.8	A_1	2587
## 24	1620.49	1727.2	1766.8	2591.7	A_1	2591
## 25	1619.67	1731.6	1766.5	2601.7	A_1	2601
## 26	1623.07	1724.1	1762.2	2585.4	A_1	2585
## 27	1613.98	1716.9	1759.5	2573.3	A_1	2573
## 28	1631.87	1723.4	1782.4	2597.4	A_1	2597
## 29	1630.37	1723.0	1789.5	2600.6	A_1	2599
## 30	1633.47	1728.4	1783.5	2570.6	A_1	2569
## 31	1626.55	1722.1	1780.4	2569.4	A_1	2569
## 32	1650.43	1724.5	1808.8	2584.9	A_1	2583
## 33	1650.06	1733.6	1820.3	2608.8	A_1	2607
## 34	1654.11	1739.0	1820.3	2617.2	A_1	2617
## 35	1653.60	1726.2	1820.3	2621.0	A_1	2621
## 36	1501.82	1587.4	1687.5	2540.5	A_1	2539
## 37	1524.28	1630.6	1725.6	2554.5	A_1	2553
## 38	1603.65	1685.5	1792.9	2601.9	A_1	2601
## 39	1622.49	1701.3	1819.1	2623.0	A_1	2623
## 40	1636.68	1718.0	1833.5	2640.7	A_1	2639
## 41	1652.10	1726.2	1853.4	2640.7	A_1	2639
## 42	1645.81	1716.6	1849.7	2619.8	A_1	2619
## 43	1650.36	1725.8	1851.8	2624.2	A_1	2623
## 44	1651.55	1737.4	1857.7	2638.2	A_1	2637
## 45	1649.88	1736.6	1864.3	2645.7	A_1	2645
## 46	1653.52	1732.4	1863.5	2679.6	A_1	2679
## 47	1657.51	1731.2	1873.2	2669.0	A_1	2669
## 48	1649.55	1726.9	1860.8	2664.6	A_1	2663
## 49	1649.09	1727.8	1868.7	2663.3	A_1	2663
## 50	1646.41	1720.2	1860.4	2667.4	A_1	2667
## 51	1638.65	1715.4	1855.9	2653.2	A_1	2653
## 52	1625.80	1708.7	1840.5	2630.8	A_1	2629
## 53	1628.64	1713.0	1842.6	2626.6	A_1	2625
## 54	1632.22	1713.5	1861.2	2641.9	A_1	2641
## 55	1633.65	1718.0	1876.2	2625.8	A_1	2625
## 56	1631.17	1701.7	1878.3	2606.0	A_1	2605
## 57	1635.80	1701.7	1878.4	2594.4	A_1	2593
## 58	1621.27	1684.9	1869.4	2583.6	A_1	2583
## 59	1624.70	1687.2	1880.4	2588.7	A_1	2587
## 60	1616.13	1690.6	1885.5	2600.3	A_1	2599
## 61	1618.12	1684.3	1888.4	2579.5	A_1	2579
## 62	1627.80	1679.9	1885.2	2576.6	A_1	2575

## 63	1625.79	1672.9	1877.9	2597.8	A_1	2597
## 64	1614.80	1663.1	1876.5	2595.6	A_1	2595
## 65	1612.80	1669.3	1883.8	2599.0	A_1	2599
## 66	1605.47	1664.7	1880.6	2621.7	A_1	2621
## 67	1609.32	1672.3	1887.4	2645.6	A_1	2645
## 68	1607.48	1687.7	1878.3	2644.2	A_1	2643
## 69	1607.48	1686.8	1867.1	2625.6	A_1	2625
## 70	1604.89	1686.6	1851.9	2624.6	A_1	2623
## 71	1589.12	1675.8	1843.6	2596.2	A_1	2595
## 72	1582.27	1677.4	1848.1	2599.5	A_1	2599
## 73	1567.99	1673.2	1843.4	2584.1	A_1	2583
## 74	1568.16	1665.0	1843.6	2570.8	A_1	2569
## 75	1569.71	1671.3	1833.8	2555.0	A_1	2555
## 76	1571.74	1672.4	1833.4	2574.5	A_1	2573
## 77	1585.41	1676.2	1856.9	2576.7	A_1	2575
## 78	1570.01	1692.6	1863.4	2579.0	A_1	2579
## 79	1561.89	1696.5	1855.5	2588.7	A_1	2587
## 80	1565.18	1716.1	1864.2	2601.1	A_1	2601
## 81	1570.34	1713.3	1846.0	2575.7	A_1	2575
## 82	1577.00	1705.1	1836.8	2559.5	A_1	2559
## 83	1590.29	1711.3	1830.4	2561.1	A_1	2561
## 84	1572.72	1709.8	1831.6	2528.3	A_1	2527
## 85	1572.07	1688.6	1834.8	2514.7	A_1	2513
## 86	1579.19	1698.9	1852.1	2558.5	A_1	2557
## 87	1588.73	1700.0	1849.8	2553.3	A_1	2553
## 88	1586.01	1693.0	1861.8	2577.1	A_1	2577
## 89	1579.77	1683.9	1856.7	2566.0	A_1	2565
## 90	1572.58	1679.2	1856.7	2549.5	A_1	2549
## 91	1568.09	1673.9	1841.5	2527.8	A_1	2527
## 92	1578.21	1683.9	1846.9	2540.9	A_1	2539
## 93	1573.94	1688.4	1836.1	2534.2	A_1	2533
## 94	1582.06	1693.9	1838.6	2538.0	A_1	2537
## 95	1610.18	1720.9	1857.6	2559.0	A_1	2559
## 96	1605.16	1717.9	1857.6	2554.9	A_1	2553
## 97	1623.84	1733.6	1858.4	2575.5	A_1	2575
## 98	1615.26	1729.7	1846.8	2546.5	A_1	2545
## 99	1627.08	1735.6	1868.5	2561.6	A_1	2561
## 100	1626.97	1734.1	1863.2	2546.6	A_1	2545
## 101	1605.70	1699.3	1808.3	2502.9	A_1	2501
## 102	1589.70	1678.6	1765.1	2463.1	A_1	2463
## 103	1589.70	1675.5	1763.5	2472.6	A_1	2471
## 104	1603.26	1670.1	1766.0	2463.5	A_1	2463
## 105	1599.75	1652.2	1741.3	2446.3	A_1	2445
## 106	1590.86	1635.0	1743.3	2456.2	A_1	2455
## 107	1603.50	1654.9	1769.0	2471.5	A_1	2471
## 108	1589.86	1642.0	1757.9	2447.5	A_1	2447
## 109	1587.92	1638.7	1754.9	2428.6	A_1	2427
## 110	1571.06	1622.6	1739.7	2420.2	A_1	2419
## 111	1549.81	1596.1	1708.8	2414.9	A_1	2413
## 112	1549.36	1612.4	1722.2	2420.2	A_1	2419
## 113	1554.65	1625.0	1713.9	2423.8	A_1	2423
## 114	1557.52	1610.5	1703.2	2407.0	A_1	2407
## 115	1555.31	1606.6	1685.7	2388.7	A_1	2387
## 116	1559.76	1610.7	1663.4	2409.6	A_1	2409

## 117	1548.44	1603.1	1636.9	2392.0	A_1	2391
## 118	1543.99	1591.5	1645.6	2380.2	A_1	2379
## 119	1550.21	1605.2	1671.6	2423.3	A_1	2423
## 120	1557.03	1621.4	1688.3	2451.6	A_1	2451
## 121	1551.78	1622.5	1696.8	2440.8	A_1	2439
## 122	1562.89	1626.6	1711.7	2432.9	A_1	2431
## 123	1570.28	1627.4	1706.2	2413.6	A_1	2413
## 124	1559.26	1614.9	1684.2	2391.6	A_1	2391
## 125	1545.87	1602.3	1648.5	2358.1	A_1	2357
## 126	1542.77	1598.3	1633.6	2345.4	A_1	2345
## 127	1542.77	1627.0	1699.1	2384.4	A_1	2383
## 128	1542.77	1627.0	1699.1	2384.4	A_1	2383
## 129	1542.77	1627.0	1722.5	2384.4	A_1	2383
## 130	1564.27	1655.7	1720.7	2418.7	A_1	2417
## 131	1577.26	1670.1	1741.9	2420.0	A_1	2419
## 132	1577.26	1670.1	1765.7	2493.1	A_1	2493
## 133	1577.26	1670.1	1765.7	2493.1	A_1	2493
## 134	1598.19	1670.1	1749.9	2492.8	A_1	2491
## 135	1604.05	1704.0	1770.3	2504.1	A_1	2503
## 136	1604.69	1711.8	1787.6	2493.2	A_1	2493
## 137	1593.65	1700.5	1778.7	2482.9	A_1	2481
## 138	1581.68	1690.3	1785.6	2467.1	A_1	2467
## 139	1599.14	1715.4	1833.9	2497.9	A_1	2497
## 140	1613.82	1723.5	1837.4	2477.9	A_1	2477
## 141	1620.45	1719.4	1824.3	2490.1	A_1	2489
## 142	1629.51	1734.4	1843.8	2516.3	A_1	2515
## 143	1663.70	1772.8	1873.6	2537.1	A_1	2537
## 144	1664.09	1760.3	1860.2	2541.6	A_1	2541
## 145	1669.29	1747.2	1860.2	2536.7	A_1	2535
## 146	1685.14	1750.2	1865.9	2544.9	A_1	2543
## 147	1687.07	1755.3	1867.9	2543.4	A_1	2543
## 148	1680.13	1754.6	1841.3	2522.0	A_1	2521
## 149	1671.84	1751.2	1838.7	2525.3	A_1	2525
## 150	1669.52	1752.5	1849.9	2510.4	A_1	2509
## 151	1686.71	1769.4	1869.3	2539.9	A_1	2539
## 152	1685.51	1767.6	1890.6	2552.0	A_1	2551
## 153	1671.01	1750.0	1879.6	2546.5	A_1	2545
## 154	1683.06	1747.1	1873.9	2550.8	A_1	2549
## 155	1685.70	1753.5	1875.3	2571.2	A_1	2571
## 156	1685.66	1752.8	1857.0	2560.2	A_1	2559
## 157	1678.77	1752.9	1856.5	2556.8	A_1	2555
## 158	1685.85	1764.7	1865.8	2547.1	A_1	2547
## 159	1683.71	1776.8	1860.6	2534.3	A_1	2533
## 160	1686.59	1779.3	1861.6	2517.2	A_1	2517
## 161	1683.73	1785.1	1865.6	2538.4	A_1	2537
## 162	1679.14	1798.2	1864.1	2537.1	A_1	2537
## 163	1685.03	1794.1	1861.6	2523.7	A_1	2523
## 164	1680.81	1795.2	1876.5	2522.6	A_1	2521
## 165	1676.17	1780.4	1865.1	2513.9	A_1	2513
## 166	1688.46	1789.5	1882.1	2541.0	A_1	2541
## 167	1696.55	1794.2	1912.2	2555.9	A_1	2555
## 168	1690.24	1784.4	1915.4	2536.7	A_1	2535
## 169	1711.35	1800.1	1951.2	2543.4	A_1	2543
## 170	1711.29	1804.0	1962.4	2542.3	A_1	2541

## 171	1729.86	1816.2	1976.5	2559.7	A_1	2559
## 172	1716.63	1810.5	1953.5	2546.8	A_1	2545
## 173	1743.36	1821.9	1981.3	2565.0	A_1	2565
## 174	1745.17	1828.2	1985.1	2562.0	A_3	2561
## 175	1746.76	1840.6	1983.4	2562.1	A_3	2561
## 176	1749.29	1841.1	1979.7	2554.3	A_3	2553
## 177	1763.86	1846.3	1983.8	2565.4	A_3	2565
## 178	1762.27	1850.0	1988.1	2558.4	A_3	2557
## 179	1762.29	1839.0	1973.0	2538.3	A_3	2537
## 180	1746.77	1820.2	1966.9	2533.1	A_3	2533
## 181	1753.50	1815.2	1976.3	2550.7	A_3	2549
## 182	1753.21	1820.6	1993.9	2574.8	A_3	2573
## 183	1739.88	1807.1	1968.0	2522.4	A_1	2521
## 184	1723.92	1791.4	1941.8	2493.3	A_1	2493
## 185	1734.42	1806.2	1947.1	2476.0	A_1	2475
## 186	1723.13	1798.7	1929.2	2470.7	A_1	2469
## 187	1732.92	1818.2	1943.6	2491.2	A_1	2491
## 188	1729.89	1820.5	1928.2	2464.7	A_1	2463
## 189	1725.74	1833.3	1922.0	2467.6	A_1	2467
## 190	1730.90	1837.1	1919.1	2456.6	A_1	2455
## 191	1714.17	1818.2	1884.6	2441.0	A_1	2441
## 192	1716.20	1824.1	1896.3	2458.7	A_1	2457
## 193	1719.06	1830.1	1928.3	2464.9	A_1	2463
## 194	1718.21	1835.6	1934.8	2472.2	A_1	2471
## 195	1698.84	1828.7	1923.5	2447.9	A_1	2447
## 196	1714.76	1839.2	1943.8	2452.9	A_1	2451
## 197	1718.35	1837.2	1942.4	2440.1	A_1	2439
## 198	1706.69	1826.7	1928.1	2408.6	A_1	2407
## 199	1723.37	1838.0	1942.0	2405.4	A_1	2405
## 200	1716.18	1829.1	1942.7	2382.7	A_1	2381
## 201	1738.78	1843.1	1974.8	2400.9	A_1	2399
## 202	1737.41	1850.5	1975.4	2404.2	A_1	2403
## 203	1714.77	1827.1	1907.5	2393.2	A_1	2393
## 204	1724.24	1829.1	1943.6	2436.4	A_1	2435
## 205	1733.77	1848.0	1974.1	2572.6	A_1	2571
## 206	1729.96	1840.5	1963.3	2591.0	A_1	2591
## 207	1734.46	1853.8	1972.3	2600.5	A_1	2599
## 208	1744.35	1874.1	1990.7	2640.2	A_3	2639
## 209	1746.88	1871.3	1978.2	2638.6	A_3	2637
## 210	1746.88	1871.3	1978.2	2638.6	A_3	2637
## 211	1746.88	1871.3	1978.2	2638.6	A_3	2637
## 212	1747.47	1860.5	1980.4	2625.8	A_3	2625
## 213	1753.10	1874.7	1983.7	2607.8	A_3	2607
## 214	1745.17	1880.1	1978.1	2609.8	A_3	2609
## 215	1745.72	1874.7	1984.9	2643.0	A_3	2643
## 216	1742.92	1875.6	1995.7	2658.2	A_1	2657
## 217	1731.68	1859.5	2006.6	2651.0	A_1	2651
## 218	1731.18	1874.2	2036.7	2664.9	A_1	2663
## 219	1728.09	1880.1	2031.1	2654.1	A_1	2653
## 220	1728.09	1880.1	2031.1	2659.8	A_1	2659
## 221	1731.29	1907.7	2041.6	2659.8	A_1	2659
## 222	1733.82	1920.5	2046.9	2662.2	A_1	2661
## 223	1745.78	1937.3	2047.2	2698.7	A_3	2697
## 224	1752.57	1936.8	2063.4	2701.9	A_3	2701

## 225	1748.13	1949.1	2063.4	2725.7	A_3	2725
## 226	1750.70	1963.7	2077.5	2737.8	A_3	2737
## 227	1747.91	1950.8	2063.6	2722.4	A_3	2721
## 228	1745.79	1953.5	2053.2	2720.5	A_3	2719
## 229	1735.34	1945.0	2017.0	2694.7	A_1	2693
## 230	1719.92	1921.1	2024.0	2682.6	A_1	2681
## 231	1763.59	1939.1	2051.6	2703.6	A_3	2703
## 232	1766.76	1928.0	2023.1	2700.6	A_3	2699
## 233	1785.40	1933.4	2030.8	2711.9	A_3	2711
## 234	1783.56	1925.7	2016.8	2702.0	A_3	2701
## 235	1804.42	1931.7	2045.1	2715.0	A_3	2715
## 236	1812.33	1928.7	2046.3	2715.0	A_3	2715
## 237	1799.51	1924.5	2029.6	2704.6	A_3	2703
## 238	1792.80	1914.2	2014.1	2698.6	A_3	2697
## 239	1792.80	1914.2	2014.1	2694.2	A_3	2693
## 240	1806.36	1920.6	2033.3	2707.6	A_3	2707
## 241	1798.23	1923.3	2017.4	2697.6	A_3	2697
## 242	1800.62	1930.4	2024.9	2705.9	A_3	2705
## 243	1786.19	1915.2	1992.6	2680.9	A_3	2679
## 244	1791.35	1916.9	1994.9	2681.9	A_3	2681
## 245	1789.05	1913.8	1981.6	2668.5	A_3	2667
## 246	1789.05	1913.8	1981.6	2645.8	A_3	2645
## 247	1784.71	1899.7	1962.2	2635.4	A_3	2635
## 248	1789.45	1888.0	1953.7	2636.1	A_3	2635
## 249	1779.74	1868.8	1928.8	2614.1	A_3	2613
## 250	1786.97	1879.9	1928.3	2603.7	A_3	2603
## 251	1773.25	1865.7	1918.1	2593.6	A_3	2593
## 252	1781.62	1881.3	1931.4	2616.3	A_3	2615
## 253	1773.75	1873.1	1908.8	2598.4	A_3	2597
## 254	1773.75	1862.5	1891.8	2562.7	A_3	2561
## 255	1776.34	1869.3	1913.9	2584.8	A_3	2583
## 256	1770.72	1846.9	1885.8	2550.3	A_3	2549
## 257	1772.39	1847.1	1895.8	2560.6	A_3	2559
## 258	1762.55	1838.3	1899.6	2532.6	A_3	2531
## 259	1764.35	1845.8	1920.3	2557.3	A_3	2557
## 260	1752.83	1835.5	1915.3	2534.1	A_3	2533
## 261	1755.98	1846.6	1907.3	2515.8	A_3	2515
## 262	1754.95	1854.8	1900.6	2521.2	A_3	2521
## 263	1759.90	1845.3	1880.9	2493.9	A_3	2493
## 264	1759.84	1854.5	1873.5	2476.1	A_3	2475
## 265	1776.50	1870.5	1883.6	2497.1	A_3	2497
## 266	1769.98	1862.6	1868.5	2469.0	A_3	2469
## 267	1766.98	1856.6	1879.1	2493.7	A_3	2493
## 268	1752.29	1837.6	1847.8	2472.6	A_3	2471
## 269	1760.17	1846.7	1861.8	2497.9	A_3	2497
## 270	1750.32	1856.5	1859.4	2490.8	A_3	2489
## 271	1731.44	1841.8	1859.4	2478.3	A_1	2477
## 272	1735.51	1835.0	1859.4	2484.0	A_1	2483
## 273	1733.84	1844.4	1853.3	2486.4	A_1	2485
## 274	1730.78	1838.9	1851.2	2483.4	A_1	2483
## 275	1699.46	1805.6	1801.8	2431.9	A_1	2431
## 276	1652.71	1756.6	1767.9	2403.7	A_1	2403
## 277	1654.09	1786.1	1762.7	2415.6	A_1	2415
## 278	1636.81	1757.1	1727.5	2387.9	A_1	2387

## 279	1622.81	1762.8	1734.6	2399.5	A_1	2399
## 280	1613.36	1756.8	1734.6	2377.2	A_1	2377
## 281	1617.78	1761.9	1755.4	2348.0	A_1	2347
## 282	1617.18	1778.5	1769.0	2373.4	A_1	2373
## 283	1637.62	1812.7	1801.6	2423.2	A_1	2423
## 284	1622.20	1806.1	1782.6	2411.6	A_1	2411
## 285	1608.49	1798.1	1754.7	2399.6	A_1	2399
## 286	1605.11	1794.9	1784.4	2420.2	A_1	2419
## 287	1609.61	1805.4	1787.6	2407.5	A_1	2407
## 288	1624.94	1820.3	1798.0	2392.8	A_1	2391
## 289	1618.07	1819.6	1793.8	2377.6	A_1	2377
## 290	1611.96	1809.6	1777.3	2350.1	A_1	2349
## 291	1578.95	1799.9	1755.2	2325.7	A_1	2325
## 292	1561.39	1800.3	1737.8	2309.6	A_1	2309
## 293	1547.87	1793.3	1730.1	2303.1	A_1	2303
## 294	1548.63	1784.8	1722.4	2318.0	A_1	2317
## 295	1560.16	1791.7	1753.5	2356.8	A_1	2355
## 296	1554.76	1800.2	1757.3	2376.1	A_1	2375
## 297	1531.87	1788.6	1736.7	2354.7	A_1	2353
## 298	1526.14	1775.7	1734.2	2363.5	A_1	2363
## 299	1509.03	1753.5	1724.2	2359.4	A_1	2359
## 300	1530.03	1768.2	1744.2	2365.7	A_1	2365
## 301	1484.97	1727.9	1689.7	2311.1	A_1	2311
## 302	1464.03	1709.6	1667.7	2281.0	A_1	2281
## 303	1475.11	1704.6	1667.8	2285.0	A_1	2285
## 304	1516.12	1740.6	1687.6	2311.6	A_1	2311
## 305	1519.69	1745.7	1687.5	2312.6	A_1	2311
## 306	1529.97	1751.7	1684.9	2312.6	A_1	2311
## 307	1516.44	1747.3	1674.2	2298.4	A_1	2297
## 308	1515.53	1757.8	1711.4	2313.0	A_1	2313
## 309	1543.89	1774.2	1780.5	2381.9	A_1	2381
## 310	1534.72	1774.4	1779.0	2362.2	A_1	2361
## 311	1538.66	1788.3	1779.3	2372.2	A_1	2371
## 312	1536.71	1788.0	1763.7	2337.7	A_1	2337
## 313	1523.83	1779.1	1756.8	2327.5	A_1	2327
## 314	1527.10	1792.8	1774.2	2340.6	A_1	2339
## 315	1530.20	1812.0	1802.0	2370.9	A_1	2369
## 316	1601.50	1872.1	1873.6	2422.1	A_1	2421
## 317	1580.29	1851.4	1836.2	2370.0	A_1	2369
## 318	1595.09	1873.4	1859.8	2378.3	A_1	2377
## 319	1579.47	1889.6	1852.7	2483.9	A_1	2483
## 320	1600.59	1897.5	1882.9	2567.0	A_1	2567
## 321	1566.00	1888.8	1826.1	2560.1	A_1	2559
## 322	1557.01	1900.4	1832.8	2586.0	A_1	2585
## 323	1542.74	1913.4	1828.9	2580.5	A_1	2579
## 324	1536.30	1909.9	1829.5	2621.2	A_1	2621
## 325	1510.66	1910.8	1843.5	2601.0	A_1	2601
## 326	1481.03	1879.2	1770.3	2560.0	A_1	2559
## 327	1483.83	1880.2	1731.9	2565.5	A_1	2565
## 328	1470.09	1878.3	1736.7	2553.0	A_1	2553
## 329	1484.78	1885.2	1724.0	2572.3	A_1	2571
## 330	1475.41	1867.6	1683.3	2549.7	A_1	2549
## 331	1402.34	1788.0	1611.0	2446.3	A_1	2445
## 332	1421.49	1820.5	1612.5	2488.4	A_1	2487

## 333	1434.61	1858.2	1654.2	2517.1	A_1	2517
## 334	1446.32	1870.3	1673.9	2538.8	A_1	2537
## 335	1437.65	1878.4	1657.3	2541.2	A_1	2541
## 336	1441.57	1881.5	1655.1	2557.2	A_1	2557
## 337	1471.64	1893.2	1685.1	2584.7	A_1	2583
## 338	1453.95	1889.3	1667.9	2574.7	A_1	2573
## 339	1453.79	1877.3	1650.0	2546.6	A_1	2545
## 340	1458.02	1884.0	1664.2	2563.9	A_1	2563
## 341	1479.59	1904.7	1679.1	2562.2	A_1	2561
## 342	1504.89	1922.7	1731.3	2617.0	A_1	2617
## 343	1496.54	1908.5	1722.2	2645.7	A_1	2645
## 344	1511.00	1911.4	1730.7	2658.1	A_1	2657
## 345	1528.86	1921.1	1766.4	2669.7	A_1	2669
## 346	1534.02	1930.8	1770.7	2661.6	A_1	2661
## 347	1536.60	1927.8	1774.5	2669.8	A_1	2669
## 348	1508.19	1908.3	1749.9	2650.4	A_1	2649
## 349	1493.54	1905.9	1730.9	2642.3	A_1	2641
## 350	1489.68	1911.1	1742.4	2658.3	A_1	2657
## 351	1482.44	1921.6	1742.4	2687.8	A_1	2687
## 352	1483.34	1933.6	1786.9	2705.6	A_1	2705
## 353	1470.57	1942.0	1804.1	2691.7	A_1	2691
## 354	1484.84	1951.5	1804.7	2711.1	A_1	2711
## 355	1487.71	1955.7	1793.6	2702.7	A_1	2701
## 356	1508.63	1957.4	1786.7	2695.4	A_1	2695
## 357	1515.27	1962.3	1798.5	2714.6	A_1	2713
## 358	1509.84	1946.1	1798.5	2696.8	A_1	2695
## 359	1542.28	1950.2	1821.5	2726.4	A_1	2725
## 360	1541.79	1929.7	1796.8	2697.5	A_1	2697
## 361	1542.48	1913.4	1772.7	2679.6	A_1	2679
## 362	1550.27	1889.5	1764.4	2679.2	A_1	2679
## 363	1550.27	1882.8	1759.2	2704.0	A_1	2703
## 364	1543.37	1895.4	1722.3	2706.2	A_1	2705
## 365	1547.84	1897.9	1724.2	2732.4	A_1	2731
## 366	1523.62	1891.5	1674.8	2722.9	A_1	2721
## 367	1526.68	1880.1	1720.6	2727.1	A_1	2727
## 368	1513.42	1887.0	1721.0	2709.6	A_1	2709
## 369	1523.02	1891.4	1739.7	2741.8	A_1	2741
## 370	1529.69	1914.6	1749.7	2760.1	A_1	2759
## 371	1545.12	1931.2	1771.4	2778.8	A_1	2777
## 372	1546.82	1929.2	1792.3	2792.0	A_1	2791
## 373	1528.12	1924.3	1783.3	2764.1	A_1	2763
## 374	1530.65	1927.0	1799.4	2771.0	A_1	2771
## 375	1526.25	1935.0	1781.7	2759.4	A_1	2759
## 376	1519.48	1955.4	1788.6	2754.5	A_1	2753
## 377	1506.65	1962.2	1765.9	2769.8	A_1	2769
## 378	1504.30	1980.7	1791.2	2750.7	A_1	2749
## 379	1480.65	1987.7	1769.5	2726.5	A_1	2725
## 380	1476.70	1993.7	1758.7	2716.2	A_1	2715
## 381	1478.07	2015.7	1738.3	2721.8	A_1	2721
## 382	1479.62	2005.0	1744.8	2717.9	A_1	2717
## 383	1477.55	2023.9	1736.7	2732.8	A_1	2731
## 384	1472.59	2028.5	1735.2	2740.3	A_1	2739
## 385	1495.60	2044.9	1760.1	2789.7	A_1	2789
## 386	1517.45	2045.8	1786.3	2807.7	A_1	2807

## 387	1520.93	2057.3	1824.4	2842.0	A_1	2841
## 388	1527.06	2061.7	1821.1	2827.4	A_1	2827
## 389	1527.06	2061.7	1854.6	2827.5	A_1	2827
## 390	1527.06	2061.7	1854.6	2827.5	A_1	2827
## 391	1547.51	2092.3	1857.5	2827.5	A_1	2827
## 392	1545.82	2090.1	1870.3	2847.8	A_1	2847
## 393	1538.43	2105.4	1858.8	2832.5	A_1	2831
## 394	1538.43	2105.4	1857.8	2846.5	A_1	2845
## 395	1538.43	2105.4	1857.8	2846.5	A_1	2845
## 396	1538.04	2117.7	1843.1	2861.5	A_1	2861
## 397	1554.03	2128.2	1850.8	2833.6	A_1	2833
## 398	1551.17	2124.7	1859.6	2826.0	A_1	2825
## 399	1538.37	2079.9	1844.5	2816.5	A_1	2815
## 400	1529.10	2074.9	1852.6	2799.2	A_1	2799
## 401	1522.26	2046.4	1814.6	2773.4	A_1	2773
## 402	1533.79	2079.8	1796.8	2757.9	A_1	2757
## 403	1510.18	2076.7	1782.5	2745.3	A_1	2745
## 404	1526.91	2104.5	1803.5	2759.2	A_1	2759
## 405	1555.52	2101.3	1827.1	2765.1	A_1	2765
## 406	1581.49	2084.0	1837.5	2763.1	A_1	2763
## 407	1572.61	2063.9	1837.7	2737.6	A_1	2737
## 408	1572.69	2062.7	1818.8	2748.7	A_1	2747
## 409	1580.64	2089.9	1812.2	2773.3	A_1	2773
## 410	1593.35	2102.9	1820.4	2781.2	A_1	2781
## 411	1571.28	2086.0	1779.9	2771.9	A_1	2771
## 412	1575.59	2085.9	1792.6	2835.7	A_1	2835
## 413	1561.78	2064.1	1777.4	2832.5	A_1	2831
## 414	1572.68	2072.7	1780.6	2816.9	A_1	2815
## 415	1574.04	2091.0	1772.2	2807.2	A_1	2807
## 416	1590.33	2120.2	1785.9	2851.6	A_1	2851
## 417	1584.14	2120.4	1787.3	2834.4	A_1	2833
## 418	1605.91	2117.6	1824.1	2873.8	A_1	2873
## 419	1615.98	2123.7	1854.4	2865.9	A_1	2865
## 420	1643.83	2132.2	1908.2	2862.9	A_1	2861
## 421	1646.85	2137.0	1904.7	2870.0	A_1	2869
## 422	1639.12	2134.8	1894.1	2831.3	A_1	2831
## 423	1642.80	2121.4	1893.3	2816.4	A_1	2815
## 424	1659.07	2127.5	1905.6	2834.3	A_1	2833
## 425	1649.64	2135.5	1912.0	2843.0	A_1	2843
## 426	1674.93	2144.8	1899.5	2845.9	A_1	2845
## 427	1651.60	2131.0	1878.2	2812.2	A_1	2811
## 428	1656.35	2112.9	1905.0	2814.0	A_1	2813
## 429	1670.90	2131.3	1926.5	2837.7	A_1	2837
## 430	1683.30	2117.8	1937.2	2840.0	A_1	2839
## 431	1679.41	2096.1	1959.2	2838.3	A_1	2837
## 432	1658.09	2051.5	1944.1	2818.0	A_1	2817
## 433	1652.92	2065.7	1953.4	2817.0	A_1	2817
## 434	1661.96	2061.0	1944.6	2828.7	A_1	2827
## 435	1680.02	2100.6	1983.7	2868.0	A_1	2867
## 436	1691.37	2120.5	1998.8	2882.6	A_1	2881
## 437	1701.46	2130.9	2001.5	2882.3	A_1	2881
## 438	1690.48	2142.4	1995.2	2918.6	A_1	2917
## 439	1685.46	2139.5	1986.8	2904.8	A_1	2903
## 440	1686.15	2134.6	1995.1	2916.6	A_1	2915

## 441	1702.27	2132.2	2004.3	2957.3	A_1	2957
## 442	1711.91	2150.1	2009.7	2949.9	A_1	2949
## 443	1714.48	2157.0	1992.4	2956.7	A_1	2955
## 444	1708.65	2165.0	1988.9	2953.4	A_1	2953
## 445	1688.74	2127.2	1965.2	2915.9	A_1	2915
## 446	1705.05	2157.2	1986.0	2922.4	A_1	2921
## 447	1700.28	2150.8	1975.3	2919.3	A_1	2919
## 448	1689.71	2139.1	1967.3	2889.9	A_1	2889
## 449	1696.38	2154.7	1963.5	2883.3	A_1	2883
## 450	1686.57	2182.4	1962.7	2900.1	A_1	2899
## 451	1656.59	2161.3	1939.3	2863.9	A_1	2863
## 452	1653.20	2166.3	1952.2	2861.1	A_1	2861
## 453	1666.72	2146.8	1954.6	2860.6	A_1	2859
## 454	1663.27	2135.7	2001.4	2852.8	A_1	2851
## 455	1667.26	2160.9	2025.8	2852.9	A_1	2851
## 456	1675.18	2175.7	2033.9	2846.5	A_1	2845
## 457	1686.64	2188.9	2035.9	2861.0	A_1	2861
## 458	1676.84	2190.3	2031.4	2878.7	A_1	2877
## 459	1670.04	2188.4	2005.9	2878.4	A_1	2877
## 460	1657.06	2190.3	1990.8	2869.9	A_1	2869
## 461	1658.36	2184.0	1974.7	2838.8	A_1	2837
## 462	1667.64	2196.0	1995.3	2832.2	A_1	2831
## 463	1654.60	2184.9	1984.0	2822.1	A_1	2821
## 464	1658.13	2188.3	1986.9	2821.8	A_1	2821
## 465	1658.13	2188.3	1986.9	2821.8	A_1	2821
## 466	1658.13	2188.3	1986.9	2821.8	A_1	2821
## 467	1671.54	2181.7	2018.1	2846.8	A_1	2845
## 468	1674.95	2165.7	2015.4	2842.1	A_1	2841
## 469	1674.67	2160.5	1988.6	2839.7	A_1	2839
## 470	1678.65	2162.9	1986.7	2824.4	A_1	2823
## 471	1687.14	2166.3	1968.9	2830.0	A_1	2829
## 472	1680.06	2170.8	1949.3	2856.1	A_1	2855
## 473	1666.49	2178.1	1931.9	2869.6	A_1	2869
## 474	1680.01	2177.3	1944.5	2881.1	A_1	2881
## 475	1656.03	2162.3	1916.6	2843.8	A_1	2843
## 476	1643.53	2140.4	1911.6	2822.3	A_1	2821
## 477	1636.59	2124.7	1927.4	2832.7	A_1	2831
## 478	1630.88	2138.2	1942.5	2797.3	A_1	2797
## 479	1618.60	2123.2	1920.6	2786.8	A_1	2785
## 480	1626.83	2129.7	1939.0	2813.1	A_1	2813
## 481	1632.00	2152.8	1937.0	2813.1	A_1	2813
## 482	1619.92	2160.0	1923.6	2812.6	A_1	2811
## 483	1628.88	2165.8	1926.3	2796.5	A_1	2795
## 484	1617.74	2165.4	1920.5	2786.3	A_1	2785
## 485	1607.70	2162.6	1878.6	2793.7	A_1	2793
## 486	1616.45	2179.1	1877.2	2829.7	A_1	2829
## 487	1613.46	2191.1	1854.5	2836.1	A_1	2835
## 488	1632.99	2191.5	1872.7	2860.8	A_1	2859
## 489	1636.02	2183.3	1879.9	2849.3	A_1	2849
## 490	1632.35	2186.3	1851.7	2847.0	A_1	2847
## 491	1630.37	2205.2	1835.7	2858.1	A_1	2857
## 492	1619.26	2227.2	1846.4	2847.3	A_1	2847
## 493	1606.64	2227.0	1836.8	2819.7	A_1	2819
## 494	1606.64	2227.0	1836.8	2816.8	A_1	2815

## 495	1613.98	2232.9	1836.8	2812.2	A_1	2811
## 496	1608.58	2237.4	1861.4	2825.6	A_1	2825
## 497	1623.05	2243.5	1891.1	2837.7	A_1	2837
## 498	1617.18	2247.5	1890.4	2846.9	A_1	2845
## 499	1633.18	2267.1	1904.6	2855.3	A_1	2855
## 500	1627.21	2271.6	1888.7	2840.7	A_1	2839
## 501	1627.21	2271.6	1888.7	2840.7	A_1	2839
## 502	1625.59	2253.8	1872.8	2849.2	A_1	2849
## 503	1628.53	2259.8	1875.8	2863.0	A_1	2863
## 504	1630.56	2269.0	1867.9	2852.8	A_1	2851
## 505	1638.47	2284.2	1859.7	2829.9	A_1	2829
## 506	1660.88	2309.7	1887.9	2844.8	A_1	2843
## 507	1662.28	2294.5	1893.7	2844.4	A_1	2843
## 508	1679.69	2312.5	1915.2	2866.9	A_1	2865
## 509	1679.69	2309.2	1911.2	2860.0	A_1	2859
## 510	1685.85	2308.6	1920.4	2861.8	A_1	2861
## 511	1686.44	2293.8	1916.8	2885.5	A_1	2885
## 512	1684.57	2274.0	1897.9	2870.0	A_1	2869
## 513	1689.93	2294.6	1918.8	2883.0	A_1	2883
## 514	1681.47	2323.4	1900.3	2875.7	A_1	2875
## 515	1687.14	2318.0	1910.3	2879.4	A_1	2879
## 516	1697.26	2329.5	1929.2	2903.4	A_1	2903
## 517	1698.33	2335.0	1935.3	2907.6	A_1	2907
## 518	1690.96	2323.9	1942.4	2900.7	A_1	2899
## 519	1692.16	2335.8	1963.3	2894.7	A_1	2893
## 520	1699.52	2347.3	1960.8	2887.5	A_1	2887
## 521	1712.33	2369.8	1991.0	2897.0	A_1	2897
## 522	1703.05	2371.9	1977.5	2886.0	A_1	2885
## 523	1700.93	2376.2	1971.9	2900.0	A_1	2899
## 524	1698.36	2375.5	1960.2	2888.8	A_1	2887
## 525	1697.39	2368.8	1941.2	2857.7	A_1	2857
## 526	1694.83	2364.4	1925.4	2838.5	A_1	2837
## 527	1705.66	2390.9	1935.1	2848.1	A_1	2847
## 528	1739.48	2372.0	1943.7	2848.3	A_1	2847
## 529	1798.63	2397.1	1980.4	2845.9	A_3	2845
## 530	1798.36	2403.0	1985.7	2843.2	A_3	2843
## 531	1808.74	2408.7	1992.2	2830.9	A_3	2829
## 532	1806.52	2418.1	1991.2	2837.1	A_3	2837
## 533	1815.63	2410.5	1991.2	2832.3	A_3	2831
## 534	1807.12	2399.9	1963.1	2831.7	A_3	2831
## 535	1829.36	2396.4	1974.9	2833.0	A_3	2833
## 536	1835.09	2381.8	1981.7	2842.9	A_3	2841
## 537	1826.45	2324.5	1968.4	2823.9	A_3	2823
## 538	1821.28	2313.7	1947.5	2814.1	A_3	2813
## 539	1828.53	2340.2	1965.7	2820.1	A_3	2819
## 540	1830.61	2350.5	1995.0	2827.7	A_3	2827
## 541	1859.49	2388.7	2006.2	2844.2	A_3	2843
## 542	1846.02	2398.0	1998.1	2879.4	A_3	2879
## 543	1832.20	2408.7	1989.5	2884.2	A_3	2883
## 544	1823.40	2401.5	2036.0	2917.6	A_3	2917
## 545	1823.07	2400.9	2085.9	2926.5	A_3	2925
## 546	1818.10	2400.7	2129.0	2941.7	A_3	2941
## 547	1857.36	2429.8	2110.6	2945.0	A_3	2945
## 548	1861.22	2431.5	2101.4	2941.3	A_3	2941

## 549	1870.80	2424.9	2115.3	2943.4	A_3	2943
## 550	1878.94	2423.3	2149.8	2969.8	A_3	2969
## 551	1870.24	2420.5	2138.5	2986.4	A_3	2985
## 552	1864.51	2384.5	2139.8	2971.6	A_3	2971
## 553	1894.56	2411.1	2167.4	3006.1	A_3	3005
## 554	1908.69	2449.5	2161.9	3009.1	A_3	3009
## 555	1917.69	2461.0	2148.0	3010.1	A_3	3009
## 556	1903.44	2478.7	2148.0	3008.3	A_3	3007
## 557	1918.75	2464.9	2136.3	3025.0	A_3	3025
## 558	1930.29	2488.0	2160.8	3073.6	A_3	3073
## 559	1937.77	2480.6	2139.2	3065.5	A_3	3065
## 560	1909.53	2474.5	2128.2	3057.6	A_3	3057
## 561	1893.48	2467.3	2111.4	3042.0	A_3	3041
## 562	1907.65	2472.4	2123.4	3049.3	A_3	3049
## 563	1915.59	2499.7	2159.3	3079.2	A_3	3079
## 564	1890.58	2475.2	2173.6	3079.2	A_3	3079
## 565	1909.54	2478.6	2183.9	3100.6	A_3	3099
## 566	1929.56	2481.0	2205.7	3100.6	A_3	3099
## 567	1931.88	2488.5	2216.5	3100.0	A_3	3099
## 568	1923.67	2470.4	2191.9	3085.1	A_3	3085
## 569	1928.63	2463.8	2185.1	3072.6	A_3	3071
## 570	1920.43	2438.8	2156.1	3057.3	A_3	3057
## 571	1911.15	2392.5	2158.0	3055.4	A_3	3055
## 572	1878.77	2403.4	2137.3	3038.6	A_3	3037
## 573	1870.32	2397.9	2129.4	3035.4	A_3	3035
## 574	1870.46	2382.1	2108.8	3031.2	A_3	3031
## 575	1868.28	2363.6	2108.4	3037.0	A_3	3037
## 576	1874.38	2365.6	2119.1	3024.8	A_3	3023
## 577	1869.25	2388.3	2134.1	3028.0	A_3	3027
## 578	1852.81	2361.8	2078.5	2989.4	A_3	2989
## 579	1862.62	2374.4	2075.6	3003.9	A_3	3003
## 580	1884.67	2385.2	2099.5	3005.5	A_3	3005
## 581	1922.69	2418.4	2107.4	3004.5	A_3	3003
## 582	1922.05	2431.8	2094.4	3001.6	A_3	3001
## 583	1899.54	2414.6	2080.0	3007.5	A_3	3007
## 584	1902.14	2425.8	2057.5	3001.3	A_3	3001
## 585	1890.18	2445.9	2092.6	3005.2	A_3	3005
## 586	1914.40	2482.4	2108.6	3026.3	A_3	3025
## 587	1915.61	2478.3	2120.0	3036.9	A_3	3035
## 588	1908.97	2485.4	2126.8	3030.1	A_3	3029
## 589	1910.23	2473.1	2114.6	3037.5	A_3	3037
## 590	1920.46	2481.6	2116.7	3039.3	A_3	3039
## 591	1934.99	2490.3	2128.7	3067.7	A_3	3067
## 592	1973.45	2521.3	2158.8	3085.2	A_3	3085
## 593	1994.09	2534.8	2164.5	3100.8	A_3	3099
## 594	1991.95	2528.0	2147.4	3092.4	A_3	3091
## 595	2015.71	2533.6	2156.4	3108.6	A_3	3107
## 596	2009.28	2548.5	2138.7	3102.2	A_3	3101
## 597	2004.11	2552.5	2126.9	3094.7	A_3	3093
## 598	1999.60	2571.0	2127.3	3080.9	A_3	3079
## 599	1995.35	2586.4	2113.9	3086.3	A_3	3085
## 600	2023.26	2612.6	2139.3	3120.8	A_3	3119
## 601	2032.25	2663.6	2145.0	3137.6	A_3	3137
## 602	2036.93	2660.7	2147.3	3129.6	A_3	3129

## 603	2029.87	2668.4	2149.7	3156.3	A_3	3155
## 604	2048.05	2690.1	2199.7	3188.3	A_3	3187
## 605	2083.62	2701.4	2231.9	3199.0	A_3	3199
## 606	2061.18	2685.0	2227.7	3184.8	A_3	3183
## 607	2048.75	2700.2	2210.4	3165.3	A_3	3165
## 608	2040.97	2715.9	2192.0	3154.3	A_3	3153
## 609	2053.66	2720.9	2196.0	3163.0	A_3	3163
## 610	2064.98	2723.2	2182.0	3171.0	A_3	3171
## 611	2068.51	2727.1	2182.0	3164.4	A_3	3163
## 612	2086.40	2742.9	2169.7	3164.1	A_3	3163
## 613	2086.22	2749.9	2171.2	3162.3	A_3	3161
## 614	2057.10	2706.6	2136.0	3149.0	A_3	3149
## 615	2013.65	2654.2	2081.0	3085.6	A_3	3085
## 616	2007.50	2675.3	2084.8	3077.6	A_3	3077
## 617	2040.74	2727.1	2112.9	3096.0	A_3	3095
## 618	2020.11	2742.1	2087.3	3098.5	A_3	3097
## 619	2021.81	2720.1	2087.3	3099.7	A_3	3099
## 620	2023.06	2721.1	2096.9	3099.1	A_3	3099
## 621	2047.20	2717.4	2117.9	3093.3	A_3	3093
## 622	2070.17	2712.3	2115.9	3097.5	A_3	3097
## 623	2070.17	2711.1	2148.0	3120.0	A_3	3119
## 624	2075.99	2727.1	2149.7	3125.5	A_3	3125
## 625	2072.13	2733.9	2145.2	3108.0	A_3	3107
## 626	2020.36	2696.5	2082.6	3070.6	A_3	3069
## 627	2027.99	2702.1	2071.5	3069.3	A_3	3069
## 628	2036.45	2717.8	2070.6	3067.2	A_3	3067
## 629	2057.80	2726.8	2118.4	3093.1	A_3	3093
## 630	2045.25	2741.9	2120.6	3111.4	A_3	3111
## 631	2052.09	2738.2	2119.3	3135.8	A_3	3135
## 632	2052.92	2738.5	2110.1	3166.9	A_3	3165
## 633	2089.77	2774.3	2154.0	3233.2	A_3	3233
## 634	2099.76	2787.2	2160.5	3223.9	A_3	3223
## 635	2128.30	2819.0	2188.4	3234.2	A_3	3233
## 636	2118.01	2836.4	2186.7	3237.3	A_3	3237
## 637	2127.39	2834.8	2176.1	3237.3	A_3	3237
## 638	2165.95	2843.8	2205.3	3277.4	A_3	3277
## 639	2166.58	2858.4	2211.4	3271.6	A_3	3271
## 640	2165.50	2861.2	2198.1	3261.3	A_3	3261
## 641	2163.83	2876.9	2196.3	3254.6	A_3	3255
## 642	2128.07	2867.8	2156.5	3248.4	A_3	3249
## 643	2129.52	2850.6	2162.6	3278.8	A_3	3279
## 644	2144.03	2867.7	2160.3	3311.2	A_3	3311
## 645	2154.76	2889.5	2196.4	3337.1	A_3	3337
## 646	2188.18	2909.0	2223.5	3364.9	A_3	3365
## 647	2183.78	2918.0	2215.9	3342.4	A_3	3343
## 648	2209.17	2942.4	2225.8	3355.7	A_3	3355
## 649	2227.63	2967.4	2243.0	3396.5	A_3	3397
## 650	2227.63	2967.4	2251.5	3412.3	A_3	3413
## 651	2266.70	2972.6	2276.6	3412.3	A_3	3413
## 652	2236.91	2930.9	2264.6	3412.3	A_3	3413
## 653	2229.62	2934.2	2281.9	3462.0	A_3	3463
## 654	2255.29	2957.6	2281.2	3428.8	A_3	3429
## 655	2255.29	2957.6	2268.2	3418.4	A_3	3419
## 656	2274.62	2996.2	2290.6	3418.4	A_3	3419

## 657	2249.85	2999.2	2274.3	3408.5	A_3	3409
## 658	2233.61	3009.4	2249.6	3379.2	A_3	3379
## 659	2220.63	3021.9	2275.1	3403.0	A_3	3403
## 660	2224.95	3042.9	2307.6	3446.0	A_3	3447
## 661	2225.00	3015.9	2317.3	3440.6	A_3	3441
## 662	2228.10	3026.6	2331.3	3413.8	A_3	3413
## 663	2182.06	2999.0	2281.9	3372.0	A_3	3373
## 664	2142.37	2949.9	2252.2	3360.0	A_3	3361
## 665	2151.05	2990.6	2262.3	3400.6	A_3	3401
## 666	2115.56	3011.1	2234.8	3407.8	A_3	3407
## 667	2130.35	3037.5	2247.4	3437.0	A_3	3437
## 668	2132.52	3049.4	2274.7	3475.1	A_3	3475
## 669	2098.36	3045.9	2257.8	3470.0	A_3	3471
## 670	2073.94	3039.3	2244.0	3484.2	A_3	3485
## 671	2107.29	3041.3	2274.5	3481.4	A_3	3481
## 672	2090.78	3066.5	2278.3	3444.0	A_3	3445
## 673	2128.66	3091.3	2282.4	3436.1	A_3	3437
## 674	2123.31	3095.2	2281.0	3427.3	A_3	3427
## 675	2156.61	3140.7	2313.2	3447.4	A_3	3447
## 676	2192.60	3178.4	2334.4	3491.8	A_3	3491
## 677	2181.88	3148.7	2331.3	3481.5	A_3	3481
## 678	2184.05	3169.1	2355.9	3520.3	A_3	3521
## 679	2137.08	3151.9	2322.0	3491.5	A_3	3491
## 680	2143.90	3166.6	2329.2	3475.4	A_3	3475
## 681	2095.11	3089.8	2287.1	3419.1	A_3	3419
## 682	2099.57	3097.2	2299.9	3440.2	A_3	3441
## 683	2116.43	3054.2	2302.1	3429.1	A_3	3429
## 684	2119.69	3012.2	2296.8	3407.0	A_3	3407
## 685	2108.77	3012.2	2275.1	3378.9	A_3	3379
## 686	2101.93	2947.1	2281.6	3363.5	A_3	3363
## 687	2130.71	2947.1	2258.0	3393.2	A_3	3393
## 688	2135.25	2947.1	2258.0	3417.7	A_3	3417
## 689	2162.29	3033.4	2281.2	3425.3	A_3	3425
## 690	2133.85	3025.9	2251.8	3382.6	A_3	3383
## 691	2108.06	2997.6	2215.2	3350.3	A_3	3351
## 692	2113.64	2982.8	2226.7	3333.7	A_3	3333
## 693	2140.25	3027.5	2252.0	3341.9	A_3	3341
## 694	2082.90	2958.4	2208.3	3267.5	A_3	3267
## 695	2075.33	2929.3	2199.0	3281.2	A_3	3281
## 696	2103.24	2888.2	2238.1	3328.1	A_3	3329
## 697	2057.20	2847.4	2183.1	3270.6	A_3	3271
## 698	2018.69	2768.5	2144.7	3248.1	A_3	3249
## 699	2044.45	2803.4	2144.7	3246.5	A_3	3245
## 700	2076.76	2865.2	2178.7	3278.0	A_3	3279
## 701	2132.12	2918.7	2219.9	3305.9	A_3	3305
## 702	2125.47	2902.4	2216.4	3264.4	A_3	3265
## 703	2118.01	2858.5	2199.7	3246.7	A_3	3245
## 704	2124.51	2861.2	2184.6	3233.9	A_3	3233
## 705	2101.89	2831.6	2175.0	3191.9	A_3	3191
## 706	2169.40	2870.5	2215.0	3233.4	A_3	3233
## 707	2178.91	2906.9	2258.5	3267.4	A_3	3267
## 708	2168.11	2887.1	2242.7	3242.9	A_3	3241
## 709	2160.45	2887.7	2247.8	3255.7	A_3	3255
## 710	2140.39	2843.5	2221.3	3218.1	A_3	3217

## 711	2130.55	2804.3	2202.7	3198.0	A_3	3197
## 712	2141.70	2824.7	2200.7	3201.5	A_3	3201
## 713	2162.96	2857.0	2200.2	3155.3	A_3	3155
## 714	2144.36	2850.8	2152.6	3121.7	A_3	3121
## 715	2144.00	2831.8	2136.6	3129.0	A_3	3129
## 716	2167.72	2862.4	2144.5	3129.5	A_3	3129
## 717	2162.82	2827.4	2123.4	3123.4	A_3	3123
## 718	2151.84	2814.5	2083.9	3092.4	A_3	3091
## 719	2142.88	2794.8	2081.9	3086.4	A_3	3085
## 720	2142.88	2794.8	2081.9	3086.4	A_3	3085
## 721	2142.88	2794.8	2081.9	3086.4	A_3	3085
## 722	2177.09	2807.3	2100.3	3116.2	A_3	3115
## 723	2184.89	2830.2	2128.2	3131.5	A_3	3131
## 724	2202.57	2860.9	2119.6	3129.0	A_3	3129
## 725	2203.18	2873.4	2114.8	3120.8	A_3	3119
## 726	2224.85	2884.0	2145.3	3149.4	A_3	3149
## 727	2211.19	2887.8	2148.6	3159.1	A_3	3159
## 728	2215.19	2877.7	2152.4	3145.8	A_3	3145
## 729	2198.24	2843.7	2139.1	3131.7	A_3	3131
## 730	2211.92	2872.9	2159.6	3168.3	A_3	3167
## 731	2218.37	2869.1	2160.1	3138.2	A_3	3137
## 732	2193.89	2837.1	2136.0	3128.0	A_3	3127
## 733	2194.09	2818.7	2102.7	3098.3	A_3	3097
## 734	2194.41	2781.6	2092.0	3101.2	A_3	3101
## 735	2218.13	2787.9	2135.2	3133.7	A_3	3133
## 736	2208.68	2763.5	2116.3	3106.1	A_3	3105
## 737	2241.36	2776.2	2130.9	3125.3	A_3	3125
## 738	2256.98	2791.3	2147.3	3150.0	A_3	3149
## 739	2237.82	2768.9	2150.3	3129.9	A_3	3129
## 740	2252.51	2736.3	2166.0	3125.3	A_3	3125
## 741	2266.72	2765.2	2186.2	3125.3	A_3	3125
## 742	2261.71	2755.9	2179.0	3100.0	A_3	3099
## 743	2241.85	2705.6	2141.6	3070.5	A_3	3069
## 744	2249.78	2682.2	2162.6	3106.0	A_3	3105
## 745	2233.55	2641.4	2158.2	3106.0	A_3	3105
## 746	2218.77	2569.5	2139.4	3097.8	A_3	3097
## 747	2241.34	2629.0	2165.0	3136.3	A_3	3135
## 748	2248.02	2633.0	2176.7	3130.5	A_3	3129
## 749	2248.02	2633.0	2176.7	3137.8	A_3	3137
## 750	2257.33	2678.7	2187.0	3119.2	A_3	3119
## 751	2272.96	2709.0	2187.8	3115.6	A_3	3115
## 752	2268.11	2727.1	2195.2	3123.5	A_3	3123
## 753	2254.21	2740.6	2184.0	3116.5	A_3	3115
## 754	2245.79	2725.8	2165.4	3122.8	A_3	3121
## 755	2238.97	2732.7	2155.4	3127.3	A_3	3127
## 756	2238.97	2732.7	2155.4	3108.4	A_3	3107
## 757	2188.01	2692.0	2133.3	3089.1	A_3	3089
## 758	2137.56	2673.1	2084.4	3020.7	A_3	3019
## 759	2146.00	2689.2	2091.9	3019.7	A_3	3019
## 760	2112.80	2711.9	2050.7	2966.4	A_3	2965
## 761	2129.76	2742.9	2052.5	2966.4	A_3	2965
## 762	2137.34	2722.9	2029.9	2970.5	A_3	2969
## 763	2113.62	2731.5	1979.7	2931.9	A_3	2931
## 764	2120.23	2725.9	2007.4	2980.8	A_3	2979

## 765	2158.88	2728.4	2041.7	2997.8	A_3	2997
## 766	2163.59	2781.4	2037.2	3009.4	A_3	3009
## 767	2131.80	2778.1	2023.7	3004.8	A_3	3003
## 768	2143.93	2801.1	2046.8	3038.2	A_3	3037
## 769	2131.14	2777.2	2028.4	3028.9	A_3	3027
## 770	2143.58	2763.8	2020.7	3055.9	A_3	3055
## 771	2084.42	2744.2	1977.7	3016.3	A_3	3015
## 772	2088.44	2740.0	1992.0	3039.6	A_3	3039
## 773	2073.21	2701.8	1966.4	3045.8	A_3	3045
## 774	2047.29	2666.6	1942.8	3030.1	A_3	3029
## 775	2031.80	2627.6	1936.0	3022.9	A_3	3021
## 776	1986.42	2545.0	1903.0	2971.1	A_3	2971
## 777	1957.08	2544.2	1890.8	2940.2	A_3	2939
## 778	2004.93	2595.7	1917.0	2960.4	A_3	2959
## 779	2032.52	2626.7	1939.0	2942.4	A_3	2941
## 780	2005.07	2577.2	1907.0	2876.6	A_3	2875
## 781	2000.48	2561.4	1911.6	2899.9	A_3	2899
## 782	2022.25	2604.4	1925.8	2909.0	A_3	2909
## 783	2042.45	2631.2	1936.3	2946.3	A_3	2945
## 784	2020.85	2608.8	1892.0	2919.2	A_3	2919
## 785	2040.69	2588.9	1872.9	2936.4	A_3	2935
## 786	2061.70	2636.4	1866.2	2970.4	A_3	2969
## 787	2034.64	2609.7	1878.7	2965.0	A_3	2965
## 788	2031.33	2598.9	1889.0	2946.7	A_3	2945
## 789	2049.10	2590.5	1920.8	2964.4	A_3	2963
## 790	2047.83	2560.3	1920.8	2962.4	A_3	2961
## 791	2069.46	2562.5	1949.8	2983.8	A_3	2983
## 792	2048.57	2508.0	1942.1	2963.9	A_3	2963
## 793	2051.25	2474.5	1974.6	3005.3	A_3	3005
## 794	2070.71	2528.3	1974.6	3050.4	A_3	3049
## 795	2103.54	2514.9	1974.6	3074.8	A_3	3073
## 796	2116.96	2494.7	2025.1	3082.0	A_3	3081
## 797	2129.86	2521.6	2052.3	3091.3	A_3	3091
## 798	2120.97	2562.3	2043.7	3077.2	A_3	3077
## 799	2126.75	2579.4	2053.8	3095.1	A_3	3095
## 800	2148.23	2599.2	2041.4	3114.7	A_3	3113
## 801	2144.21	2601.2	2059.8	3106.1	A_3	3105
## 802	2163.32	2604.4	2076.8	3117.2	A_3	3117
## 803	2135.93	2544.9	2055.7	3082.3	A_3	3081
## 804	2134.12	2559.3	2053.4	3095.9	A_3	3095
## 805	2152.19	2579.5	2075.0	3082.6	A_3	3081
## 806	2161.50	2579.5	2069.6	3097.4	A_3	3097
## 807	2193.63	2629.7	2117.2	3157.5	A_3	3157
## 808	2190.83	2620.7	2115.0	3160.4	A_3	3159
## 809	2176.66	2615.3	2096.5	3150.5	A_3	3149
## 810	2188.81	2600.8	2107.1	3167.5	A_3	3167
## 811	2182.32	2617.5	2106.3	3171.9	A_3	3171
## 812	2160.56	2585.5	2074.5	3168.6	A_3	3167
## 813	2166.51	2591.4	2064.2	3167.0	A_3	3167
## 814	2156.31	2588.8	2038.9	3138.2	A_3	3137
## 815	2133.74	2580.5	2007.0	3142.3	A_3	3141
## 816	2134.34	2570.6	2007.0	3142.2	A_3	3141
## 817	2152.65	2588.7	2012.4	3147.3	A_3	3147
## 818	2166.56	2599.3	2035.0	3190.3	A_3	3189

## 819	2151.44	2582.7	2010.5	3182.6	A_3	3181
## 820	2143.84	2557.0	2001.3	3191.4	A_3	3191
## 821	2113.37	2532.4	1972.6	3171.3	A_3	3171
## 822	2121.25	2530.9	2000.6	3175.1	A_3	3175
## 823	2132.98	2541.1	2006.3	3205.2	A_3	3205
## 824	2153.48	2551.1	2026.5	3234.2	A_3	3233
## 825	2190.58	2581.3	2062.7	3265.1	A_3	3265
## 826	2215.72	2635.2	2075.3	3265.1	A_3	3265
## 827	2205.82	2635.7	2060.4	3249.6	A_3	3249
## 828	2207.09	2645.6	2069.1	3251.3	A_3	3251
## 829	2185.78	2628.4	2034.9	3216.5	A_3	3215
## 830	2197.38	2672.0	2020.4	3222.7	A_3	3221
## 831	2173.60	2674.5	1998.2	3241.5	A_3	3241
## 832	2158.07	2652.4	1961.5	3205.4	A_3	3205
## 833	2167.68	2662.5	1964.2	3203.9	A_3	3203
## 834	2178.10	2664.1	1983.4	3180.0	A_3	3179
## 835	2155.58	2642.1	1948.8	3139.3	A_3	3139
## 836	2155.81	2643.0	1966.8	3128.8	A_3	3127
## 837	2157.15	2658.8	1969.4	3121.4	A_3	3121
## 838	2118.17	2637.7	1952.9	3079.8	A_3	3079
## 839	2129.36	2628.6	1977.3	3112.7	A_3	3111
## 840	2097.45	2603.3	1924.6	3065.1	A_3	3065
## 841	2100.55	2614.7	1922.9	3079.1	A_3	3079
## 842	2059.15	2593.0	1919.3	3037.3	A_3	3037
## 843	2067.17	2594.0	1897.2	3014.8	A_3	3013
## 844	2072.81	2602.9	1899.4	3021.2	A_3	3021
## 845	2097.33	2609.1	1927.4	3028.2	A_3	3027
## 846	2057.83	2586.1	1902.7	2999.8	A_3	2999
## 847	2056.89	2581.0	1901.3	3008.5	A_3	3007
## 848	2070.36	2590.0	1905.0	3038.7	A_3	3037
## 849	2016.08	2558.0	1876.2	2992.5	A_3	2991
## 850	2002.30	2534.4	1879.3	3026.3	A_3	3025
## 851	2002.30	2499.5	1852.8	2983.5	A_3	2983
## 852	1988.67	2522.5	1876.1	3001.8	A_3	3001
## 853	1946.49	2480.4	1833.7	2956.3	A_3	2955
## 854	1965.41	2484.8	1843.4	2984.4	A_3	2983
## 855	1977.67	2496.9	1856.4	2998.7	A_3	2997
## 856	2048.56	2553.4	1898.3	3032.3	A_3	3031
## 857	2087.71	2570.2	1919.0	3073.0	A_3	3073
## 858	2072.68	2562.7	1918.1	3100.5	A_3	3099
## 859	2108.08	2593.3	1955.6	3141.9	A_3	3141
## 860	2118.52	2585.3	1933.0	3106.7	A_3	3105
## 861	2095.58	2575.6	1906.4	3120.2	A_3	3119
## 862	2069.58	2542.5	1898.6	3085.3	A_3	3085
## 863	2055.94	2529.8	1876.3	3060.8	A_3	3059
## 864	2048.15	2530.9	1867.4	3063.2	A_3	3063
## 865	2016.60	2508.6	1842.1	3032.8	A_3	3031
## 866	2022.64	2525.2	1841.6	3029.1	A_3	3029
## 867	1995.85	2494.7	1824.4	3000.9	A_3	2999
## 868	2009.45	2477.2	1831.5	2999.9	A_3	2999
## 869	2026.37	2458.6	1858.1	3029.6	A_3	3029
## 870	2064.86	2490.5	1905.7	3083.8	A_3	3083
## 871	2061.58	2506.5	1905.7	3097.4	A_3	3097
## 872	2066.18	2503.9	1905.7	3096.3	A_3	3095

## 873	2039.91	2500.0	1873.6	3081.3	A_3	3081
## 874	2061.37	2534.8	1911.1	3104.4	A_3	3103
## 875	2069.39	2541.0	1931.7	3097.6	A_3	3097
## 876	2043.30	2557.9	1906.1	3065.8	A_3	3065
## 877	2056.36	2543.9	1921.5	3063.8	A_3	3063
## 878	2090.78	2590.4	1943.9	3099.6	A_3	3099
## 879	2098.04	2602.7	1948.4	3103.5	A_3	3103
## 880	2073.67	2597.8	1948.4	3075.9	A_3	3075
## 881	2091.04	2590.9	1941.1	3095.3	A_3	3095
## 882	2112.21	2591.9	1954.5	3135.4	A_3	3135
## 883	2112.21	2609.4	1950.2	3146.5	A_3	3145
## 884	2091.94	2600.9	1927.5	3127.5	A_3	3127
## 885	2089.48	2606.5	1926.5	3131.0	A_3	3131
## 886	2097.20	2607.0	1927.8	3121.0	A_3	3121
## 887	2073.29	2571.8	1911.4	3078.7	A_3	3077
## 888	2040.05	2546.1	1893.1	3027.5	A_3	3027
## 889	2058.79	2568.6	1934.7	3036.6	A_3	3035
## 890	2056.27	2572.5	1945.9	3033.5	A_3	3033
## 891	2050.82	2579.4	1952.4	3047.1	A_3	3047
## 892	2036.24	2584.7	1940.0	3061.1	A_3	3061
## 893	2057.08	2594.9	1975.9	3081.4	A_3	3081
## 894	2045.54	2576.0	1964.0	3039.6	A_3	3039
## 895	2042.38	2577.5	1982.7	3017.3	A_3	3017
## 896	2067.26	2611.0	1973.7	3033.5	A_3	3033
## 897	2046.99	2589.1	1969.0	3016.1	A_3	3015
## 898	2044.04	2584.3	1969.8	3012.5	A_3	3011
## 899	2041.85	2589.3	1954.1	3013.8	A_3	3013
## 900	2024.19	2576.0	1937.0	2977.3	A_3	2977
## 901	2003.64	2562.8	1919.3	2943.4	A_3	2943
## 902	2019.13	2566.0	1917.1	2946.4	A_3	2945
## 903	2040.94	2581.4	1930.2	2980.6	A_3	2979
## 904	2054.23	2598.0	1931.1	2973.4	A_3	2973
## 905	2069.90	2604.7	1924.2	3013.6	A_3	3013
## 906	2066.59	2600.7	1928.1	3034.4	A_3	3033
## 907	2080.16	2614.7	1924.7	3058.1	A_3	3057
## 908	2095.50	2636.1	1940.9	3070.4	A_3	3069
## 909	2102.25	2649.8	1952.1	3091.7	A_3	3091
## 910	2100.98	2651.0	1949.9	3083.4	A_3	3083
## 911	2100.98	2651.0	1966.6	3083.4	A_3	3083
## 912	2110.77	2673.5	1956.0	3083.4	A_3	3083
## 913	2097.34	2656.2	1927.8	3095.8	A_3	3095
## 914	2074.68	2628.8	1894.2	3065.6	A_3	3065
## 915	2097.51	2628.8	1881.2	3065.5	A_3	3065
## 916	2079.19	2628.8	1881.2	3065.5	A_3	3065
## 917	2068.92	2612.3	1885.9	3065.7	A_3	3065
## 918	2072.90	2632.4	1901.8	3051.6	A_3	3051
## 919	2051.46	2613.1	1871.5	3032.3	A_3	3031
## 920	2058.20	2622.3	1886.4	3065.0	A_3	3065
## 921	2053.41	2617.3	1864.2	3055.8	A_3	3055
## 922	2062.08	2600.4	1859.2	3060.4	A_3	3059
## 923	2061.76	2597.0	1849.1	3049.4	A_3	3049
## 924	2059.68	2600.5	1844.1	3033.2	A_3	3033
## 925	2064.14	2600.2	1854.0	3048.3	A_3	3047
## 926	2088.25	2591.6	1872.8	3076.7	A_3	3075

## 927	2081.39	2582.8	1856.9	3054.0	A_3	3053
## 928	2085.62	2593.6	1860.3	3054.9	A_3	3053
## 929	2079.60	2595.5	1837.1	3028.6	A_3	3027
## 930	2050.86	2574.6	1813.3	2995.9	A_3	2995
## 931	2013.03	2525.3	1772.8	2954.2	A_3	2953
## 932	2027.67	2534.8	1780.2	2969.0	A_3	2969
## 933	2026.97	2525.5	1802.5	2982.2	A_3	2981
## 934	2040.79	2554.7	1826.3	3007.3	A_3	3007
## 935	2030.56	2552.4	1814.1	3022.2	A_3	3021
## 936	2026.68	2540.2	1813.4	2995.9	A_3	2995
## 937	2024.82	2536.9	1797.9	2991.6	A_3	2991
## 938	2047.44	2560.8	1827.8	3017.3	A_3	3017
## 939	2038.46	2563.7	1816.1	3034.7	A_3	3033
## 940	2077.94	2589.4	1842.4	3059.7	A_3	3059
## 941	2085.08	2621.4	1872.1	3062.0	A_3	3061
## 942	2093.01	2628.0	1870.4	3072.7	A_3	3071
## 943	2087.78	2617.4	1850.9	3072.5	A_3	3071
## 944	2117.80	2636.9	1874.4	3099.0	A_3	3099
## 945	2127.56	2635.4	1869.4	3109.9	A_3	3109
## 946	2118.96	2636.0	1850.1	3081.1	A_3	3081
## 947	2128.33	2642.4	1856.1	3071.3	A_3	3071
## 948	2135.49	2636.0	1861.9	3074.9	A_3	3073
## 949	2112.06	2621.0	1835.0	3051.1	A_3	3051
## 950	2119.29	2601.0	1822.5	3044.2	A_3	3043
## 951	2101.98	2597.2	1802.2	3018.6	A_3	3017
## 952	2101.82	2609.6	1805.6	3023.4	A_3	3023
## 953	2096.26	2610.0	1804.4	3019.5	A_3	3019
## 954	2126.44	2632.1	1827.0	3049.3	A_3	3049
## 955	2117.59	2623.3	1805.7	3037.7	A_3	3037
## 956	2106.05	2607.5	1802.2	3025.3	A_3	3025
## 957	2097.85	2600.4	1776.9	3009.3	A_3	3009
## 958	2127.21	2619.2	1808.4	3041.2	A_3	3041
## 959	2116.64	2617.2	1807.4	3038.2	A_3	3037
## 960	2094.16	2586.5	1795.2	3025.1	A_3	3025
## 961	2069.95	2553.2	1773.3	3001.9	A_3	3001
## 962	2041.26	2543.1	1748.6	2977.0	A_3	2977
## 963	2029.38	2515.8	1756.8	2992.1	A_3	2991
## 964	1989.20	2461.5	1727.1	2986.9	A_3	2985
## 965	2008.85	2467.7	1743.1	3021.1	A_3	3021
## 966	1974.14	2450.3	1721.8	3011.8	A_3	3011
## 967	2022.50	2463.3	1769.0	3050.6	A_3	3049
## 968	1995.22	2475.0	1738.6	3047.0	A_3	3047
## 969	2016.15	2491.7	1785.8	3094.1	A_3	3093
## 970	1979.52	2497.5	1788.8	3089.3	A_3	3089
## 971	1984.99	2516.0	1811.6	3124.2	A_3	3123
## 972	1984.15	2505.5	1813.8	3135.0	A_3	3135
## 973	1978.07	2501.9	1818.0	3139.7	A_3	3139
## 974	1935.08	2480.7	1795.7	3136.4	A_3	3135
## 975	1935.87	2526.6	1817.3	3153.4	A_3	3153
## 976	1928.82	2518.1	1836.1	3149.8	A_3	3149
## 977	1911.70	2495.6	1837.2	3128.3	A_3	3127
## 978	1918.85	2495.0	1852.4	3142.3	A_3	3141
## 979	1949.76	2533.1	1893.0	3176.2	A_3	3175
## 980	1914.69	2508.9	1859.5	3137.9	A_3	3137

## 981	1934.96	2511.1	1864.0	3143.1	A_3	3143
## 982	1965.68	2536.2	1882.8	3188.1	A_3	3187
## 983	1972.59	2536.3	1872.9	3190.2	A_3	3189
## 984	1976.52	2556.1	1890.2	3200.9	A_3	3199
## 985	1978.71	2559.3	1900.4	3210.9	A_3	3209
## 986	1980.81	2561.2	1880.9	3204.2	A_3	3203
## 987	1979.26	2563.1	1869.3	3190.9	A_3	3189
## 988	1991.08	2562.4	1871.9	3209.8	A_3	3209
## 989	1982.99	2560.3	1881.1	3208.8	A_3	3207
## 990	1982.99	2560.3	1881.1	3208.8	A_3	3207
## 991	1982.99	2560.3	1881.1	3208.8	A_3	3207
## 992	1954.62	2547.1	1855.7	3194.5	A_3	3193
## 993	1943.88	2516.8	1874.9	3170.1	A_3	3169
## 994	1955.33	2544.2	1882.0	3174.7	A_3	3173
## 995	1987.70	2560.8	1928.4	3199.9	A_3	3199
## 996	1978.97	2554.8	1918.5	3209.3	A_3	3209
## 997	2007.57	2561.1	1945.9	3214.9	A_3	3213
## 998	2028.52	2574.4	1942.3	3226.2	A_3	3225
## 999	2024.25	2567.0	1931.0	3217.6	A_3	3217
## 1000	2017.95	2597.2	1918.5	3216.7	A_3	3215
## 1001	2017.95	2597.2	1918.5	3220.4	A_3	3219
## 1002	2036.47	2621.4	1936.9	3248.2	A_3	3249
## 1003	2037.99	2618.6	1971.1	3262.6	A_3	3263
## 1004	2034.15	2641.7	1946.2	3264.3	A_3	3265
## 1005	2021.22	2650.5	1927.4	3251.7	A_3	3251
## 1006	2030.65	2658.8	1927.4	3251.7	A_3	3251
## 1007	2050.66	2655.6	1988.7	3261.2	A_3	3261
## 1008	2064.41	2661.4	1996.7	3290.1	A_3	3291
## 1009	2086.41	2701.0	2003.6	3317.9	A_3	3317
## 1010	2102.40	2728.2	2017.3	3310.3	A_3	3311
## 1011	2092.00	2739.0	1991.5	3310.7	A_3	3311
## 1012	2109.36	2746.6	2001.3	3300.8	A_3	3301
## 1013	2088.99	2739.8	2004.7	3297.4	A_3	3297
## 1014	2083.80	2727.7	1989.8	3285.8	A_3	3285
## 1015	2064.42	2701.0	1965.5	3261.0	A_3	3261
## 1016	2096.87	2751.2	1979.5	3284.5	A_3	3285
## 1017	2083.55	2750.4	1965.3	3291.8	A_3	3291
## 1018	2105.88	2778.5	1960.7	3327.3	A_3	3327
## 1019	2105.88	2778.5	1960.7	3328.2	A_3	3329
## 1020	2065.71	2751.7	1919.1	3311.1	A_3	3311
## 1021	2069.26	2762.5	1927.8	3311.1	A_3	3311
## 1022	2081.46	2779.4	1927.3	3309.9	A_3	3309
## 1023	2099.95	2786.4	1948.0	3319.4	A_3	3319
## 1024	2119.24	2807.8	1960.8	3340.6	A_3	3341
## 1025	2132.72	2805.3	1971.3	3345.0	A_3	3345
## 1026	2132.72	2805.3	1971.3	3376.6	A_3	3377
## 1027	2154.17	2809.7	1965.9	3380.0	A_3	3381
## 1028	2136.72	2819.6	1974.7	3370.8	A_3	3371
## 1029	2137.21	2806.8	1951.2	3380.8	A_3	3381
## 1030	2107.16	2795.3	1897.0	3337.7	A_3	3337
## 1031	2127.79	2802.3	1907.8	3344.6	A_3	3345
## 1032	2124.25	2800.9	1922.8	3348.0	A_3	3349
## 1033	2124.84	2798.1	1893.7	3339.8	A_3	3339
## 1034	2130.78	2800.2	1920.7	3370.4	A_3	3371

##	1035	2125.06	2775.4	1905.0	3366.1	A_3	3367
##	1036	2154.13	2803.0	1918.4	3381.3	A_3	3381
##	1037	2140.36	2805.6	1896.1	3377.2	A_3	3377
##	1038	2144.88	2816.8	1902.8	3378.3	A_3	3379
##	1039	2144.88	2843.3	1925.2	3403.8	A_3	3403
##	1040	2144.88	2837.7	1895.1	3379.4	A_3	3379
##	1041	2137.36	2830.3	1902.4	3309.2	A_3	3309
##	1042	2128.99	2845.1	1877.7	3313.2	A_3	3313
##	1043	2091.30	2836.8	1865.5	3282.7	A_3	3283
##	1044	2094.68	2845.6	1861.9	3294.0	A_3	3295
##	1045	2089.04	2825.3	1858.8	3314.6	A_3	3315
##	1046	2099.68	2827.5	1879.7	3323.7	A_3	3323
##	1047	2110.13	2847.5	1889.4	3349.2	A_3	3349
##	1048	2117.63	2843.7	1907.8	3394.9	A_3	3395
##	1049	2111.35	2833.7	1889.5	3388.3	A_3	3389
##	1050	2163.37	2848.4	1950.8	3462.9	A_3	3463
##	1051	2184.39	2842.9	1949.4	3455.0	A_3	3455
##	1052	2194.15	2847.3	1961.3	3464.0	A_3	3465
##	1053	2200.32	2867.9	1961.7	3450.6	A_3	3451
##	1054	2193.72	2869.7	1948.3	3447.2	A_3	3447
##	1055	2191.25	2863.4	1948.3	3429.2	A_3	3429
##	1056	2201.36	2892.3	1951.5	3442.6	A_3	3443
##	1057	2183.71	2875.1	1929.0	3420.7	A_3	3421
##	1058	2195.31	2856.2	1931.2	3405.3	A_3	3405
##	1059	2183.52	2822.2	1905.9	3400.4	A_3	3401
##	1060	2196.54	2830.2	1908.9	3413.1	A_3	3413
##	1061	2232.02	2836.6	1926.6	3431.6	A_3	3431
##	1062	2232.23	2833.2	1941.3	3432.9	A_3	3433
##	1063	2237.73	2827.1	1942.5	3454.3	A_3	3455
##	1064	2239.36	2824.7	1947.9	3458.3	A_3	3459
##	1065	2217.91	2833.1	1932.8	3468.9	A_3	3469
##	1066	2222.51	2826.8	1920.0	3463.3	A_3	3463
##	1067	2211.26	2826.8	1917.8	3449.9	A_3	3449
##	1068	2249.60	2852.3	1960.0	3499.9	A_3	3499
##	1069	2234.86	2814.3	1950.8	3475.6	A_3	3475
##	1070	2236.68	2807.1	1957.1	3482.4	A_3	3483
##	1071	2244.56	2800.6	1950.4	3483.5	A_3	3483
##	1072	2236.89	2797.4	1954.7	3468.8	A_3	3469
##	1073	2222.28	2781.3	1943.7	3468.3	A_3	3469
##	1074	2236.72	2802.6	1949.2	3474.7	A_3	3475
##	1075	2228.44	2820.1	1946.2	3467.5	A_3	3467
##	1076	2208.41	2807.2	1946.2	3441.4	A_3	3441
##	1077	2236.73	2838.4	1946.2	3444.4	A_3	3445
##	1078	2251.64	2880.6	1970.4	3465.1	A_3	3465
##	1079	2253.93	2880.0	1967.3	3470.6	A_3	3471
##	1080	2265.86	2889.5	1971.6	3509.8	A_3	3509
##	1081	2269.60	2886.7	1984.4	3535.7	A_3	3535
##	1082	2258.97	2900.8	1963.3	3530.2	A_3	3531
##	1083	2262.66	2896.8	1957.4	3515.9	A_3	3515
##	1084	2253.91	2887.1	1939.2	3520.0	A_3	3521
##	1085	2257.34	2893.8	1937.8	3524.9	A_3	3525
##	1086	2240.31	2883.3	1890.1	3524.9	A_3	3525
##	1087	2230.27	2887.3	1899.5	3502.6	A_3	3503
##	1088	2251.30	2915.7	1921.4	3504.0	A_3	3505

##	1089	2234.23	2908.8	1883.4	3477.8	A_3	3477
##	1090	2242.76	2918.3	1881.7	3509.4	A_3	3509
##	1091	2263.08	2952.7	1900.5	3522.7	A_3	3523
##	1092	2266.57	2971.1	1902.5	3532.4	A_3	3533
##	1093	2266.37	2999.6	1884.8	3557.7	A_3	3557
##	1094	2263.27	2989.1	1861.7	3545.6	A_3	3545
##	1095	2266.77	2989.2	1854.9	3554.5	A_3	3555
##	1096	2268.26	2986.3	1869.7	3549.3	A_3	3549
##	1097	2266.07	2990.5	1873.6	3535.9	A_3	3535
##	1098	2300.72	3016.8	1898.2	3570.8	A_3	3571
##	1099	2300.29	3011.6	1892.4	3565.4	A_3	3565
##	1100	2305.58	3025.4	1880.0	3564.6	A_3	3565
##	1101	2289.49	3008.1	1871.7	3533.3	A_3	3533
##	1102	2306.66	3033.5	1882.5	3541.4	A_3	3541
##	1103	2294.15	3029.0	1863.8	3561.5	A_3	3561
##	1104	2275.72	3039.1	1853.9	3557.9	A_3	3557
##	1105	2204.44	2994.7	1790.7	3514.8	A_3	3515
##	1106	2212.97	3015.3	1800.6	3507.0	A_3	3507
##	1107	2232.02	3045.5	1816.3	3523.3	A_3	3523
##	1108	2190.90	3009.8	1791.8	3485.0	A_3	3485
##	1109	2184.24	3000.6	1767.6	3479.0	A_3	3479
##	1110	2201.27	3014.8	1788.4	3508.2	A_3	3509
##	1111	2197.01	3039.0	1780.7	3520.2	A_3	3521
##	1112	2197.01	3049.0	1800.7	3524.2	A_3	3525
##	1113	2211.60	3036.5	1803.9	3544.1	A_3	3545
##	1114	2191.54	3036.6	1800.3	3544.4	A_3	3545
##	1115	2176.35	3054.0	1809.6	3526.5	A_3	3527
##	1116	2157.41	3064.0	1785.7	3510.3	A_3	3511
##	1117	2137.01	3050.0	1778.0	3460.1	A_3	3461
##	1118	2153.56	3073.0	1794.4	3474.3	A_3	3475
##	1119	2159.73	3083.7	1803.8	3523.8	A_3	3523
##	1120	2206.11	3109.2	1817.0	3568.0	A_3	3569
##	1121	2193.85	3116.3	1790.5	3557.3	A_3	3557
##	1122	2185.52	3112.3	1779.7	3562.2	A_3	3563
##	1123	2197.57	3135.4	1770.7	3593.0	A_3	3593
##	1124	2176.09	3124.5	1757.3	3578.6	A_3	3579
##	1125	2148.12	3120.4	1740.7	3551.4	A_3	3551
##	1126	2116.86	3041.7	1721.1	3531.5	A_3	3531
##	1127	2114.88	3062.3	1724.2	3535.3	A_3	3535
##	1128	2140.74	3078.9	1764.1	3537.8	A_3	3537
##	1129	2142.74	3080.0	1754.1	3519.6	A_3	3519
##	1130	2112.01	3026.6	1742.4	3497.9	A_3	3497
##	1131	2149.71	3057.9	1795.3	3510.0	A_3	3511
##	1132	2165.76	3108.2	1814.0	3529.1	A_3	3529
##	1133	2182.11	3128.5	1814.0	3518.7	A_3	3519
##	1134	2180.49	3123.4	1828.7	3523.0	A_3	3523
##	1135	2169.69	3137.6	1832.1	3500.4	A_3	3501
##	1136	2168.57	3123.2	1822.6	3514.8	A_3	3515
##	1137	2174.27	3133.8	1857.4	3522.4	A_3	3523
##	1138	2184.05	3132.6	1866.3	3537.1	A_3	3537
##	1139	2182.47	3150.1	1852.6	3541.6	A_3	3541
##	1140	2174.78	3130.4	1839.8	3523.4	A_3	3523
##	1141	2195.15	3121.4	1838.2	3536.8	A_3	3537
##	1142	2197.34	3133.0	1838.2	3547.9	A_3	3547

##	1143	2196.64	3124.8	1875.2	3571.4	A_3	3571
##	1144	2199.29	3148.4	1905.1	3610.8	A_3	3611
##	1145	2196.59	3152.5	1890.5	3609.2	A_3	3609
##	1146	2204.01	3182.2	1881.4	3628.8	A_3	3629
##	1147	2201.90	3183.9	1872.9	3604.1	A_3	3605
##	1148	2194.53	3201.0	1875.5	3632.4	A_3	3633
##	1149	2197.26	3209.2	1867.1	3602.5	A_3	3603
##	1150	2210.92	3220.1	1891.0	3624.0	A_3	3625
##	1151	2247.97	3251.0	1889.8	3649.0	A_3	3649
##	1152	2242.91	3229.5	1870.3	3648.8	A_3	3649
##	1153	2249.75	3245.9	1857.3	3655.5	A_3	3655
##	1154	2254.95	3251.6	1828.3	3664.3	A_3	3665
##	1155	2266.56	3261.2	1820.9	3664.3	A_3	3665
##	1156	2261.08	3278.4	1774.9	3669.7	A_3	3669
##	1157	2269.34	3278.5	1814.9	3664.2	A_3	3665
##	1158	2274.94	3281.5	1834.8	3662.8	A_3	3663
##	1159	2260.62	3245.7	1846.8	3639.5	A_3	3639
##	1160	2277.70	3246.6	1856.3	3630.0	A_3	3631
##	1161	2277.70	3261.6	1849.6	3652.1	A_3	3653
##	1162	2278.64	3280.9	1848.9	3654.9	A_3	3655
##	1163	2283.26	3273.4	1833.8	3662.4	A_3	3663
##	1164	2286.21	3272.2	1875.0	3671.6	A_3	3671
##	1165	2283.84	3289.8	1859.3	3642.6	A_3	3643
##	1166	2240.24	3251.6	1820.5	3596.1	A_3	3597
##	1167	2241.43	3217.7	1810.2	3576.9	A_3	3577
##	1168	2268.07	3254.3	1831.2	3613.7	A_3	3613
##	1169	2268.35	3255.0	1834.4	3633.3	A_3	3633
##	1170	2280.81	3277.9	1873.4	3658.3	A_3	3659
##	1171	2280.81	3277.9	1873.4	3658.3	A_3	3659
##	1172	2280.81	3277.9	1866.7	3658.3	A_3	3659
##	1173	2280.44	3317.1	1877.0	3676.4	A_3	3677
##	1174	2273.90	3297.7	1879.1	3676.7	A_3	3677
##	1175	2260.69	3297.7	1872.0	3689.3	A_3	3689
##	1176	2260.69	3297.7	1872.0	3689.3	A_3	3689
##	1177	2307.70	3297.7	1908.4	3687.9	A_3	3687
##	1178	2326.18	3384.5	1943.0	3715.6	A_3	3715
##	1179	2332.81	3395.8	1931.2	3714.1	A_3	3715
##	1180	2315.66	3376.1	1917.7	3704.5	A_3	3705
##	1181	2336.76	3368.1	1916.6	3720.6	A_3	3721
##	1182	2351.47	3361.5	1916.3	3720.6	A_3	3721
##	1183	2340.31	3314.8	1910.1	3671.5	A_3	3671
##	1184	2330.98	3284.1	1897.9	3654.9	A_3	3655
##	1185	2353.89	3292.9	1907.6	3657.3	A_3	3657
##	1186	2361.38	3233.9	1924.4	3662.7	A_3	3663
##	1187	2379.43	3254.8	1952.1	3710.6	A_3	3711
##	1188	2375.63	3219.3	1966.0	3704.2	A_3	3705
##	1189	2389.62	3257.8	1960.1	3748.7	A_3	3749
##	1190	2400.58	3253.1	1964.3	3748.4	A_3	3749
##	1191	2391.74	3249.9	1954.4	3754.2	A_3	3755
##	1192	2393.12	3219.0	1934.1	3735.0	A_3	3735
##	1193	2436.68	3221.3	1946.0	3758.2	A_3	3759
##	1194	2437.02	3211.2	1950.2	3734.2	A_3	3735
##	1195	2449.71	3191.4	1966.7	3734.7	A_3	3735
##	1196	2437.70	3198.2	1980.7	3734.6	A_3	3735

##	1197	2456.09	3236.8	2003.1	3735.3	A_3	3735
##	1198	2463.00	3248.7	2021.0	3759.3	A_3	3759
##	1199	2472.53	3279.9	2024.1	3752.8	A_3	3753
##	1200	2459.81	3270.0	2022.2	3781.3	A_3	3781
##	1201	2416.84	3221.7	1985.6	3746.6	A_3	3747
##	1202	2437.98	3253.8	1988.5	3747.5	A_3	3747
##	1203	2442.43	3262.7	1983.3	3726.1	A_3	3727
##	1204	2411.49	3245.6	1956.2	3708.4	A_3	3709
##	1205	2435.07	3242.7	1960.7	3716.3	A_3	3717
##	1206	2428.59	3253.1	1967.7	3726.6	A_3	3727
##	1207	2436.09	3260.1	1983.3	3747.6	A_3	3747
##	1208	2427.77	3266.1	1956.4	3745.0	A_3	3745
##	1209	2426.51	3272.2	1964.2	3779.8	A_3	3779
##	1210	2423.60	3280.3	1952.5	3770.9	A_3	3771
##	1211	2387.60	3270.6	1939.7	3744.3	A_3	3745
##	1212	2373.01	3243.5	1932.4	3714.6	A_3	3715
##	1213	2401.59	3253.0	1936.9	3725.6	A_3	3725
##	1214	2421.93	3264.4	1953.3	3740.0	A_3	3741
##	1215	2449.52	3296.2	1976.9	3740.3	A_3	3741
##	1216	2438.73	3298.6	1960.9	3704.2	A_3	3705
##	1217	2449.09	3309.9	1974.5	3715.9	A_3	3715
##	1218	2486.95	3360.5	1996.9	3738.2	A_3	3739
##	1219	2485.18	3354.8	1990.8	3727.6	A_3	3727
##	1220	2488.85	3385.5	2017.2	3752.7	A_3	3753
##	1221	2486.83	3400.6	2015.3	3768.6	A_3	3769
##	1222	2472.52	3383.4	2001.9	3777.1	A_3	3777
##	1223	2471.38	3408.3	2005.9	3758.9	A_3	3759
##	1224	2479.38	3581.9	2008.0	3758.2	A_3	3759
##	1225	2448.80	3549.7	1975.5	3710.3	A_3	3711
##	1226	2419.72	3506.2	1948.9	3674.5	A_3	3675
##	1227	2415.29	3540.5	1932.1	3639.5	A_3	3639
##	1228	2417.00	3558.3	1944.3	3640.3	A_3	3641
##	1229	2432.46	3578.4	1962.4	3681.8	A_3	3681
##	1230	2458.00	3561.1	1950.1	3644.8	A_3	3645
##	1231	2472.55	3583.6	1965.0	3669.6	A_3	3669
##	1232	2484.74	3605.1	1967.2	3693.0	A_3	3693
##	1233	2491.73	3611.1	1969.8	3685.4	A_3	3685
##	1234	2505.32	3629.3	1976.9	3698.3	A_3	3699
##	1235	2479.84	3647.7	1974.4	3707.0	A_3	3707
##	1236	2514.80	3677.0	2003.8	3681.9	A_3	3681
##	1237	2505.78	3658.1	2008.0	3660.9	A_3	3661
##	1238	2523.81	3671.0	2030.5	3672.4	A_3	3673
##	1239	2502.94	3640.3	2020.0	3672.6	A_3	3673
##	1240	2489.35	3646.5	2044.8	3699.7	A_3	3699
##	1241	2500.75	3654.3	2055.6	3718.4	A_3	3719
##	1242	2508.11	3648.3	2070.4	3728.5	A_3	3729
##	1243	2489.52	3606.7	2064.0	3725.1	A_3	3725
##	1244	2498.75	3611.1	2075.0	3755.6	A_3	3755
##	1245	2498.75	3611.1	2075.0	3755.6	A_3	3755
##	1246	2498.75	3611.1	2075.0	3755.6	A_3	3755
##	1247	2510.81	3594.4	2081.7	3758.6	A_3	3759
##	1248	2525.59	3601.5	2093.9	3767.4	A_3	3767
##	1249	2508.12	3566.9	2072.5	3744.2	A_3	3745
##	1250	2526.74	3575.5	2074.7	3766.8	A_3	3767

##	1251	2540.79	3589.6	2080.6	3790.5	A_3	3791
##	1252	2547.32	3607.5	2097.3	3825.3	A_3	3825
##	1253	2519.82	3603.9	2075.1	3805.6	A_3	3805
##	1254	2524.18	3601.2	2086.0	3820.7	A_3	3821
##	1255	2535.86	3628.1	2092.5	3857.1	A_3	3857
##	1256	2549.27	3673.2	2116.5	3852.7	A_3	3853
##	1257	2549.12	3647.3	2112.0	3833.0	A_3	3833
##	1258	2524.84	3668.4	2122.1	3817.6	A_3	3817
##	1259	2538.68	3668.1	2116.4	3819.3	A_3	3819
##	1260	2539.88	3696.0	2138.4	3832.8	A_3	3833
##	1261	2505.97	3658.2	2130.8	3809.2	A_3	3809
##	1262	2492.63	3651.0	2146.8	3817.9	A_3	3817
##	1263	2492.63	3651.0	2146.8	3806.0	A_3	3807
##	1264	2465.49	3635.8	2136.8	3776.4	A_3	3777
##	1265	2472.43	3611.2	2115.4	3751.6	A_3	3751
##	1266	2473.52	3591.6	2090.4	3751.6	A_3	3751
##	1267	2476.79	3583.6	2083.7	3723.0	A_3	3723
##	1268	2466.21	3534.1	2083.7	3707.3	A_3	3707
##	1269	2470.57	3521.6	2085.4	3728.3	A_3	3729
##	1270	2499.02	3556.9	2114.8	3754.4	A_3	3755
##	1271	2496.33	3557.8	2100.9	3739.2	A_3	3739
##	1272	2528.20	3582.4	2122.1	3759.7	A_3	3759
##	1273	2534.40	3572.5	2124.6	3776.2	A_3	3777
##	1274	2534.40	3572.5	2124.6	3753.6	A_3	3753
##	1275	2552.29	3593.0	2136.9	3789.6	A_3	3789
##	1276	2541.98	3584.0	2120.6	3778.2	A_3	3779
##	1277	2564.12	3587.3	2129.7	3789.4	A_3	3789
##	1278	2548.79	3550.0	2103.5	3764.2	A_3	3765
##	1279	2546.55	3547.4	2114.5	3747.0	A_3	3747
##	1280	2549.53	3572.2	2117.7	3752.1	A_3	3753
##	1281	2549.53	3572.2	2117.7	3752.1	A_3	3753
##	1282	2559.15	3583.8	2132.9	3760.2	A_3	3761
##	1283	2548.53	3558.2	2117.1	3775.7	A_3	3775
##	1284	2535.78	3537.7	2108.4	3746.7	A_3	3747
##	1285	2523.81	3556.1	2110.1	3747.8	A_3	3747
##	1286	2543.99	3544.6	2121.1	3739.2	A_3	3739
##	1287	2550.42	3568.1	2111.0	3755.2	A_3	3755
##	1288	2551.03	3572.0	2115.4	3753.4	A_3	3753
##	1289	2559.02	3585.5	2133.2	3760.3	A_3	3761
##	1290	2536.03	3547.9	2102.0	3706.8	A_3	3707
##	1291	2552.96	3575.8	2120.8	3728.8	A_3	3729
##	1292	2571.10	3575.6	2137.5	3755.7	A_3	3755
##	1293	2569.90	3600.9	2137.3	3769.2	A_3	3769
##	1294	2566.13	3607.4	2126.2	3761.7	A_3	3761
##	1295	2544.90	3593.9	2111.8	3753.6	A_3	3753
##	1296	2549.71	3600.1	2113.0	3761.5	A_3	3761
##	1297	2554.12	3628.3	2107.9	3756.4	A_3	3757
##	1298	2546.04	3643.6	2100.7	3753.2	A_3	3753
##	1299	2532.22	3655.4	2077.1	3727.5	A_3	3727
##	1300	2547.78	3687.3	2084.2	3722.3	A_3	3723
##	1301	2562.19	3701.5	2097.6	3710.8	A_3	3711
##	1302	2578.36	3699.6	2118.4	3679.5	A_3	3679
##	1303	2572.06	3723.5	2113.3	3695.5	A_3	3695
##	1304	2551.80	3703.0	2112.9	3678.8	A_3	3679

##	1305	2570.44	3732.9	2123.7	3711.0	A_3	3711
##	1306	2573.44	3728.2	2118.8	3725.6	A_3	3725
##	1307	2565.32	3750.8	2111.8	3725.7	A_3	3725
##	1308	2566.32	3757.0	2114.0	3714.1	A_3	3715
##	1309	2578.74	3771.3	2126.8	3760.6	A_3	3761
##	1310	2568.79	3731.2	2098.8	3743.2	A_3	3743
##	1311	2561.51	3732.8	2079.1	3741.5	A_3	3741
##	1312	2562.24	3773.4	2076.6	3752.3	A_3	3753
##	1313	2573.00	3788.0	2081.9	3765.8	A_3	3765
##	1314	2561.95	3810.0	2073.4	3749.0	A_3	3749
##	1315	2548.97	3785.8	2050.6	3728.3	A_3	3729
##	1316	2529.50	3755.4	2029.5	3698.3	A_3	3699
##	1317	2475.98	3678.1	1989.5	3632.3	A_3	3633
##	1318	2497.69	3656.2	1995.1	3658.2	A_3	3659
##	1319	2505.56	3649.2	2007.3	3693.4	A_3	3693
##	1320	2498.35	3661.5	1992.8	3710.5	A_3	3711
##	1321	2468.32	3566.1	1960.3	3681.3	A_3	3681
##	1322	2488.82	3585.2	1982.2	3708.4	A_3	3709
##	1323	2459.13	3482.6	1954.1	3668.8	A_3	3669
##	1324	2464.51	3537.4	1974.7	3684.7	A_3	3685
##	1325	2469.51	3537.8	1962.9	3673.3	A_3	3673
##	1326	2472.25	3549.5	1961.1	3678.8	A_3	3679
##	1327	2466.84	3518.2	1968.5	3668.5	A_3	3669
##	1328	2491.50	3494.4	1995.9	3703.2	A_3	3703
##	1329	2504.16	3494.4	2009.9	3734.4	A_3	3735
##	1330	2520.26	3604.6	2023.4	3770.6	A_3	3771
##	1331	2520.52	3623.3	2013.2	3788.3	A_3	3789
##	1332	2527.73	3629.0	1999.3	3788.4	A_3	3789
##	1333	2541.41	3662.6	1996.7	3811.1	A_3	3811
##	1334	2534.63	3653.4	1997.4	3811.4	A_3	3811
##	1335	2532.96	3643.2	1985.4	3810.7	A_3	3811
##	1336	2529.14	3623.1	1978.2	3803.3	A_3	3803
##	1337	2545.65	3630.2	1980.6	3823.4	A_3	3823
##	1338	2544.61	3650.7	1979.5	3830.3	A_3	3831
##	1339	2542.75	3646.3	1979.5	3837.4	A_3	3837
##	1340	2567.96	3670.5	1979.5	3872.9	A_3	3873
##	1341	2556.25	3664.4	1986.2	3863.7	A_3	3863
##	1342	2562.12	3698.2	2019.3	3883.2	A_3	3883
##	1343	2534.44	3683.8	2000.6	3872.1	A_3	3873
##	1344	2559.42	3713.0	2017.8	3891.1	A_3	3891
##	1345	2562.12	3725.4	2020.8	3907.5	A_3	3907
##	1346	2554.42	3714.6	2020.4	3907.5	A_3	3907
##	1347	2563.59	3722.4	2018.0	3905.7	A_3	3905
##	1348	2556.64	3692.6	2002.9	3918.7	A_3	3919
##	1349	2548.84	3682.6	1977.6	3885.0	A_3	3885
##	1350	2534.49	3646.3	1970.6	3867.6	A_3	3867
##	1351	2538.34	3654.7	1977.0	3884.4	A_3	3885
##	1352	2528.73	3623.9	1971.4	3855.9	A_3	3855
##	1353	2526.18	3634.2	1984.8	3872.7	A_3	3873
##	1354	2532.55	3627.1	1996.2	3887.2	A_3	3887
##	1355	2542.74	3637.8	2004.8	3893.0	A_3	3893
##	1356	2549.71	3684.4	2020.3	3910.8	A_3	3911
##	1357	2568.77	3694.2	2042.1	3916.1	A_3	3917
##	1358	2568.70	3678.9	2038.1	3905.6	A_3	3905

##	1359	2588.04	3687.2	2065.4	3932.6	A_3	3933
##	1360	2614.50	3716.8	2080.4	3967.9	A_3	3967
##	1361	2630.24	3722.7	2086.2	3977.2	A_3	3977
##	1362	2626.43	3690.0	2080.9	3972.3	A_3	3973
##	1363	2621.20	3690.1	2072.7	3955.7	A_3	3955
##	1364	2625.46	3694.9	2082.3	3974.3	A_3	3975
##	1365	2641.50	3694.9	2079.5	3964.1	A_3	3965
##	1366	2624.18	3635.5	2067.1	3919.7	A_3	3919
##	1367	2643.42	3661.2	2081.5	3910.5	A_3	3911
##	1368	2663.10	3697.7	2103.4	3935.7	A_3	3935
##	1369	2664.96	3699.5	2104.1	3933.2	A_3	3933
##	1370	2659.86	3696.6	2107.1	3946.4	A_3	3947
##	1371	2655.49	3736.4	2132.8	3953.7	A_3	3953
##	1372	2654.34	3737.5	2123.2	3992.2	A_3	3993
##	1373	2685.29	3760.2	2141.8	4015.1	A_3	4015
##	1374	2685.29	3771.6	2136.1	4000.0	A_3	4001
##	1375	2704.25	3771.6	2152.7	4024.8	A_3	4025
##	1376	2705.21	3813.7	2151.6	4031.5	A_3	4031
##	1377	2702.60	3818.1	2161.5	4035.6	A_3	4035
##	1378	2685.23	3807.9	2146.7	4009.3	A_3	4009
##	1379	2683.52	3797.3	2135.6	3994.7	A_3	3995
##	1380	2692.69	3805.2	2147.1	4028.1	A_3	4029
##	1381	2700.83	3813.7	2143.6	4038.7	A_3	4039
##	1382	2718.73	3822.2	2168.3	4050.8	A_3	4051
##	1383	2705.06	3790.2	2158.5	4024.4	A_3	4025
##	1384	2717.50	3793.2	2165.3	4042.1	A_3	4043
##	1385	2727.56	3803.3	2185.2	4053.1	A_2	4053
##	1386	2733.67	3788.2	2180.2	4073.1	A_2	4073
##	1387	2721.74	3775.3	2175.6	4057.2	A_3	4057
##	1388	2678.89	3742.9	2148.9	4028.4	A_3	4029
##	1389	2681.94	3753.6	2151.6	3999.4	A_3	3999
##	1390	2690.79	3758.7	2162.4	4022.4	A_3	4023
##	1391	2703.33	3763.5	2150.4	4025.3	A_3	4025
##	1392	2675.50	3732.0	2125.7	3993.5	A_3	3993
##	1393	2664.72	3723.1	2124.8	3963.9	A_3	3963
##	1394	2671.40	3725.3	2140.5	3979.1	A_3	3979
##	1395	2670.19	3736.1	2140.5	3948.5	A_3	3949
##	1396	2678.73	3749.2	2142.2	3928.1	A_3	3929
##	1397	2716.16	3784.8	2187.3	3921.1	A_3	3921
##	1398	2735.28	3815.4	2213.4	3935.7	A_2	3935
##	1399	2724.25	3811.5	2211.8	3900.4	A_2	3901
##	1400	2732.29	3812.0	2205.2	3910.8	A_2	3911
##	1401	2730.44	3827.6	2205.2	3914.4	A_2	3915
##	1402	2764.00	3829.8	2229.1	3934.3	A_2	3935
##	1403	2770.61	3825.7	2217.2	3926.9	A_2	3927
##	1404	2784.39	3856.4	2218.2	3926.1	A_2	3927
##	1405	2800.60	3897.9	2240.3	3958.2	A_2	3959
##	1406	2768.68	3888.3	2228.8	3962.1	A_2	3963
##	1407	2781.54	3892.6	2240.1	3978.1	A_2	3979
##	1408	2766.08	3883.3	2233.4	3962.8	A_2	3963
##	1409	2765.29	3861.5	2233.6	3953.8	A_2	3953
##	1410	2769.47	3882.8	2255.5	4018.7	A_2	4019
##	1411	2800.52	3891.7	2277.1	4054.6	A_2	4055
##	1412	2808.62	3878.2	2275.1	4068.4	A_2	4069

## 1413	2793.86	3845.3	2270.8	4049.2	A_2	4049
## 1414	2829.68	3884.1	2290.3	4050.2	A_2	4051
## 1415	2848.84	3902.5	2315.7	4058.0	A_2	4059
## 1416	2853.46	3874.0	2318.6	4038.5	A_2	4039
## 1417	2900.76	3924.5	2349.1	4061.5	A_2	4061
## 1418	2880.89	3910.6	2308.7	4045.2	A_2	4045
## 1419	2894.43	3913.8	2292.5	4051.2	A_2	4051
## 1420	2832.53	3835.5	2240.7	3963.0	A_2	3963
## 1421	2870.30	3874.0	2255.8	4011.6	A_2	4011
## 1422	2890.95	3885.4	2251.4	4035.7	A_2	4035
## 1423	2836.36	3857.6	2213.3	3982.5	A_2	3983
## 1424	2846.94	3860.0	2212.1	3990.7	A_2	3991
## 1425	2815.77	3839.3	2203.4	3972.4	A_2	3973
## 1426	2841.16	3869.2	2222.6	3993.8	A_2	3993
## 1427	2808.50	3850.4	2193.7	3979.6	A_2	3979
## 1428	2814.23	3874.0	2218.9	4018.2	A_2	4019
## 1429	2824.83	3880.8	2248.7	4051.3	A_2	4051
## 1430	2835.54	3890.1	2278.5	4077.6	A_2	4077
## 1431	2844.09	3875.5	2287.4	4087.2	A_2	4087
## 1432	2844.09	3869.8	2289.6	4092.5	A_2	4093
## 1433	2844.09	3869.8	2289.6	4092.5	A_2	4093
## 1434	2844.09	3869.8	2303.8	4092.5	A_2	4093
## 1435	2859.22	3922.2	2307.0	4091.0	A_2	4091
## 1436	2880.07	3948.3	2318.6	4115.7	A_2	4115
## 1437	2880.07	3942.2	2315.7	4118.5	A_2	4119
## 1438	2880.07	3942.2	2315.7	4118.5	A_2	4119
## 1439	2820.81	3942.2	2257.0	4057.4	A_2	4057
## 1440	2863.26	3940.1	2282.8	4089.5	A_2	4089
## 1441	2890.20	3923.8	2306.7	4106.5	A_2	4107
## 1442	2876.34	3922.9	2301.7	4078.8	A_2	4079
## 1443	2904.08	3944.9	2331.6	4087.5	A_2	4087
## 1444	2936.69	3966.2	2349.1	4087.0	A_2	4087
## 1445	2915.81	3947.4	2327.5	4056.6	A_2	4057
## 1446	2956.78	3975.5	2361.3	4107.3	A_2	4107
## 1447	2978.84	3983.6	2402.1	4168.2	A_2	4169
## 1448	2976.56	3979.6	2388.0	4158.9	A_2	4159
## 1449	2996.12	4007.1	2407.8	4197.5	A_2	4197
## 1450	3006.87	4019.9	2425.1	4207.7	A_2	4207
## 1451	2999.19	4009.5	2406.1	4194.0	A_2	4195
## 1452	3000.66	4023.1	2409.9	4195.5	A_2	4195
## 1453	3026.63	4115.4	2442.5	4219.1	A_2	4219
## 1454	3037.28	4161.0	2461.3	4219.1	A_2	4219
## 1455	2982.63	4125.5	2430.3	4218.8	A_2	4219
## 1456	2992.55	4127.3	2435.2	4212.0	A_2	4213
## 1457	3028.27	4182.3	2482.8	4237.4	A_2	4237
## 1458	2997.95	4169.7	2465.0	4207.5	A_2	4207
## 1459	3018.58	4209.1	2503.1	4228.4	A_2	4229
## 1460	3037.70	4272.2	2516.6	4275.8	A_2	4275
## 1461	3064.70	4282.8	2508.6	4257.8	A_2	4257
## 1462	3067.48	4296.5	2503.1	4260.9	A_2	4261
## 1463	3114.73	4305.5	2541.3	4281.5	A_2	4281
## 1464	3124.78	4309.8	2558.4	4265.9	A_2	4265
## 1465	3161.36	4357.9	2597.5	4307.8	A_2	4307
## 1466	3185.72	4384.3	2595.4	4307.7	A_2	4307

##	1467	3191.45	4408.4	2582.1	4304.3	A_2	4305
##	1468	3211.01	4444.1	2599.3	4304.3	A_2	4305
##	1469	3256.86	4436.3	2628.4	4327.1	A_2	4327
##	1470	3249.17	4464.2	2627.4	4341.0	A_2	4341
##	1471	3260.30	4514.6	2634.5	4337.8	A_2	4337
##	1472	3230.83	4490.7	2617.5	4332.3	A_2	4333
##	1473	3209.04	4525.5	2594.8	4357.4	A_2	4357
##	1474	3197.09	4530.8	2575.2	4356.1	A_2	4357
##	1475	3203.79	4522.5	2562.8	4336.8	A_2	4337
##	1476	3180.63	4463.2	2567.9	4331.1	A_2	4331
##	1477	3233.34	4503.9	2607.7	4344.7	A_2	4345
##	1478	3245.02	4539.0	2602.2	4329.3	A_2	4329
##	1479	3272.58	4519.7	2629.4	4339.2	A_2	4339
##	1480	3261.04	4487.6	2607.8	4308.3	A_2	4309
##	1481	3258.74	4460.1	2600.3	4307.1	A_2	4307
##	1482	3345.09	4513.7	2651.7	4357.7	A_2	4357
##	1483	3375.45	4547.1	2666.2	4360.1	A_2	4361
##	1484	3396.55	4605.2	2698.9	4399.3	A_2	4399
##	1485	3419.51	4638.9	2708.3	4420.3	A_2	4421
##	1486	3426.77	4684.4	2709.2	4437.4	A_2	4437
##	1487	3430.95	4677.1	2686.2	4444.3	A_2	4445
##	1488	3382.40	4676.2	2641.7	4422.5	A_2	4423
##	1489	3367.82	4609.9	2632.1	4397.7	A_2	4397
##	1490	3404.29	4636.2	2645.6	4424.3	A_2	4425
##	1491	3337.11	4556.5	2588.4	4373.3	A_2	4373
##	1492	3289.59	4519.9	2574.0	4356.8	A_2	4357
##	1493	3305.72	4535.1	2596.8	4332.2	A_2	4333
##	1494	3247.03	4442.9	2553.7	4258.1	A_2	4259
##	1495	3288.52	4491.3	2587.1	4254.8	A_2	4255
##	1496	3302.57	4497.3	2579.3	4214.8	A_2	4215
##	1497	3374.93	4558.6	2624.3	4270.7	A_2	4271
##	1498	3439.22	4620.5	2648.7	4301.5	A_2	4301
##	1499	3407.83	4659.2	2656.7	4312.9	A_2	4313
##	1500	3407.83	4659.2	2656.7	4312.9	A_2	4313
##	1501	3407.83	4659.2	2656.7	4312.9	A_2	4313
##	1502	3281.46	4501.7	2581.8	4248.1	A_2	4249
##	1503	3210.94	4488.7	2530.3	4236.6	A_2	4237
##	1504	3212.82	4463.9	2514.5	4214.6	A_2	4215
##	1505	3235.35	4471.5	2518.0	4236.6	A_2	4237
##	1506	3342.77	4588.0	2572.3	4271.7	A_2	4271
##	1507	3328.13	4582.6	2579.0	4269.3	A_2	4269
##	1508	3364.76	4634.9	2617.6	4292.3	A_2	4293
##	1509	3352.58	4626.6	2608.0	4313.2	A_2	4313
##	1510	3319.24	4604.2	2574.6	4270.7	A_2	4271
##	1511	3297.52	4586.3	2566.1	4251.7	A_2	4251
##	1512	3369.26	4643.4	2620.6	4286.8	A_2	4287
##	1513	3347.54	4625.6	2621.0	4294.6	A_2	4295
##	1514	3361.80	4665.7	2615.2	4298.9	A_2	4299
##	1515	3361.20	4699.1	2547.6	4310.5	A_2	4311
##	1516	3328.41	4740.1	2522.7	4328.7	A_2	4329
##	1517	3348.90	4752.3	2514.7	4346.1	A_2	4347
##	1518	3366.87	4781.1	2533.6	4387.7	A_2	4387
##	1519	3396.49	4836.1	2539.8	4388.5	A_2	4389
##	1520	3357.57	4772.3	2536.3	4369.7	A_2	4369

## 1521	3372.96	4793.3	2550.3	4389.7	A_2	4389
## 1522	3425.86	4855.1	2602.9	4433.2	A_2	4433
## 1523	3438.09	4897.6	2639.5	4436.0	A_2	4437
## 1524	3438.09	4897.6	2639.5	4445.0	A_2	4445
## 1525	3491.08	4953.5	2655.3	4455.6	A_2	4455
## 1526	3565.69	5029.6	2672.8	4455.6	A_2	4455
## 1527	3548.52	4988.4	2651.9	4519.3	A_2	4519
## 1528	3537.45	5016.0	2643.3	4537.5	A_2	4537
## 1529	3537.45	5016.0	2643.3	4580.4	A_2	4581
## 1530	3533.21	5004.7	2633.9	4630.9	A_2	4631
## 1531	3593.14	5042.5	2693.1	4669.6	A_2	4669
## 1532	3559.29	5084.2	2719.6	4691.0	A_2	4691
## 1533	3588.57	5134.3	2774.6	4686.9	A_2	4687
## 1534	3564.85	5141.7	2776.0	4681.2	A_2	4681
## 1535	3569.26	5157.5	2784.3	4693.9	A_2	4693
## 1536	3569.26	5157.5	2784.3	4645.2	A_2	4645
## 1537	3516.20	5081.0	2751.1	4607.5	A_2	4607
## 1538	3600.40	5178.6	2786.4	4642.0	A_2	4643
## 1539	3575.44	5176.4	2741.7	4651.8	A_2	4651
## 1540	3621.72	5181.0	2762.9	4661.8	A_2	4661
## 1541	3669.31	5196.7	2654.7	4661.8	A_2	4661
## 1542	3665.43	5190.0	2680.3	4681.6	A_2	4681
## 1543	3626.60	5133.1	2583.2	4677.5	A_2	4677
## 1544	3635.38	5132.1	2579.2	4672.3	A_2	4673
## 1545	3562.73	5041.6	2583.9	4621.3	A_2	4621
## 1546	3596.40	5150.0	2601.5	4562.8	A_2	4563
## 1547	3655.59	5207.2	2624.5	4557.8	A_2	4557
## 1548	3651.59	5238.5	2635.4	4557.1	A_2	4557
## 1549	3684.60	5251.2	2690.9	4576.2	A_2	4577
## 1550	3700.53	5320.0	2719.3	4645.0	A_2	4645
## 1551	3668.61	5368.8	2686.2	4686.7	A_2	4687
## 1552	3671.16	5361.9	2664.2	4739.6	A_2	4739
## 1553	3671.87	5308.6	2696.2	4724.8	A_2	4725
## 1554	3737.16	5364.2	2760.3	4757.4	A_2	4757
## 1555	3752.37	5384.6	2808.5	4783.1	A_2	4783
## 1556	3750.02	5362.0	2795.9	4745.1	A_2	4745
## 1557	3721.18	5345.9	2762.6	4682.2	A_2	4683
## 1558	3730.56	5405.0	2751.7	4657.0	A_2	4657
## 1559	3777.56	5510.3	2739.7	4653.7	A_2	4653
## 1560	3788.54	5561.8	2757.1	4593.9	A_2	4593
## 1561	3748.79	5587.8	2762.2	4575.8	A_2	4575
## 1562	3761.07	5576.1	2784.8	4596.3	A_2	4597
## 1563	3819.52	5662.4	2867.4	4640.0	A_2	4641
## 1564	3820.16	5669.9	2893.6	4657.9	A_2	4657
## 1565	3809.92	5700.3	2891.0	4640.3	A_2	4641
## 1566	3766.89	5620.6	2858.3	4604.6	A_2	4605
## 1567	3834.84	5654.8	2944.0	4728.3	A_2	4729
## 1568	3867.53	5674.3	2909.5	4751.4	A_2	4751
## 1569	3939.73	5804.9	2937.0	4831.7	A_2	4831
## 1570	3946.73	5846.5	2934.5	4812.8	A_2	4813
## 1571	4003.35	5947.0	2947.7	4810.7	A_2	4811
## 1572	4030.10	6012.6	2929.8	4758.5	A_2	4759
## 1573	4026.97	5977.1	2950.6	4762.4	A_2	4763
## 1574	4000.65	5885.4	2929.1	4767.8	A_2	4767

##	1575	4074.30	5801.5	2941.6	4799.5	A_2	4799
##	1576	4142.19	5845.8	2941.6	4857.4	A_2	4857
##	1577	4139.68	5844.7	2950.7	4899.3	A_2	4899
##	1578	4223.69	5927.5	2988.0	4964.2	A_2	4965
##	1579	4203.91	5868.3	2958.6	4949.0	A_2	4949
##	1580	4131.94	5737.1	2876.7	4877.2	A_2	4877
##	1581	4139.96	5620.5	2874.1	4805.7	A_2	4805
##	1582	4297.64	5677.1	2921.1	4846.7	A_2	4847
##	1583	4384.82	5869.9	3003.5	4874.5	A_2	4875
##	1584	4320.52	5849.2	2973.5	4862.9	A_2	4863
##	1585	4368.54	5847.0	3025.9	4851.5	A_2	4851
##	1586	4400.30	5888.0	3022.2	4862.6	A_2	4863
##	1587	4377.70	5842.1	3023.6	4876.6	A_2	4877
##	1588	4458.66	5929.5	3069.3	4927.3	A_2	4927
##	1589	4405.52	5898.2	3075.7	4907.5	A_2	4907
##	1590	4336.98	5898.2	3049.5	4899.3	A_2	4899
##	1591	4302.50	5771.0	2992.4	4895.7	A_2	4895
##	1592	4325.86	5765.2	2984.1	4960.6	A_2	4961
##	1593	4364.25	5812.1	3037.1	5026.2	A_2	5027
##	1594	4428.08	5922.1	3056.3	5086.8	A_2	5087
##	1595	4342.31	5864.8	2996.3	5031.3	A_2	5031
##	1596	4333.15	5825.6	2983.4	5031.9	A_2	5031
##	1597	4377.51	5808.4	2998.6	5075.8	A_2	5075
##	1598	4237.06	5682.1	2924.0	5003.6	A_2	5003
##	1599	4195.53	5579.5	2921.8	4991.3	A_2	4991
##	1600	4077.59	5498.5	2921.8	4865.8	A_2	4865
##	1601	4080.55	5405.6	2870.1	4835.0	A_2	4835
##	1602	4190.45	5580.1	2936.2	4914.2	A_2	4915
##	1603	4251.93	5690.1	2979.3	4958.4	A_2	4959
##	1604	4204.81	5668.8	2957.2	4978.0	A_2	4979
##	1605	4090.14	5475.8	2904.2	4901.1	A_2	4901
##	1606	4076.75	5473.9	2898.6	4901.1	A_2	4901
##	1607	3993.70	5363.3	2869.3	4886.3	A_2	4887
##	1608	3992.03	5409.6	2871.7	4906.9	A_2	4907
##	1609	3897.43	5217.3	2828.4	4845.4	A_2	4845
##	1610	3919.79	5216.7	2770.5	4817.5	A_2	4817
##	1611	4001.81	5271.5	2805.8	4870.2	A_2	4871
##	1612	4127.28	5447.5	2921.2	4952.2	A_2	4953
##	1613	4062.13	5478.6	2918.0	4976.9	A_2	4977
##	1614	4093.43	5478.1	2927.0	4991.3	A_2	4991
##	1615	4073.71	5532.9	2924.5	4994.2	A_2	4995
##	1616	4131.26	5505.3	2940.9	4985.2	A_2	4985
##	1617	4104.57	5445.1	2919.7	4950.5	A_2	4951
##	1618	4028.00	5356.7	2874.6	4905.2	A_2	4905
##	1619	3890.24	5280.8	2843.6	4854.8	A_2	4855
##	1620	3796.61	5281.9	2834.1	4848.2	A_2	4849
##	1621	3869.53	5321.7	2898.6	4902.9	A_2	4903
##	1622	3995.69	5417.8	2940.6	4976.4	A_2	4977
##	1623	3970.44	5550.4	2944.0	5013.1	A_2	5013
##	1624	4004.04	5629.0	2978.4	5046.2	A_2	5047
##	1625	3983.06	5611.0	2977.2	5023.8	A_2	5023
##	1626	4096.85	5705.1	3017.5	5075.7	A_2	5075
##	1627	4091.77	5730.4	2997.2	5027.5	A_2	5027
##	1628	4150.95	5732.5	3023.7	5077.2	A_2	5077

##	1629	4104.93	5667.1	3005.4	5065.5	A_2	5065
##	1630	4135.09	5716.6	2985.6	5226.3	A_2	5227
##	1631	4116.52	5691.8	2989.0	5220.3	A_2	5221
##	1632	4154.89	5673.6	3008.3	5244.2	A_2	5245
##	1633	4262.98	5754.7	3054.9	5317.1	A_2	5317
##	1634	4266.17	5825.0	3052.1	5296.1	A_2	5297
##	1635	4266.17	5929.0	3094.0	5330.8	A_2	5331
##	1636	4326.35	5897.4	3078.0	5300.0	A_2	5301
##	1637	4311.13	5846.9	3064.4	5305.6	A_2	5305
##	1638	4267.40	5822.3	3024.1	5262.1	A_2	5263
##	1639	4179.92	5732.2	2960.7	5217.8	A_2	5217
##	1640	4164.62	5699.5	2955.1	5227.3	A_2	5227
##	1641	4225.27	5792.8	3002.9	5300.1	A_2	5301
##	1642	4215.23	5836.3	3002.5	5298.9	A_2	5299
##	1643	4168.62	5815.9	2992.2	5263.7	A_2	5263
##	1644	4149.92	5806.8	2992.9	5287.9	A_2	5287
##	1645	4049.16	5751.6	2958.0	5271.1	A_2	5271
##	1646	4069.25	5777.2	2946.7	5211.0	A_2	5211
##	1647	4172.47	5862.9	2989.9	5225.9	A_2	5225
##	1648	4124.86	5803.2	2958.1	5148.8	A_2	5149
##	1649	3976.38	5651.8	2856.9	4991.5	A_2	4991
##	1650	3981.44	5689.5	2849.0	4970.2	A_2	4971
##	1651	3871.39	5533.5	2769.6	4840.7	A_2	4841
##	1652	3645.69	5279.7	2651.3	4755.4	A_2	4755
##	1653	3806.66	5479.0	2818.0	4871.8	A_2	4871
##	1654	3748.88	5370.9	2739.5	4801.9	A_2	4801
##	1655	3753.66	5467.2	2739.3	4842.3	A_2	4843
##	1656	3847.73	5581.6	2788.0	4906.4	A_2	4907
##	1657	3784.80	5538.2	2774.9	4897.4	A_2	4897
##	1658	3841.39	5601.6	2822.4	4908.3	A_2	4909
##	1659	3813.88	5557.4	2781.8	4863.8	A_2	4863
##	1660	3715.38	5438.6	2707.1	4764.3	A_2	4765
##	1661	3728.37	5459.7	2707.1	4806.8	A_2	4807
##	1662	3734.79	5483.9	2707.1	4793.7	A_2	4793
##	1663	3697.48	5434.0	2694.5	4720.4	A_2	4721
##	1664	3701.94	5418.2	2700.7	4711.0	A_2	4711
##	1665	3676.65	5437.0	2698.9	4741.8	A_2	4741
##	1666	3816.71	5565.0	2773.0	4867.0	A_2	4867
##	1667	3844.14	5574.2	2782.6	4845.4	A_2	4845
##	1668	3876.90	5571.7	2790.6	4830.1	A_2	4831
##	1669	3931.81	5650.4	2821.2	4908.4	A_2	4909
##	1670	3941.91	5725.5	2861.7	4985.8	A_2	4985
##	1671	3832.10	5645.7	2802.5	4898.6	A_2	4899
##	1672	3850.14	5666.3	2786.3	4863.5	A_2	4863
##	1673	3926.93	5738.3	2811.7	4891.2	A_2	4891
##	1674	3961.97	5772.4	2829.0	4889.0	A_2	4889
##	1675	3972.08	5775.9	2854.4	4831.8	A_2	4831
##	1676	4125.92	5875.1	2918.5	4921.8	A_2	4921
##	1677	4096.40	5919.9	2913.1	4977.6	A_2	4977
##	1678	4074.55	5922.7	2902.4	4970.7	A_2	4971
##	1679	4159.72	5969.5	2914.5	5082.3	A_2	5083
##	1680	4191.81	6009.0	2910.1	5142.9	A_2	5143
##	1681	4208.14	6095.3	2932.5	5187.4	A_2	5187
##	1682	4187.13	6103.2	2959.4	5177.1	A_2	5177

## 1683	4116.70	6056.6	2932.2	5130.7	A_2	5131
## 1684	4016.70	6021.8	2828.5	5035.9	A_2	5035
## 1685	4061.91	6018.7	2830.3	5045.2	A_2	5045
## 1686	4029.08	5986.6	2838.3	5121.8	A_2	5121
## 1687	4150.31	6092.7	2912.2	5203.4	A_2	5203
## 1688	4154.57	6122.1	2893.3	5190.8	A_2	5191
## 1689	4162.92	6115.1	2894.5	5168.3	A_2	5169
## 1690	4055.35	5989.9	2822.9	5020.2	A_2	5021
## 1691	4125.54	6049.3	2869.7	5018.2	A_2	5019
## 1692	4132.79	6044.7	2858.1	5049.8	A_2	5049
## 1693	4132.79	6046.7	2874.1	5013.9	A_2	5013
## 1694	4132.79	6046.7	2874.1	5013.9	A_2	5013
## 1695	4132.79	6046.7	2875.1	5013.9	A_2	5013
## 1696	4266.02	6190.4	2939.5	5112.4	A_2	5113
## 1697	4224.30	6267.6	2975.5	5132.3	A_2	5133
## 1698	4224.30	6265.5	2998.9	5135.5	A_2	5135
## 1699	4224.30	6265.5	2998.9	5135.5	A_2	5135
## 1700	4364.32	6265.5	3038.7	5193.5	A_2	5193
## 1701	4416.95	6397.0	3072.8	5262.5	A_2	5263
## 1702	4360.05	6375.7	3037.7	5264.4	A_2	5265
## 1703	4339.98	6390.0	3006.7	5224.1	A_2	5225
## 1704	4293.64	6330.2	2954.9	5237.1	A_2	5237
## 1705	4237.75	6251.8	2919.8	5138.3	A_2	5139
## 1706	4134.64	6062.1	2862.5	5068.8	A_2	5069
## 1707	4150.01	6169.3	2902.9	5083.9	A_2	5083
## 1708	4145.41	6149.8	2919.8	5106.9	A_2	5107
## 1709	4140.22	6148.5	2932.8	5165.8	A_2	5165
## 1710	4216.24	6274.0	2976.1	5263.1	A_2	5263
## 1711	4290.05	6340.4	2987.0	5273.6	A_2	5273
## 1712	4310.83	6397.5	3008.3	5278.2	A_2	5279
## 1713	4250.47	6391.4	2998.1	5272.3	A_2	5273
## 1714	4238.77	6356.1	2988.6	5253.1	A_2	5253
## 1715	4222.16	6391.0	2966.2	5181.4	A_2	5181
## 1716	4266.34	6411.0	3000.5	5237.2	A_2	5237
## 1717	4316.05	6424.0	3052.0	5326.3	A_2	5327
## 1718	4385.29	6508.7	3088.3	5372.6	A_2	5373
## 1719	4444.53	6530.4	3133.8	5422.4	A_2	5423
## 1720	4442.53	6582.6	3172.1	5458.5	A_2	5459
## 1721	4529.88	6688.0	3187.5	5599.0	A_2	5599
## 1722	4529.18	6720.7	3188.4	5612.8	A_2	5613
## 1723	4509.25	6708.9	3166.3	5595.8	A_2	5595
## 1724	4494.72	6772.0	3189.6	5606.4	A_2	5607
## 1725	4536.91	6857.1	3216.7	5629.7	A_2	5629
## 1726	4519.56	6828.4	3220.9	5600.9	A_2	5601
## 1727	4558.62	6860.8	3235.8	5613.3	A_2	5613
## 1728	4552.46	6931.6	3240.0	5607.9	A_2	5607
## 1729	4509.37	6856.0	3178.7	5552.5	A_2	5553
## 1730	4522.42	6898.9	3187.7	5582.3	A_2	5583
## 1731	4535.56	6905.3	3225.1	5619.9	A_2	5619
## 1732	4627.42	6990.5	3280.5	5709.5	A_2	5709
## 1733	4611.66	6966.2	3281.7	5723.4	A_2	5723
## 1734	4581.08	6953.2	3250.6	5718.5	A_2	5719
## 1735	4583.03	6986.7	3262.5	5718.5	A_2	5719
## 1736	4610.66	6986.1	3273.5	5702.8	A_2	5703

## 1737	4604.55	6945.0	3262.3	5651.0	A_2	5651
## 1738	4704.58	7065.4	3348.2	5745.1	A_2	5745
## 1739	4695.78	7118.6	3397.0	5764.8	A_2	5765
## 1740	4693.86	7153.1	3421.9	5767.3	A_2	5767
## 1741	4781.62	7273.0	3446.7	5820.6	A_2	5821
## 1742	4759.62	7259.5	3414.9	5807.7	A_2	5807
## 1743	4690.52	7130.5	3381.3	5733.1	A_2	5733
## 1744	4676.42	7077.3	3395.8	5695.6	A_2	5695
## 1745	4762.71	7197.2	3483.2	5782.9	A_2	5783
## 1746	4828.89	7187.5	3525.9	5818.9	A_2	5819
## 1747	4852.22	7246.5	3521.5	5828.5	A_2	5829
## 1748	4862.41	7276.7	3539.4	5829.8	A_2	5829
## 1749	4838.67	7267.9	3526.6	5794.8	A_2	5795
## 1750	4872.24	7328.0	3540.2	5782.3	A_2	5783
## 1751	4905.59	7261.2	3598.3	5785.1	A_2	5785
## 1752	4945.91	7236.5	3661.3	5834.9	A_2	5835
## 1753	4908.55	7132.4	3652.5	5903.6	A_2	5903
## 1754	4949.91	7143.8	3688.7	5997.9	A_2	5997
## 1755	5045.16	7300.5	3688.9	5956.3	A_2	5957
## 1756	5014.13	7341.0	3680.1	5947.0	A_2	5947
## 1757	5064.35	7407.4	3738.5	5983.7	A_2	5983
## 1758	5114.13	7472.1	3818.7	5967.8	A_2	5967
## 1759	5029.00	7415.9	3783.8	5905.6	A_2	5905
## 1760	5066.90	7530.3	3810.2	5939.3	A_2	5939
## 1761	5069.89	7536.3	3800.2	5911.9	A_2	5911
## 1762	5097.25	7585.5	3875.3	5932.2	A_2	5933
## 1763	5135.35	7615.5	3883.3	6017.6	A_2	6017
## 1764	5179.04	7638.8	3935.9	6052.8	A_2	6053
## 1765	5254.32	7725.9	3932.0	6064.2	A_2	6065
## 1766	5345.89	7827.7	3986.8	6105.8	A_2	6105
## 1767	5309.67	7744.3	3903.3	6094.0	A_2	6095
## 1768	5267.35	7588.1	3873.9	6055.2	A_2	6055
## 1769	5312.25	7624.1	3894.5	6105.5	A_2	6105
## 1770	5312.25	7624.1	3894.5	6105.5	A_2	6105
## 1771	5312.25	7624.1	3894.5	6105.5	A_2	6105
## 1772	5367.98	7662.9	3867.7	6104.1	A_2	6105
## 1773	5359.24	7616.3	3884.6	6074.1	A_2	6075
## 1774	5292.97	7500.1	3845.9	6002.0	A_2	6003
## 1775	5326.63	7453.7	3861.6	5922.2	A_2	5923
## 1776	5407.93	7500.1	3885.7	5954.1	A_2	5955
## 1777	5373.80	7369.1	3860.4	5955.0	A_2	5955
## 1778	5312.28	7308.9	3835.1	5931.1	A_2	5931
## 1779	5262.57	7265.5	3822.1	5898.1	A_2	5899
## 1780	5144.42	7232.3	3788.7	5863.9	A_2	5863
## 1781	5002.71	7053.5	3689.4	5722.4	A_2	5723
## 1782	5110.88	7180.1	3777.2	5806.6	A_2	5807
## 1783	5083.80	7241.8	3726.2	5833.1	A_2	5833
## 1784	5241.23	7401.4	3867.9	5928.3	A_2	5929
## 1785	5241.23	7401.4	3867.9	6011.3	A_2	6011
## 1786	5337.75	7640.8	3979.3	6011.3	A_2	6011
## 1787	5226.20	7596.2	3945.5	5986.5	A_2	5987
## 1788	5264.62	7610.8	3947.5	5992.4	A_2	5993
## 1789	5164.89	7536.0	3912.8	5938.0	A_2	5939
## 1790	5270.61	7587.1	3912.8	5969.8	A_2	5969

## 1791	5348.75	7677.5	4007.3	6028.3	A_2	6029
## 1792	5307.82	7627.3	3986.1	5956.7	A_2	5957
## 1793	5371.99	7582.8	4018.5	5972.9	A_2	5973
## 1794	5374.11	7550.6	4012.0	5948.5	A_2	5949
## 1795	5414.31	7519.4	3990.2	5917.8	A_2	5917
## 1796	5343.66	7371.4	3945.3	5826.2	A_2	5827
## 1797	5441.00	7483.2	3980.8	5877.8	A_2	5877
## 1798	5514.51	7495.8	4047.9	5907.4	A_2	5907
## 1799	5514.51	7495.8	4047.9	5935.6	A_2	5935
## 1800	5530.19	7542.7	4049.8	5955.6	A_2	5955
## 1801	5592.46	7657.1	4108.7	5955.6	A_2	5955
## 1802	5639.89	7731.9	4115.9	5970.7	A_2	5971
## 1803	5466.88	7633.5	4017.4	5870.2	A_2	5871
## 1804	5507.36	7605.0	4014.9	5862.3	A_2	5863
## 1805	5556.99	7656.1	4041.2	5870.7	A_2	5871
## 1806	5556.99	7656.1	4041.2	5837.9	A_2	5837
## 1807	5583.83	7657.5	4087.0	5842.3	A_2	5843
## 1808	5640.42	7676.3	4149.4	5898.4	A_2	5899
## 1809	5605.38	7592.9	4119.0	5860.8	A_2	5861
## 1810	5724.75	7699.5	4185.1	5947.3	A_2	5947
## 1811	5787.05	7743.4	4204.6	6037.8	A_2	6037
## 1812	5773.77	7716.8	4201.9	6019.8	A_2	6019
## 1813	5799.22	7652.6	4208.6	5987.4	A_2	5987
## 1814	5799.22	7498.4	4141.6	5852.5	A_2	5853
## 1815	5631.34	7417.4	4050.8	5769.8	A_2	5769
## 1816	5581.24	7342.7	4005.3	5715.7	A_2	5715
## 1817	5621.71	7388.7	4013.3	5729.7	A_2	5729
## 1818	5742.83	7562.7	4092.9	5832.7	A_2	5833
## 1819	5689.89	7488.0	4052.3	5812.1	A_2	5813
## 1820	5644.22	7518.6	4027.3	5748.1	A_2	5749
## 1821	5648.11	7511.8	4018.6	5712.4	A_2	5713
## 1822	5748.34	7624.8	4065.0	5772.0	A_2	5773
## 1823	5784.40	7667.9	4126.3	5804.9	A_2	5805
## 1824	5886.72	7794.7	4203.8	5858.9	A_2	5859
## 1825	5870.49	7816.9	4215.7	5877.4	A_2	5877
## 1826	5933.73	7881.9	4248.2	5884.5	A_2	5885
## 1827	5841.83	7882.0	4203.5	5832.5	A_2	5833
## 1828	5910.51	8038.2	4260.7	5919.9	A_2	5919
## 1829	5905.15	8047.3	4252.1	5960.2	A_2	5961
## 1830	5961.45	8099.0	4304.4	5988.4	A_2	5989
## 1831	5942.06	8166.0	4311.1	5990.3	A_2	5991
## 1832	5975.88	8160.0	4333.1	6003.4	A_2	6003
## 1833	6018.89	8227.2	4339.9	6009.6	A_2	6009
## 1834	6000.84	8205.0	4319.2	5969.7	A_2	5969
## 1835	6001.24	8192.4	4256.4	5927.9	A_2	5927
## 1836	6023.31	8141.9	4256.4	5958.2	A_2	5959
## 1837	6101.90	8180.5	4256.4	6100.2	A_2	6101
## 1838	6106.10	8158.1	4344.3	6151.5	A_2	6151
## 1839	6108.00	8126.5	4358.1	6116.8	A_2	6117
## 1840	6162.86	8288.2	4388.5	6174.0	A_2	6175
## 1841	6186.09	8400.8	4368.9	6179.0	A_2	6179
## 1842	6184.10	8412.0	4322.1	6132.7	A_2	6133
## 1843	6081.11	8340.7	4220.1	5989.6	A_2	5989
## 1844	6043.82	8229.2	4235.9	5976.2	A_2	5977

```
## 1845 6040.58 8205.7 4205.4 5892.3 A_2 5893
## 1846 5854.35 7998.7 4139.5 5836.1 A_2 5837
## 1847 5867.52 8093.0 4122.4 5835.8 A_2 5835
## 1848 5828.74 8102.7 4139.2 5844.1 A_2 5845
## 1849 5906.33 8205.5 4197.6 5910.7 A_2 5911
## 1850 5861.19 8239.5 4177.3 5837.0 A_2 5837
## 1851 5774.38 8139.2 4095.0 5809.7 A_2 5809
## 1852 5718.70 8170.2 4047.9 5736.1 A_2 5737
## 1853 5614.77 7943.2 3976.4 5632.5 A_2 5633
## 1854 5528.12 7846.2 3968.6 5594.1 A_2 5595
## 1855 5598.32 7952.9 4041.9 5680.4 A_2 5681
## 1856 5460.43 7721.3 3939.5 5587.6 A_2 5587
## 1857 5285.78 7447.9 3846.0 5432.8 A_2 5433
## 1858 5386.94 7607.5 3945.7 5462.2 A_2 5463
## 1859 5355.03 7552.6 3951.7 5399.5 A_2 5399
## 1860 5473.72 7676.3 3995.0 5455.0 A_2 5455
```

7. Create two columns that have the values of the expected opening price for the CAC stocks. Create first column OP1 as a vector with CAC value plus standard deviation of CAC and next column as a vector OP2 with CAC value minus standard deviation of CAC.

```
OP1 <- eustock$CAC + sd(eustock$CAC)
OP2 <- eustock$CAC - sd(eustock$CAC)

eustock$OP1 <- c(OP1)
eustock$OP2 <- c(OP2)
eustock
```

```
##      DAX    SMI    CAC   FTSE CAT_DAX CAT_FTSE      OP1      OP2
## 1  1628.75 1678.1 1772.8 2443.6    A_1    2443 2353.114 1192.486
## 2  1613.63 1688.5 1750.5 2460.2    A_1    2459 2330.814 1170.186
## 3  1606.51 1678.6 1718.0 2448.2    A_1    2447 2298.314 1137.686
## 4  1621.04 1684.1 1708.1 2470.4    A_1    2469 2288.414 1127.786
## 5  1618.16 1686.6 1723.1 2484.7    A_1    2483 2303.414 1142.786
## 6  1610.61 1671.6 1714.3 2466.8    A_1    2465 2294.614 1133.986
## 7  1630.75 1682.9 1734.5 2487.9    A_1    2487 2314.814 1154.186
## 8  1640.17 1703.6 1757.4 2508.4    A_1    2507 2337.714 1177.086
## 9  1635.47 1697.5 1754.0 2510.5    A_1    2509 2334.314 1173.686
## 10 1645.89 1716.3 1754.3 2497.4    A_1    2497 2334.614 1173.986
## 11 1647.84 1723.8 1759.8 2532.5    A_1    2531 2340.114 1179.486
## 12 1638.35 1730.5 1755.5 2556.8    A_1    2555 2335.814 1175.186
## 13 1629.93 1727.4 1758.1 2561.0    A_1    2561 2338.414 1177.786
## 14 1621.49 1733.3 1757.5 2547.3    A_1    2547 2337.814 1177.186
## 15 1624.74 1734.0 1763.5 2541.5    A_1    2541 2343.814 1183.186
## 16 1627.63 1728.3 1762.8 2558.5    A_1    2557 2343.114 1182.486
## 17 1631.99 1737.1 1768.9 2587.9    A_1    2587 2349.214 1188.586
## 18 1621.18 1723.1 1778.1 2580.5    A_1    2579 2358.414 1197.786
## 19 1613.42 1723.6 1780.1 2579.6    A_1    2579 2360.414 1199.786
## 20 1604.95 1719.0 1767.7 2589.3    A_1    2589 2348.014 1187.386
## 21 1605.75 1721.2 1757.9 2595.0    A_1    2595 2338.214 1177.586
## 22 1616.67 1725.3 1756.6 2595.6    A_1    2595 2336.914 1176.286
## 23 1619.29 1727.2 1754.7 2588.8    A_1    2587 2335.014 1174.386
## 24 1620.49 1727.2 1766.8 2591.7    A_1    2591 2347.114 1186.486
```

## 25	1619.67	1731.6	1766.5	2601.7	A_1	2601	2346.814	1186.186
## 26	1623.07	1724.1	1762.2	2585.4	A_1	2585	2342.514	1181.886
## 27	1613.98	1716.9	1759.5	2573.3	A_1	2573	2339.814	1179.186
## 28	1631.87	1723.4	1782.4	2597.4	A_1	2597	2362.714	1202.086
## 29	1630.37	1723.0	1789.5	2600.6	A_1	2599	2369.814	1209.186
## 30	1633.47	1728.4	1783.5	2570.6	A_1	2569	2363.814	1203.186
## 31	1626.55	1722.1	1780.4	2569.4	A_1	2569	2360.714	1200.086
## 32	1650.43	1724.5	1808.8	2584.9	A_1	2583	2389.114	1228.486
## 33	1650.06	1733.6	1820.3	2608.8	A_1	2607	2400.614	1239.986
## 34	1654.11	1739.0	1820.3	2617.2	A_1	2617	2400.614	1239.986
## 35	1653.60	1726.2	1820.3	2621.0	A_1	2621	2400.614	1239.986
## 36	1501.82	1587.4	1687.5	2540.5	A_1	2539	2267.814	1107.186
## 37	1524.28	1630.6	1725.6	2554.5	A_1	2553	2305.914	1145.286
## 38	1603.65	1685.5	1792.9	2601.9	A_1	2601	2373.214	1212.586
## 39	1622.49	1701.3	1819.1	2623.0	A_1	2623	2399.414	1238.786
## 40	1636.68	1718.0	1833.5	2640.7	A_1	2639	2413.814	1253.186
## 41	1652.10	1726.2	1853.4	2640.7	A_1	2639	2433.714	1273.086
## 42	1645.81	1716.6	1849.7	2619.8	A_1	2619	2430.014	1269.386
## 43	1650.36	1725.8	1851.8	2624.2	A_1	2623	2432.114	1271.486
## 44	1651.55	1737.4	1857.7	2638.2	A_1	2637	2438.014	1277.386
## 45	1649.88	1736.6	1864.3	2645.7	A_1	2645	2444.614	1283.986
## 46	1653.52	1732.4	1863.5	2679.6	A_1	2679	2443.814	1283.186
## 47	1657.51	1731.2	1873.2	2669.0	A_1	2669	2453.514	1292.886
## 48	1649.55	1726.9	1860.8	2664.6	A_1	2663	2441.114	1280.486
## 49	1649.09	1727.8	1868.7	2663.3	A_1	2663	2449.014	1288.386
## 50	1646.41	1720.2	1860.4	2667.4	A_1	2667	2440.714	1280.086
## 51	1638.65	1715.4	1855.9	2653.2	A_1	2653	2436.214	1275.586
## 52	1625.80	1708.7	1840.5	2630.8	A_1	2629	2420.814	1260.186
## 53	1628.64	1713.0	1842.6	2626.6	A_1	2625	2422.914	1262.286
## 54	1632.22	1713.5	1861.2	2641.9	A_1	2641	2441.514	1280.886
## 55	1633.65	1718.0	1876.2	2625.8	A_1	2625	2456.514	1295.886
## 56	1631.17	1701.7	1878.3	2606.0	A_1	2605	2458.614	1297.986
## 57	1635.80	1701.7	1878.4	2594.4	A_1	2593	2458.714	1298.086
## 58	1621.27	1684.9	1869.4	2583.6	A_1	2583	2449.714	1289.086
## 59	1624.70	1687.2	1880.4	2588.7	A_1	2587	2460.714	1300.086
## 60	1616.13	1690.6	1885.5	2600.3	A_1	2599	2465.814	1305.186
## 61	1618.12	1684.3	1888.4	2579.5	A_1	2579	2468.714	1308.086
## 62	1627.80	1679.9	1885.2	2576.6	A_1	2575	2465.514	1304.886
## 63	1625.79	1672.9	1877.9	2597.8	A_1	2597	2458.214	1297.586
## 64	1614.80	1663.1	1876.5	2595.6	A_1	2595	2456.814	1296.186
## 65	1612.80	1669.3	1883.8	2599.0	A_1	2599	2464.114	1303.486
## 66	1605.47	1664.7	1880.6	2621.7	A_1	2621	2460.914	1300.286
## 67	1609.32	1672.3	1887.4	2645.6	A_1	2645	2467.714	1307.086
## 68	1607.48	1687.7	1878.3	2644.2	A_1	2643	2458.614	1297.986
## 69	1607.48	1686.8	1867.1	2625.6	A_1	2625	2447.414	1286.786
## 70	1604.89	1686.6	1851.9	2624.6	A_1	2623	2432.214	1271.586
## 71	1589.12	1675.8	1843.6	2596.2	A_1	2595	2423.914	1263.286
## 72	1582.27	1677.4	1848.1	2599.5	A_1	2599	2428.414	1267.786
## 73	1567.99	1673.2	1843.4	2584.1	A_1	2583	2423.714	1263.086
## 74	1568.16	1665.0	1843.6	2570.8	A_1	2569	2423.914	1263.286
## 75	1569.71	1671.3	1833.8	2555.0	A_1	2555	2414.114	1253.486
## 76	1571.74	1672.4	1833.4	2574.5	A_1	2573	2413.714	1253.086
## 77	1585.41	1676.2	1856.9	2576.7	A_1	2575	2437.214	1276.586
## 78	1570.01	1692.6	1863.4	2579.0	A_1	2579	2443.714	1283.086

## 79	1561.89	1696.5	1855.5	2588.7	A_1	2587	2435.814	1275.186
## 80	1565.18	1716.1	1864.2	2601.1	A_1	2601	2444.514	1283.886
## 81	1570.34	1713.3	1846.0	2575.7	A_1	2575	2426.314	1265.686
## 82	1577.00	1705.1	1836.8	2559.5	A_1	2559	2417.114	1256.486
## 83	1590.29	1711.3	1830.4	2561.1	A_1	2561	2410.714	1250.086
## 84	1572.72	1709.8	1831.6	2528.3	A_1	2527	2411.914	1251.286
## 85	1572.07	1688.6	1834.8	2514.7	A_1	2513	2415.114	1254.486
## 86	1579.19	1698.9	1852.1	2558.5	A_1	2557	2432.414	1271.786
## 87	1588.73	1700.0	1849.8	2553.3	A_1	2553	2430.114	1269.486
## 88	1586.01	1693.0	1861.8	2577.1	A_1	2577	2442.114	1281.486
## 89	1579.77	1683.9	1856.7	2566.0	A_1	2565	2437.014	1276.386
## 90	1572.58	1679.2	1856.7	2549.5	A_1	2549	2437.014	1276.386
## 91	1568.09	1673.9	1841.5	2527.8	A_1	2527	2421.814	1261.186
## 92	1578.21	1683.9	1846.9	2540.9	A_1	2539	2427.214	1266.586
## 93	1573.94	1688.4	1836.1	2534.2	A_1	2533	2416.414	1255.786
## 94	1582.06	1693.9	1838.6	2538.0	A_1	2537	2418.914	1258.286
## 95	1610.18	1720.9	1857.6	2559.0	A_1	2559	2437.914	1277.286
## 96	1605.16	1717.9	1857.6	2554.9	A_1	2553	2437.914	1277.286
## 97	1623.84	1733.6	1858.4	2575.5	A_1	2575	2438.714	1278.086
## 98	1615.26	1729.7	1846.8	2546.5	A_1	2545	2427.114	1266.486
## 99	1627.08	1735.6	1868.5	2561.6	A_1	2561	2448.814	1288.186
## 100	1626.97	1734.1	1863.2	2546.6	A_1	2545	2443.514	1282.886
## 101	1605.70	1699.3	1808.3	2502.9	A_1	2501	2388.614	1227.986
## 102	1589.70	1678.6	1765.1	2463.1	A_1	2463	2345.414	1184.786
## 103	1589.70	1675.5	1763.5	2472.6	A_1	2471	2343.814	1183.186
## 104	1603.26	1670.1	1766.0	2463.5	A_1	2463	2346.314	1185.686
## 105	1599.75	1652.2	1741.3	2446.3	A_1	2445	2321.614	1160.986
## 106	1590.86	1635.0	1743.3	2456.2	A_1	2455	2323.614	1162.986
## 107	1603.50	1654.9	1769.0	2471.5	A_1	2471	2349.314	1188.686
## 108	1589.86	1642.0	1757.9	2447.5	A_1	2447	2338.214	1177.586
## 109	1587.92	1638.7	1754.9	2428.6	A_1	2427	2335.214	1174.586
## 110	1571.06	1622.6	1739.7	2420.2	A_1	2419	2320.014	1159.386
## 111	1549.81	1596.1	1708.8	2414.9	A_1	2413	2289.114	1128.486
## 112	1549.36	1612.4	1722.2	2420.2	A_1	2419	2302.514	1141.886
## 113	1554.65	1625.0	1713.9	2423.8	A_1	2423	2294.214	1133.586
## 114	1557.52	1610.5	1703.2	2407.0	A_1	2407	2283.514	1122.886
## 115	1555.31	1606.6	1685.7	2388.7	A_1	2387	2266.014	1105.386
## 116	1559.76	1610.7	1663.4	2409.6	A_1	2409	2243.714	1083.086
## 117	1548.44	1603.1	1636.9	2392.0	A_1	2391	2217.214	1056.586
## 118	1543.99	1591.5	1645.6	2380.2	A_1	2379	2225.914	1065.286
## 119	1550.21	1605.2	1671.6	2423.3	A_1	2423	2251.914	1091.286
## 120	1557.03	1621.4	1688.3	2451.6	A_1	2451	2268.614	1107.986
## 121	1551.78	1622.5	1696.8	2440.8	A_1	2439	2277.114	1116.486
## 122	1562.89	1626.6	1711.7	2432.9	A_1	2431	2292.014	1131.386
## 123	1570.28	1627.4	1706.2	2413.6	A_1	2413	2286.514	1125.886
## 124	1559.26	1614.9	1684.2	2391.6	A_1	2391	2264.514	1103.886
## 125	1545.87	1602.3	1648.5	2358.1	A_1	2357	2228.814	1068.186
## 126	1542.77	1598.3	1633.6	2345.4	A_1	2345	2213.914	1053.286
## 127	1542.77	1627.0	1699.1	2384.4	A_1	2383	2279.414	1118.786
## 128	1542.77	1627.0	1699.1	2384.4	A_1	2383	2279.414	1118.786
## 129	1542.77	1627.0	1722.5	2384.4	A_1	2383	2302.814	1142.186
## 130	1564.27	1655.7	1720.7	2418.7	A_1	2417	2301.014	1140.386
## 131	1577.26	1670.1	1741.9	2420.0	A_1	2419	2322.214	1161.586
## 132	1577.26	1670.1	1765.7	2493.1	A_1	2493	2346.014	1185.386

## 133	1577.26	1670.1	1765.7	2493.1	A_1	2493	2346.014	1185.386
## 134	1598.19	1670.1	1749.9	2492.8	A_1	2491	2330.214	1169.586
## 135	1604.05	1704.0	1770.3	2504.1	A_1	2503	2350.614	1189.986
## 136	1604.69	1711.8	1787.6	2493.2	A_1	2493	2367.914	1207.286
## 137	1593.65	1700.5	1778.7	2482.9	A_1	2481	2359.014	1198.386
## 138	1581.68	1690.3	1785.6	2467.1	A_1	2467	2365.914	1205.286
## 139	1599.14	1715.4	1833.9	2497.9	A_1	2497	2414.214	1253.586
## 140	1613.82	1723.5	1837.4	2477.9	A_1	2477	2417.714	1257.086
## 141	1620.45	1719.4	1824.3	2490.1	A_1	2489	2404.614	1243.986
## 142	1629.51	1734.4	1843.8	2516.3	A_1	2515	2424.114	1263.486
## 143	1663.70	1772.8	1873.6	2537.1	A_1	2537	2453.914	1293.286
## 144	1664.09	1760.3	1860.2	2541.6	A_1	2541	2440.514	1279.886
## 145	1669.29	1747.2	1860.2	2536.7	A_1	2535	2440.514	1279.886
## 146	1685.14	1750.2	1865.9	2544.9	A_1	2543	2446.214	1285.586
## 147	1687.07	1755.3	1867.9	2543.4	A_1	2543	2448.214	1287.586
## 148	1680.13	1754.6	1841.3	2522.0	A_1	2521	2421.614	1260.986
## 149	1671.84	1751.2	1838.7	2525.3	A_1	2525	2419.014	1258.386
## 150	1669.52	1752.5	1849.9	2510.4	A_1	2509	2430.214	1269.586
## 151	1686.71	1769.4	1869.3	2539.9	A_1	2539	2449.614	1288.986
## 152	1685.51	1767.6	1890.6	2552.0	A_1	2551	2470.914	1310.286
## 153	1671.01	1750.0	1879.6	2546.5	A_1	2545	2459.914	1299.286
## 154	1683.06	1747.1	1873.9	2550.8	A_1	2549	2454.214	1293.586
## 155	1685.70	1753.5	1875.3	2571.2	A_1	2571	2455.614	1294.986
## 156	1685.66	1752.8	1857.0	2560.2	A_1	2559	2437.314	1276.686
## 157	1678.77	1752.9	1856.5	2556.8	A_1	2555	2436.814	1276.186
## 158	1685.85	1764.7	1865.8	2547.1	A_1	2547	2446.114	1285.486
## 159	1683.71	1776.8	1860.6	2534.3	A_1	2533	2440.914	1280.286
## 160	1686.59	1779.3	1861.6	2517.2	A_1	2517	2441.914	1281.286
## 161	1683.73	1785.1	1865.6	2538.4	A_1	2537	2445.914	1285.286
## 162	1679.14	1798.2	1864.1	2537.1	A_1	2537	2444.414	1283.786
## 163	1685.03	1794.1	1861.6	2523.7	A_1	2523	2441.914	1281.286
## 164	1680.81	1795.2	1876.5	2522.6	A_1	2521	2456.814	1296.186
## 165	1676.17	1780.4	1865.1	2513.9	A_1	2513	2445.414	1284.786
## 166	1688.46	1789.5	1882.1	2541.0	A_1	2541	2462.414	1301.786
## 167	1696.55	1794.2	1912.2	2555.9	A_1	2555	2492.514	1331.886
## 168	1690.24	1784.4	1915.4	2536.7	A_1	2535	2495.714	1335.086
## 169	1711.35	1800.1	1951.2	2543.4	A_1	2543	2531.514	1370.886
## 170	1711.29	1804.0	1962.4	2542.3	A_1	2541	2542.714	1382.086
## 171	1729.86	1816.2	1976.5	2559.7	A_1	2559	2556.814	1396.186
## 172	1716.63	1810.5	1953.5	2546.8	A_1	2545	2533.814	1373.186
## 173	1743.36	1821.9	1981.3	2565.0	A_1	2565	2561.614	1400.986
## 174	1745.17	1828.2	1985.1	2562.0	A_3	2561	2565.414	1404.786
## 175	1746.76	1840.6	1983.4	2562.1	A_3	2561	2563.714	1403.086
## 176	1749.29	1841.1	1979.7	2554.3	A_3	2553	2560.014	1399.386
## 177	1763.86	1846.3	1983.8	2565.4	A_3	2565	2564.114	1403.486
## 178	1762.27	1850.0	1988.1	2558.4	A_3	2557	2568.414	1407.786
## 179	1762.29	1839.0	1973.0	2538.3	A_3	2537	2553.314	1392.686
## 180	1746.77	1820.2	1966.9	2533.1	A_3	2533	2547.214	1386.586
## 181	1753.50	1815.2	1976.3	2550.7	A_3	2549	2556.614	1395.986
## 182	1753.21	1820.6	1993.9	2574.8	A_3	2573	2574.214	1413.586
## 183	1739.88	1807.1	1968.0	2522.4	A_1	2521	2548.314	1387.686
## 184	1723.92	1791.4	1941.8	2493.3	A_1	2493	2522.114	1361.486
## 185	1734.42	1806.2	1947.1	2476.0	A_1	2475	2527.414	1366.786
## 186	1723.13	1798.7	1929.2	2470.7	A_1	2469	2509.514	1348.886

## 187	1732.92	1818.2	1943.6	2491.2	A_1	2491	2523.914	1363.286
## 188	1729.89	1820.5	1928.2	2464.7	A_1	2463	2508.514	1347.886
## 189	1725.74	1833.3	1922.0	2467.6	A_1	2467	2502.314	1341.686
## 190	1730.90	1837.1	1919.1	2456.6	A_1	2455	2499.414	1338.786
## 191	1714.17	1818.2	1884.6	2441.0	A_1	2441	2464.914	1304.286
## 192	1716.20	1824.1	1896.3	2458.7	A_1	2457	2476.614	1315.986
## 193	1719.06	1830.1	1928.3	2464.9	A_1	2463	2508.614	1347.986
## 194	1718.21	1835.6	1934.8	2472.2	A_1	2471	2515.114	1354.486
## 195	1698.84	1828.7	1923.5	2447.9	A_1	2447	2503.814	1343.186
## 196	1714.76	1839.2	1943.8	2452.9	A_1	2451	2524.114	1363.486
## 197	1718.35	1837.2	1942.4	2440.1	A_1	2439	2522.714	1362.086
## 198	1706.69	1826.7	1928.1	2408.6	A_1	2407	2508.414	1347.786
## 199	1723.37	1838.0	1942.0	2405.4	A_1	2405	2522.314	1361.686
## 200	1716.18	1829.1	1942.7	2382.7	A_1	2381	2523.014	1362.386
## 201	1738.78	1843.1	1974.8	2400.9	A_1	2399	2555.114	1394.486
## 202	1737.41	1850.5	1975.4	2404.2	A_1	2403	2555.714	1395.086
## 203	1714.77	1827.1	1907.5	2393.2	A_1	2393	2487.814	1327.186
## 204	1724.24	1829.1	1943.6	2436.4	A_1	2435	2523.914	1363.286
## 205	1733.77	1848.0	1974.1	2572.6	A_1	2571	2554.414	1393.786
## 206	1729.96	1840.5	1963.3	2591.0	A_1	2591	2543.614	1382.986
## 207	1734.46	1853.8	1972.3	2600.5	A_1	2599	2552.614	1391.986
## 208	1744.35	1874.1	1990.7	2640.2	A_3	2639	2571.014	1410.386
## 209	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886
## 210	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886
## 211	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886
## 212	1747.47	1860.5	1980.4	2625.8	A_3	2625	2560.714	1400.086
## 213	1753.10	1874.7	1983.7	2607.8	A_3	2607	2564.014	1403.386
## 214	1745.17	1880.1	1978.1	2609.8	A_3	2609	2558.414	1397.786
## 215	1745.72	1874.7	1984.9	2643.0	A_3	2643	2565.214	1404.586
## 216	1742.92	1875.6	1995.7	2658.2	A_1	2657	2576.014	1415.386
## 217	1731.68	1859.5	2006.6	2651.0	A_1	2651	2586.914	1426.286
## 218	1731.18	1874.2	2036.7	2664.9	A_1	2663	2617.014	1456.386
## 219	1728.09	1880.1	2031.1	2654.1	A_1	2653	2611.414	1450.786
## 220	1728.09	1880.1	2031.1	2659.8	A_1	2659	2611.414	1450.786
## 221	1731.29	1907.7	2041.6	2659.8	A_1	2659	2621.914	1461.286
## 222	1733.82	1920.5	2046.9	2662.2	A_1	2661	2627.214	1466.586
## 223	1745.78	1937.3	2047.2	2698.7	A_3	2697	2627.514	1466.886
## 224	1752.57	1936.8	2063.4	2701.9	A_3	2701	2643.714	1483.086
## 225	1748.13	1949.1	2063.4	2725.7	A_3	2725	2643.714	1483.086
## 226	1750.70	1963.7	2077.5	2737.8	A_3	2737	2657.814	1497.186
## 227	1747.91	1950.8	2063.6	2722.4	A_3	2721	2643.914	1483.286
## 228	1745.79	1953.5	2053.2	2720.5	A_3	2719	2633.514	1472.886
## 229	1735.34	1945.0	2017.0	2694.7	A_1	2693	2597.314	1436.686
## 230	1719.92	1921.1	2024.0	2682.6	A_1	2681	2604.314	1443.686
## 231	1763.59	1939.1	2051.6	2703.6	A_3	2703	2631.914	1471.286
## 232	1766.76	1928.0	2023.1	2700.6	A_3	2699	2603.414	1442.786
## 233	1785.40	1933.4	2030.8	2711.9	A_3	2711	2611.114	1450.486
## 234	1783.56	1925.7	2016.8	2702.0	A_3	2701	2597.114	1436.486
## 235	1804.42	1931.7	2045.1	2715.0	A_3	2715	2625.414	1464.786
## 236	1812.33	1928.7	2046.3	2715.0	A_3	2715	2626.614	1465.986
## 237	1799.51	1924.5	2029.6	2704.6	A_3	2703	2609.914	1449.286
## 238	1792.80	1914.2	2014.1	2698.6	A_3	2697	2594.414	1433.786
## 239	1792.80	1914.2	2014.1	2694.2	A_3	2693	2594.414	1433.786
## 240	1806.36	1920.6	2033.3	2707.6	A_3	2707	2613.614	1452.986

## 241	1798.23	1923.3	2017.4	2697.6	A_3	2697	2597.714	1437.086
## 242	1800.62	1930.4	2024.9	2705.9	A_3	2705	2605.214	1444.586
## 243	1786.19	1915.2	1992.6	2680.9	A_3	2679	2572.914	1412.286
## 244	1791.35	1916.9	1994.9	2681.9	A_3	2681	2575.214	1414.586
## 245	1789.05	1913.8	1981.6	2668.5	A_3	2667	2561.914	1401.286
## 246	1789.05	1913.8	1981.6	2645.8	A_3	2645	2561.914	1401.286
## 247	1784.71	1899.7	1962.2	2635.4	A_3	2635	2542.514	1381.886
## 248	1789.45	1888.0	1953.7	2636.1	A_3	2635	2534.014	1373.386
## 249	1779.74	1868.8	1928.8	2614.1	A_3	2613	2509.114	1348.486
## 250	1786.97	1879.9	1928.3	2603.7	A_3	2603	2508.614	1347.986
## 251	1773.25	1865.7	1918.1	2593.6	A_3	2593	2498.414	1337.786
## 252	1781.62	1881.3	1931.4	2616.3	A_3	2615	2511.714	1351.086
## 253	1773.75	1873.1	1908.8	2598.4	A_3	2597	2489.114	1328.486
## 254	1773.75	1862.5	1891.8	2562.7	A_3	2561	2472.114	1311.486
## 255	1776.34	1869.3	1913.9	2584.8	A_3	2583	2494.214	1333.586
## 256	1770.72	1846.9	1885.8	2550.3	A_3	2549	2466.114	1305.486
## 257	1772.39	1847.1	1895.8	2560.6	A_3	2559	2476.114	1315.486
## 258	1762.55	1838.3	1899.6	2532.6	A_3	2531	2479.914	1319.286
## 259	1764.35	1845.8	1920.3	2557.3	A_3	2557	2500.614	1339.986
## 260	1752.83	1835.5	1915.3	2534.1	A_3	2533	2495.614	1334.986
## 261	1755.98	1846.6	1907.3	2515.8	A_3	2515	2487.614	1326.986
## 262	1754.95	1854.8	1900.6	2521.2	A_3	2521	2480.914	1320.286
## 263	1759.90	1845.3	1880.9	2493.9	A_3	2493	2461.214	1300.586
## 264	1759.84	1854.5	1873.5	2476.1	A_3	2475	2453.814	1293.186
## 265	1776.50	1870.5	1883.6	2497.1	A_3	2497	2463.914	1303.286
## 266	1769.98	1862.6	1868.5	2469.0	A_3	2469	2448.814	1288.186
## 267	1766.98	1856.6	1879.1	2493.7	A_3	2493	2459.414	1298.786
## 268	1752.29	1837.6	1847.8	2472.6	A_3	2471	2428.114	1267.486
## 269	1760.17	1846.7	1861.8	2497.9	A_3	2497	2442.114	1281.486
## 270	1750.32	1856.5	1859.4	2490.8	A_3	2489	2439.714	1279.086
## 271	1731.44	1841.8	1859.4	2478.3	A_1	2477	2439.714	1279.086
## 272	1735.51	1835.0	1859.4	2484.0	A_1	2483	2439.714	1279.086
## 273	1733.84	1844.4	1853.3	2486.4	A_1	2485	2433.614	1272.986
## 274	1730.78	1838.9	1851.2	2483.4	A_1	2483	2431.514	1270.886
## 275	1699.46	1805.6	1801.8	2431.9	A_1	2431	2382.114	1221.486
## 276	1652.71	1756.6	1767.9	2403.7	A_1	2403	2348.214	1187.586
## 277	1654.09	1786.1	1762.7	2415.6	A_1	2415	2343.014	1182.386
## 278	1636.81	1757.1	1727.5	2387.9	A_1	2387	2307.814	1147.186
## 279	1622.81	1762.8	1734.6	2399.5	A_1	2399	2314.914	1154.286
## 280	1613.36	1756.8	1734.6	2377.2	A_1	2377	2314.914	1154.286
## 281	1617.78	1761.9	1755.4	2348.0	A_1	2347	2335.714	1175.086
## 282	1617.18	1778.5	1769.0	2373.4	A_1	2373	2349.314	1188.686
## 283	1637.62	1812.7	1801.6	2423.2	A_1	2423	2381.914	1221.286
## 284	1622.20	1806.1	1782.6	2411.6	A_1	2411	2362.914	1202.286
## 285	1608.49	1798.1	1754.7	2399.6	A_1	2399	2335.014	1174.386
## 286	1605.11	1794.9	1784.4	2420.2	A_1	2419	2364.714	1204.086
## 287	1609.61	1805.4	1787.6	2407.5	A_1	2407	2367.914	1207.286
## 288	1624.94	1820.3	1798.0	2392.8	A_1	2391	2378.314	1217.686
## 289	1618.07	1819.6	1793.8	2377.6	A_1	2377	2374.114	1213.486
## 290	1611.96	1809.6	1777.3	2350.1	A_1	2349	2357.614	1196.986
## 291	1578.95	1799.9	1755.2	2325.7	A_1	2325	2335.514	1174.886
## 292	1561.39	1800.3	1737.8	2309.6	A_1	2309	2318.114	1157.486
## 293	1547.87	1793.3	1730.1	2303.1	A_1	2303	2310.414	1149.786
## 294	1548.63	1784.8	1722.4	2318.0	A_1	2317	2302.714	1142.086

## 295	1560.16	1791.7	1753.5	2356.8	A_1	2355	2333.814	1173.186
## 296	1554.76	1800.2	1757.3	2376.1	A_1	2375	2337.614	1176.986
## 297	1531.87	1788.6	1736.7	2354.7	A_1	2353	2317.014	1156.386
## 298	1526.14	1775.7	1734.2	2363.5	A_1	2363	2314.514	1153.886
## 299	1509.03	1753.5	1724.2	2359.4	A_1	2359	2304.514	1143.886
## 300	1530.03	1768.2	1744.2	2365.7	A_1	2365	2324.514	1163.886
## 301	1484.97	1727.9	1689.7	2311.1	A_1	2311	2270.014	1109.386
## 302	1464.03	1709.6	1667.7	2281.0	A_1	2281	2248.014	1087.386
## 303	1475.11	1704.6	1667.8	2285.0	A_1	2285	2248.114	1087.486
## 304	1516.12	1740.6	1687.6	2311.6	A_1	2311	2267.914	1107.286
## 305	1519.69	1745.7	1687.5	2312.6	A_1	2311	2267.814	1107.186
## 306	1529.97	1751.7	1684.9	2312.6	A_1	2311	2265.214	1104.586
## 307	1516.44	1747.3	1674.2	2298.4	A_1	2297	2254.514	1093.886
## 308	1515.53	1757.8	1711.4	2313.0	A_1	2313	2291.714	1131.086
## 309	1543.89	1774.2	1780.5	2381.9	A_1	2381	2360.814	1200.186
## 310	1534.72	1774.4	1779.0	2362.2	A_1	2361	2359.314	1198.686
## 311	1538.66	1788.3	1779.3	2372.2	A_1	2371	2359.614	1198.986
## 312	1536.71	1788.0	1763.7	2337.7	A_1	2337	2344.014	1183.386
## 313	1523.83	1779.1	1756.8	2327.5	A_1	2327	2337.114	1176.486
## 314	1527.10	1792.8	1774.2	2340.6	A_1	2339	2354.514	1193.886
## 315	1530.20	1812.0	1802.0	2370.9	A_1	2369	2382.314	1221.686
## 316	1601.50	1872.1	1873.6	2422.1	A_1	2421	2453.914	1293.286
## 317	1580.29	1851.4	1836.2	2370.0	A_1	2369	2416.514	1255.886
## 318	1595.09	1873.4	1859.8	2378.3	A_1	2377	2440.114	1279.486
## 319	1579.47	1889.6	1852.7	2483.9	A_1	2483	2433.014	1272.386
## 320	1600.59	1897.5	1882.9	2567.0	A_1	2567	2463.214	1302.586
## 321	1566.00	1888.8	1826.1	2560.1	A_1	2559	2406.414	1245.786
## 322	1557.01	1900.4	1832.8	2586.0	A_1	2585	2413.114	1252.486
## 323	1542.74	1913.4	1828.9	2580.5	A_1	2579	2409.214	1248.586
## 324	1536.30	1909.9	1829.5	2621.2	A_1	2621	2409.814	1249.186
## 325	1510.66	1910.8	1843.5	2601.0	A_1	2601	2423.814	1263.186
## 326	1481.03	1879.2	1770.3	2560.0	A_1	2559	2350.614	1189.986
## 327	1483.83	1880.2	1731.9	2565.5	A_1	2565	2312.214	1151.586
## 328	1470.09	1878.3	1736.7	2553.0	A_1	2553	2317.014	1156.386
## 329	1484.78	1885.2	1724.0	2572.3	A_1	2571	2304.314	1143.686
## 330	1475.41	1867.6	1683.3	2549.7	A_1	2549	2263.614	1102.986
## 331	1402.34	1788.0	1611.0	2446.3	A_1	2445	2191.314	1030.686
## 332	1421.49	1820.5	1612.5	2488.4	A_1	2487	2192.814	1032.186
## 333	1434.61	1858.2	1654.2	2517.1	A_1	2517	2234.514	1073.886
## 334	1446.32	1870.3	1673.9	2538.8	A_1	2537	2254.214	1093.586
## 335	1437.65	1878.4	1657.3	2541.2	A_1	2541	2237.614	1076.986
## 336	1441.57	1881.5	1655.1	2557.2	A_1	2557	2235.414	1074.786
## 337	1471.64	1893.2	1685.1	2584.7	A_1	2583	2265.414	1104.786
## 338	1453.95	1889.3	1667.9	2574.7	A_1	2573	2248.214	1087.586
## 339	1453.79	1877.3	1650.0	2546.6	A_1	2545	2230.314	1069.686
## 340	1458.02	1884.0	1664.2	2563.9	A_1	2563	2244.514	1083.886
## 341	1479.59	1904.7	1679.1	2562.2	A_1	2561	2259.414	1098.786
## 342	1504.89	1922.7	1731.3	2617.0	A_1	2617	2311.614	1150.986
## 343	1496.54	1908.5	1722.2	2645.7	A_1	2645	2302.514	1141.886
## 344	1511.00	1911.4	1730.7	2658.1	A_1	2657	2311.014	1150.386
## 345	1528.86	1921.1	1766.4	2669.7	A_1	2669	2346.714	1186.086
## 346	1534.02	1930.8	1770.7	2661.6	A_1	2661	2351.014	1190.386
## 347	1536.60	1927.8	1774.5	2669.8	A_1	2669	2354.814	1194.186
## 348	1508.19	1908.3	1749.9	2650.4	A_1	2649	2330.214	1169.586

## 349	1493.54	1905.9	1730.9	2642.3	A_1	2641	2311.214	1150.586
## 350	1489.68	1911.1	1742.4	2658.3	A_1	2657	2322.714	1162.086
## 351	1482.44	1921.6	1742.4	2687.8	A_1	2687	2322.714	1162.086
## 352	1483.34	1933.6	1786.9	2705.6	A_1	2705	2367.214	1206.586
## 353	1470.57	1942.0	1804.1	2691.7	A_1	2691	2384.414	1223.786
## 354	1484.84	1951.5	1804.7	2711.1	A_1	2711	2385.014	1224.386
## 355	1487.71	1955.7	1793.6	2702.7	A_1	2701	2373.914	1213.286
## 356	1508.63	1957.4	1786.7	2695.4	A_1	2695	2367.014	1206.386
## 357	1515.27	1962.3	1798.5	2714.6	A_1	2713	2378.814	1218.186
## 358	1509.84	1946.1	1798.5	2696.8	A_1	2695	2378.814	1218.186
## 359	1542.28	1950.2	1821.5	2726.4	A_1	2725	2401.814	1241.186
## 360	1541.79	1929.7	1796.8	2697.5	A_1	2697	2377.114	1216.486
## 361	1542.48	1913.4	1772.7	2679.6	A_1	2679	2353.014	1192.386
## 362	1550.27	1889.5	1764.4	2679.2	A_1	2679	2344.714	1184.086
## 363	1550.27	1882.8	1759.2	2704.0	A_1	2703	2339.514	1178.886
## 364	1543.37	1895.4	1722.3	2706.2	A_1	2705	2302.614	1141.986
## 365	1547.84	1897.9	1724.2	2732.4	A_1	2731	2304.514	1143.886
## 366	1523.62	1891.5	1674.8	2722.9	A_1	2721	2255.114	1094.486
## 367	1526.68	1880.1	1720.6	2727.1	A_1	2727	2300.914	1140.286
## 368	1513.42	1887.0	1721.0	2709.6	A_1	2709	2301.314	1140.686
## 369	1523.02	1891.4	1739.7	2741.8	A_1	2741	2320.014	1159.386
## 370	1529.69	1914.6	1749.7	2760.1	A_1	2759	2330.014	1169.386
## 371	1545.12	1931.2	1771.4	2778.8	A_1	2777	2351.714	1191.086
## 372	1546.82	1929.2	1792.3	2792.0	A_1	2791	2372.614	1211.986
## 373	1528.12	1924.3	1783.3	2764.1	A_1	2763	2363.614	1202.986
## 374	1530.65	1927.0	1799.4	2771.0	A_1	2771	2379.714	1219.086
## 375	1526.25	1935.0	1781.7	2759.4	A_1	2759	2362.014	1201.386
## 376	1519.48	1955.4	1788.6	2754.5	A_1	2753	2368.914	1208.286
## 377	1506.65	1962.2	1765.9	2769.8	A_1	2769	2346.214	1185.586
## 378	1504.30	1980.7	1791.2	2750.7	A_1	2749	2371.514	1210.886
## 379	1480.65	1987.7	1769.5	2726.5	A_1	2725	2349.814	1189.186
## 380	1476.70	1993.7	1758.7	2716.2	A_1	2715	2339.014	1178.386
## 381	1478.07	2015.7	1738.3	2721.8	A_1	2721	2318.614	1157.986
## 382	1479.62	2005.0	1744.8	2717.9	A_1	2717	2325.114	1164.486
## 383	1477.55	2023.9	1736.7	2732.8	A_1	2731	2317.014	1156.386
## 384	1472.59	2028.5	1735.2	2740.3	A_1	2739	2315.514	1154.886
## 385	1495.60	2044.9	1760.1	2789.7	A_1	2789	2340.414	1179.786
## 386	1517.45	2045.8	1786.3	2807.7	A_1	2807	2366.614	1205.986
## 387	1520.93	2057.3	1824.4	2842.0	A_1	2841	2404.714	1244.086
## 388	1527.06	2061.7	1821.1	2827.4	A_1	2827	2401.414	1240.786
## 389	1527.06	2061.7	1854.6	2827.5	A_1	2827	2434.914	1274.286
## 390	1527.06	2061.7	1854.6	2827.5	A_1	2827	2434.914	1274.286
## 391	1547.51	2092.3	1857.5	2827.5	A_1	2827	2437.814	1277.186
## 392	1545.82	2090.1	1870.3	2847.8	A_1	2847	2450.614	1289.986
## 393	1538.43	2105.4	1858.8	2832.5	A_1	2831	2439.114	1278.486
## 394	1538.43	2105.4	1857.8	2846.5	A_1	2845	2438.114	1277.486
## 395	1538.43	2105.4	1857.8	2846.5	A_1	2845	2438.114	1277.486
## 396	1538.04	2117.7	1843.1	2861.5	A_1	2861	2423.414	1262.786
## 397	1554.03	2128.2	1850.8	2833.6	A_1	2833	2431.114	1270.486
## 398	1551.17	2124.7	1859.6	2826.0	A_1	2825	2439.914	1279.286
## 399	1538.37	2079.9	1844.5	2816.5	A_1	2815	2424.814	1264.186
## 400	1529.10	2074.9	1852.6	2799.2	A_1	2799	2432.914	1272.286
## 401	1522.26	2046.4	1814.6	2773.4	A_1	2773	2394.914	1234.286
## 402	1533.79	2079.8	1796.8	2757.9	A_1	2757	2377.114	1216.486

## 403	1510.18	2076.7	1782.5	2745.3	A_1	2745	2362.814	1202.186
## 404	1526.91	2104.5	1803.5	2759.2	A_1	2759	2383.814	1223.186
## 405	1555.52	2101.3	1827.1	2765.1	A_1	2765	2407.414	1246.786
## 406	1581.49	2084.0	1837.5	2763.1	A_1	2763	2417.814	1257.186
## 407	1572.61	2063.9	1837.7	2737.6	A_1	2737	2418.014	1257.386
## 408	1572.69	2062.7	1818.8	2748.7	A_1	2747	2399.114	1238.486
## 409	1580.64	2089.9	1812.2	2773.3	A_1	2773	2392.514	1231.886
## 410	1593.35	2102.9	1820.4	2781.2	A_1	2781	2400.714	1240.086
## 411	1571.28	2086.0	1779.9	2771.9	A_1	2771	2360.214	1199.586
## 412	1575.59	2085.9	1792.6	2835.7	A_1	2835	2372.914	1212.286
## 413	1561.78	2064.1	1777.4	2832.5	A_1	2831	2357.714	1197.086
## 414	1572.68	2072.7	1780.6	2816.9	A_1	2815	2360.914	1200.286
## 415	1574.04	2091.0	1772.2	2807.2	A_1	2807	2352.514	1191.886
## 416	1590.33	2120.2	1785.9	2851.6	A_1	2851	2366.214	1205.586
## 417	1584.14	2120.4	1787.3	2834.4	A_1	2833	2367.614	1206.986
## 418	1605.91	2117.6	1824.1	2873.8	A_1	2873	2404.414	1243.786
## 419	1615.98	2123.7	1854.4	2865.9	A_1	2865	2434.714	1274.086
## 420	1643.83	2132.2	1908.2	2862.9	A_1	2861	2488.514	1327.886
## 421	1646.85	2137.0	1904.7	2870.0	A_1	2869	2485.014	1324.386
## 422	1639.12	2134.8	1894.1	2831.3	A_1	2831	2474.414	1313.786
## 423	1642.80	2121.4	1893.3	2816.4	A_1	2815	2473.614	1312.986
## 424	1659.07	2127.5	1905.6	2834.3	A_1	2833	2485.914	1325.286
## 425	1649.64	2135.5	1912.0	2843.0	A_1	2843	2492.314	1331.686
## 426	1674.93	2144.8	1899.5	2845.9	A_1	2845	2479.814	1319.186
## 427	1651.60	2131.0	1878.2	2812.2	A_1	2811	2458.514	1297.886
## 428	1656.35	2112.9	1905.0	2814.0	A_1	2813	2485.314	1324.686
## 429	1670.90	2131.3	1926.5	2837.7	A_1	2837	2506.814	1346.186
## 430	1683.30	2117.8	1937.2	2840.0	A_1	2839	2517.514	1356.886
## 431	1679.41	2096.1	1959.2	2838.3	A_1	2837	2539.514	1378.886
## 432	1658.09	2051.5	1944.1	2818.0	A_1	2817	2524.414	1363.786
## 433	1652.92	2065.7	1953.4	2817.0	A_1	2817	2533.714	1373.086
## 434	1661.96	2061.0	1944.6	2828.7	A_1	2827	2524.914	1364.286
## 435	1680.02	2100.6	1983.7	2868.0	A_1	2867	2564.014	1403.386
## 436	1691.37	2120.5	1998.8	2882.6	A_1	2881	2579.114	1418.486
## 437	1701.46	2130.9	2001.5	2882.3	A_1	2881	2581.814	1421.186
## 438	1690.48	2142.4	1995.2	2918.6	A_1	2917	2575.514	1414.886
## 439	1685.46	2139.5	1986.8	2904.8	A_1	2903	2567.114	1406.486
## 440	1686.15	2134.6	1995.1	2916.6	A_1	2915	2575.414	1414.786
## 441	1702.27	2132.2	2004.3	2957.3	A_1	2957	2584.614	1423.986
## 442	1711.91	2150.1	2009.7	2949.9	A_1	2949	2590.014	1429.386
## 443	1714.48	2157.0	1992.4	2956.7	A_1	2955	2572.714	1412.086
## 444	1708.65	2165.0	1988.9	2953.4	A_1	2953	2569.214	1408.586
## 445	1688.74	2127.2	1965.2	2915.9	A_1	2915	2545.514	1384.886
## 446	1705.05	2157.2	1986.0	2922.4	A_1	2921	2566.314	1405.686
## 447	1700.28	2150.8	1975.3	2919.3	A_1	2919	2555.614	1394.986
## 448	1689.71	2139.1	1967.3	2889.9	A_1	2889	2547.614	1386.986
## 449	1696.38	2154.7	1963.5	2883.3	A_1	2883	2543.814	1383.186
## 450	1686.57	2182.4	1962.7	2900.1	A_1	2899	2543.014	1382.386
## 451	1656.59	2161.3	1939.3	2863.9	A_1	2863	2519.614	1358.986
## 452	1653.20	2166.3	1952.2	2861.1	A_1	2861	2532.514	1371.886
## 453	1666.72	2146.8	1954.6	2860.6	A_1	2859	2534.914	1374.286
## 454	1663.27	2135.7	2001.4	2852.8	A_1	2851	2581.714	1421.086
## 455	1667.26	2160.9	2025.8	2852.9	A_1	2851	2606.114	1445.486
## 456	1675.18	2175.7	2033.9	2846.5	A_1	2845	2614.214	1453.586

## 457	1686.64	2188.9	2035.9	2861.0	A_1	2861	2616.214	1455.586
## 458	1676.84	2190.3	2031.4	2878.7	A_1	2877	2611.714	1451.086
## 459	1670.04	2188.4	2005.9	2878.4	A_1	2877	2586.214	1425.586
## 460	1657.06	2190.3	1990.8	2869.9	A_1	2869	2571.114	1410.486
## 461	1658.36	2184.0	1974.7	2838.8	A_1	2837	2555.014	1394.386
## 462	1667.64	2196.0	1995.3	2832.2	A_1	2831	2575.614	1414.986
## 463	1654.60	2184.9	1984.0	2822.1	A_1	2821	2564.314	1403.686
## 464	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586
## 465	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586
## 466	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586
## 467	1671.54	2181.7	2018.1	2846.8	A_1	2845	2598.414	1437.786
## 468	1674.95	2165.7	2015.4	2842.1	A_1	2841	2595.714	1435.086
## 469	1674.67	2160.5	1988.6	2839.7	A_1	2839	2568.914	1408.286
## 470	1678.65	2162.9	1986.7	2824.4	A_1	2823	2567.014	1406.386
## 471	1687.14	2166.3	1968.9	2830.0	A_1	2829	2549.214	1388.586
## 472	1680.06	2170.8	1949.3	2856.1	A_1	2855	2529.614	1368.986
## 473	1666.49	2178.1	1931.9	2869.6	A_1	2869	2512.214	1351.586
## 474	1680.01	2177.3	1944.5	2881.1	A_1	2881	2524.814	1364.186
## 475	1656.03	2162.3	1916.6	2843.8	A_1	2843	2496.914	1336.286
## 476	1643.53	2140.4	1911.6	2822.3	A_1	2821	2491.914	1331.286
## 477	1636.59	2124.7	1927.4	2832.7	A_1	2831	2507.714	1347.086
## 478	1630.88	2138.2	1942.5	2797.3	A_1	2797	2522.814	1362.186
## 479	1618.60	2123.2	1920.6	2786.8	A_1	2785	2500.914	1340.286
## 480	1626.83	2129.7	1939.0	2813.1	A_1	2813	2519.314	1358.686
## 481	1632.00	2152.8	1937.0	2813.1	A_1	2813	2517.314	1356.686
## 482	1619.92	2160.0	1923.6	2812.6	A_1	2811	2503.914	1343.286
## 483	1628.88	2165.8	1926.3	2796.5	A_1	2795	2506.614	1345.986
## 484	1617.74	2165.4	1920.5	2786.3	A_1	2785	2500.814	1340.186
## 485	1607.70	2162.6	1878.6	2793.7	A_1	2793	2458.914	1298.286
## 486	1616.45	2179.1	1877.2	2829.7	A_1	2829	2457.514	1296.886
## 487	1613.46	2191.1	1854.5	2836.1	A_1	2835	2434.814	1274.186
## 488	1632.99	2191.5	1872.7	2860.8	A_1	2859	2453.014	1292.386
## 489	1636.02	2183.3	1879.9	2849.3	A_1	2849	2460.214	1299.586
## 490	1632.35	2186.3	1851.7	2847.0	A_1	2847	2432.014	1271.386
## 491	1630.37	2205.2	1835.7	2858.1	A_1	2857	2416.014	1255.386
## 492	1619.26	2227.2	1846.4	2847.3	A_1	2847	2426.714	1266.086
## 493	1606.64	2227.0	1836.8	2819.7	A_1	2819	2417.114	1256.486
## 494	1606.64	2227.0	1836.8	2816.8	A_1	2815	2417.114	1256.486
## 495	1613.98	2232.9	1836.8	2812.2	A_1	2811	2417.114	1256.486
## 496	1608.58	2237.4	1861.4	2825.6	A_1	2825	2441.714	1281.086
## 497	1623.05	2243.5	1891.1	2837.7	A_1	2837	2471.414	1310.786
## 498	1617.18	2247.5	1890.4	2846.9	A_1	2845	2470.714	1310.086
## 499	1633.18	2267.1	1904.6	2855.3	A_1	2855	2484.914	1324.286
## 500	1627.21	2271.6	1888.7	2840.7	A_1	2839	2469.014	1308.386
## 501	1627.21	2271.6	1888.7	2840.7	A_1	2839	2469.014	1308.386
## 502	1625.59	2253.8	1872.8	2849.2	A_1	2849	2453.114	1292.486
## 503	1628.53	2259.8	1875.8	2863.0	A_1	2863	2456.114	1295.486
## 504	1630.56	2269.0	1867.9	2852.8	A_1	2851	2448.214	1287.586
## 505	1638.47	2284.2	1859.7	2829.9	A_1	2829	2440.014	1279.386
## 506	1660.88	2309.7	1887.9	2844.8	A_1	2843	2468.214	1307.586
## 507	1662.28	2294.5	1893.7	2844.4	A_1	2843	2474.014	1313.386
## 508	1679.69	2312.5	1915.2	2866.9	A_1	2865	2495.514	1334.886
## 509	1679.69	2309.2	1911.2	2860.0	A_1	2859	2491.514	1330.886
## 510	1685.85	2308.6	1920.4	2861.8	A_1	2861	2500.714	1340.086

## 511	1686.44	2293.8	1916.8	2885.5	A_1	2885	2497.114	1336.486
## 512	1684.57	2274.0	1897.9	2870.0	A_1	2869	2478.214	1317.586
## 513	1689.93	2294.6	1918.8	2883.0	A_1	2883	2499.114	1338.486
## 514	1681.47	2323.4	1900.3	2875.7	A_1	2875	2480.614	1319.986
## 515	1687.14	2318.0	1910.3	2879.4	A_1	2879	2490.614	1329.986
## 516	1697.26	2329.5	1929.2	2903.4	A_1	2903	2509.514	1348.886
## 517	1698.33	2335.0	1935.3	2907.6	A_1	2907	2515.614	1354.986
## 518	1690.96	2323.9	1942.4	2900.7	A_1	2899	2522.714	1362.086
## 519	1692.16	2335.8	1963.3	2894.7	A_1	2893	2543.614	1382.986
## 520	1699.52	2347.3	1960.8	2887.5	A_1	2887	2541.114	1380.486
## 521	1712.33	2369.8	1991.0	2897.0	A_1	2897	2571.314	1410.686
## 522	1703.05	2371.9	1977.5	2886.0	A_1	2885	2557.814	1397.186
## 523	1700.93	2376.2	1971.9	2900.0	A_1	2899	2552.214	1391.586
## 524	1698.36	2375.5	1960.2	2888.8	A_1	2887	2540.514	1379.886
## 525	1697.39	2368.8	1941.2	2857.7	A_1	2857	2521.514	1360.886
## 526	1694.83	2364.4	1925.4	2838.5	A_1	2837	2505.714	1345.086
## 527	1705.66	2390.9	1935.1	2848.1	A_1	2847	2515.414	1354.786
## 528	1739.48	2372.0	1943.7	2848.3	A_1	2847	2524.014	1363.386
## 529	1798.63	2397.1	1980.4	2845.9	A_3	2845	2560.714	1400.086
## 530	1798.36	2403.0	1985.7	2843.2	A_3	2843	2566.014	1405.386
## 531	1808.74	2408.7	1992.2	2830.9	A_3	2829	2572.514	1411.886
## 532	1806.52	2418.1	1991.2	2837.1	A_3	2837	2571.514	1410.886
## 533	1815.63	2410.5	1991.2	2832.3	A_3	2831	2571.514	1410.886
## 534	1807.12	2399.9	1963.1	2831.7	A_3	2831	2543.414	1382.786
## 535	1829.36	2396.4	1974.9	2833.0	A_3	2833	2555.214	1394.586
## 536	1835.09	2381.8	1981.7	2842.9	A_3	2841	2562.014	1401.386
## 537	1826.45	2324.5	1968.4	2823.9	A_3	2823	2548.714	1388.086
## 538	1821.28	2313.7	1947.5	2814.1	A_3	2813	2527.814	1367.186
## 539	1828.53	2340.2	1965.7	2820.1	A_3	2819	2546.014	1385.386
## 540	1830.61	2350.5	1995.0	2827.7	A_3	2827	2575.314	1414.686
## 541	1859.49	2388.7	2006.2	2844.2	A_3	2843	2586.514	1425.886
## 542	1846.02	2398.0	1998.1	2879.4	A_3	2879	2578.414	1417.786
## 543	1832.20	2408.7	1989.5	2884.2	A_3	2883	2569.814	1409.186
## 544	1823.40	2401.5	2036.0	2917.6	A_3	2917	2616.314	1455.686
## 545	1823.07	2400.9	2085.9	2926.5	A_3	2925	2666.214	1505.586
## 546	1818.10	2400.7	2129.0	2941.7	A_3	2941	2709.314	1548.686
## 547	1857.36	2429.8	2110.6	2945.0	A_3	2945	2690.914	1530.286
## 548	1861.22	2431.5	2101.4	2941.3	A_3	2941	2681.714	1521.086
## 549	1870.80	2424.9	2115.3	2943.4	A_3	2943	2695.614	1534.986
## 550	1878.94	2423.3	2149.8	2969.8	A_3	2969	2730.114	1569.486
## 551	1870.24	2420.5	2138.5	2986.4	A_3	2985	2718.814	1558.186
## 552	1864.51	2384.5	2139.8	2971.6	A_3	2971	2720.114	1559.486
## 553	1894.56	2411.1	2167.4	3006.1	A_3	3005	2747.714	1587.086
## 554	1908.69	2449.5	2161.9	3009.1	A_3	3009	2742.214	1581.586
## 555	1917.69	2461.0	2148.0	3010.1	A_3	3009	2728.314	1567.686
## 556	1903.44	2478.7	2148.0	3008.3	A_3	3007	2728.314	1567.686
## 557	1918.75	2464.9	2136.3	3025.0	A_3	3025	2716.614	1555.986
## 558	1930.29	2488.0	2160.8	3073.6	A_3	3073	2741.114	1580.486
## 559	1937.77	2480.6	2139.2	3065.5	A_3	3065	2719.514	1558.886
## 560	1909.53	2474.5	2128.2	3057.6	A_3	3057	2708.514	1547.886
## 561	1893.48	2467.3	2111.4	3042.0	A_3	3041	2691.714	1531.086
## 562	1907.65	2472.4	2123.4	3049.3	A_3	3049	2703.714	1543.086
## 563	1915.59	2499.7	2159.3	3079.2	A_3	3079	2739.614	1578.986
## 564	1890.58	2475.2	2173.6	3079.2	A_3	3079	2753.914	1593.286

## 565	1909.54	2478.6	2183.9	3100.6	A_3	3099	2764.214	1603.586
## 566	1929.56	2481.0	2205.7	3100.6	A_3	3099	2786.014	1625.386
## 567	1931.88	2488.5	2216.5	3100.0	A_3	3099	2796.814	1636.186
## 568	1923.67	2470.4	2191.9	3085.1	A_3	3085	2772.214	1611.586
## 569	1928.63	2463.8	2185.1	3072.6	A_3	3071	2765.414	1604.786
## 570	1920.43	2438.8	2156.1	3057.3	A_3	3057	2736.414	1575.786
## 571	1911.15	2392.5	2158.0	3055.4	A_3	3055	2738.314	1577.686
## 572	1878.77	2403.4	2137.3	3038.6	A_3	3037	2717.614	1556.986
## 573	1870.32	2397.9	2129.4	3035.4	A_3	3035	2709.714	1549.086
## 574	1870.46	2382.1	2108.8	3031.2	A_3	3031	2689.114	1528.486
## 575	1868.28	2363.6	2108.4	3037.0	A_3	3037	2688.714	1528.086
## 576	1874.38	2365.6	2119.1	3024.8	A_3	3023	2699.414	1538.786
## 577	1869.25	2388.3	2134.1	3028.0	A_3	3027	2714.414	1553.786
## 578	1852.81	2361.8	2078.5	2989.4	A_3	2989	2658.814	1498.186
## 579	1862.62	2374.4	2075.6	3003.9	A_3	3003	2655.914	1495.286
## 580	1884.67	2385.2	2099.5	3005.5	A_3	3005	2679.814	1519.186
## 581	1922.69	2418.4	2107.4	3004.5	A_3	3003	2687.714	1527.086
## 582	1922.05	2431.8	2094.4	3001.6	A_3	3001	2674.714	1514.086
## 583	1899.54	2414.6	2080.0	3007.5	A_3	3007	2660.314	1499.686
## 584	1902.14	2425.8	2057.5	3001.3	A_3	3001	2637.814	1477.186
## 585	1890.18	2445.9	2092.6	3005.2	A_3	3005	2672.914	1512.286
## 586	1914.40	2482.4	2108.6	3026.3	A_3	3025	2688.914	1528.286
## 587	1915.61	2478.3	2120.0	3036.9	A_3	3035	2700.314	1539.686
## 588	1908.97	2485.4	2126.8	3030.1	A_3	3029	2707.114	1546.486
## 589	1910.23	2473.1	2114.6	3037.5	A_3	3037	2694.914	1534.286
## 590	1920.46	2481.6	2116.7	3039.3	A_3	3039	2697.014	1536.386
## 591	1934.99	2490.3	2128.7	3067.7	A_3	3067	2709.014	1548.386
## 592	1973.45	2521.3	2158.8	3085.2	A_3	3085	2739.114	1578.486
## 593	1994.09	2534.8	2164.5	3100.8	A_3	3099	2744.814	1584.186
## 594	1991.95	2528.0	2147.4	3092.4	A_3	3091	2727.714	1567.086
## 595	2015.71	2533.6	2156.4	3108.6	A_3	3107	2736.714	1576.086
## 596	2009.28	2548.5	2138.7	3102.2	A_3	3101	2719.014	1558.386
## 597	2004.11	2552.5	2126.9	3094.7	A_3	3093	2707.214	1546.586
## 598	1999.60	2571.0	2127.3	3080.9	A_3	3079	2707.614	1546.986
## 599	1995.35	2586.4	2113.9	3086.3	A_3	3085	2694.214	1533.586
## 600	2023.26	2612.6	2139.3	3120.8	A_3	3119	2719.614	1558.986
## 601	2032.25	2663.6	2145.0	3137.6	A_3	3137	2725.314	1564.686
## 602	2036.93	2660.7	2147.3	3129.6	A_3	3129	2727.614	1566.986
## 603	2029.87	2668.4	2149.7	3156.3	A_3	3155	2730.014	1569.386
## 604	2048.05	2690.1	2199.7	3188.3	A_3	3187	2780.014	1619.386
## 605	2083.62	2701.4	2231.9	3199.0	A_3	3199	2812.214	1651.586
## 606	2061.18	2685.0	2227.7	3184.8	A_3	3183	2808.014	1647.386
## 607	2048.75	2700.2	2210.4	3165.3	A_3	3165	2790.714	1630.086
## 608	2040.97	2715.9	2192.0	3154.3	A_3	3153	2772.314	1611.686
## 609	2053.66	2720.9	2196.0	3163.0	A_3	3163	2776.314	1615.686
## 610	2064.98	2723.2	2182.0	3171.0	A_3	3171	2762.314	1601.686
## 611	2068.51	2727.1	2182.0	3164.4	A_3	3163	2762.314	1601.686
## 612	2086.40	2742.9	2169.7	3164.1	A_3	3163	2750.014	1589.386
## 613	2086.22	2749.9	2171.2	3162.3	A_3	3161	2751.514	1590.886
## 614	2057.10	2706.6	2136.0	3149.0	A_3	3149	2716.314	1555.686
## 615	2013.65	2654.2	2081.0	3085.6	A_3	3085	2661.314	1500.686
## 616	2007.50	2675.3	2084.8	3077.6	A_3	3077	2665.114	1504.486
## 617	2040.74	2727.1	2112.9	3096.0	A_3	3095	2693.214	1532.586
## 618	2020.11	2742.1	2087.3	3098.5	A_3	3097	2667.614	1506.986

## 619	2021.81	2720.1	2087.3	3099.7	A_3	3099	2667.614	1506.986
## 620	2023.06	2721.1	2096.9	3099.1	A_3	3099	2677.214	1516.586
## 621	2047.20	2717.4	2117.9	3093.3	A_3	3093	2698.214	1537.586
## 622	2070.17	2712.3	2115.9	3097.5	A_3	3097	2696.214	1535.586
## 623	2070.17	2711.1	2148.0	3120.0	A_3	3119	2728.314	1567.686
## 624	2075.99	2727.1	2149.7	3125.5	A_3	3125	2730.014	1569.386
## 625	2072.13	2733.9	2145.2	3108.0	A_3	3107	2725.514	1564.886
## 626	2020.36	2696.5	2082.6	3070.6	A_3	3069	2662.914	1502.286
## 627	2027.99	2702.1	2071.5	3069.3	A_3	3069	2651.814	1491.186
## 628	2036.45	2717.8	2070.6	3067.2	A_3	3067	2650.914	1490.286
## 629	2057.80	2726.8	2118.4	3093.1	A_3	3093	2698.714	1538.086
## 630	2045.25	2741.9	2120.6	3111.4	A_3	3111	2700.914	1540.286
## 631	2052.09	2738.2	2119.3	3135.8	A_3	3135	2699.614	1538.986
## 632	2052.92	2738.5	2110.1	3166.9	A_3	3165	2690.414	1529.786
## 633	2089.77	2774.3	2154.0	3233.2	A_3	3233	2734.314	1573.686
## 634	2099.76	2787.2	2160.5	3223.9	A_3	3223	2740.814	1580.186
## 635	2128.30	2819.0	2188.4	3234.2	A_3	3233	2768.714	1608.086
## 636	2118.01	2836.4	2186.7	3237.3	A_3	3237	2767.014	1606.386
## 637	2127.39	2834.8	2176.1	3237.3	A_3	3237	2756.414	1595.786
## 638	2165.95	2843.8	2205.3	3277.4	A_3	3277	2785.614	1624.986
## 639	2166.58	2858.4	2211.4	3271.6	A_3	3271	2791.714	1631.086
## 640	2165.50	2861.2	2198.1	3261.3	A_3	3261	2778.414	1617.786
## 641	2163.83	2876.9	2196.3	3254.6	A_3	3255	2776.614	1615.986
## 642	2128.07	2867.8	2156.5	3248.4	A_3	3249	2736.814	1576.186
## 643	2129.52	2850.6	2162.6	3278.8	A_3	3279	2742.914	1582.286
## 644	2144.03	2867.7	2160.3	3311.2	A_3	3311	2740.614	1579.986
## 645	2154.76	2889.5	2196.4	3337.1	A_3	3337	2776.714	1616.086
## 646	2188.18	2909.0	2223.5	3364.9	A_3	3365	2803.814	1643.186
## 647	2183.78	2918.0	2215.9	3342.4	A_3	3343	2796.214	1635.586
## 648	2209.17	2942.4	2225.8	3355.7	A_3	3355	2806.114	1645.486
## 649	2227.63	2967.4	2243.0	3396.5	A_3	3397	2823.314	1662.686
## 650	2227.63	2967.4	2251.5	3412.3	A_3	3413	2831.814	1671.186
## 651	2266.70	2972.6	2276.6	3412.3	A_3	3413	2856.914	1696.286
## 652	2236.91	2930.9	2264.6	3412.3	A_3	3413	2844.914	1684.286
## 653	2229.62	2934.2	2281.9	3462.0	A_3	3463	2862.214	1701.586
## 654	2255.29	2957.6	2281.2	3428.8	A_3	3429	2861.514	1700.886
## 655	2255.29	2957.6	2268.2	3418.4	A_3	3419	2848.514	1687.886
## 656	2274.62	2996.2	2290.6	3418.4	A_3	3419	2870.914	1710.286
## 657	2249.85	2999.2	2274.3	3408.5	A_3	3409	2854.614	1693.986
## 658	2233.61	3009.4	2249.6	3379.2	A_3	3379	2829.914	1669.286
## 659	2220.63	3021.9	2275.1	3403.0	A_3	3403	2855.414	1694.786
## 660	2224.95	3042.9	2307.6	3446.0	A_3	3447	2887.914	1727.286
## 661	2225.00	3015.9	2317.3	3440.6	A_3	3441	2897.614	1736.986
## 662	2228.10	3026.6	2331.3	3413.8	A_3	3413	2911.614	1750.986
## 663	2182.06	2999.0	2281.9	3372.0	A_3	3373	2862.214	1701.586
## 664	2142.37	2949.9	2252.2	3360.0	A_3	3361	2832.514	1671.886
## 665	2151.05	2990.6	2262.3	3400.6	A_3	3401	2842.614	1681.986
## 666	2115.56	3011.1	2234.8	3407.8	A_3	3407	2815.114	1654.486
## 667	2130.35	3037.5	2247.4	3437.0	A_3	3437	2827.714	1667.086
## 668	2132.52	3049.4	2274.7	3475.1	A_3	3475	2855.014	1694.386
## 669	2098.36	3045.9	2257.8	3470.0	A_3	3471	2838.114	1677.486
## 670	2073.94	3039.3	2244.0	3484.2	A_3	3485	2824.314	1663.686
## 671	2107.29	3041.3	2274.5	3481.4	A_3	3481	2854.814	1694.186
## 672	2090.78	3066.5	2278.3	3444.0	A_3	3445	2858.614	1697.986

## 673	2128.66	3091.3	2282.4	3436.1	A_3	3437	2862.714	1702.086
## 674	2123.31	3095.2	2281.0	3427.3	A_3	3427	2861.314	1700.686
## 675	2156.61	3140.7	2313.2	3447.4	A_3	3447	2893.514	1732.886
## 676	2192.60	3178.4	2334.4	3491.8	A_3	3491	2914.714	1754.086
## 677	2181.88	3148.7	2331.3	3481.5	A_3	3481	2911.614	1750.986
## 678	2184.05	3169.1	2355.9	3520.3	A_3	3521	2936.214	1775.586
## 679	2137.08	3151.9	2322.0	3491.5	A_3	3491	2902.314	1741.686
## 680	2143.90	3166.6	2329.2	3475.4	A_3	3475	2909.514	1748.886
## 681	2095.11	3089.8	2287.1	3419.1	A_3	3419	2867.414	1706.786
## 682	2099.57	3097.2	2299.9	3440.2	A_3	3441	2880.214	1719.586
## 683	2116.43	3054.2	2302.1	3429.1	A_3	3429	2882.414	1721.786
## 684	2119.69	3012.2	2296.8	3407.0	A_3	3407	2877.114	1716.486
## 685	2108.77	3012.2	2275.1	3378.9	A_3	3379	2855.414	1694.786
## 686	2101.93	2947.1	2281.6	3363.5	A_3	3363	2861.914	1701.286
## 687	2130.71	2947.1	2258.0	3393.2	A_3	3393	2838.314	1677.686
## 688	2135.25	2947.1	2258.0	3417.7	A_3	3417	2838.314	1677.686
## 689	2162.29	3033.4	2281.2	3425.3	A_3	3425	2861.514	1700.886
## 690	2133.85	3025.9	2251.8	3382.6	A_3	3383	2832.114	1671.486
## 691	2108.06	2997.6	2215.2	3350.3	A_3	3351	2795.514	1634.886
## 692	2113.64	2982.8	2226.7	3333.7	A_3	3333	2807.014	1646.386
## 693	2140.25	3027.5	2252.0	3341.9	A_3	3341	2832.314	1671.686
## 694	2082.90	2958.4	2208.3	3267.5	A_3	3267	2788.614	1627.986
## 695	2075.33	2929.3	2199.0	3281.2	A_3	3281	2779.314	1618.686
## 696	2103.24	2888.2	2238.1	3328.1	A_3	3329	2818.414	1657.786
## 697	2057.20	2847.4	2183.1	3270.6	A_3	3271	2763.414	1602.786
## 698	2018.69	2768.5	2144.7	3248.1	A_3	3249	2725.014	1564.386
## 699	2044.45	2803.4	2144.7	3246.5	A_3	3245	2725.014	1564.386
## 700	2076.76	2865.2	2178.7	3278.0	A_3	3279	2759.014	1598.386
## 701	2132.12	2918.7	2219.9	3305.9	A_3	3305	2800.214	1639.586
## 702	2125.47	2902.4	2216.4	3264.4	A_3	3265	2796.714	1636.086
## 703	2118.01	2858.5	2199.7	3246.7	A_3	3245	2780.014	1619.386
## 704	2124.51	2861.2	2184.6	3233.9	A_3	3233	2764.914	1604.286
## 705	2101.89	2831.6	2175.0	3191.9	A_3	3191	2755.314	1594.686
## 706	2169.40	2870.5	2215.0	3233.4	A_3	3233	2795.314	1634.686
## 707	2178.91	2906.9	2258.5	3267.4	A_3	3267	2838.814	1678.186
## 708	2168.11	2887.1	2242.7	3242.9	A_3	3241	2823.014	1662.386
## 709	2160.45	2887.7	2247.8	3255.7	A_3	3255	2828.114	1667.486
## 710	2140.39	2843.5	2221.3	3218.1	A_3	3217	2801.614	1640.986
## 711	2130.55	2804.3	2202.7	3198.0	A_3	3197	2783.014	1622.386
## 712	2141.70	2824.7	2200.7	3201.5	A_3	3201	2781.014	1620.386
## 713	2162.96	2857.0	2200.2	3155.3	A_3	3155	2780.514	1619.886
## 714	2144.36	2850.8	2152.6	3121.7	A_3	3121	2732.914	1572.286
## 715	2144.00	2831.8	2136.6	3129.0	A_3	3129	2716.914	1556.286
## 716	2167.72	2862.4	2144.5	3129.5	A_3	3129	2724.814	1564.186
## 717	2162.82	2827.4	2123.4	3123.4	A_3	3123	2703.714	1543.086
## 718	2151.84	2814.5	2083.9	3092.4	A_3	3091	2664.214	1503.586
## 719	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586
## 720	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586
## 721	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586
## 722	2177.09	2807.3	2100.3	3116.2	A_3	3115	2680.614	1519.986
## 723	2184.89	2830.2	2128.2	3131.5	A_3	3131	2708.514	1547.886
## 724	2202.57	2860.9	2119.6	3129.0	A_3	3129	2699.914	1539.286
## 725	2203.18	2873.4	2114.8	3120.8	A_3	3119	2695.114	1534.486
## 726	2224.85	2884.0	2145.3	3149.4	A_3	3149	2725.614	1564.986

## 727	2211.19	2887.8	2148.6	3159.1	A_3	3159	2728.914	1568.286
## 728	2215.19	2877.7	2152.4	3145.8	A_3	3145	2732.714	1572.086
## 729	2198.24	2843.7	2139.1	3131.7	A_3	3131	2719.414	1558.786
## 730	2211.92	2872.9	2159.6	3168.3	A_3	3167	2739.914	1579.286
## 731	2218.37	2869.1	2160.1	3138.2	A_3	3137	2740.414	1579.786
## 732	2193.89	2837.1	2136.0	3128.0	A_3	3127	2716.314	1555.686
## 733	2194.09	2818.7	2102.7	3098.3	A_3	3097	2683.014	1522.386
## 734	2194.41	2781.6	2092.0	3101.2	A_3	3101	2672.314	1511.686
## 735	2218.13	2787.9	2135.2	3133.7	A_3	3133	2715.514	1554.886
## 736	2208.68	2763.5	2116.3	3106.1	A_3	3105	2696.614	1535.986
## 737	2241.36	2776.2	2130.9	3125.3	A_3	3125	2711.214	1550.586
## 738	2256.98	2791.3	2147.3	3150.0	A_3	3149	2727.614	1566.986
## 739	2237.82	2768.9	2150.3	3129.9	A_3	3129	2730.614	1569.986
## 740	2252.51	2736.3	2166.0	3125.3	A_3	3125	2746.314	1585.686
## 741	2266.72	2765.2	2186.2	3125.3	A_3	3125	2766.514	1605.886
## 742	2261.71	2755.9	2179.0	3100.0	A_3	3099	2759.314	1598.686
## 743	2241.85	2705.6	2141.6	3070.5	A_3	3069	2721.914	1561.286
## 744	2249.78	2682.2	2162.6	3106.0	A_3	3105	2742.914	1582.286
## 745	2233.55	2641.4	2158.2	3106.0	A_3	3105	2738.514	1577.886
## 746	2218.77	2569.5	2139.4	3097.8	A_3	3097	2719.714	1559.086
## 747	2241.34	2629.0	2165.0	3136.3	A_3	3135	2745.314	1584.686
## 748	2248.02	2633.0	2176.7	3130.5	A_3	3129	2757.014	1596.386
## 749	2248.02	2633.0	2176.7	3137.8	A_3	3137	2757.014	1596.386
## 750	2257.33	2678.7	2187.0	3119.2	A_3	3119	2767.314	1606.686
## 751	2272.96	2709.0	2187.8	3115.6	A_3	3115	2768.114	1607.486
## 752	2268.11	2727.1	2195.2	3123.5	A_3	3123	2775.514	1614.886
## 753	2254.21	2740.6	2184.0	3116.5	A_3	3115	2764.314	1603.686
## 754	2245.79	2725.8	2165.4	3122.8	A_3	3121	2745.714	1585.086
## 755	2238.97	2732.7	2155.4	3127.3	A_3	3127	2735.714	1575.086
## 756	2238.97	2732.7	2155.4	3108.4	A_3	3107	2735.714	1575.086
## 757	2188.01	2692.0	2133.3	3089.1	A_3	3089	2713.614	1552.986
## 758	2137.56	2673.1	2084.4	3020.7	A_3	3019	2664.714	1504.086
## 759	2146.00	2689.2	2091.9	3019.7	A_3	3019	2672.214	1511.586
## 760	2112.80	2711.9	2050.7	2966.4	A_3	2965	2631.014	1470.386
## 761	2129.76	2742.9	2052.5	2966.4	A_3	2965	2632.814	1472.186
## 762	2137.34	2722.9	2029.9	2970.5	A_3	2969	2610.214	1449.586
## 763	2113.62	2731.5	1979.7	2931.9	A_3	2931	2560.014	1399.386
## 764	2120.23	2725.9	2007.4	2980.8	A_3	2979	2587.714	1427.086
## 765	2158.88	2728.4	2041.7	2997.8	A_3	2997	2622.014	1461.386
## 766	2163.59	2781.4	2037.2	3009.4	A_3	3009	2617.514	1456.886
## 767	2131.80	2778.1	2023.7	3004.8	A_3	3003	2604.014	1443.386
## 768	2143.93	2801.1	2046.8	3038.2	A_3	3037	2627.114	1466.486
## 769	2131.14	2777.2	2028.4	3028.9	A_3	3027	2608.714	1448.086
## 770	2143.58	2763.8	2020.7	3055.9	A_3	3055	2601.014	1440.386
## 771	2084.42	2744.2	1977.7	3016.3	A_3	3015	2558.014	1397.386
## 772	2088.44	2740.0	1992.0	3039.6	A_3	3039	2572.314	1411.686
## 773	2073.21	2701.8	1966.4	3045.8	A_3	3045	2546.714	1386.086
## 774	2047.29	2666.6	1942.8	3030.1	A_3	3029	2523.114	1362.486
## 775	2031.80	2627.6	1936.0	3022.9	A_3	3021	2516.314	1355.686
## 776	1986.42	2545.0	1903.0	2971.1	A_3	2971	2483.314	1322.686
## 777	1957.08	2544.2	1890.8	2940.2	A_3	2939	2471.114	1310.486
## 778	2004.93	2595.7	1917.0	2960.4	A_3	2959	2497.314	1336.686
## 779	2032.52	2626.7	1939.0	2942.4	A_3	2941	2519.314	1358.686
## 780	2005.07	2577.2	1907.0	2876.6	A_3	2875	2487.314	1326.686

## 781	2000.48	2561.4	1911.6	2899.9	A_3	2899	2491.914	1331.286
## 782	2022.25	2604.4	1925.8	2909.0	A_3	2909	2506.114	1345.486
## 783	2042.45	2631.2	1936.3	2946.3	A_3	2945	2516.614	1355.986
## 784	2020.85	2608.8	1892.0	2919.2	A_3	2919	2472.314	1311.686
## 785	2040.69	2588.9	1872.9	2936.4	A_3	2935	2453.214	1292.586
## 786	2061.70	2636.4	1866.2	2970.4	A_3	2969	2446.514	1285.886
## 787	2034.64	2609.7	1878.7	2965.0	A_3	2965	2459.014	1298.386
## 788	2031.33	2598.9	1889.0	2946.7	A_3	2945	2469.314	1308.686
## 789	2049.10	2590.5	1920.8	2964.4	A_3	2963	2501.114	1340.486
## 790	2047.83	2560.3	1920.8	2962.4	A_3	2961	2501.114	1340.486
## 791	2069.46	2562.5	1949.8	2983.8	A_3	2983	2530.114	1369.486
## 792	2048.57	2508.0	1942.1	2963.9	A_3	2963	2522.414	1361.786
## 793	2051.25	2474.5	1974.6	3005.3	A_3	3005	2554.914	1394.286
## 794	2070.71	2528.3	1974.6	3050.4	A_3	3049	2554.914	1394.286
## 795	2103.54	2514.9	1974.6	3074.8	A_3	3073	2554.914	1394.286
## 796	2116.96	2494.7	2025.1	3082.0	A_3	3081	2605.414	1444.786
## 797	2129.86	2521.6	2052.3	3091.3	A_3	3091	2632.614	1471.986
## 798	2120.97	2562.3	2043.7	3077.2	A_3	3077	2624.014	1463.386
## 799	2126.75	2579.4	2053.8	3095.1	A_3	3095	2634.114	1473.486
## 800	2148.23	2599.2	2041.4	3114.7	A_3	3113	2621.714	1461.086
## 801	2144.21	2601.2	2059.8	3106.1	A_3	3105	2640.114	1479.486
## 802	2163.32	2604.4	2076.8	3117.2	A_3	3117	2657.114	1496.486
## 803	2135.93	2544.9	2055.7	3082.3	A_3	3081	2636.014	1475.386
## 804	2134.12	2559.3	2053.4	3095.9	A_3	3095	2633.714	1473.086
## 805	2152.19	2579.5	2075.0	3082.6	A_3	3081	2655.314	1494.686
## 806	2161.50	2579.5	2069.6	3097.4	A_3	3097	2649.914	1489.286
## 807	2193.63	2629.7	2117.2	3157.5	A_3	3157	2697.514	1536.886
## 808	2190.83	2620.7	2115.0	3160.4	A_3	3159	2695.314	1534.686
## 809	2176.66	2615.3	2096.5	3150.5	A_3	3149	2676.814	1516.186
## 810	2188.81	2600.8	2107.1	3167.5	A_3	3167	2687.414	1526.786
## 811	2182.32	2617.5	2106.3	3171.9	A_3	3171	2686.614	1525.986
## 812	2160.56	2585.5	2074.5	3168.6	A_3	3167	2654.814	1494.186
## 813	2166.51	2591.4	2064.2	3167.0	A_3	3167	2644.514	1483.886
## 814	2156.31	2588.8	2038.9	3138.2	A_3	3137	2619.214	1458.586
## 815	2133.74	2580.5	2007.0	3142.3	A_3	3141	2587.314	1426.686
## 816	2134.34	2570.6	2007.0	3142.2	A_3	3141	2587.314	1426.686
## 817	2152.65	2588.7	2012.4	3147.3	A_3	3147	2592.714	1432.086
## 818	2166.56	2599.3	2035.0	3190.3	A_3	3189	2615.314	1454.686
## 819	2151.44	2582.7	2010.5	3182.6	A_3	3181	2590.814	1430.186
## 820	2143.84	2557.0	2001.3	3191.4	A_3	3191	2581.614	1420.986
## 821	2113.37	2532.4	1972.6	3171.3	A_3	3171	2552.914	1392.286
## 822	2121.25	2530.9	2000.6	3175.1	A_3	3175	2580.914	1420.286
## 823	2132.98	2541.1	2006.3	3205.2	A_3	3205	2586.614	1425.986
## 824	2153.48	2551.1	2026.5	3234.2	A_3	3233	2606.814	1446.186
## 825	2190.58	2581.3	2062.7	3265.1	A_3	3265	2643.014	1482.386
## 826	2215.72	2635.2	2075.3	3265.1	A_3	3265	2655.614	1494.986
## 827	2205.82	2635.7	2060.4	3249.6	A_3	3249	2640.714	1480.086
## 828	2207.09	2645.6	2069.1	3251.3	A_3	3251	2649.414	1488.786
## 829	2185.78	2628.4	2034.9	3216.5	A_3	3215	2615.214	1454.586
## 830	2197.38	2672.0	2020.4	3222.7	A_3	3221	2600.714	1440.086
## 831	2173.60	2674.5	1998.2	3241.5	A_3	3241	2578.514	1417.886
## 832	2158.07	2652.4	1961.5	3205.4	A_3	3205	2541.814	1381.186
## 833	2167.68	2662.5	1964.2	3203.9	A_3	3203	2544.514	1383.886
## 834	2178.10	2664.1	1983.4	3180.0	A_3	3179	2563.714	1403.086

## 835	2155.58	2642.1	1948.8	3139.3	A_3	3139	2529.114	1368.486
## 836	2155.81	2643.0	1966.8	3128.8	A_3	3127	2547.114	1386.486
## 837	2157.15	2658.8	1969.4	3121.4	A_3	3121	2549.714	1389.086
## 838	2118.17	2637.7	1952.9	3079.8	A_3	3079	2533.214	1372.586
## 839	2129.36	2628.6	1977.3	3112.7	A_3	3111	2557.614	1396.986
## 840	2097.45	2603.3	1924.6	3065.1	A_3	3065	2504.914	1344.286
## 841	2100.55	2614.7	1922.9	3079.1	A_3	3079	2503.214	1342.586
## 842	2059.15	2593.0	1919.3	3037.3	A_3	3037	2499.614	1338.986
## 843	2067.17	2594.0	1897.2	3014.8	A_3	3013	2477.514	1316.886
## 844	2072.81	2602.9	1899.4	3021.2	A_3	3021	2479.714	1319.086
## 845	2097.33	2609.1	1927.4	3028.2	A_3	3027	2507.714	1347.086
## 846	2057.83	2586.1	1902.7	2999.8	A_3	2999	2483.014	1322.386
## 847	2056.89	2581.0	1901.3	3008.5	A_3	3007	2481.614	1320.986
## 848	2070.36	2590.0	1905.0	3038.7	A_3	3037	2485.314	1324.686
## 849	2016.08	2558.0	1876.2	2992.5	A_3	2991	2456.514	1295.886
## 850	2002.30	2534.4	1879.3	3026.3	A_3	3025	2459.614	1298.986
## 851	2002.30	2499.5	1852.8	2983.5	A_3	2983	2433.114	1272.486
## 852	1988.67	2522.5	1876.1	3001.8	A_3	3001	2456.414	1295.786
## 853	1946.49	2480.4	1833.7	2956.3	A_3	2955	2414.014	1253.386
## 854	1965.41	2484.8	1843.4	2984.4	A_3	2983	2423.714	1263.086
## 855	1977.67	2496.9	1856.4	2998.7	A_3	2997	2436.714	1276.086
## 856	2048.56	2553.4	1898.3	3032.3	A_3	3031	2478.614	1317.986
## 857	2087.71	2570.2	1919.0	3073.0	A_3	3073	2499.314	1338.686
## 858	2072.68	2562.7	1918.1	3100.5	A_3	3099	2498.414	1337.786
## 859	2108.08	2593.3	1955.6	3141.9	A_3	3141	2535.914	1375.286
## 860	2118.52	2585.3	1933.0	3106.7	A_3	3105	2513.314	1352.686
## 861	2095.58	2575.6	1906.4	3120.2	A_3	3119	2486.714	1326.086
## 862	2069.58	2542.5	1898.6	3085.3	A_3	3085	2478.914	1318.286
## 863	2055.94	2529.8	1876.3	3060.8	A_3	3059	2456.614	1295.986
## 864	2048.15	2530.9	1867.4	3063.2	A_3	3063	2447.714	1287.086
## 865	2016.60	2508.6	1842.1	3032.8	A_3	3031	2422.414	1261.786
## 866	2022.64	2525.2	1841.6	3029.1	A_3	3029	2421.914	1261.286
## 867	1995.85	2494.7	1824.4	3000.9	A_3	2999	2404.714	1244.086
## 868	2009.45	2477.2	1831.5	2999.9	A_3	2999	2411.814	1251.186
## 869	2026.37	2458.6	1858.1	3029.6	A_3	3029	2438.414	1277.786
## 870	2064.86	2490.5	1905.7	3083.8	A_3	3083	2486.014	1325.386
## 871	2061.58	2506.5	1905.7	3097.4	A_3	3097	2486.014	1325.386
## 872	2066.18	2503.9	1905.7	3096.3	A_3	3095	2486.014	1325.386
## 873	2039.91	2500.0	1873.6	3081.3	A_3	3081	2453.914	1293.286
## 874	2061.37	2534.8	1911.1	3104.4	A_3	3103	2491.414	1330.786
## 875	2069.39	2541.0	1931.7	3097.6	A_3	3097	2512.014	1351.386
## 876	2043.30	2557.9	1906.1	3065.8	A_3	3065	2486.414	1325.786
## 877	2056.36	2543.9	1921.5	3063.8	A_3	3063	2501.814	1341.186
## 878	2090.78	2590.4	1943.9	3099.6	A_3	3099	2524.214	1363.586
## 879	2098.04	2602.7	1948.4	3103.5	A_3	3103	2528.714	1368.086
## 880	2073.67	2597.8	1948.4	3075.9	A_3	3075	2528.714	1368.086
## 881	2091.04	2590.9	1941.1	3095.3	A_3	3095	2521.414	1360.786
## 882	2112.21	2591.9	1954.5	3135.4	A_3	3135	2534.814	1374.186
## 883	2112.21	2609.4	1950.2	3146.5	A_3	3145	2530.514	1369.886
## 884	2091.94	2600.9	1927.5	3127.5	A_3	3127	2507.814	1347.186
## 885	2089.48	2606.5	1926.5	3131.0	A_3	3131	2506.814	1346.186
## 886	2097.20	2607.0	1927.8	3121.0	A_3	3121	2508.114	1347.486
## 887	2073.29	2571.8	1911.4	3078.7	A_3	3077	2491.714	1331.086
## 888	2040.05	2546.1	1893.1	3027.5	A_3	3027	2473.414	1312.786

## 889	2058.79	2568.6	1934.7	3036.6	A_3	3035	2515.014	1354.386
## 890	2056.27	2572.5	1945.9	3033.5	A_3	3033	2526.214	1365.586
## 891	2050.82	2579.4	1952.4	3047.1	A_3	3047	2532.714	1372.086
## 892	2036.24	2584.7	1940.0	3061.1	A_3	3061	2520.314	1359.686
## 893	2057.08	2594.9	1975.9	3081.4	A_3	3081	2556.214	1395.586
## 894	2045.54	2576.0	1964.0	3039.6	A_3	3039	2544.314	1383.686
## 895	2042.38	2577.5	1982.7	3017.3	A_3	3017	2563.014	1402.386
## 896	2067.26	2611.0	1973.7	3033.5	A_3	3033	2554.014	1393.386
## 897	2046.99	2589.1	1969.0	3016.1	A_3	3015	2549.314	1388.686
## 898	2044.04	2584.3	1969.8	3012.5	A_3	3011	2550.114	1389.486
## 899	2041.85	2589.3	1954.1	3013.8	A_3	3013	2534.414	1373.786
## 900	2024.19	2576.0	1937.0	2977.3	A_3	2977	2517.314	1356.686
## 901	2003.64	2562.8	1919.3	2943.4	A_3	2943	2499.614	1338.986
## 902	2019.13	2566.0	1917.1	2946.4	A_3	2945	2497.414	1336.786
## 903	2040.94	2581.4	1930.2	2980.6	A_3	2979	2510.514	1349.886
## 904	2054.23	2598.0	1931.1	2973.4	A_3	2973	2511.414	1350.786
## 905	2069.90	2604.7	1924.2	3013.6	A_3	3013	2504.514	1343.886
## 906	2066.59	2600.7	1928.1	3034.4	A_3	3033	2508.414	1347.786
## 907	2080.16	2614.7	1924.7	3058.1	A_3	3057	2505.014	1344.386
## 908	2095.50	2636.1	1940.9	3070.4	A_3	3069	2521.214	1360.586
## 909	2102.25	2649.8	1952.1	3091.7	A_3	3091	2532.414	1371.786
## 910	2100.98	2651.0	1949.9	3083.4	A_3	3083	2530.214	1369.586
## 911	2100.98	2651.0	1966.6	3083.4	A_3	3083	2546.914	1386.286
## 912	2110.77	2673.5	1956.0	3083.4	A_3	3083	2536.314	1375.686
## 913	2097.34	2656.2	1927.8	3095.8	A_3	3095	2508.114	1347.486
## 914	2074.68	2628.8	1894.2	3065.6	A_3	3065	2474.514	1313.886
## 915	2097.51	2628.8	1881.2	3065.5	A_3	3065	2461.514	1300.886
## 916	2079.19	2628.8	1881.2	3065.5	A_3	3065	2461.514	1300.886
## 917	2068.92	2612.3	1885.9	3065.7	A_3	3065	2466.214	1305.586
## 918	2072.90	2632.4	1901.8	3051.6	A_3	3051	2482.114	1321.486
## 919	2051.46	2613.1	1871.5	3032.3	A_3	3031	2451.814	1291.186
## 920	2058.20	2622.3	1886.4	3065.0	A_3	3065	2466.714	1306.086
## 921	2053.41	2617.3	1864.2	3055.8	A_3	3055	2444.514	1283.886
## 922	2062.08	2600.4	1859.2	3060.4	A_3	3059	2439.514	1278.886
## 923	2061.76	2597.0	1849.1	3049.4	A_3	3049	2429.414	1268.786
## 924	2059.68	2600.5	1844.1	3033.2	A_3	3033	2424.414	1263.786
## 925	2064.14	2600.2	1854.0	3048.3	A_3	3047	2434.314	1273.686
## 926	2088.25	2591.6	1872.8	3076.7	A_3	3075	2453.114	1292.486
## 927	2081.39	2582.8	1856.9	3054.0	A_3	3053	2437.214	1276.586
## 928	2085.62	2593.6	1860.3	3054.9	A_3	3053	2440.614	1279.986
## 929	2079.60	2595.5	1837.1	3028.6	A_3	3027	2417.414	1256.786
## 930	2050.86	2574.6	1813.3	2995.9	A_3	2995	2393.614	1232.986
## 931	2013.03	2525.3	1772.8	2954.2	A_3	2953	2353.114	1192.486
## 932	2027.67	2534.8	1780.2	2969.0	A_3	2969	2360.514	1199.886
## 933	2026.97	2525.5	1802.5	2982.2	A_3	2981	2382.814	1222.186
## 934	2040.79	2554.7	1826.3	3007.3	A_3	3007	2406.614	1245.986
## 935	2030.56	2552.4	1814.1	3022.2	A_3	3021	2394.414	1233.786
## 936	2026.68	2540.2	1813.4	2995.9	A_3	2995	2393.714	1233.086
## 937	2024.82	2536.9	1797.9	2991.6	A_3	2991	2378.214	1217.586
## 938	2047.44	2560.8	1827.8	3017.3	A_3	3017	2408.114	1247.486
## 939	2038.46	2563.7	1816.1	3034.7	A_3	3033	2396.414	1235.786
## 940	2077.94	2589.4	1842.4	3059.7	A_3	3059	2422.714	1262.086
## 941	2085.08	2621.4	1872.1	3062.0	A_3	3061	2452.414	1291.786
## 942	2093.01	2628.0	1870.4	3072.7	A_3	3071	2450.714	1290.086

## 943	2087.78	2617.4	1850.9	3072.5	A_3	3071	2431.214	1270.586
## 944	2117.80	2636.9	1874.4	3099.0	A_3	3099	2454.714	1294.086
## 945	2127.56	2635.4	1869.4	3109.9	A_3	3109	2449.714	1289.086
## 946	2118.96	2636.0	1850.1	3081.1	A_3	3081	2430.414	1269.786
## 947	2128.33	2642.4	1856.1	3071.3	A_3	3071	2436.414	1275.786
## 948	2135.49	2636.0	1861.9	3074.9	A_3	3073	2442.214	1281.586
## 949	2112.06	2621.0	1835.0	3051.1	A_3	3051	2415.314	1254.686
## 950	2119.29	2601.0	1822.5	3044.2	A_3	3043	2402.814	1242.186
## 951	2101.98	2597.2	1802.2	3018.6	A_3	3017	2382.514	1221.886
## 952	2101.82	2609.6	1805.6	3023.4	A_3	3023	2385.914	1225.286
## 953	2096.26	2610.0	1804.4	3019.5	A_3	3019	2384.714	1224.086
## 954	2126.44	2632.1	1827.0	3049.3	A_3	3049	2407.314	1246.686
## 955	2117.59	2623.3	1805.7	3037.7	A_3	3037	2386.014	1225.386
## 956	2106.05	2607.5	1802.2	3025.3	A_3	3025	2382.514	1221.886
## 957	2097.85	2600.4	1776.9	3009.3	A_3	3009	2357.214	1196.586
## 958	2127.21	2619.2	1808.4	3041.2	A_3	3041	2388.714	1228.086
## 959	2116.64	2617.2	1807.4	3038.2	A_3	3037	2387.714	1227.086
## 960	2094.16	2586.5	1795.2	3025.1	A_3	3025	2375.514	1214.886
## 961	2069.95	2553.2	1773.3	3001.9	A_3	3001	2353.614	1192.986
## 962	2041.26	2543.1	1748.6	2977.0	A_3	2977	2328.914	1168.286
## 963	2029.38	2515.8	1756.8	2992.1	A_3	2991	2337.114	1176.486
## 964	1989.20	2461.5	1727.1	2986.9	A_3	2985	2307.414	1146.786
## 965	2008.85	2467.7	1743.1	3021.1	A_3	3021	2323.414	1162.786
## 966	1974.14	2450.3	1721.8	3011.8	A_3	3011	2302.114	1141.486
## 967	2022.50	2463.3	1769.0	3050.6	A_3	3049	2349.314	1188.686
## 968	1995.22	2475.0	1738.6	3047.0	A_3	3047	2318.914	1158.286
## 969	2016.15	2491.7	1785.8	3094.1	A_3	3093	2366.114	1205.486
## 970	1979.52	2497.5	1788.8	3089.3	A_3	3089	2369.114	1208.486
## 971	1984.99	2516.0	1811.6	3124.2	A_3	3123	2391.914	1231.286
## 972	1984.15	2505.5	1813.8	3135.0	A_3	3135	2394.114	1233.486
## 973	1978.07	2501.9	1818.0	3139.7	A_3	3139	2398.314	1237.686
## 974	1935.08	2480.7	1795.7	3136.4	A_3	3135	2376.014	1215.386
## 975	1935.87	2526.6	1817.3	3153.4	A_3	3153	2397.614	1236.986
## 976	1928.82	2518.1	1836.1	3149.8	A_3	3149	2416.414	1255.786
## 977	1911.70	2495.6	1837.2	3128.3	A_3	3127	2417.514	1256.886
## 978	1918.85	2495.0	1852.4	3142.3	A_3	3141	2432.714	1272.086
## 979	1949.76	2533.1	1893.0	3176.2	A_3	3175	2473.314	1312.686
## 980	1914.69	2508.9	1859.5	3137.9	A_3	3137	2439.814	1279.186
## 981	1934.96	2511.1	1864.0	3143.1	A_3	3143	2444.314	1283.686
## 982	1965.68	2536.2	1882.8	3188.1	A_3	3187	2463.114	1302.486
## 983	1972.59	2536.3	1872.9	3190.2	A_3	3189	2453.214	1292.586
## 984	1976.52	2556.1	1890.2	3200.9	A_3	3199	2470.514	1309.886
## 985	1978.71	2559.3	1900.4	3210.9	A_3	3209	2480.714	1320.086
## 986	1980.81	2561.2	1880.9	3204.2	A_3	3203	2461.214	1300.586
## 987	1979.26	2563.1	1869.3	3190.9	A_3	3189	2449.614	1288.986
## 988	1991.08	2562.4	1871.9	3209.8	A_3	3209	2452.214	1291.586
## 989	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786
## 990	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786
## 991	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786
## 992	1954.62	2547.1	1855.7	3194.5	A_3	3193	2436.014	1275.386
## 993	1943.88	2516.8	1874.9	3170.1	A_3	3169	2455.214	1294.586
## 994	1955.33	2544.2	1882.0	3174.7	A_3	3173	2462.314	1301.686
## 995	1987.70	2560.8	1928.4	3199.9	A_3	3199	2508.714	1348.086
## 996	1978.97	2554.8	1918.5	3209.3	A_3	3209	2498.814	1338.186

## 997	2007.57	2561.1	1945.9	3214.9	A_3	3213	2526.214	1365.586
## 998	2028.52	2574.4	1942.3	3226.2	A_3	3225	2522.614	1361.986
## 999	2024.25	2567.0	1931.0	3217.6	A_3	3217	2511.314	1350.686
## 1000	2017.95	2597.2	1918.5	3216.7	A_3	3215	2498.814	1338.186
## 1001	2017.95	2597.2	1918.5	3220.4	A_3	3219	2498.814	1338.186
## 1002	2036.47	2621.4	1936.9	3248.2	A_3	3249	2517.214	1356.586
## 1003	2037.99	2618.6	1971.1	3262.6	A_3	3263	2551.414	1390.786
## 1004	2034.15	2641.7	1946.2	3264.3	A_3	3265	2526.514	1365.886
## 1005	2021.22	2650.5	1927.4	3251.7	A_3	3251	2507.714	1347.086
## 1006	2030.65	2658.8	1927.4	3251.7	A_3	3251	2507.714	1347.086
## 1007	2050.66	2655.6	1988.7	3261.2	A_3	3261	2569.014	1408.386
## 1008	2064.41	2661.4	1996.7	3290.1	A_3	3291	2577.014	1416.386
## 1009	2086.41	2701.0	2003.6	3317.9	A_3	3317	2583.914	1423.286
## 1010	2102.40	2728.2	2017.3	3310.3	A_3	3311	2597.614	1436.986
## 1011	2092.00	2739.0	1991.5	3310.7	A_3	3311	2571.814	1411.186
## 1012	2109.36	2746.6	2001.3	3300.8	A_3	3301	2581.614	1420.986
## 1013	2088.99	2739.8	2004.7	3297.4	A_3	3297	2585.014	1424.386
## 1014	2083.80	2727.7	1989.8	3285.8	A_3	3285	2570.114	1409.486
## 1015	2064.42	2701.0	1965.5	3261.0	A_3	3261	2545.814	1385.186
## 1016	2096.87	2751.2	1979.5	3284.5	A_3	3285	2559.814	1399.186
## 1017	2083.55	2750.4	1965.3	3291.8	A_3	3291	2545.614	1384.986
## 1018	2105.88	2778.5	1960.7	3327.3	A_3	3327	2541.014	1380.386
## 1019	2105.88	2778.5	1960.7	3328.2	A_3	3329	2541.014	1380.386
## 1020	2065.71	2751.7	1919.1	3311.1	A_3	3311	2499.414	1338.786
## 1021	2069.26	2762.5	1927.8	3311.1	A_3	3311	2508.114	1347.486
## 1022	2081.46	2779.4	1927.3	3309.9	A_3	3309	2507.614	1346.986
## 1023	2099.95	2786.4	1948.0	3319.4	A_3	3319	2528.314	1367.686
## 1024	2119.24	2807.8	1960.8	3340.6	A_3	3341	2541.114	1380.486
## 1025	2132.72	2805.3	1971.3	3345.0	A_3	3345	2551.614	1390.986
## 1026	2132.72	2805.3	1971.3	3376.6	A_3	3377	2551.614	1390.986
## 1027	2154.17	2809.7	1965.9	3380.0	A_3	3381	2546.214	1385.586
## 1028	2136.72	2819.6	1974.7	3370.8	A_3	3371	2555.014	1394.386
## 1029	2137.21	2806.8	1951.2	3380.8	A_3	3381	2531.514	1370.886
## 1030	2107.16	2795.3	1897.0	3337.7	A_3	3337	2477.314	1316.686
## 1031	2127.79	2802.3	1907.8	3344.6	A_3	3345	2488.114	1327.486
## 1032	2124.25	2800.9	1922.8	3348.0	A_3	3349	2503.114	1342.486
## 1033	2124.84	2798.1	1893.7	3339.8	A_3	3339	2474.014	1313.386
## 1034	2130.78	2800.2	1920.7	3370.4	A_3	3371	2501.014	1340.386
## 1035	2125.06	2775.4	1905.0	3366.1	A_3	3367	2485.314	1324.686
## 1036	2154.13	2803.0	1918.4	3381.3	A_3	3381	2498.714	1338.086
## 1037	2140.36	2805.6	1896.1	3377.2	A_3	3377	2476.414	1315.786
## 1038	2144.88	2816.8	1902.8	3378.3	A_3	3379	2483.114	1322.486
## 1039	2144.88	2843.3	1925.2	3403.8	A_3	3403	2505.514	1344.886
## 1040	2144.88	2837.7	1895.1	3379.4	A_3	3379	2475.414	1314.786
## 1041	2137.36	2830.3	1902.4	3309.2	A_3	3309	2482.714	1322.086
## 1042	2128.99	2845.1	1877.7	3313.2	A_3	3313	2458.014	1297.386
## 1043	2091.30	2836.8	1865.5	3282.7	A_3	3283	2445.814	1285.186
## 1044	2094.68	2845.6	1861.9	3294.0	A_3	3295	2442.214	1281.586
## 1045	2089.04	2825.3	1858.8	3314.6	A_3	3315	2439.114	1278.486
## 1046	2099.68	2827.5	1879.7	3323.7	A_3	3323	2460.014	1299.386
## 1047	2110.13	2847.5	1889.4	3349.2	A_3	3349	2469.714	1309.086
## 1048	2117.63	2843.7	1907.8	3394.9	A_3	3395	2488.114	1327.486
## 1049	2111.35	2833.7	1889.5	3388.3	A_3	3389	2469.814	1309.186
## 1050	2163.37	2848.4	1950.8	3462.9	A_3	3463	2531.114	1370.486

## 1051	2184.39	2842.9	1949.4	3455.0	A_3	3455	2529.714	1369.086
## 1052	2194.15	2847.3	1961.3	3464.0	A_3	3465	2541.614	1380.986
## 1053	2200.32	2867.9	1961.7	3450.6	A_3	3451	2542.014	1381.386
## 1054	2193.72	2869.7	1948.3	3447.2	A_3	3447	2528.614	1367.986
## 1055	2191.25	2863.4	1948.3	3429.2	A_3	3429	2528.614	1367.986
## 1056	2201.36	2892.3	1951.5	3442.6	A_3	3443	2531.814	1371.186
## 1057	2183.71	2875.1	1929.0	3420.7	A_3	3421	2509.314	1348.686
## 1058	2195.31	2856.2	1931.2	3405.3	A_3	3405	2511.514	1350.886
## 1059	2183.52	2822.2	1905.9	3400.4	A_3	3401	2486.214	1325.586
## 1060	2196.54	2830.2	1908.9	3413.1	A_3	3413	2489.214	1328.586
## 1061	2232.02	2836.6	1926.6	3431.6	A_3	3431	2506.914	1346.286
## 1062	2232.23	2833.2	1941.3	3432.9	A_3	3433	2521.614	1360.986
## 1063	2237.73	2827.1	1942.5	3454.3	A_3	3455	2522.814	1362.186
## 1064	2239.36	2824.7	1947.9	3458.3	A_3	3459	2528.214	1367.586
## 1065	2217.91	2833.1	1932.8	3468.9	A_3	3469	2513.114	1352.486
## 1066	2222.51	2826.8	1920.0	3463.3	A_3	3463	2500.314	1339.686
## 1067	2211.26	2826.8	1917.8	3449.9	A_3	3449	2498.114	1337.486
## 1068	2249.60	2852.3	1960.0	3499.9	A_3	3499	2540.314	1379.686
## 1069	2234.86	2814.3	1950.8	3475.6	A_3	3475	2531.114	1370.486
## 1070	2236.68	2807.1	1957.1	3482.4	A_3	3483	2537.414	1376.786
## 1071	2244.56	2800.6	1950.4	3483.5	A_3	3483	2530.714	1370.086
## 1072	2236.89	2797.4	1954.7	3468.8	A_3	3469	2535.014	1374.386
## 1073	2222.28	2781.3	1943.7	3468.3	A_3	3469	2524.014	1363.386
## 1074	2236.72	2802.6	1949.2	3474.7	A_3	3475	2529.514	1368.886
## 1075	2228.44	2820.1	1946.2	3467.5	A_3	3467	2526.514	1365.886
## 1076	2208.41	2807.2	1946.2	3441.4	A_3	3441	2526.514	1365.886
## 1077	2236.73	2838.4	1946.2	3444.4	A_3	3445	2526.514	1365.886
## 1078	2251.64	2880.6	1970.4	3465.1	A_3	3465	2550.714	1390.086
## 1079	2253.93	2880.0	1967.3	3470.6	A_3	3471	2547.614	1386.986
## 1080	2265.86	2889.5	1971.6	3509.8	A_3	3509	2551.914	1391.286
## 1081	2269.60	2886.7	1984.4	3535.7	A_3	3535	2564.714	1404.086
## 1082	2258.97	2900.8	1963.3	3530.2	A_3	3531	2543.614	1382.986
## 1083	2262.66	2896.8	1957.4	3515.9	A_3	3515	2537.714	1377.086
## 1084	2253.91	2887.1	1939.2	3520.0	A_3	3521	2519.514	1358.886
## 1085	2257.34	2893.8	1937.8	3524.9	A_3	3525	2518.114	1357.486
## 1086	2240.31	2883.3	1890.1	3524.9	A_3	3525	2470.414	1309.786
## 1087	2230.27	2887.3	1899.5	3502.6	A_3	3503	2479.814	1319.186
## 1088	2251.30	2915.7	1921.4	3504.0	A_3	3505	2501.714	1341.086
## 1089	2234.23	2908.8	1883.4	3477.8	A_3	3477	2463.714	1303.086
## 1090	2242.76	2918.3	1881.7	3509.4	A_3	3509	2462.014	1301.386
## 1091	2263.08	2952.7	1900.5	3522.7	A_3	3523	2480.814	1320.186
## 1092	2266.57	2971.1	1902.5	3532.4	A_3	3533	2482.814	1322.186
## 1093	2266.37	2999.6	1884.8	3557.7	A_3	3557	2465.114	1304.486
## 1094	2263.27	2989.1	1861.7	3545.6	A_3	3545	2442.014	1281.386
## 1095	2266.77	2989.2	1854.9	3554.5	A_3	3555	2435.214	1274.586
## 1096	2268.26	2986.3	1869.7	3549.3	A_3	3549	2450.014	1289.386
## 1097	2266.07	2990.5	1873.6	3535.9	A_3	3535	2453.914	1293.286
## 1098	2300.72	3016.8	1898.2	3570.8	A_3	3571	2478.514	1317.886
## 1099	2300.29	3011.6	1892.4	3565.4	A_3	3565	2472.714	1312.086
## 1100	2305.58	3025.4	1880.0	3564.6	A_3	3565	2460.314	1299.686
## 1101	2289.49	3008.1	1871.7	3533.3	A_3	3533	2452.014	1291.386
## 1102	2306.66	3033.5	1882.5	3541.4	A_3	3541	2462.814	1302.186
## 1103	2294.15	3029.0	1863.8	3561.5	A_3	3561	2444.114	1283.486
## 1104	2275.72	3039.1	1853.9	3557.9	A_3	3557	2434.214	1273.586

## 1105	2204.44	2994.7	1790.7	3514.8	A_3	3515	2371.014	1210.386
## 1106	2212.97	3015.3	1800.6	3507.0	A_3	3507	2380.914	1220.286
## 1107	2232.02	3045.5	1816.3	3523.3	A_3	3523	2396.614	1235.986
## 1108	2190.90	3009.8	1791.8	3485.0	A_3	3485	2372.114	1211.486
## 1109	2184.24	3000.6	1767.6	3479.0	A_3	3479	2347.914	1187.286
## 1110	2201.27	3014.8	1788.4	3508.2	A_3	3509	2368.714	1208.086
## 1111	2197.01	3039.0	1780.7	3520.2	A_3	3521	2361.014	1200.386
## 1112	2197.01	3049.0	1800.7	3524.2	A_3	3525	2381.014	1220.386
## 1113	2211.60	3036.5	1803.9	3544.1	A_3	3545	2384.214	1223.586
## 1114	2191.54	3036.6	1800.3	3544.4	A_3	3545	2380.614	1219.986
## 1115	2176.35	3054.0	1809.6	3526.5	A_3	3527	2389.914	1229.286
## 1116	2157.41	3064.0	1785.7	3510.3	A_3	3511	2366.014	1205.386
## 1117	2137.01	3050.0	1778.0	3460.1	A_3	3461	2358.314	1197.686
## 1118	2153.56	3073.0	1794.4	3474.3	A_3	3475	2374.714	1214.086
## 1119	2159.73	3083.7	1803.8	3523.8	A_3	3523	2384.114	1223.486
## 1120	2206.11	3109.2	1817.0	3568.0	A_3	3569	2397.314	1236.686
## 1121	2193.85	3116.3	1790.5	3557.3	A_3	3557	2370.814	1210.186
## 1122	2185.52	3112.3	1779.7	3562.2	A_3	3563	2360.014	1199.386
## 1123	2197.57	3135.4	1770.7	3593.0	A_3	3593	2351.014	1190.386
## 1124	2176.09	3124.5	1757.3	3578.6	A_3	3579	2337.614	1176.986
## 1125	2148.12	3120.4	1740.7	3551.4	A_3	3551	2321.014	1160.386
## 1126	2116.86	3041.7	1721.1	3531.5	A_3	3531	2301.414	1140.786
## 1127	2114.88	3062.3	1724.2	3535.3	A_3	3535	2304.514	1143.886
## 1128	2140.74	3078.9	1764.1	3537.8	A_3	3537	2344.414	1183.786
## 1129	2142.74	3080.0	1754.1	3519.6	A_3	3519	2334.414	1173.786
## 1130	2112.01	3026.6	1742.4	3497.9	A_3	3497	2322.714	1162.086
## 1131	2149.71	3057.9	1795.3	3510.0	A_3	3511	2375.614	1214.986
## 1132	2165.76	3108.2	1814.0	3529.1	A_3	3529	2394.314	1233.686
## 1133	2182.11	3128.5	1814.0	3518.7	A_3	3519	2394.314	1233.686
## 1134	2180.49	3123.4	1828.7	3523.0	A_3	3523	2409.014	1248.386
## 1135	2169.69	3137.6	1832.1	3500.4	A_3	3501	2412.414	1251.786
## 1136	2168.57	3123.2	1822.6	3514.8	A_3	3515	2402.914	1242.286
## 1137	2174.27	3133.8	1857.4	3522.4	A_3	3523	2437.714	1277.086
## 1138	2184.05	3132.6	1866.3	3537.1	A_3	3537	2446.614	1285.986
## 1139	2182.47	3150.1	1852.6	3541.6	A_3	3541	2432.914	1272.286
## 1140	2174.78	3130.4	1839.8	3523.4	A_3	3523	2420.114	1259.486
## 1141	2195.15	3121.4	1838.2	3536.8	A_3	3537	2418.514	1257.886
## 1142	2197.34	3133.0	1838.2	3547.9	A_3	3547	2418.514	1257.886
## 1143	2196.64	3124.8	1875.2	3571.4	A_3	3571	2455.514	1294.886
## 1144	2199.29	3148.4	1905.1	3610.8	A_3	3611	2485.414	1324.786
## 1145	2196.59	3152.5	1890.5	3609.2	A_3	3609	2470.814	1310.186
## 1146	2204.01	3182.2	1881.4	3628.8	A_3	3629	2461.714	1301.086
## 1147	2201.90	3183.9	1872.9	3604.1	A_3	3605	2453.214	1292.586
## 1148	2194.53	3201.0	1875.5	3632.4	A_3	3633	2455.814	1295.186
## 1149	2197.26	3209.2	1867.1	3602.5	A_3	3603	2447.414	1286.786
## 1150	2210.92	3220.1	1891.0	3624.0	A_3	3625	2471.314	1310.686
## 1151	2247.97	3251.0	1889.8	3649.0	A_3	3649	2470.114	1309.486
## 1152	2242.91	3229.5	1870.3	3648.8	A_3	3649	2450.614	1289.986
## 1153	2249.75	3245.9	1857.3	3655.5	A_3	3655	2437.614	1276.986
## 1154	2254.95	3251.6	1828.3	3664.3	A_3	3665	2408.614	1247.986
## 1155	2266.56	3261.2	1820.9	3664.3	A_3	3665	2401.214	1240.586
## 1156	2261.08	3278.4	1774.9	3669.7	A_3	3669	2355.214	1194.586
## 1157	2269.34	3278.5	1814.9	3664.2	A_3	3665	2395.214	1234.586
## 1158	2274.94	3281.5	1834.8	3662.8	A_3	3663	2415.114	1254.486

## 1159	2260.62	3245.7	1846.8	3639.5	A_3	3639	2427.114	1266.486
## 1160	2277.70	3246.6	1856.3	3630.0	A_3	3631	2436.614	1275.986
## 1161	2277.70	3261.6	1849.6	3652.1	A_3	3653	2429.914	1269.286
## 1162	2278.64	3280.9	1848.9	3654.9	A_3	3655	2429.214	1268.586
## 1163	2283.26	3273.4	1833.8	3662.4	A_3	3663	2414.114	1253.486
## 1164	2286.21	3272.2	1875.0	3671.6	A_3	3671	2455.314	1294.686
## 1165	2283.84	3289.8	1859.3	3642.6	A_3	3643	2439.614	1278.986
## 1166	2240.24	3251.6	1820.5	3596.1	A_3	3597	2400.814	1240.186
## 1167	2241.43	3217.7	1810.2	3576.9	A_3	3577	2390.514	1229.886
## 1168	2268.07	3254.3	1831.2	3613.7	A_3	3613	2411.514	1250.886
## 1169	2268.35	3255.0	1834.4	3633.3	A_3	3633	2414.714	1254.086
## 1170	2280.81	3277.9	1873.4	3658.3	A_3	3659	2453.714	1293.086
## 1171	2280.81	3277.9	1873.4	3658.3	A_3	3659	2453.714	1293.086
## 1172	2280.81	3277.9	1866.7	3658.3	A_3	3659	2447.014	1286.386
## 1173	2280.44	3317.1	1877.0	3676.4	A_3	3677	2457.314	1296.686
## 1174	2273.90	3297.7	1879.1	3676.7	A_3	3677	2459.414	1298.786
## 1175	2260.69	3297.7	1872.0	3689.3	A_3	3689	2452.314	1291.686
## 1176	2260.69	3297.7	1872.0	3689.3	A_3	3689	2452.314	1291.686
## 1177	2307.70	3297.7	1908.4	3687.9	A_3	3687	2488.714	1328.086
## 1178	2326.18	3384.5	1943.0	3715.6	A_3	3715	2523.314	1362.686
## 1179	2332.81	3395.8	1931.2	3714.1	A_3	3715	2511.514	1350.886
## 1180	2315.66	3376.1	1917.7	3704.5	A_3	3705	2498.014	1337.386
## 1181	2336.76	3368.1	1916.6	3720.6	A_3	3721	2496.914	1336.286
## 1182	2351.47	3361.5	1916.3	3720.6	A_3	3721	2496.614	1335.986
## 1183	2340.31	3314.8	1910.1	3671.5	A_3	3671	2490.414	1329.786
## 1184	2330.98	3284.1	1897.9	3654.9	A_3	3655	2478.214	1317.586
## 1185	2353.89	3292.9	1907.6	3657.3	A_3	3657	2487.914	1327.286
## 1186	2361.38	3233.9	1924.4	3662.7	A_3	3663	2504.714	1344.086
## 1187	2379.43	3254.8	1952.1	3710.6	A_3	3711	2532.414	1371.786
## 1188	2375.63	3219.3	1966.0	3704.2	A_3	3705	2546.314	1385.686
## 1189	2389.62	3257.8	1960.1	3748.7	A_3	3749	2540.414	1379.786
## 1190	2400.58	3253.1	1964.3	3748.4	A_3	3749	2544.614	1383.986
## 1191	2391.74	3249.9	1954.4	3754.2	A_3	3755	2534.714	1374.086
## 1192	2393.12	3219.0	1934.1	3735.0	A_3	3735	2514.414	1353.786
## 1193	2436.68	3221.3	1946.0	3758.2	A_3	3759	2526.314	1365.686
## 1194	2437.02	3211.2	1950.2	3734.2	A_3	3735	2530.514	1369.886
## 1195	2449.71	3191.4	1966.7	3734.7	A_3	3735	2547.014	1386.386
## 1196	2437.70	3198.2	1980.7	3734.6	A_3	3735	2561.014	1400.386
## 1197	2456.09	3236.8	2003.1	3735.3	A_3	3735	2583.414	1422.786
## 1198	2463.00	3248.7	2021.0	3759.3	A_3	3759	2601.314	1440.686
## 1199	2472.53	3279.9	2024.1	3752.8	A_3	3753	2604.414	1443.786
## 1200	2459.81	3270.0	2022.2	3781.3	A_3	3781	2602.514	1441.886
## 1201	2416.84	3221.7	1985.6	3746.6	A_3	3747	2565.914	1405.286
## 1202	2437.98	3253.8	1988.5	3747.5	A_3	3747	2568.814	1408.186
## 1203	2442.43	3262.7	1983.3	3726.1	A_3	3727	2563.614	1402.986
## 1204	2411.49	3245.6	1956.2	3708.4	A_3	3709	2536.514	1375.886
## 1205	2435.07	3242.7	1960.7	3716.3	A_3	3717	2541.014	1380.386
## 1206	2428.59	3253.1	1967.7	3726.6	A_3	3727	2548.014	1387.386
## 1207	2436.09	3260.1	1983.3	3747.6	A_3	3747	2563.614	1402.986
## 1208	2427.77	3266.1	1956.4	3745.0	A_3	3745	2536.714	1376.086
## 1209	2426.51	3272.2	1964.2	3779.8	A_3	3779	2544.514	1383.886
## 1210	2423.60	3280.3	1952.5	3770.9	A_3	3771	2532.814	1372.186
## 1211	2387.60	3270.6	1939.7	3744.3	A_3	3745	2520.014	1359.386
## 1212	2373.01	3243.5	1932.4	3714.6	A_3	3715	2512.714	1352.086

## 1213	2401.59	3253.0	1936.9	3725.6	A_3	3725	2517.214	1356.586
## 1214	2421.93	3264.4	1953.3	3740.0	A_3	3741	2533.614	1372.986
## 1215	2449.52	3296.2	1976.9	3740.3	A_3	3741	2557.214	1396.586
## 1216	2438.73	3298.6	1960.9	3704.2	A_3	3705	2541.214	1380.586
## 1217	2449.09	3309.9	1974.5	3715.9	A_3	3715	2554.814	1394.186
## 1218	2486.95	3360.5	1996.9	3738.2	A_3	3739	2577.214	1416.586
## 1219	2485.18	3354.8	1990.8	3727.6	A_3	3727	2571.114	1410.486
## 1220	2488.85	3385.5	2017.2	3752.7	A_3	3753	2597.514	1436.886
## 1221	2486.83	3400.6	2015.3	3768.6	A_3	3769	2595.614	1434.986
## 1222	2472.52	3383.4	2001.9	3777.1	A_3	3777	2582.214	1421.586
## 1223	2471.38	3408.3	2005.9	3758.9	A_3	3759	2586.214	1425.586
## 1224	2479.38	3581.9	2008.0	3758.2	A_3	3759	2588.314	1427.686
## 1225	2448.80	3549.7	1975.5	3710.3	A_3	3711	2555.814	1395.186
## 1226	2419.72	3506.2	1948.9	3674.5	A_3	3675	2529.214	1368.586
## 1227	2415.29	3540.5	1932.1	3639.5	A_3	3639	2512.414	1351.786
## 1228	2417.00	3558.3	1944.3	3640.3	A_3	3641	2524.614	1363.986
## 1229	2432.46	3578.4	1962.4	3681.8	A_3	3681	2542.714	1382.086
## 1230	2458.00	3561.1	1950.1	3644.8	A_3	3645	2530.414	1369.786
## 1231	2472.55	3583.6	1965.0	3669.6	A_3	3669	2545.314	1384.686
## 1232	2484.74	3605.1	1967.2	3693.0	A_3	3693	2547.514	1386.886
## 1233	2491.73	3611.1	1969.8	3685.4	A_3	3685	2550.114	1389.486
## 1234	2505.32	3629.3	1976.9	3698.3	A_3	3699	2557.214	1396.586
## 1235	2479.84	3647.7	1974.4	3707.0	A_3	3707	2554.714	1394.086
## 1236	2514.80	3677.0	2003.8	3681.9	A_3	3681	2584.114	1423.486
## 1237	2505.78	3658.1	2008.0	3660.9	A_3	3661	2588.314	1427.686
## 1238	2523.81	3671.0	2030.5	3672.4	A_3	3673	2610.814	1450.186
## 1239	2502.94	3640.3	2020.0	3672.6	A_3	3673	2600.314	1439.686
## 1240	2489.35	3646.5	2044.8	3699.7	A_3	3699	2625.114	1464.486
## 1241	2500.75	3654.3	2055.6	3718.4	A_3	3719	2635.914	1475.286
## 1242	2508.11	3648.3	2070.4	3728.5	A_3	3729	2650.714	1490.086
## 1243	2489.52	3606.7	2064.0	3725.1	A_3	3725	2644.314	1483.686
## 1244	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686
## 1245	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686
## 1246	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686
## 1247	2510.81	3594.4	2081.7	3758.6	A_3	3759	2662.014	1501.386
## 1248	2525.59	3601.5	2093.9	3767.4	A_3	3767	2674.214	1513.586
## 1249	2508.12	3566.9	2072.5	3744.2	A_3	3745	2652.814	1492.186
## 1250	2526.74	3575.5	2074.7	3766.8	A_3	3767	2655.014	1494.386
## 1251	2540.79	3589.6	2080.6	3790.5	A_3	3791	2660.914	1500.286
## 1252	2547.32	3607.5	2097.3	3825.3	A_3	3825	2677.614	1516.986
## 1253	2519.82	3603.9	2075.1	3805.6	A_3	3805	2655.414	1494.786
## 1254	2524.18	3601.2	2086.0	3820.7	A_3	3821	2666.314	1505.686
## 1255	2535.86	3628.1	2092.5	3857.1	A_3	3857	2672.814	1512.186
## 1256	2549.27	3673.2	2116.5	3852.7	A_3	3853	2696.814	1536.186
## 1257	2549.12	3647.3	2112.0	3833.0	A_3	3833	2692.314	1531.686
## 1258	2524.84	3668.4	2122.1	3817.6	A_3	3817	2702.414	1541.786
## 1259	2538.68	3668.1	2116.4	3819.3	A_3	3819	2696.714	1536.086
## 1260	2539.88	3696.0	2138.4	3832.8	A_3	3833	2718.714	1558.086
## 1261	2505.97	3658.2	2130.8	3809.2	A_3	3809	2711.114	1550.486
## 1262	2492.63	3651.0	2146.8	3817.9	A_3	3817	2727.114	1566.486
## 1263	2492.63	3651.0	2146.8	3806.0	A_3	3807	2727.114	1566.486
## 1264	2465.49	3635.8	2136.8	3776.4	A_3	3777	2717.114	1556.486
## 1265	2472.43	3611.2	2115.4	3751.6	A_3	3751	2695.714	1535.086
## 1266	2473.52	3591.6	2090.4	3751.6	A_3	3751	2670.714	1510.086

## 1267	2476.79	3583.6	2083.7	3723.0	A_3	3723	2664.014	1503.386
## 1268	2466.21	3534.1	2083.7	3707.3	A_3	3707	2664.014	1503.386
## 1269	2470.57	3521.6	2085.4	3728.3	A_3	3729	2665.714	1505.086
## 1270	2499.02	3556.9	2114.8	3754.4	A_3	3755	2695.114	1534.486
## 1271	2496.33	3557.8	2100.9	3739.2	A_3	3739	2681.214	1520.586
## 1272	2528.20	3582.4	2122.1	3759.7	A_3	3759	2702.414	1541.786
## 1273	2534.40	3572.5	2124.6	3776.2	A_3	3777	2704.914	1544.286
## 1274	2534.40	3572.5	2124.6	3753.6	A_3	3753	2704.914	1544.286
## 1275	2552.29	3593.0	2136.9	3789.6	A_3	3789	2717.214	1556.586
## 1276	2541.98	3584.0	2120.6	3778.2	A_3	3779	2700.914	1540.286
## 1277	2564.12	3587.3	2129.7	3789.4	A_3	3789	2710.014	1549.386
## 1278	2548.79	3550.0	2103.5	3764.2	A_3	3765	2683.814	1523.186
## 1279	2546.55	3547.4	2114.5	3747.0	A_3	3747	2694.814	1534.186
## 1280	2549.53	3572.2	2117.7	3752.1	A_3	3753	2698.014	1537.386
## 1281	2549.53	3572.2	2117.7	3752.1	A_3	3753	2698.014	1537.386
## 1282	2559.15	3583.8	2132.9	3760.2	A_3	3761	2713.214	1552.586
## 1283	2548.53	3558.2	2117.1	3775.7	A_3	3775	2697.414	1536.786
## 1284	2535.78	3537.7	2108.4	3746.7	A_3	3747	2688.714	1528.086
## 1285	2523.81	3556.1	2110.1	3747.8	A_3	3747	2690.414	1529.786
## 1286	2543.99	3544.6	2121.1	3739.2	A_3	3739	2701.414	1540.786
## 1287	2550.42	3568.1	2111.0	3755.2	A_3	3755	2691.314	1530.686
## 1288	2551.03	3572.0	2115.4	3753.4	A_3	3753	2695.714	1535.086
## 1289	2559.02	3585.5	2133.2	3760.3	A_3	3761	2713.514	1552.886
## 1290	2536.03	3547.9	2102.0	3706.8	A_3	3707	2682.314	1521.686
## 1291	2552.96	3575.8	2120.8	3728.8	A_3	3729	2701.114	1540.486
## 1292	2571.10	3575.6	2137.5	3755.7	A_3	3755	2717.814	1557.186
## 1293	2569.90	3600.9	2137.3	3769.2	A_3	3769	2717.614	1556.986
## 1294	2566.13	3607.4	2126.2	3761.7	A_3	3761	2706.514	1545.886
## 1295	2544.90	3593.9	2111.8	3753.6	A_3	3753	2692.114	1531.486
## 1296	2549.71	3600.1	2113.0	3761.5	A_3	3761	2693.314	1532.686
## 1297	2554.12	3628.3	2107.9	3756.4	A_3	3757	2688.214	1527.586
## 1298	2546.04	3643.6	2100.7	3753.2	A_3	3753	2681.014	1520.386
## 1299	2532.22	3655.4	2077.1	3727.5	A_3	3727	2657.414	1496.786
## 1300	2547.78	3687.3	2084.2	3722.3	A_3	3723	2664.514	1503.886
## 1301	2562.19	3701.5	2097.6	3710.8	A_3	3711	2677.914	1517.286
## 1302	2578.36	3699.6	2118.4	3679.5	A_3	3679	2698.714	1538.086
## 1303	2572.06	3723.5	2113.3	3695.5	A_3	3695	2693.614	1532.986
## 1304	2551.80	3703.0	2112.9	3678.8	A_3	3679	2693.214	1532.586
## 1305	2570.44	3732.9	2123.7	3711.0	A_3	3711	2704.014	1543.386
## 1306	2573.44	3728.2	2118.8	3725.6	A_3	3725	2699.114	1538.486
## 1307	2565.32	3750.8	2111.8	3725.7	A_3	3725	2692.114	1531.486
## 1308	2566.32	3757.0	2114.0	3714.1	A_3	3715	2694.314	1533.686
## 1309	2578.74	3771.3	2126.8	3760.6	A_3	3761	2707.114	1546.486
## 1310	2568.79	3731.2	2098.8	3743.2	A_3	3743	2679.114	1518.486
## 1311	2561.51	3732.8	2079.1	3741.5	A_3	3741	2659.414	1498.786
## 1312	2562.24	3773.4	2076.6	3752.3	A_3	3753	2656.914	1496.286
## 1313	2573.00	3788.0	2081.9	3765.8	A_3	3765	2662.214	1501.586
## 1314	2561.95	3810.0	2073.4	3749.0	A_3	3749	2653.714	1493.086
## 1315	2548.97	3785.8	2050.6	3728.3	A_3	3729	2630.914	1470.286
## 1316	2529.50	3755.4	2029.5	3698.3	A_3	3699	2609.814	1449.186
## 1317	2475.98	3678.1	1989.5	3632.3	A_3	3633	2569.814	1409.186
## 1318	2497.69	3656.2	1995.1	3658.2	A_3	3659	2575.414	1414.786
## 1319	2505.56	3649.2	2007.3	3693.4	A_3	3693	2587.614	1426.986
## 1320	2498.35	3661.5	1992.8	3710.5	A_3	3711	2573.114	1412.486

## 1321	2468.32	3566.1	1960.3	3681.3	A_3	3681	2540.614	1379.986
## 1322	2488.82	3585.2	1982.2	3708.4	A_3	3709	2562.514	1401.886
## 1323	2459.13	3482.6	1954.1	3668.8	A_3	3669	2534.414	1373.786
## 1324	2464.51	3537.4	1974.7	3684.7	A_3	3685	2555.014	1394.386
## 1325	2469.51	3537.8	1962.9	3673.3	A_3	3673	2543.214	1382.586
## 1326	2472.25	3549.5	1961.1	3678.8	A_3	3679	2541.414	1380.786
## 1327	2466.84	3518.2	1968.5	3668.5	A_3	3669	2548.814	1388.186
## 1328	2491.50	3494.4	1995.9	3703.2	A_3	3703	2576.214	1415.586
## 1329	2504.16	3494.4	2009.9	3734.4	A_3	3735	2590.214	1429.586
## 1330	2520.26	3604.6	2023.4	3770.6	A_3	3771	2603.714	1443.086
## 1331	2520.52	3623.3	2013.2	3788.3	A_3	3789	2593.514	1432.886
## 1332	2527.73	3629.0	1999.3	3788.4	A_3	3789	2579.614	1418.986
## 1333	2541.41	3662.6	1996.7	3811.1	A_3	3811	2577.014	1416.386
## 1334	2534.63	3653.4	1997.4	3811.4	A_3	3811	2577.714	1417.086
## 1335	2532.96	3643.2	1985.4	3810.7	A_3	3811	2565.714	1405.086
## 1336	2529.14	3623.1	1978.2	3803.3	A_3	3803	2558.514	1397.886
## 1337	2545.65	3630.2	1980.6	3823.4	A_3	3823	2560.914	1400.286
## 1338	2544.61	3650.7	1979.5	3830.3	A_3	3831	2559.814	1399.186
## 1339	2542.75	3646.3	1979.5	3837.4	A_3	3837	2559.814	1399.186
## 1340	2567.96	3670.5	1979.5	3872.9	A_3	3873	2559.814	1399.186
## 1341	2556.25	3664.4	1986.2	3863.7	A_3	3863	2566.514	1405.886
## 1342	2562.12	3698.2	2019.3	3883.2	A_3	3883	2599.614	1438.986
## 1343	2534.44	3683.8	2000.6	3872.1	A_3	3873	2580.914	1420.286
## 1344	2559.42	3713.0	2017.8	3891.1	A_3	3891	2598.114	1437.486
## 1345	2562.12	3725.4	2020.8	3907.5	A_3	3907	2601.114	1440.486
## 1346	2554.42	3714.6	2020.4	3907.5	A_3	3907	2600.714	1440.086
## 1347	2563.59	3722.4	2018.0	3905.7	A_3	3905	2598.314	1437.686
## 1348	2556.64	3692.6	2002.9	3918.7	A_3	3919	2583.214	1422.586
## 1349	2548.84	3682.6	1977.6	3885.0	A_3	3885	2557.914	1397.286
## 1350	2534.49	3646.3	1970.6	3867.6	A_3	3867	2550.914	1390.286
## 1351	2538.34	3654.7	1977.0	3884.4	A_3	3885	2557.314	1396.686
## 1352	2528.73	3623.9	1971.4	3855.9	A_3	3855	2551.714	1391.086
## 1353	2526.18	3634.2	1984.8	3872.7	A_3	3873	2565.114	1404.486
## 1354	2532.55	3627.1	1996.2	3887.2	A_3	3887	2576.514	1415.886
## 1355	2542.74	3637.8	2004.8	3893.0	A_3	3893	2585.114	1424.486
## 1356	2549.71	3684.4	2020.3	3910.8	A_3	3911	2600.614	1439.986
## 1357	2568.77	3694.2	2042.1	3916.1	A_3	3917	2622.414	1461.786
## 1358	2568.70	3678.9	2038.1	3905.6	A_3	3905	2618.414	1457.786
## 1359	2588.04	3687.2	2065.4	3932.6	A_3	3933	2645.714	1485.086
## 1360	2614.50	3716.8	2080.4	3967.9	A_3	3967	2660.714	1500.086
## 1361	2630.24	3722.7	2086.2	3977.2	A_3	3977	2666.514	1505.886
## 1362	2626.43	3690.0	2080.9	3972.3	A_3	3973	2661.214	1500.586
## 1363	2621.20	3690.1	2072.7	3955.7	A_3	3955	2653.014	1492.386
## 1364	2625.46	3694.9	2082.3	3974.3	A_3	3975	2662.614	1501.986
## 1365	2641.50	3694.9	2079.5	3964.1	A_3	3965	2659.814	1499.186
## 1366	2624.18	3635.5	2067.1	3919.7	A_3	3919	2647.414	1486.786
## 1367	2643.42	3661.2	2081.5	3910.5	A_3	3911	2661.814	1501.186
## 1368	2663.10	3697.7	2103.4	3935.7	A_3	3935	2683.714	1523.086
## 1369	2664.96	3699.5	2104.1	3933.2	A_3	3933	2684.414	1523.786
## 1370	2659.86	3696.6	2107.1	3946.4	A_3	3947	2687.414	1526.786
## 1371	2655.49	3736.4	2132.8	3953.7	A_3	3953	2713.114	1552.486
## 1372	2654.34	3737.5	2123.2	3992.2	A_3	3993	2703.514	1542.886
## 1373	2685.29	3760.2	2141.8	4015.1	A_3	4015	2722.114	1561.486
## 1374	2685.29	3771.6	2136.1	4000.0	A_3	4001	2716.414	1555.786

## 1375	2704.25	3771.6	2152.7	4024.8	A_3	4025	2733.014	1572.386
## 1376	2705.21	3813.7	2151.6	4031.5	A_3	4031	2731.914	1571.286
## 1377	2702.60	3818.1	2161.5	4035.6	A_3	4035	2741.814	1581.186
## 1378	2685.23	3807.9	2146.7	4009.3	A_3	4009	2727.014	1566.386
## 1379	2683.52	3797.3	2135.6	3994.7	A_3	3995	2715.914	1555.286
## 1380	2692.69	3805.2	2147.1	4028.1	A_3	4029	2727.414	1566.786
## 1381	2700.83	3813.7	2143.6	4038.7	A_3	4039	2723.914	1563.286
## 1382	2718.73	3822.2	2168.3	4050.8	A_3	4051	2748.614	1587.986
## 1383	2705.06	3790.2	2158.5	4024.4	A_3	4025	2738.814	1578.186
## 1384	2717.50	3793.2	2165.3	4042.1	A_3	4043	2745.614	1584.986
## 1385	2727.56	3803.3	2185.2	4053.1	A_2	4053	2765.514	1604.886
## 1386	2733.67	3788.2	2180.2	4073.1	A_2	4073	2760.514	1599.886
## 1387	2721.74	3775.3	2175.6	4057.2	A_3	4057	2755.914	1595.286
## 1388	2678.89	3742.9	2148.9	4028.4	A_3	4029	2729.214	1568.586
## 1389	2681.94	3753.6	2151.6	3999.4	A_3	3999	2731.914	1571.286
## 1390	2690.79	3758.7	2162.4	4022.4	A_3	4023	2742.714	1582.086
## 1391	2703.33	3763.5	2150.4	4025.3	A_3	4025	2730.714	1570.086
## 1392	2675.50	3732.0	2125.7	3993.5	A_3	3993	2706.014	1545.386
## 1393	2664.72	3723.1	2124.8	3963.9	A_3	3963	2705.114	1544.486
## 1394	2671.40	3725.3	2140.5	3979.1	A_3	3979	2720.814	1560.186
## 1395	2670.19	3736.1	2140.5	3948.5	A_3	3949	2720.814	1560.186
## 1396	2678.73	3749.2	2142.2	3928.1	A_3	3929	2722.514	1561.886
## 1397	2716.16	3784.8	2187.3	3921.1	A_3	3921	2767.614	1606.986
## 1398	2735.28	3815.4	2213.4	3935.7	A_2	3935	2793.714	1633.086
## 1399	2724.25	3811.5	2211.8	3900.4	A_2	3901	2792.114	1631.486
## 1400	2732.29	3812.0	2205.2	3910.8	A_2	3911	2785.514	1624.886
## 1401	2730.44	3827.6	2205.2	3914.4	A_2	3915	2785.514	1624.886
## 1402	2764.00	3829.8	2229.1	3934.3	A_2	3935	2809.414	1648.786
## 1403	2770.61	3825.7	2217.2	3926.9	A_2	3927	2797.514	1636.886
## 1404	2784.39	3856.4	2218.2	3926.1	A_2	3927	2798.514	1637.886
## 1405	2800.60	3897.9	2240.3	3958.2	A_2	3959	2820.614	1659.986
## 1406	2768.68	3888.3	2228.8	3962.1	A_2	3963	2809.114	1648.486
## 1407	2781.54	3892.6	2240.1	3978.1	A_2	3979	2820.414	1659.786
## 1408	2766.08	3883.3	2233.4	3962.8	A_2	3963	2813.714	1653.086
## 1409	2765.29	3861.5	2233.6	3953.8	A_2	3953	2813.914	1653.286
## 1410	2769.47	3882.8	2255.5	4018.7	A_2	4019	2835.814	1675.186
## 1411	2800.52	3891.7	2277.1	4054.6	A_2	4055	2857.414	1696.786
## 1412	2808.62	3878.2	2275.1	4068.4	A_2	4069	2855.414	1694.786
## 1413	2793.86	3845.3	2270.8	4049.2	A_2	4049	2851.114	1690.486
## 1414	2829.68	3884.1	2290.3	4050.2	A_2	4051	2870.614	1709.986
## 1415	2848.84	3902.5	2315.7	4058.0	A_2	4059	2896.014	1735.386
## 1416	2853.46	3874.0	2318.6	4038.5	A_2	4039	2898.914	1738.286
## 1417	2900.76	3924.5	2349.1	4061.5	A_2	4061	2929.414	1768.786
## 1418	2880.89	3910.6	2308.7	4045.2	A_2	4045	2889.014	1728.386
## 1419	2894.43	3913.8	2292.5	4051.2	A_2	4051	2872.814	1712.186
## 1420	2832.53	3835.5	2240.7	3963.0	A_2	3963	2821.014	1660.386
## 1421	2870.30	3874.0	2255.8	4011.6	A_2	4011	2836.114	1675.486
## 1422	2890.95	3885.4	2251.4	4035.7	A_2	4035	2831.714	1671.086
## 1423	2836.36	3857.6	2213.3	3982.5	A_2	3983	2793.614	1632.986
## 1424	2846.94	3860.0	2212.1	3990.7	A_2	3991	2792.414	1631.786
## 1425	2815.77	3839.3	2203.4	3972.4	A_2	3973	2783.714	1623.086
## 1426	2841.16	3869.2	2222.6	3993.8	A_2	3993	2802.914	1642.286
## 1427	2808.50	3850.4	2193.7	3979.6	A_2	3979	2774.014	1613.386
## 1428	2814.23	3874.0	2218.9	4018.2	A_2	4019	2799.214	1638.586

## 1429 2824.83 3880.8 2248.7 4051.3	A_2	4051 2829.014 1668.386
## 1430 2835.54 3890.1 2278.5 4077.6	A_2	4077 2858.814 1698.186
## 1431 2844.09 3875.5 2287.4 4087.2	A_2	4087 2867.714 1707.086
## 1432 2844.09 3869.8 2289.6 4092.5	A_2	4093 2869.914 1709.286
## 1433 2844.09 3869.8 2289.6 4092.5	A_2	4093 2869.914 1709.286
## 1434 2844.09 3869.8 2303.8 4092.5	A_2	4093 2884.114 1723.486
## 1435 2859.22 3922.2 2307.0 4091.0	A_2	4091 2887.314 1726.686
## 1436 2880.07 3948.3 2318.6 4115.7	A_2	4115 2898.914 1738.286
## 1437 2880.07 3942.2 2315.7 4118.5	A_2	4119 2896.014 1735.386
## 1438 2880.07 3942.2 2315.7 4118.5	A_2	4119 2896.014 1735.386
## 1439 2820.81 3942.2 2257.0 4057.4	A_2	4057 2837.314 1676.686
## 1440 2863.26 3940.1 2282.8 4089.5	A_2	4089 2863.114 1702.486
## 1441 2890.20 3923.8 2306.7 4106.5	A_2	4107 2887.014 1726.386
## 1442 2876.34 3922.9 2301.7 4078.8	A_2	4079 2882.014 1721.386
## 1443 2904.08 3944.9 2331.6 4087.5	A_2	4087 2911.914 1751.286
## 1444 2936.69 3966.2 2349.1 4087.0	A_2	4087 2929.414 1768.786
## 1445 2915.81 3947.4 2327.5 4056.6	A_2	4057 2907.814 1747.186
## 1446 2956.78 3975.5 2361.3 4107.3	A_2	4107 2941.614 1780.986
## 1447 2978.84 3983.6 2402.1 4168.2	A_2	4169 2982.414 1821.786
## 1448 2976.56 3979.6 2388.0 4158.9	A_2	4159 2968.314 1807.686
## 1449 2996.12 4007.1 2407.8 4197.5	A_2	4197 2988.114 1827.486
## 1450 3006.87 4019.9 2425.1 4207.7	A_2	4207 3005.414 1844.786
## 1451 2999.19 4009.5 2406.1 4194.0	A_2	4195 2986.414 1825.786
## 1452 3000.66 4023.1 2409.9 4195.5	A_2	4195 2990.214 1829.586
## 1453 3026.63 4115.4 2442.5 4219.1	A_2	4219 3022.814 1862.186
## 1454 3037.28 4161.0 2461.3 4219.1	A_2	4219 3041.614 1880.986
## 1455 2982.63 4125.5 2430.3 4218.8	A_2	4219 3010.614 1849.986
## 1456 2992.55 4127.3 2435.2 4212.0	A_2	4213 3015.514 1854.886
## 1457 3028.27 4182.3 2482.8 4237.4	A_2	4237 3063.114 1902.486
## 1458 2997.95 4169.7 2465.0 4207.5	A_2	4207 3045.314 1884.686
## 1459 3018.58 4209.1 2503.1 4228.4	A_2	4229 3083.414 1922.786
## 1460 3037.70 4272.2 2516.6 4275.8	A_2	4275 3096.914 1936.286
## 1461 3064.70 4282.8 2508.6 4257.8	A_2	4257 3088.914 1928.286
## 1462 3067.48 4296.5 2503.1 4260.9	A_2	4261 3083.414 1922.786
## 1463 3114.73 4305.5 2541.3 4281.5	A_2	4281 3121.614 1960.986
## 1464 3124.78 4309.8 2558.4 4265.9	A_2	4265 3138.714 1978.086
## 1465 3161.36 4357.9 2597.5 4307.8	A_2	4307 3177.814 2017.186
## 1466 3185.72 4384.3 2595.4 4307.7	A_2	4307 3175.714 2015.086
## 1467 3191.45 4408.4 2582.1 4304.3	A_2	4305 3162.414 2001.786
## 1468 3211.01 4444.1 2599.3 4304.3	A_2	4305 3179.614 2018.986
## 1469 3256.86 4436.3 2628.4 4327.1	A_2	4327 3208.714 2048.086
## 1470 3249.17 4464.2 2627.4 4341.0	A_2	4341 3207.714 2047.086
## 1471 3260.30 4514.6 2634.5 4337.8	A_2	4337 3214.814 2054.186
## 1472 3230.83 4490.7 2617.5 4332.3	A_2	4333 3197.814 2037.186
## 1473 3209.04 4525.5 2594.8 4357.4	A_2	4357 3175.114 2014.486
## 1474 3197.09 4530.8 2575.2 4356.1	A_2	4357 3155.514 1994.886
## 1475 3203.79 4522.5 2562.8 4336.8	A_2	4337 3143.114 1982.486
## 1476 3180.63 4463.2 2567.9 4331.1	A_2	4331 3148.214 1987.586
## 1477 3233.34 4503.9 2607.7 4344.7	A_2	4345 3188.014 2027.386
## 1478 3245.02 4539.0 2602.2 4329.3	A_2	4329 3182.514 2021.886
## 1479 3272.58 4519.7 2629.4 4339.2	A_2	4339 3209.714 2049.086
## 1480 3261.04 4487.6 2607.8 4308.3	A_2	4309 3188.114 2027.486
## 1481 3258.74 4460.1 2600.3 4307.1	A_2	4307 3180.614 2019.986
## 1482 3345.09 4513.7 2651.7 4357.7	A_2	4357 3232.014 2071.386

## 1483	3375.45	4547.1	2666.2	4360.1	A_2	4361	3246.514	2085.886
## 1484	3396.55	4605.2	2698.9	4399.3	A_2	4399	3279.214	2118.586
## 1485	3419.51	4638.9	2708.3	4420.3	A_2	4421	3288.614	2127.986
## 1486	3426.77	4684.4	2709.2	4437.4	A_2	4437	3289.514	2128.886
## 1487	3430.95	4677.1	2686.2	4444.3	A_2	4445	3266.514	2105.886
## 1488	3382.40	4676.2	2641.7	4422.5	A_2	4423	3222.014	2061.386
## 1489	3367.82	4609.9	2632.1	4397.7	A_2	4397	3212.414	2051.786
## 1490	3404.29	4636.2	2645.6	4424.3	A_2	4425	3225.914	2065.286
## 1491	3337.11	4556.5	2588.4	4373.3	A_2	4373	3168.714	2008.086
## 1492	3289.59	4519.9	2574.0	4356.8	A_2	4357	3154.314	1993.686
## 1493	3305.72	4535.1	2596.8	4332.2	A_2	4333	3177.114	2016.486
## 1494	3247.03	4442.9	2553.7	4258.1	A_2	4259	3134.014	1973.386
## 1495	3288.52	4491.3	2587.1	4254.8	A_2	4255	3167.414	2006.786
## 1496	3302.57	4497.3	2579.3	4214.8	A_2	4215	3159.614	1998.986
## 1497	3374.93	4558.6	2624.3	4270.7	A_2	4271	3204.614	2043.986
## 1498	3439.22	4620.5	2648.7	4301.5	A_2	4301	3229.014	2068.386
## 1499	3407.83	4659.2	2656.7	4312.9	A_2	4313	3237.014	2076.386
## 1500	3407.83	4659.2	2656.7	4312.9	A_2	4313	3237.014	2076.386
## 1501	3407.83	4659.2	2656.7	4312.9	A_2	4313	3237.014	2076.386
## 1502	3281.46	4501.7	2581.8	4248.1	A_2	4249	3162.114	2001.486
## 1503	3210.94	4488.7	2530.3	4236.6	A_2	4237	3110.614	1949.986
## 1504	3212.82	4463.9	2514.5	4214.6	A_2	4215	3094.814	1934.186
## 1505	3235.35	4471.5	2518.0	4236.6	A_2	4237	3098.314	1937.686
## 1506	3342.77	4588.0	2572.3	4271.7	A_2	4271	3152.614	1991.986
## 1507	3328.13	4582.6	2579.0	4269.3	A_2	4269	3159.314	1998.686
## 1508	3364.76	4634.9	2617.6	4292.3	A_2	4293	3197.914	2037.286
## 1509	3352.58	4626.6	2608.0	4313.2	A_2	4313	3188.314	2027.686
## 1510	3319.24	4604.2	2574.6	4270.7	A_2	4271	3154.914	1994.286
## 1511	3297.52	4586.3	2566.1	4251.7	A_2	4251	3146.414	1985.786
## 1512	3369.26	4643.4	2620.6	4286.8	A_2	4287	3200.914	2040.286
## 1513	3347.54	4625.6	2621.0	4294.6	A_2	4295	3201.314	2040.686
## 1514	3361.80	4665.7	2615.2	4298.9	A_2	4299	3195.514	2034.886
## 1515	3361.20	4699.1	2547.6	4310.5	A_2	4311	3127.914	1967.286
## 1516	3328.41	4740.1	2522.7	4328.7	A_2	4329	3103.014	1942.386
## 1517	3348.90	4752.3	2514.7	4346.1	A_2	4347	3095.014	1934.386
## 1518	3366.87	4781.1	2533.6	4387.7	A_2	4387	3113.914	1953.286
## 1519	3396.49	4836.1	2539.8	4388.5	A_2	4389	3120.114	1959.486
## 1520	3357.57	4772.3	2536.3	4369.7	A_2	4369	3116.614	1955.986
## 1521	3372.96	4793.3	2550.3	4389.7	A_2	4389	3130.614	1969.986
## 1522	3425.86	4855.1	2602.9	4433.2	A_2	4433	3183.214	2022.586
## 1523	3438.09	4897.6	2639.5	4436.0	A_2	4437	3219.814	2059.186
## 1524	3438.09	4897.6	2639.5	4445.0	A_2	4445	3219.814	2059.186
## 1525	3491.08	4953.5	2655.3	4455.6	A_2	4455	3235.614	2074.986
## 1526	3565.69	5029.6	2672.8	4455.6	A_2	4455	3253.114	2092.486
## 1527	3548.52	4988.4	2651.9	4519.3	A_2	4519	3232.214	2071.586
## 1528	3537.45	5016.0	2643.3	4537.5	A_2	4537	3223.614	2062.986
## 1529	3537.45	5016.0	2643.3	4580.4	A_2	4581	3223.614	2062.986
## 1530	3533.21	5004.7	2633.9	4630.9	A_2	4631	3214.214	2053.586
## 1531	3593.14	5042.5	2693.1	4669.6	A_2	4669	3273.414	2112.786
## 1532	3559.29	5084.2	2719.6	4691.0	A_2	4691	3299.914	2139.286
## 1533	3588.57	5134.3	2774.6	4686.9	A_2	4687	3354.914	2194.286
## 1534	3564.85	5141.7	2776.0	4681.2	A_2	4681	3356.314	2195.686
## 1535	3569.26	5157.5	2784.3	4693.9	A_2	4693	3364.614	2203.986
## 1536	3569.26	5157.5	2784.3	4645.2	A_2	4645	3364.614	2203.986

## 1537	3516.20	5081.0	2751.1	4607.5	A_2	4607	3331.414	2170.786
## 1538	3600.40	5178.6	2786.4	4642.0	A_2	4643	3366.714	2206.086
## 1539	3575.44	5176.4	2741.7	4651.8	A_2	4651	3322.014	2161.386
## 1540	3621.72	5181.0	2762.9	4661.8	A_2	4661	3343.214	2182.586
## 1541	3669.31	5196.7	2654.7	4661.8	A_2	4661	3235.014	2074.386
## 1542	3665.43	5190.0	2680.3	4681.6	A_2	4681	3260.614	2099.986
## 1543	3626.60	5133.1	2583.2	4677.5	A_2	4677	3163.514	2002.886
## 1544	3635.38	5132.1	2579.2	4672.3	A_2	4673	3159.514	1998.886
## 1545	3562.73	5041.6	2583.9	4621.3	A_2	4621	3164.214	2003.586
## 1546	3596.40	5150.0	2601.5	4562.8	A_2	4563	3181.814	2021.186
## 1547	3655.59	5207.2	2624.5	4557.8	A_2	4557	3204.814	2044.186
## 1548	3651.59	5238.5	2635.4	4557.1	A_2	4557	3215.714	2055.086
## 1549	3684.60	5251.2	2690.9	4576.2	A_2	4577	3271.214	2110.586
## 1550	3700.53	5320.0	2719.3	4645.0	A_2	4645	3299.614	2138.986
## 1551	3668.61	5368.8	2686.2	4686.7	A_2	4687	3266.514	2105.886
## 1552	3671.16	5361.9	2664.2	4739.6	A_2	4739	3244.514	2083.886
## 1553	3671.87	5308.6	2696.2	4724.8	A_2	4725	3276.514	2115.886
## 1554	3737.16	5364.2	2760.3	4757.4	A_2	4757	3340.614	2179.986
## 1555	3752.37	5384.6	2808.5	4783.1	A_2	4783	3388.814	2228.186
## 1556	3750.02	5362.0	2795.9	4745.1	A_2	4745	3376.214	2215.586
## 1557	3721.18	5345.9	2762.6	4682.2	A_2	4683	3342.914	2182.286
## 1558	3730.56	5405.0	2751.7	4657.0	A_2	4657	3332.014	2171.386
## 1559	3777.56	5510.3	2739.7	4653.7	A_2	4653	3320.014	2159.386
## 1560	3788.54	5561.8	2757.1	4593.9	A_2	4593	3337.414	2176.786
## 1561	3748.79	5587.8	2762.2	4575.8	A_2	4575	3342.514	2181.886
## 1562	3761.07	5576.1	2784.8	4596.3	A_2	4597	3365.114	2204.486
## 1563	3819.52	5662.4	2867.4	4640.0	A_2	4641	3447.714	2287.086
## 1564	3820.16	5669.9	2893.6	4657.9	A_2	4657	3473.914	2313.286
## 1565	3809.92	5700.3	2891.0	4640.3	A_2	4641	3471.314	2310.686
## 1566	3766.89	5620.6	2858.3	4604.6	A_2	4605	3438.614	2277.986
## 1567	3834.84	5654.8	2944.0	4728.3	A_2	4729	3524.314	2363.686
## 1568	3867.53	5674.3	2909.5	4751.4	A_2	4751	3489.814	2329.186
## 1569	3939.73	5804.9	2937.0	4831.7	A_2	4831	3517.314	2356.686
## 1570	3946.73	5846.5	2934.5	4812.8	A_2	4813	3514.814	2354.186
## 1571	4003.35	5947.0	2947.7	4810.7	A_2	4811	3528.014	2367.386
## 1572	4030.10	6012.6	2929.8	4758.5	A_2	4759	3510.114	2349.486
## 1573	4026.97	5977.1	2950.6	4762.4	A_2	4763	3530.914	2370.286
## 1574	4000.65	5885.4	2929.1	4767.8	A_2	4767	3509.414	2348.786
## 1575	4074.30	5801.5	2941.6	4799.5	A_2	4799	3521.914	2361.286
## 1576	4142.19	5845.8	2941.6	4857.4	A_2	4857	3521.914	2361.286
## 1577	4139.68	5844.7	2950.7	4899.3	A_2	4899	3531.014	2370.386
## 1578	4223.69	5927.5	2988.0	4964.2	A_2	4965	3568.314	2407.686
## 1579	4203.91	5868.3	2958.6	4949.0	A_2	4949	3538.914	2378.286
## 1580	4131.94	5737.1	2876.7	4877.2	A_2	4877	3457.014	2296.386
## 1581	4139.96	5620.5	2874.1	4805.7	A_2	4805	3454.414	2293.786
## 1582	4297.64	5677.1	2921.1	4846.7	A_2	4847	3501.414	2340.786
## 1583	4384.82	5869.9	3003.5	4874.5	A_2	4875	3583.814	2423.186
## 1584	4320.52	5849.2	2973.5	4862.9	A_2	4863	3553.814	2393.186
## 1585	4368.54	5847.0	3025.9	4851.5	A_2	4851	3606.214	2445.586
## 1586	4400.30	5888.0	3022.2	4862.6	A_2	4863	3602.514	2441.886
## 1587	4377.70	5842.1	3023.6	4876.6	A_2	4877	3603.914	2443.286
## 1588	4458.66	5929.5	3069.3	4927.3	A_2	4927	3649.614	2488.986
## 1589	4405.52	5898.2	3075.7	4907.5	A_2	4907	3656.014	2495.386
## 1590	4336.98	5898.2	3049.5	4899.3	A_2	4899	3629.814	2469.186

## 1591	4302.50	5771.0	2992.4	4895.7	A_2	4895	3572.714	2412.086
## 1592	4325.86	5765.2	2984.1	4960.6	A_2	4961	3564.414	2403.786
## 1593	4364.25	5812.1	3037.1	5026.2	A_2	5027	3617.414	2456.786
## 1594	4428.08	5922.1	3056.3	5086.8	A_2	5087	3636.614	2475.986
## 1595	4342.31	5864.8	2996.3	5031.3	A_2	5031	3576.614	2415.986
## 1596	4333.15	5825.6	2983.4	5031.9	A_2	5031	3563.714	2403.086
## 1597	4377.51	5808.4	2998.6	5075.8	A_2	5075	3578.914	2418.286
## 1598	4237.06	5682.1	2924.0	5003.6	A_2	5003	3504.314	2343.686
## 1599	4195.53	5579.5	2921.8	4991.3	A_2	4991	3502.114	2341.486
## 1600	4077.59	5498.5	2921.8	4865.8	A_2	4865	3502.114	2341.486
## 1601	4080.55	5405.6	2870.1	4835.0	A_2	4835	3450.414	2289.786
## 1602	4190.45	5580.1	2936.2	4914.2	A_2	4915	3516.514	2355.886
## 1603	4251.93	5690.1	2979.3	4958.4	A_2	4959	3559.614	2398.986
## 1604	4204.81	5668.8	2957.2	4978.0	A_2	4979	3537.514	2376.886
## 1605	4090.14	5475.8	2904.2	4901.1	A_2	4901	3484.514	2323.886
## 1606	4076.75	5473.9	2898.6	4901.1	A_2	4901	3478.914	2318.286
## 1607	3993.70	5363.3	2869.3	4886.3	A_2	4887	3449.614	2288.986
## 1608	3992.03	5409.6	2871.7	4906.9	A_2	4907	3452.014	2291.386
## 1609	3897.43	5217.3	2828.4	4845.4	A_2	4845	3408.714	2248.086
## 1610	3919.79	5216.7	2770.5	4817.5	A_2	4817	3350.814	2190.186
## 1611	4001.81	5271.5	2805.8	4870.2	A_2	4871	3386.114	2225.486
## 1612	4127.28	5447.5	2921.2	4952.2	A_2	4953	3501.514	2340.886
## 1613	4062.13	5478.6	2918.0	4976.9	A_2	4977	3498.314	2337.686
## 1614	4093.43	5478.1	2927.0	4991.3	A_2	4991	3507.314	2346.686
## 1615	4073.71	5532.9	2924.5	4994.2	A_2	4995	3504.814	2344.186
## 1616	4131.26	5505.3	2940.9	4985.2	A_2	4985	3521.214	2360.586
## 1617	4104.57	5445.1	2919.7	4950.5	A_2	4951	3500.014	2339.386
## 1618	4028.00	5356.7	2874.6	4905.2	A_2	4905	3454.914	2294.286
## 1619	3890.24	5280.8	2843.6	4854.8	A_2	4855	3423.914	2263.286
## 1620	3796.61	5281.9	2834.1	4848.2	A_2	4849	3414.414	2253.786
## 1621	3869.53	5321.7	2898.6	4902.9	A_2	4903	3478.914	2318.286
## 1622	3995.69	5417.8	2940.6	4976.4	A_2	4977	3520.914	2360.286
## 1623	3970.44	5550.4	2944.0	5013.1	A_2	5013	3524.314	2363.686
## 1624	4004.04	5629.0	2978.4	5046.2	A_2	5047	3558.714	2398.086
## 1625	3983.06	5611.0	2977.2	5023.8	A_2	5023	3557.514	2396.886
## 1626	4096.85	5705.1	3017.5	5075.7	A_2	5075	3597.814	2437.186
## 1627	4091.77	5730.4	2997.2	5027.5	A_2	5027	3577.514	2416.886
## 1628	4150.95	5732.5	3023.7	5077.2	A_2	5077	3604.014	2443.386
## 1629	4104.93	5667.1	3005.4	5065.5	A_2	5065	3585.714	2425.086
## 1630	4135.09	5716.6	2985.6	5226.3	A_2	5227	3565.914	2405.286
## 1631	4116.52	5691.8	2989.0	5220.3	A_2	5221	3569.314	2408.686
## 1632	4154.89	5673.6	3008.3	5244.2	A_2	5245	3588.614	2427.986
## 1633	4262.98	5754.7	3054.9	5317.1	A_2	5317	3635.214	2474.586
## 1634	4266.17	5825.0	3052.1	5296.1	A_2	5297	3632.414	2471.786
## 1635	4266.17	5929.0	3094.0	5330.8	A_2	5331	3674.314	2513.686
## 1636	4326.35	5897.4	3078.0	5300.0	A_2	5301	3658.314	2497.686
## 1637	4311.13	5846.9	3064.4	5305.6	A_2	5305	3644.714	2484.086
## 1638	4267.40	5822.3	3024.1	5262.1	A_2	5263	3604.414	2443.786
## 1639	4179.92	5732.2	2960.7	5217.8	A_2	5217	3541.014	2380.386
## 1640	4164.62	5699.5	2955.1	5227.3	A_2	5227	3535.414	2374.786
## 1641	4225.27	5792.8	3002.9	5300.1	A_2	5301	3583.214	2422.586
## 1642	4215.23	5836.3	3002.5	5298.9	A_2	5299	3582.814	2422.186
## 1643	4168.62	5815.9	2992.2	5263.7	A_2	5263	3572.514	2411.886
## 1644	4149.92	5806.8	2992.9	5287.9	A_2	5287	3573.214	2412.586

## 1645	4049.16	5751.6	2958.0	5271.1	A_2	5271	3538.314	2377.686
## 1646	4069.25	5777.2	2946.7	5211.0	A_2	5211	3527.014	2366.386
## 1647	4172.47	5862.9	2989.9	5225.9	A_2	5225	3570.214	2409.586
## 1648	4124.86	5803.2	2958.1	5148.8	A_2	5149	3538.414	2377.786
## 1649	3976.38	5651.8	2856.9	4991.5	A_2	4991	3437.214	2276.586
## 1650	3981.44	5689.5	2849.0	4970.2	A_2	4971	3429.314	2268.686
## 1651	3871.39	5533.5	2769.6	4840.7	A_2	4841	3349.914	2189.286
## 1652	3645.69	5279.7	2651.3	4755.4	A_2	4755	3231.614	2070.986
## 1653	3806.66	5479.0	2818.0	4871.8	A_2	4871	3398.314	2237.686
## 1654	3748.88	5370.9	2739.5	4801.9	A_2	4801	3319.814	2159.186
## 1655	3753.66	5467.2	2739.3	4842.3	A_2	4843	3319.614	2158.986
## 1656	3847.73	5581.6	2788.0	4906.4	A_2	4907	3368.314	2207.686
## 1657	3784.80	5538.2	2774.9	4897.4	A_2	4897	3355.214	2194.586
## 1658	3841.39	5601.6	2822.4	4908.3	A_2	4909	3402.714	2242.086
## 1659	3813.88	5557.4	2781.8	4863.8	A_2	4863	3362.114	2201.486
## 1660	3715.38	5438.6	2707.1	4764.3	A_2	4765	3287.414	2126.786
## 1661	3728.37	5459.7	2707.1	4806.8	A_2	4807	3287.414	2126.786
## 1662	3734.79	5483.9	2707.1	4793.7	A_2	4793	3287.414	2126.786
## 1663	3697.48	5434.0	2694.5	4720.4	A_2	4721	3274.814	2114.186
## 1664	3701.94	5418.2	2700.7	4711.0	A_2	4711	3281.014	2120.386
## 1665	3676.65	5437.0	2698.9	4741.8	A_2	4741	3279.214	2118.586
## 1666	3816.71	5565.0	2773.0	4867.0	A_2	4867	3353.314	2192.686
## 1667	3844.14	5574.2	2782.6	4845.4	A_2	4845	3362.914	2202.286
## 1668	3876.90	5571.7	2790.6	4830.1	A_2	4831	3370.914	2210.286
## 1669	3931.81	5650.4	2821.2	4908.4	A_2	4909	3401.514	2240.886
## 1670	3941.91	5725.5	2861.7	4985.8	A_2	4985	3442.014	2281.386
## 1671	3832.10	5645.7	2802.5	4898.6	A_2	4899	3382.814	2222.186
## 1672	3850.14	5666.3	2786.3	4863.5	A_2	4863	3366.614	2205.986
## 1673	3926.93	5738.3	2811.7	4891.2	A_2	4891	3392.014	2231.386
## 1674	3961.97	5772.4	2829.0	4889.0	A_2	4889	3409.314	2248.686
## 1675	3972.08	5775.9	2854.4	4831.8	A_2	4831	3434.714	2274.086
## 1676	4125.92	5875.1	2918.5	4921.8	A_2	4921	3498.814	2338.186
## 1677	4096.40	5919.9	2913.1	4977.6	A_2	4977	3493.414	2332.786
## 1678	4074.55	5922.7	2902.4	4970.7	A_2	4971	3482.714	2322.086
## 1679	4159.72	5969.5	2914.5	5082.3	A_2	5083	3494.814	2334.186
## 1680	4191.81	6009.0	2910.1	5142.9	A_2	5143	3490.414	2329.786
## 1681	4208.14	6095.3	2932.5	5187.4	A_2	5187	3512.814	2352.186
## 1682	4187.13	6103.2	2959.4	5177.1	A_2	5177	3539.714	2379.086
## 1683	4116.70	6056.6	2932.2	5130.7	A_2	5131	3512.514	2351.886
## 1684	4016.70	6021.8	2828.5	5035.9	A_2	5035	3408.814	2248.186
## 1685	4061.91	6018.7	2830.3	5045.2	A_2	5045	3410.614	2249.986
## 1686	4029.08	5986.6	2838.3	5121.8	A_2	5121	3418.614	2257.986
## 1687	4150.31	6092.7	2912.2	5203.4	A_2	5203	3492.514	2331.886
## 1688	4154.57	6122.1	2893.3	5190.8	A_2	5191	3473.614	2312.986
## 1689	4162.92	6115.1	2894.5	5168.3	A_2	5169	3474.814	2314.186
## 1690	4055.35	5989.9	2822.9	5020.2	A_2	5021	3403.214	2242.586
## 1691	4125.54	6049.3	2869.7	5018.2	A_2	5019	3450.014	2289.386
## 1692	4132.79	6044.7	2858.1	5049.8	A_2	5049	3438.414	2277.786
## 1693	4132.79	6046.7	2874.1	5013.9	A_2	5013	3454.414	2293.786
## 1694	4132.79	6046.7	2874.1	5013.9	A_2	5013	3454.414	2293.786
## 1695	4132.79	6046.7	2875.1	5013.9	A_2	5013	3455.414	2294.786
## 1696	4266.02	6190.4	2939.5	5112.4	A_2	5113	3519.814	2359.186
## 1697	4224.30	6267.6	2975.5	5132.3	A_2	5133	3555.814	2395.186
## 1698	4224.30	6265.5	2998.9	5135.5	A_2	5135	3579.214	2418.586

## 1699	4224.30	6265.5	2998.9	5135.5	A_2	5135	3579.214	2418.586
## 1700	4364.32	6265.5	3038.7	5193.5	A_2	5193	3619.014	2458.386
## 1701	4416.95	6397.0	3072.8	5262.5	A_2	5263	3653.114	2492.486
## 1702	4360.05	6375.7	3037.7	5264.4	A_2	5265	3618.014	2457.386
## 1703	4339.98	6390.0	3006.7	5224.1	A_2	5225	3587.014	2426.386
## 1704	4293.64	6330.2	2954.9	5237.1	A_2	5237	3535.214	2374.586
## 1705	4237.75	6251.8	2919.8	5138.3	A_2	5139	3500.114	2339.486
## 1706	4134.64	6062.1	2862.5	5068.8	A_2	5069	3442.814	2282.186
## 1707	4150.01	6169.3	2902.9	5083.9	A_2	5083	3483.214	2322.586
## 1708	4145.41	6149.8	2919.8	5106.9	A_2	5107	3500.114	2339.486
## 1709	4140.22	6148.5	2932.8	5165.8	A_2	5165	3513.114	2352.486
## 1710	4216.24	6274.0	2976.1	5263.1	A_2	5263	3556.414	2395.786
## 1711	4290.05	6340.4	2987.0	5273.6	A_2	5273	3567.314	2406.686
## 1712	4310.83	6397.5	3008.3	5278.2	A_2	5279	3588.614	2427.986
## 1713	4250.47	6391.4	2998.1	5272.3	A_2	5273	3578.414	2417.786
## 1714	4238.77	6356.1	2988.6	5253.1	A_2	5253	3568.914	2408.286
## 1715	4222.16	6391.0	2966.2	5181.4	A_2	5181	3546.514	2385.886
## 1716	4266.34	6411.0	3000.5	5237.2	A_2	5237	3580.814	2420.186
## 1717	4316.05	6424.0	3052.0	5326.3	A_2	5327	3632.314	2471.686
## 1718	4385.29	6508.7	3088.3	5372.6	A_2	5373	3668.614	2507.986
## 1719	4444.53	6530.4	3133.8	5422.4	A_2	5423	3714.114	2553.486
## 1720	4442.53	6582.6	3172.1	5458.5	A_2	5459	3752.414	2591.786
## 1721	4529.88	6688.0	3187.5	5599.0	A_2	5599	3767.814	2607.186
## 1722	4529.18	6720.7	3188.4	5612.8	A_2	5613	3768.714	2608.086
## 1723	4509.25	6708.9	3166.3	5595.8	A_2	5595	3746.614	2585.986
## 1724	4494.72	6772.0	3189.6	5606.4	A_2	5607	3769.914	2609.286
## 1725	4536.91	6857.1	3216.7	5629.7	A_2	5629	3797.014	2636.386
## 1726	4519.56	6828.4	3220.9	5600.9	A_2	5601	3801.214	2640.586
## 1727	4558.62	6860.8	3235.8	5613.3	A_2	5613	3816.114	2655.486
## 1728	4552.46	6931.6	3240.0	5607.9	A_2	5607	3820.314	2659.686
## 1729	4509.37	6856.0	3178.7	5552.5	A_2	5553	3759.014	2598.386
## 1730	4522.42	6898.9	3187.7	5582.3	A_2	5583	3768.014	2607.386
## 1731	4535.56	6905.3	3225.1	5619.9	A_2	5619	3805.414	2644.786
## 1732	4627.42	6990.5	3280.5	5709.5	A_2	5709	3860.814	2700.186
## 1733	4611.66	6966.2	3281.7	5723.4	A_2	5723	3862.014	2701.386
## 1734	4581.08	6953.2	3250.6	5718.5	A_2	5719	3830.914	2670.286
## 1735	4583.03	6986.7	3262.5	5718.5	A_2	5719	3842.814	2682.186
## 1736	4610.66	6986.1	3273.5	5702.8	A_2	5703	3853.814	2693.186
## 1737	4604.55	6945.0	3262.3	5651.0	A_2	5651	3842.614	2681.986
## 1738	4704.58	7065.4	3348.2	5745.1	A_2	5745	3928.514	2767.886
## 1739	4695.78	7118.6	3397.0	5764.8	A_2	5765	3977.314	2816.686
## 1740	4693.86	7153.1	3421.9	5767.3	A_2	5767	4002.214	2841.586
## 1741	4781.62	7273.0	3446.7	5820.6	A_2	5821	4027.014	2866.386
## 1742	4759.62	7259.5	3414.9	5807.7	A_2	5807	3995.214	2834.586
## 1743	4690.52	7130.5	3381.3	5733.1	A_2	5733	3961.614	2800.986
## 1744	4676.42	7077.3	3395.8	5695.6	A_2	5695	3976.114	2815.486
## 1745	4762.71	7197.2	3483.2	5782.9	A_2	5783	4063.514	2902.886
## 1746	4828.89	7187.5	3525.9	5818.9	A_2	5819	4106.214	2945.586
## 1747	4852.22	7246.5	3521.5	5828.5	A_2	5829	4101.814	2941.186
## 1748	4862.41	7276.7	3539.4	5829.8	A_2	5829	4119.714	2959.086
## 1749	4838.67	7267.9	3526.6	5794.8	A_2	5795	4106.914	2946.286
## 1750	4872.24	7328.0	3540.2	5782.3	A_2	5783	4120.514	2959.886
## 1751	4905.59	7261.2	3598.3	5785.1	A_2	5785	4178.614	3017.986
## 1752	4945.91	7236.5	3661.3	5834.9	A_2	5835	4241.614	3080.986

## 1753	4908.55	7132.4	3652.5	5903.6	A_2	5903	4232.814	3072.186
## 1754	4949.91	7143.8	3688.7	5997.9	A_2	5997	4269.014	3108.386
## 1755	5045.16	7300.5	3688.9	5956.3	A_2	5957	4269.214	3108.586
## 1756	5014.13	7341.0	3680.1	5947.0	A_2	5947	4260.414	3099.786
## 1757	5064.35	7407.4	3738.5	5983.7	A_2	5983	4318.814	3158.186
## 1758	5114.13	7472.1	3818.7	5967.8	A_2	5967	4399.014	3238.386
## 1759	5029.00	7415.9	3783.8	5905.6	A_2	5905	4364.114	3203.486
## 1760	5066.90	7530.3	3810.2	5939.3	A_2	5939	4390.514	3229.886
## 1761	5069.89	7536.3	3800.2	5911.9	A_2	5911	4380.514	3219.886
## 1762	5097.25	7585.5	3875.3	5932.2	A_2	5933	4455.614	3294.986
## 1763	5135.35	7615.5	3883.3	6017.6	A_2	6017	4463.614	3302.986
## 1764	5179.04	7638.8	3935.9	6052.8	A_2	6053	4516.214	3355.586
## 1765	5254.32	7725.9	3932.0	6064.2	A_2	6065	4512.314	3351.686
## 1766	5345.89	7827.7	3986.8	6105.8	A_2	6105	4567.114	3406.486
## 1767	5309.67	7744.3	3903.3	6094.0	A_2	6095	4483.614	3322.986
## 1768	5267.35	7588.1	3873.9	6055.2	A_2	6055	4454.214	3293.586
## 1769	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186
## 1770	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186
## 1771	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186
## 1772	5367.98	7662.9	3867.7	6104.1	A_2	6105	4448.014	3287.386
## 1773	5359.24	7616.3	3884.6	6074.1	A_2	6075	4464.914	3304.286
## 1774	5292.97	7500.1	3845.9	6002.0	A_2	6003	4426.214	3265.586
## 1775	5326.63	7453.7	3861.6	5922.2	A_2	5923	4441.914	3281.286
## 1776	5407.93	7500.1	3885.7	5954.1	A_2	5955	4466.014	3305.386
## 1777	5373.80	7369.1	3860.4	5955.0	A_2	5955	4440.714	3280.086
## 1778	5312.28	7308.9	3835.1	5931.1	A_2	5931	4415.414	3254.786
## 1779	5262.57	7265.5	3822.1	5898.1	A_2	5899	4402.414	3241.786
## 1780	5144.42	7232.3	3788.7	5863.9	A_2	5863	4369.014	3208.386
## 1781	5002.71	7053.5	3689.4	5722.4	A_2	5723	4269.714	3109.086
## 1782	5110.88	7180.1	3777.2	5806.6	A_2	5807	4357.514	3196.886
## 1783	5083.80	7241.8	3726.2	5833.1	A_2	5833	4306.514	3145.886
## 1784	5241.23	7401.4	3867.9	5928.3	A_2	5929	4448.214	3287.586
## 1785	5241.23	7401.4	3867.9	6011.3	A_2	6011	4448.214	3287.586
## 1786	5337.75	7640.8	3979.3	6011.3	A_2	6011	4559.614	3398.986
## 1787	5226.20	7596.2	3945.5	5986.5	A_2	5987	4525.814	3365.186
## 1788	5264.62	7610.8	3947.5	5992.4	A_2	5993	4527.814	3367.186
## 1789	5164.89	7536.0	3912.8	5938.0	A_2	5939	4493.114	3332.486
## 1790	5270.61	7587.1	3912.8	5969.8	A_2	5969	4493.114	3332.486
## 1791	5348.75	7677.5	4007.3	6028.3	A_2	6029	4587.614	3426.986
## 1792	5307.82	7627.3	3986.1	5956.7	A_2	5957	4566.414	3405.786
## 1793	5371.99	7582.8	4018.5	5972.9	A_2	5973	4598.814	3438.186
## 1794	5374.11	7550.6	4012.0	5948.5	A_2	5949	4592.314	3431.686
## 1795	5414.31	7519.4	3990.2	5917.8	A_2	5917	4570.514	3409.886
## 1796	5343.66	7371.4	3945.3	5826.2	A_2	5827	4525.614	3364.986
## 1797	5441.00	7483.2	3980.8	5877.8	A_2	5877	4561.114	3400.486
## 1798	5514.51	7495.8	4047.9	5907.4	A_2	5907	4628.214	3467.586
## 1799	5514.51	7495.8	4047.9	5935.6	A_2	5935	4628.214	3467.586
## 1800	5530.19	7542.7	4049.8	5955.6	A_2	5955	4630.114	3469.486
## 1801	5592.46	7657.1	4108.7	5955.6	A_2	5955	4689.014	3528.386
## 1802	5639.89	7731.9	4115.9	5970.7	A_2	5971	4696.214	3535.586
## 1803	5466.88	7633.5	4017.4	5870.2	A_2	5871	4597.714	3437.086
## 1804	5507.36	7605.0	4014.9	5862.3	A_2	5863	4595.214	3434.586
## 1805	5556.99	7656.1	4041.2	5870.7	A_2	5871	4621.514	3460.886
## 1806	5556.99	7656.1	4041.2	5837.9	A_2	5837	4621.514	3460.886

## 1807	5583.83	7657.5	4087.0	5842.3	A_2	5843	4667.314	3506.686
## 1808	5640.42	7676.3	4149.4	5898.4	A_2	5899	4729.714	3569.086
## 1809	5605.38	7592.9	4119.0	5860.8	A_2	5861	4699.314	3538.686
## 1810	5724.75	7699.5	4185.1	5947.3	A_2	5947	4765.414	3604.786
## 1811	5787.05	7743.4	4204.6	6037.8	A_2	6037	4784.914	3624.286
## 1812	5773.77	7716.8	4201.9	6019.8	A_2	6019	4782.214	3621.586
## 1813	5799.22	7652.6	4208.6	5987.4	A_2	5987	4788.914	3628.286
## 1814	5799.22	7498.4	4141.6	5852.5	A_2	5853	4721.914	3561.286
## 1815	5631.34	7417.4	4050.8	5769.8	A_2	5769	4631.114	3470.486
## 1816	5581.24	7342.7	4005.3	5715.7	A_2	5715	4585.614	3424.986
## 1817	5621.71	7388.7	4013.3	5729.7	A_2	5729	4593.614	3432.986
## 1818	5742.83	7562.7	4092.9	5832.7	A_2	5833	4673.214	3512.586
## 1819	5689.89	7488.0	4052.3	5812.1	A_2	5813	4632.614	3471.986
## 1820	5644.22	7518.6	4027.3	5748.1	A_2	5749	4607.614	3446.986
## 1821	5648.11	7511.8	4018.6	5712.4	A_2	5713	4598.914	3438.286
## 1822	5748.34	7624.8	4065.0	5772.0	A_2	5773	4645.314	3484.686
## 1823	5784.40	7667.9	4126.3	5804.9	A_2	5805	4706.614	3545.986
## 1824	5886.72	7794.7	4203.8	5858.9	A_2	5859	4784.114	3623.486
## 1825	5870.49	7816.9	4215.7	5877.4	A_2	5877	4796.014	3635.386
## 1826	5933.73	7881.9	4248.2	5884.5	A_2	5885	4828.514	3667.886
## 1827	5841.83	7882.0	4203.5	5832.5	A_2	5833	4783.814	3623.186
## 1828	5910.51	8038.2	4260.7	5919.9	A_2	5919	4841.014	3680.386
## 1829	5905.15	8047.3	4252.1	5960.2	A_2	5961	4832.414	3671.786
## 1830	5961.45	8099.0	4304.4	5988.4	A_2	5989	4884.714	3724.086
## 1831	5942.06	8166.0	4311.1	5990.3	A_2	5991	4891.414	3730.786
## 1832	5975.88	8160.0	4333.1	6003.4	A_2	6003	4913.414	3752.786
## 1833	6018.89	8227.2	4339.9	6009.6	A_2	6009	4920.214	3759.586
## 1834	6000.84	8205.0	4319.2	5969.7	A_2	5969	4899.514	3738.886
## 1835	6001.24	8192.4	4256.4	5927.9	A_2	5927	4836.714	3676.086
## 1836	6023.31	8141.9	4256.4	5958.2	A_2	5959	4836.714	3676.086
## 1837	6101.90	8180.5	4256.4	6100.2	A_2	6101	4836.714	3676.086
## 1838	6106.10	8158.1	4344.3	6151.5	A_2	6151	4924.614	3763.986
## 1839	6108.00	8126.5	4358.1	6116.8	A_2	6117	4938.414	3777.786
## 1840	6162.86	8288.2	4388.5	6174.0	A_2	6175	4968.814	3808.186
## 1841	6186.09	8400.8	4368.9	6179.0	A_2	6179	4949.214	3788.586
## 1842	6184.10	8412.0	4322.1	6132.7	A_2	6133	4902.414	3741.786
## 1843	6081.11	8340.7	4220.1	5989.6	A_2	5989	4800.414	3639.786
## 1844	6043.82	8229.2	4235.9	5976.2	A_2	5977	4816.214	3655.586
## 1845	6040.58	8205.7	4205.4	5892.3	A_2	5893	4785.714	3625.086
## 1846	5854.35	7998.7	4139.5	5836.1	A_2	5837	4719.814	3559.186
## 1847	5867.52	8093.0	4122.4	5835.8	A_2	5835	4702.714	3542.086
## 1848	5828.74	8102.7	4139.2	5844.1	A_2	5845	4719.514	3558.886
## 1849	5906.33	8205.5	4197.6	5910.7	A_2	5911	4777.914	3617.286
## 1850	5861.19	8239.5	4177.3	5837.0	A_2	5837	4757.614	3596.986
## 1851	5774.38	8139.2	4095.0	5809.7	A_2	5809	4675.314	3514.686
## 1852	5718.70	8170.2	4047.9	5736.1	A_2	5737	4628.214	3467.586
## 1853	5614.77	7943.2	3976.4	5632.5	A_2	5633	4556.714	3396.086
## 1854	5528.12	7846.2	3968.6	5594.1	A_2	5595	4548.914	3388.286
## 1855	5598.32	7952.9	4041.9	5680.4	A_2	5681	4622.214	3461.586
## 1856	5460.43	7721.3	3939.5	5587.6	A_2	5587	4519.814	3359.186
## 1857	5285.78	7447.9	3846.0	5432.8	A_2	5433	4426.314	3265.686
## 1858	5386.94	7607.5	3945.7	5462.2	A_2	5463	4526.014	3365.386
## 1859	5355.03	7552.6	3951.7	5399.5	A_2	5399	4532.014	3371.386
## 1860	5473.72	7676.3	3995.0	5455.0	A_2	5455	4575.314	3414.686

8. Create a column that stores the final opening value as average of column OP1 and OP2.

```
eustock$FinalOP <- c((OP1 + OP2)/2)
eustock
```

##	DAX	SMI	CAC	FTSE	CAT_DAX	CAT_FTSE	OP1	OP2	FinalOP
## 1	1628.75	1678.1	1772.8	2443.6	A_1	2443	2353.114	1192.486	1772.8
## 2	1613.63	1688.5	1750.5	2460.2	A_1	2459	2330.814	1170.186	1750.5
## 3	1606.51	1678.6	1718.0	2448.2	A_1	2447	2298.314	1137.686	1718.0
## 4	1621.04	1684.1	1708.1	2470.4	A_1	2469	2288.414	1127.786	1708.1
## 5	1618.16	1686.6	1723.1	2484.7	A_1	2483	2303.414	1142.786	1723.1
## 6	1610.61	1671.6	1714.3	2466.8	A_1	2465	2294.614	1133.986	1714.3
## 7	1630.75	1682.9	1734.5	2487.9	A_1	2487	2314.814	1154.186	1734.5
## 8	1640.17	1703.6	1757.4	2508.4	A_1	2507	2337.714	1177.086	1757.4
## 9	1635.47	1697.5	1754.0	2510.5	A_1	2509	2334.314	1173.686	1754.0
## 10	1645.89	1716.3	1754.3	2497.4	A_1	2497	2334.614	1173.986	1754.3
## 11	1647.84	1723.8	1759.8	2532.5	A_1	2531	2340.114	1179.486	1759.8
## 12	1638.35	1730.5	1755.5	2556.8	A_1	2555	2335.814	1175.186	1755.5
## 13	1629.93	1727.4	1758.1	2561.0	A_1	2561	2338.414	1177.786	1758.1
## 14	1621.49	1733.3	1757.5	2547.3	A_1	2547	2337.814	1177.186	1757.5
## 15	1624.74	1734.0	1763.5	2541.5	A_1	2541	2343.814	1183.186	1763.5
## 16	1627.63	1728.3	1762.8	2558.5	A_1	2557	2343.114	1182.486	1762.8
## 17	1631.99	1737.1	1768.9	2587.9	A_1	2587	2349.214	1188.586	1768.9
## 18	1621.18	1723.1	1778.1	2580.5	A_1	2579	2358.414	1197.786	1778.1
## 19	1613.42	1723.6	1780.1	2579.6	A_1	2579	2360.414	1199.786	1780.1
## 20	1604.95	1719.0	1767.7	2589.3	A_1	2589	2348.014	1187.386	1767.7
## 21	1605.75	1721.2	1757.9	2595.0	A_1	2595	2338.214	1177.586	1757.9
## 22	1616.67	1725.3	1756.6	2595.6	A_1	2595	2336.914	1176.286	1756.6
## 23	1619.29	1727.2	1754.7	2588.8	A_1	2587	2335.014	1174.386	1754.7
## 24	1620.49	1727.2	1766.8	2591.7	A_1	2591	2347.114	1186.486	1766.8
## 25	1619.67	1731.6	1766.5	2601.7	A_1	2601	2346.814	1186.186	1766.5
## 26	1623.07	1724.1	1762.2	2585.4	A_1	2585	2342.514	1181.886	1762.2
## 27	1613.98	1716.9	1759.5	2573.3	A_1	2573	2339.814	1179.186	1759.5
## 28	1631.87	1723.4	1782.4	2597.4	A_1	2597	2362.714	1202.086	1782.4
## 29	1630.37	1723.0	1789.5	2600.6	A_1	2599	2369.814	1209.186	1789.5
## 30	1633.47	1728.4	1783.5	2570.6	A_1	2569	2363.814	1203.186	1783.5
## 31	1626.55	1722.1	1780.4	2569.4	A_1	2569	2360.714	1200.086	1780.4
## 32	1650.43	1724.5	1808.8	2584.9	A_1	2583	2389.114	1228.486	1808.8
## 33	1650.06	1733.6	1820.3	2608.8	A_1	2607	2400.614	1239.986	1820.3
## 34	1654.11	1739.0	1820.3	2617.2	A_1	2617	2400.614	1239.986	1820.3
## 35	1653.60	1726.2	1820.3	2621.0	A_1	2621	2400.614	1239.986	1820.3
## 36	1501.82	1587.4	1687.5	2540.5	A_1	2539	2267.814	1107.186	1687.5
## 37	1524.28	1630.6	1725.6	2554.5	A_1	2553	2305.914	1145.286	1725.6
## 38	1603.65	1685.5	1792.9	2601.9	A_1	2601	2373.214	1212.586	1792.9
## 39	1622.49	1701.3	1819.1	2623.0	A_1	2623	2399.414	1238.786	1819.1
## 40	1636.68	1718.0	1833.5	2640.7	A_1	2639	2413.814	1253.186	1833.5
## 41	1652.10	1726.2	1853.4	2640.7	A_1	2639	2433.714	1273.086	1853.4
## 42	1645.81	1716.6	1849.7	2619.8	A_1	2619	2430.014	1269.386	1849.7
## 43	1650.36	1725.8	1851.8	2624.2	A_1	2623	2432.114	1271.486	1851.8
## 44	1651.55	1737.4	1857.7	2638.2	A_1	2637	2438.014	1277.386	1857.7
## 45	1649.88	1736.6	1864.3	2645.7	A_1	2645	2444.614	1283.986	1864.3
## 46	1653.52	1732.4	1863.5	2679.6	A_1	2679	2443.814	1283.186	1863.5
## 47	1657.51	1731.2	1873.2	2669.0	A_1	2669	2453.514	1292.886	1873.2
## 48	1649.55	1726.9	1860.8	2664.6	A_1	2663	2441.114	1280.486	1860.8

## 49	1649.09	1727.8	1868.7	2663.3	A_1	2663	2449.014	1288.386	1868.7
## 50	1646.41	1720.2	1860.4	2667.4	A_1	2667	2440.714	1280.086	1860.4
## 51	1638.65	1715.4	1855.9	2653.2	A_1	2653	2436.214	1275.586	1855.9
## 52	1625.80	1708.7	1840.5	2630.8	A_1	2629	2420.814	1260.186	1840.5
## 53	1628.64	1713.0	1842.6	2626.6	A_1	2625	2422.914	1262.286	1842.6
## 54	1632.22	1713.5	1861.2	2641.9	A_1	2641	2441.514	1280.886	1861.2
## 55	1633.65	1718.0	1876.2	2625.8	A_1	2625	2456.514	1295.886	1876.2
## 56	1631.17	1701.7	1878.3	2606.0	A_1	2605	2458.614	1297.986	1878.3
## 57	1635.80	1701.7	1878.4	2594.4	A_1	2593	2458.714	1298.086	1878.4
## 58	1621.27	1684.9	1869.4	2583.6	A_1	2583	2449.714	1289.086	1869.4
## 59	1624.70	1687.2	1880.4	2588.7	A_1	2587	2460.714	1300.086	1880.4
## 60	1616.13	1690.6	1885.5	2600.3	A_1	2599	2465.814	1305.186	1885.5
## 61	1618.12	1684.3	1888.4	2579.5	A_1	2579	2468.714	1308.086	1888.4
## 62	1627.80	1679.9	1885.2	2576.6	A_1	2575	2465.514	1304.886	1885.2
## 63	1625.79	1672.9	1877.9	2597.8	A_1	2597	2458.214	1297.586	1877.9
## 64	1614.80	1663.1	1876.5	2595.6	A_1	2595	2456.814	1296.186	1876.5
## 65	1612.80	1669.3	1883.8	2599.0	A_1	2599	2464.114	1303.486	1883.8
## 66	1605.47	1664.7	1880.6	2621.7	A_1	2621	2460.914	1300.286	1880.6
## 67	1609.32	1672.3	1887.4	2645.6	A_1	2645	2467.714	1307.086	1887.4
## 68	1607.48	1687.7	1878.3	2644.2	A_1	2643	2458.614	1297.986	1878.3
## 69	1607.48	1686.8	1867.1	2625.6	A_1	2625	2447.414	1286.786	1867.1
## 70	1604.89	1686.6	1851.9	2624.6	A_1	2623	2432.214	1271.586	1851.9
## 71	1589.12	1675.8	1843.6	2596.2	A_1	2595	2423.914	1263.286	1843.6
## 72	1582.27	1677.4	1848.1	2599.5	A_1	2599	2428.414	1267.786	1848.1
## 73	1567.99	1673.2	1843.4	2584.1	A_1	2583	2423.714	1263.086	1843.4
## 74	1568.16	1665.0	1843.6	2570.8	A_1	2569	2423.914	1263.286	1843.6
## 75	1569.71	1671.3	1833.8	2555.0	A_1	2555	2414.114	1253.486	1833.8
## 76	1571.74	1672.4	1833.4	2574.5	A_1	2573	2413.714	1253.086	1833.4
## 77	1585.41	1676.2	1856.9	2576.7	A_1	2575	2437.214	1276.586	1856.9
## 78	1570.01	1692.6	1863.4	2579.0	A_1	2579	2443.714	1283.086	1863.4
## 79	1561.89	1696.5	1855.5	2588.7	A_1	2587	2435.814	1275.186	1855.5
## 80	1565.18	1716.1	1864.2	2601.1	A_1	2601	2444.514	1283.886	1864.2
## 81	1570.34	1713.3	1846.0	2575.7	A_1	2575	2426.314	1265.686	1846.0
## 82	1577.00	1705.1	1836.8	2559.5	A_1	2559	2417.114	1256.486	1836.8
## 83	1590.29	1711.3	1830.4	2561.1	A_1	2561	2410.714	1250.086	1830.4
## 84	1572.72	1709.8	1831.6	2528.3	A_1	2527	2411.914	1251.286	1831.6
## 85	1572.07	1688.6	1834.8	2514.7	A_1	2513	2415.114	1254.486	1834.8
## 86	1579.19	1698.9	1852.1	2558.5	A_1	2557	2432.414	1271.786	1852.1
## 87	1588.73	1700.0	1849.8	2553.3	A_1	2553	2430.114	1269.486	1849.8
## 88	1586.01	1693.0	1861.8	2577.1	A_1	2577	2442.114	1281.486	1861.8
## 89	1579.77	1683.9	1856.7	2566.0	A_1	2565	2437.014	1276.386	1856.7
## 90	1572.58	1679.2	1856.7	2549.5	A_1	2549	2437.014	1276.386	1856.7
## 91	1568.09	1673.9	1841.5	2527.8	A_1	2527	2421.814	1261.186	1841.5
## 92	1578.21	1683.9	1846.9	2540.9	A_1	2539	2427.214	1266.586	1846.9
## 93	1573.94	1688.4	1836.1	2534.2	A_1	2533	2416.414	1255.786	1836.1
## 94	1582.06	1693.9	1838.6	2538.0	A_1	2537	2418.914	1258.286	1838.6
## 95	1610.18	1720.9	1857.6	2559.0	A_1	2559	2437.914	1277.286	1857.6
## 96	1605.16	1717.9	1857.6	2554.9	A_1	2553	2437.914	1277.286	1857.6
## 97	1623.84	1733.6	1858.4	2575.5	A_1	2575	2438.714	1278.086	1858.4
## 98	1615.26	1729.7	1846.8	2546.5	A_1	2545	2427.114	1266.486	1846.8
## 99	1627.08	1735.6	1868.5	2561.6	A_1	2561	2448.814	1288.186	1868.5
## 100	1626.97	1734.1	1863.2	2546.6	A_1	2545	2443.514	1282.886	1863.2
## 101	1605.70	1699.3	1808.3	2502.9	A_1	2501	2388.614	1227.986	1808.3
## 102	1589.70	1678.6	1765.1	2463.1	A_1	2463	2345.414	1184.786	1765.1

## 103	1589.70	1675.5	1763.5	2472.6	A_1	2471	2343.814	1183.186	1763.5
## 104	1603.26	1670.1	1766.0	2463.5	A_1	2463	2346.314	1185.686	1766.0
## 105	1599.75	1652.2	1741.3	2446.3	A_1	2445	2321.614	1160.986	1741.3
## 106	1590.86	1635.0	1743.3	2456.2	A_1	2455	2323.614	1162.986	1743.3
## 107	1603.50	1654.9	1769.0	2471.5	A_1	2471	2349.314	1188.686	1769.0
## 108	1589.86	1642.0	1757.9	2447.5	A_1	2447	2338.214	1177.586	1757.9
## 109	1587.92	1638.7	1754.9	2428.6	A_1	2427	2335.214	1174.586	1754.9
## 110	1571.06	1622.6	1739.7	2420.2	A_1	2419	2320.014	1159.386	1739.7
## 111	1549.81	1596.1	1708.8	2414.9	A_1	2413	2289.114	1128.486	1708.8
## 112	1549.36	1612.4	1722.2	2420.2	A_1	2419	2302.514	1141.886	1722.2
## 113	1554.65	1625.0	1713.9	2423.8	A_1	2423	2294.214	1133.586	1713.9
## 114	1557.52	1610.5	1703.2	2407.0	A_1	2407	2283.514	1122.886	1703.2
## 115	1555.31	1606.6	1685.7	2388.7	A_1	2387	2266.014	1105.386	1685.7
## 116	1559.76	1610.7	1663.4	2409.6	A_1	2409	2243.714	1083.086	1663.4
## 117	1548.44	1603.1	1636.9	2392.0	A_1	2391	2217.214	1056.586	1636.9
## 118	1543.99	1591.5	1645.6	2380.2	A_1	2379	2225.914	1065.286	1645.6
## 119	1550.21	1605.2	1671.6	2423.3	A_1	2423	2251.914	1091.286	1671.6
## 120	1557.03	1621.4	1688.3	2451.6	A_1	2451	2268.614	1107.986	1688.3
## 121	1551.78	1622.5	1696.8	2440.8	A_1	2439	2277.114	1116.486	1696.8
## 122	1562.89	1626.6	1711.7	2432.9	A_1	2431	2292.014	1131.386	1711.7
## 123	1570.28	1627.4	1706.2	2413.6	A_1	2413	2286.514	1125.886	1706.2
## 124	1559.26	1614.9	1684.2	2391.6	A_1	2391	2264.514	1103.886	1684.2
## 125	1545.87	1602.3	1648.5	2358.1	A_1	2357	2228.814	1068.186	1648.5
## 126	1542.77	1598.3	1633.6	2345.4	A_1	2345	2213.914	1053.286	1633.6
## 127	1542.77	1627.0	1699.1	2384.4	A_1	2383	2279.414	1118.786	1699.1
## 128	1542.77	1627.0	1699.1	2384.4	A_1	2383	2279.414	1118.786	1699.1
## 129	1542.77	1627.0	1722.5	2384.4	A_1	2383	2302.814	1142.186	1722.5
## 130	1564.27	1655.7	1720.7	2418.7	A_1	2417	2301.014	1140.386	1720.7
## 131	1577.26	1670.1	1741.9	2420.0	A_1	2419	2322.214	1161.586	1741.9
## 132	1577.26	1670.1	1765.7	2493.1	A_1	2493	2346.014	1185.386	1765.7
## 133	1577.26	1670.1	1765.7	2493.1	A_1	2493	2346.014	1185.386	1765.7
## 134	1598.19	1670.1	1749.9	2492.8	A_1	2491	2330.214	1169.586	1749.9
## 135	1604.05	1704.0	1770.3	2504.1	A_1	2503	2350.614	1189.986	1770.3
## 136	1604.69	1711.8	1787.6	2493.2	A_1	2493	2367.914	1207.286	1787.6
## 137	1593.65	1700.5	1778.7	2482.9	A_1	2481	2359.014	1198.386	1778.7
## 138	1581.68	1690.3	1785.6	2467.1	A_1	2467	2365.914	1205.286	1785.6
## 139	1599.14	1715.4	1833.9	2497.9	A_1	2497	2414.214	1253.586	1833.9
## 140	1613.82	1723.5	1837.4	2477.9	A_1	2477	2417.714	1257.086	1837.4
## 141	1620.45	1719.4	1824.3	2490.1	A_1	2489	2404.614	1243.986	1824.3
## 142	1629.51	1734.4	1843.8	2516.3	A_1	2515	2424.114	1263.486	1843.8
## 143	1663.70	1772.8	1873.6	2537.1	A_1	2537	2453.914	1293.286	1873.6
## 144	1664.09	1760.3	1860.2	2541.6	A_1	2541	2440.514	1279.886	1860.2
## 145	1669.29	1747.2	1860.2	2536.7	A_1	2535	2440.514	1279.886	1860.2
## 146	1685.14	1750.2	1865.9	2544.9	A_1	2543	2446.214	1285.586	1865.9
## 147	1687.07	1755.3	1867.9	2543.4	A_1	2543	2448.214	1287.586	1867.9
## 148	1680.13	1754.6	1841.3	2522.0	A_1	2521	2421.614	1260.986	1841.3
## 149	1671.84	1751.2	1838.7	2525.3	A_1	2525	2419.014	1258.386	1838.7
## 150	1669.52	1752.5	1849.9	2510.4	A_1	2509	2430.214	1269.586	1849.9
## 151	1686.71	1769.4	1869.3	2539.9	A_1	2539	2449.614	1288.986	1869.3
## 152	1685.51	1767.6	1890.6	2552.0	A_1	2551	2470.914	1310.286	1890.6
## 153	1671.01	1750.0	1879.6	2546.5	A_1	2545	2459.914	1299.286	1879.6
## 154	1683.06	1747.1	1873.9	2550.8	A_1	2549	2454.214	1293.586	1873.9
## 155	1685.70	1753.5	1875.3	2571.2	A_1	2571	2455.614	1294.986	1875.3
## 156	1685.66	1752.8	1857.0	2560.2	A_1	2559	2437.314	1276.686	1857.0

## 157	1678.77	1752.9	1856.5	2556.8	A_1	2555	2436.814	1276.186	1856.5
## 158	1685.85	1764.7	1865.8	2547.1	A_1	2547	2446.114	1285.486	1865.8
## 159	1683.71	1776.8	1860.6	2534.3	A_1	2533	2440.914	1280.286	1860.6
## 160	1686.59	1779.3	1861.6	2517.2	A_1	2517	2441.914	1281.286	1861.6
## 161	1683.73	1785.1	1865.6	2538.4	A_1	2537	2445.914	1285.286	1865.6
## 162	1679.14	1798.2	1864.1	2537.1	A_1	2537	2444.414	1283.786	1864.1
## 163	1685.03	1794.1	1861.6	2523.7	A_1	2523	2441.914	1281.286	1861.6
## 164	1680.81	1795.2	1876.5	2522.6	A_1	2521	2456.814	1296.186	1876.5
## 165	1676.17	1780.4	1865.1	2513.9	A_1	2513	2445.414	1284.786	1865.1
## 166	1688.46	1789.5	1882.1	2541.0	A_1	2541	2462.414	1301.786	1882.1
## 167	1696.55	1794.2	1912.2	2555.9	A_1	2555	2492.514	1331.886	1912.2
## 168	1690.24	1784.4	1915.4	2536.7	A_1	2535	2495.714	1335.086	1915.4
## 169	1711.35	1800.1	1951.2	2543.4	A_1	2543	2531.514	1370.886	1951.2
## 170	1711.29	1804.0	1962.4	2542.3	A_1	2541	2542.714	1382.086	1962.4
## 171	1729.86	1816.2	1976.5	2559.7	A_1	2559	2556.814	1396.186	1976.5
## 172	1716.63	1810.5	1953.5	2546.8	A_1	2545	2533.814	1373.186	1953.5
## 173	1743.36	1821.9	1981.3	2565.0	A_1	2565	2561.614	1400.986	1981.3
## 174	1745.17	1828.2	1985.1	2562.0	A_3	2561	2565.414	1404.786	1985.1
## 175	1746.76	1840.6	1983.4	2562.1	A_3	2561	2563.714	1403.086	1983.4
## 176	1749.29	1841.1	1979.7	2554.3	A_3	2553	2560.014	1399.386	1979.7
## 177	1763.86	1846.3	1983.8	2565.4	A_3	2565	2564.114	1403.486	1983.8
## 178	1762.27	1850.0	1988.1	2558.4	A_3	2557	2568.414	1407.786	1988.1
## 179	1762.29	1839.0	1973.0	2538.3	A_3	2537	2553.314	1392.686	1973.0
## 180	1746.77	1820.2	1966.9	2533.1	A_3	2533	2547.214	1386.586	1966.9
## 181	1753.50	1815.2	1976.3	2550.7	A_3	2549	2556.614	1395.986	1976.3
## 182	1753.21	1820.6	1993.9	2574.8	A_3	2573	2574.214	1413.586	1993.9
## 183	1739.88	1807.1	1968.0	2522.4	A_1	2521	2548.314	1387.686	1968.0
## 184	1723.92	1791.4	1941.8	2493.3	A_1	2493	2522.114	1361.486	1941.8
## 185	1734.42	1806.2	1947.1	2476.0	A_1	2475	2527.414	1366.786	1947.1
## 186	1723.13	1798.7	1929.2	2470.7	A_1	2469	2509.514	1348.886	1929.2
## 187	1732.92	1818.2	1943.6	2491.2	A_1	2491	2523.914	1363.286	1943.6
## 188	1729.89	1820.5	1928.2	2464.7	A_1	2463	2508.514	1347.886	1928.2
## 189	1725.74	1833.3	1922.0	2467.6	A_1	2467	2502.314	1341.686	1922.0
## 190	1730.90	1837.1	1919.1	2456.6	A_1	2455	2499.414	1338.786	1919.1
## 191	1714.17	1818.2	1884.6	2441.0	A_1	2441	2464.914	1304.286	1884.6
## 192	1716.20	1824.1	1896.3	2458.7	A_1	2457	2476.614	1315.986	1896.3
## 193	1719.06	1830.1	1928.3	2464.9	A_1	2463	2508.614	1347.986	1928.3
## 194	1718.21	1835.6	1934.8	2472.2	A_1	2471	2515.114	1354.486	1934.8
## 195	1698.84	1828.7	1923.5	2447.9	A_1	2447	2503.814	1343.186	1923.5
## 196	1714.76	1839.2	1943.8	2452.9	A_1	2451	2524.114	1363.486	1943.8
## 197	1718.35	1837.2	1942.4	2440.1	A_1	2439	2522.714	1362.086	1942.4
## 198	1706.69	1826.7	1928.1	2408.6	A_1	2407	2508.414	1347.786	1928.1
## 199	1723.37	1838.0	1942.0	2405.4	A_1	2405	2522.314	1361.686	1942.0
## 200	1716.18	1829.1	1942.7	2382.7	A_1	2381	2523.014	1362.386	1942.7
## 201	1738.78	1843.1	1974.8	2400.9	A_1	2399	2555.114	1394.486	1974.8
## 202	1737.41	1850.5	1975.4	2404.2	A_1	2403	2555.714	1395.086	1975.4
## 203	1714.77	1827.1	1907.5	2393.2	A_1	2393	2487.814	1327.186	1907.5
## 204	1724.24	1829.1	1943.6	2436.4	A_1	2435	2523.914	1363.286	1943.6
## 205	1733.77	1848.0	1974.1	2572.6	A_1	2571	2554.414	1393.786	1974.1
## 206	1729.96	1840.5	1963.3	2591.0	A_1	2591	2543.614	1382.986	1963.3
## 207	1734.46	1853.8	1972.3	2600.5	A_1	2599	2552.614	1391.986	1972.3
## 208	1744.35	1874.1	1990.7	2640.2	A_3	2639	2571.014	1410.386	1990.7
## 209	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886	1978.2
## 210	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886	1978.2

## 211	1746.88	1871.3	1978.2	2638.6	A_3	2637	2558.514	1397.886	1978.2
## 212	1747.47	1860.5	1980.4	2625.8	A_3	2625	2560.714	1400.086	1980.4
## 213	1753.10	1874.7	1983.7	2607.8	A_3	2607	2564.014	1403.386	1983.7
## 214	1745.17	1880.1	1978.1	2609.8	A_3	2609	2558.414	1397.786	1978.1
## 215	1745.72	1874.7	1984.9	2643.0	A_3	2643	2565.214	1404.586	1984.9
## 216	1742.92	1875.6	1995.7	2658.2	A_1	2657	2576.014	1415.386	1995.7
## 217	1731.68	1859.5	2006.6	2651.0	A_1	2651	2586.914	1426.286	2006.6
## 218	1731.18	1874.2	2036.7	2664.9	A_1	2663	2617.014	1456.386	2036.7
## 219	1728.09	1880.1	2031.1	2654.1	A_1	2653	2611.414	1450.786	2031.1
## 220	1728.09	1880.1	2031.1	2659.8	A_1	2659	2611.414	1450.786	2031.1
## 221	1731.29	1907.7	2041.6	2659.8	A_1	2659	2621.914	1461.286	2041.6
## 222	1733.82	1920.5	2046.9	2662.2	A_1	2661	2627.214	1466.586	2046.9
## 223	1745.78	1937.3	2047.2	2698.7	A_3	2697	2627.514	1466.886	2047.2
## 224	1752.57	1936.8	2063.4	2701.9	A_3	2701	2643.714	1483.086	2063.4
## 225	1748.13	1949.1	2063.4	2725.7	A_3	2725	2643.714	1483.086	2063.4
## 226	1750.70	1963.7	2077.5	2737.8	A_3	2737	2657.814	1497.186	2077.5
## 227	1747.91	1950.8	2063.6	2722.4	A_3	2721	2643.914	1483.286	2063.6
## 228	1745.79	1953.5	2053.2	2720.5	A_3	2719	2633.514	1472.886	2053.2
## 229	1735.34	1945.0	2017.0	2694.7	A_1	2693	2597.314	1436.686	2017.0
## 230	1719.92	1921.1	2024.0	2682.6	A_1	2681	2604.314	1443.686	2024.0
## 231	1763.59	1939.1	2051.6	2703.6	A_3	2703	2631.914	1471.286	2051.6
## 232	1766.76	1928.0	2023.1	2700.6	A_3	2699	2603.414	1442.786	2023.1
## 233	1785.40	1933.4	2030.8	2711.9	A_3	2711	2611.114	1450.486	2030.8
## 234	1783.56	1925.7	2016.8	2702.0	A_3	2701	2597.114	1436.486	2016.8
## 235	1804.42	1931.7	2045.1	2715.0	A_3	2715	2625.414	1464.786	2045.1
## 236	1812.33	1928.7	2046.3	2715.0	A_3	2715	2626.614	1465.986	2046.3
## 237	1799.51	1924.5	2029.6	2704.6	A_3	2703	2609.914	1449.286	2029.6
## 238	1792.80	1914.2	2014.1	2698.6	A_3	2697	2594.414	1433.786	2014.1
## 239	1792.80	1914.2	2014.1	2694.2	A_3	2693	2594.414	1433.786	2014.1
## 240	1806.36	1920.6	2033.3	2707.6	A_3	2707	2613.614	1452.986	2033.3
## 241	1798.23	1923.3	2017.4	2697.6	A_3	2697	2597.714	1437.086	2017.4
## 242	1800.62	1930.4	2024.9	2705.9	A_3	2705	2605.214	1444.586	2024.9
## 243	1786.19	1915.2	1992.6	2680.9	A_3	2679	2572.914	1412.286	1992.6
## 244	1791.35	1916.9	1994.9	2681.9	A_3	2681	2575.214	1414.586	1994.9
## 245	1789.05	1913.8	1981.6	2668.5	A_3	2667	2561.914	1401.286	1981.6
## 246	1789.05	1913.8	1981.6	2645.8	A_3	2645	2561.914	1401.286	1981.6
## 247	1784.71	1899.7	1962.2	2635.4	A_3	2635	2542.514	1381.886	1962.2
## 248	1789.45	1888.0	1953.7	2636.1	A_3	2635	2534.014	1373.386	1953.7
## 249	1779.74	1868.8	1928.8	2614.1	A_3	2613	2509.114	1348.486	1928.8
## 250	1786.97	1879.9	1928.3	2603.7	A_3	2603	2508.614	1347.986	1928.3
## 251	1773.25	1865.7	1918.1	2593.6	A_3	2593	2498.414	1337.786	1918.1
## 252	1781.62	1881.3	1931.4	2616.3	A_3	2615	2511.714	1351.086	1931.4
## 253	1773.75	1873.1	1908.8	2598.4	A_3	2597	2489.114	1328.486	1908.8
## 254	1773.75	1862.5	1891.8	2562.7	A_3	2561	2472.114	1311.486	1891.8
## 255	1776.34	1869.3	1913.9	2584.8	A_3	2583	2494.214	1333.586	1913.9
## 256	1770.72	1846.9	1885.8	2550.3	A_3	2549	2466.114	1305.486	1885.8
## 257	1772.39	1847.1	1895.8	2560.6	A_3	2559	2476.114	1315.486	1895.8
## 258	1762.55	1838.3	1899.6	2532.6	A_3	2531	2479.914	1319.286	1899.6
## 259	1764.35	1845.8	1920.3	2557.3	A_3	2557	2500.614	1339.986	1920.3
## 260	1752.83	1835.5	1915.3	2534.1	A_3	2533	2495.614	1334.986	1915.3
## 261	1755.98	1846.6	1907.3	2515.8	A_3	2515	2487.614	1326.986	1907.3
## 262	1754.95	1854.8	1900.6	2521.2	A_3	2521	2480.914	1320.286	1900.6
## 263	1759.90	1845.3	1880.9	2493.9	A_3	2493	2461.214	1300.586	1880.9
## 264	1759.84	1854.5	1873.5	2476.1	A_3	2475	2453.814	1293.186	1873.5

## 265	1776.50	1870.5	1883.6	2497.1	A_3	2497	2463.914	1303.286	1883.6
## 266	1769.98	1862.6	1868.5	2469.0	A_3	2469	2448.814	1288.186	1868.5
## 267	1766.98	1856.6	1879.1	2493.7	A_3	2493	2459.414	1298.786	1879.1
## 268	1752.29	1837.6	1847.8	2472.6	A_3	2471	2428.114	1267.486	1847.8
## 269	1760.17	1846.7	1861.8	2497.9	A_3	2497	2442.114	1281.486	1861.8
## 270	1750.32	1856.5	1859.4	2490.8	A_3	2489	2439.714	1279.086	1859.4
## 271	1731.44	1841.8	1859.4	2478.3	A_1	2477	2439.714	1279.086	1859.4
## 272	1735.51	1835.0	1859.4	2484.0	A_1	2483	2439.714	1279.086	1859.4
## 273	1733.84	1844.4	1853.3	2486.4	A_1	2485	2433.614	1272.986	1853.3
## 274	1730.78	1838.9	1851.2	2483.4	A_1	2483	2431.514	1270.886	1851.2
## 275	1699.46	1805.6	1801.8	2431.9	A_1	2431	2382.114	1221.486	1801.8
## 276	1652.71	1756.6	1767.9	2403.7	A_1	2403	2348.214	1187.586	1767.9
## 277	1654.09	1786.1	1762.7	2415.6	A_1	2415	2343.014	1182.386	1762.7
## 278	1636.81	1757.1	1727.5	2387.9	A_1	2387	2307.814	1147.186	1727.5
## 279	1622.81	1762.8	1734.6	2399.5	A_1	2399	2314.914	1154.286	1734.6
## 280	1613.36	1756.8	1734.6	2377.2	A_1	2377	2314.914	1154.286	1734.6
## 281	1617.78	1761.9	1755.4	2348.0	A_1	2347	2335.714	1175.086	1755.4
## 282	1617.18	1778.5	1769.0	2373.4	A_1	2373	2349.314	1188.686	1769.0
## 283	1637.62	1812.7	1801.6	2423.2	A_1	2423	2381.914	1221.286	1801.6
## 284	1622.20	1806.1	1782.6	2411.6	A_1	2411	2362.914	1202.286	1782.6
## 285	1608.49	1798.1	1754.7	2399.6	A_1	2399	2335.014	1174.386	1754.7
## 286	1605.11	1794.9	1784.4	2420.2	A_1	2419	2364.714	1204.086	1784.4
## 287	1609.61	1805.4	1787.6	2407.5	A_1	2407	2367.914	1207.286	1787.6
## 288	1624.94	1820.3	1798.0	2392.8	A_1	2391	2378.314	1217.686	1798.0
## 289	1618.07	1819.6	1793.8	2377.6	A_1	2377	2374.114	1213.486	1793.8
## 290	1611.96	1809.6	1777.3	2350.1	A_1	2349	2357.614	1196.986	1777.3
## 291	1578.95	1799.9	1755.2	2325.7	A_1	2325	2335.514	1174.886	1755.2
## 292	1561.39	1800.3	1737.8	2309.6	A_1	2309	2318.114	1157.486	1737.8
## 293	1547.87	1793.3	1730.1	2303.1	A_1	2303	2310.414	1149.786	1730.1
## 294	1548.63	1784.8	1722.4	2318.0	A_1	2317	2302.714	1142.086	1722.4
## 295	1560.16	1791.7	1753.5	2356.8	A_1	2355	2333.814	1173.186	1753.5
## 296	1554.76	1800.2	1757.3	2376.1	A_1	2375	2337.614	1176.986	1757.3
## 297	1531.87	1788.6	1736.7	2354.7	A_1	2353	2317.014	1156.386	1736.7
## 298	1526.14	1775.7	1734.2	2363.5	A_1	2363	2314.514	1153.886	1734.2
## 299	1509.03	1753.5	1724.2	2359.4	A_1	2359	2304.514	1143.886	1724.2
## 300	1530.03	1768.2	1744.2	2365.7	A_1	2365	2324.514	1163.886	1744.2
## 301	1484.97	1727.9	1689.7	2311.1	A_1	2311	2270.014	1109.386	1689.7
## 302	1464.03	1709.6	1667.7	2281.0	A_1	2281	2248.014	1087.386	1667.7
## 303	1475.11	1704.6	1667.8	2285.0	A_1	2285	2248.114	1087.486	1667.8
## 304	1516.12	1740.6	1687.6	2311.6	A_1	2311	2267.914	1107.286	1687.6
## 305	1519.69	1745.7	1687.5	2312.6	A_1	2311	2267.814	1107.186	1687.5
## 306	1529.97	1751.7	1684.9	2312.6	A_1	2311	2265.214	1104.586	1684.9
## 307	1516.44	1747.3	1674.2	2298.4	A_1	2297	2254.514	1093.886	1674.2
## 308	1515.53	1757.8	1711.4	2313.0	A_1	2313	2291.714	1131.086	1711.4
## 309	1543.89	1774.2	1780.5	2381.9	A_1	2381	2360.814	1200.186	1780.5
## 310	1534.72	1774.4	1779.0	2362.2	A_1	2361	2359.314	1198.686	1779.0
## 311	1538.66	1788.3	1779.3	2372.2	A_1	2371	2359.614	1198.986	1779.3
## 312	1536.71	1788.0	1763.7	2337.7	A_1	2337	2344.014	1183.386	1763.7
## 313	1523.83	1779.1	1756.8	2327.5	A_1	2327	2337.114	1176.486	1756.8
## 314	1527.10	1792.8	1774.2	2340.6	A_1	2339	2354.514	1193.886	1774.2
## 315	1530.20	1812.0	1802.0	2370.9	A_1	2369	2382.314	1221.686	1802.0
## 316	1601.50	1872.1	1873.6	2422.1	A_1	2421	2453.914	1293.286	1873.6
## 317	1580.29	1851.4	1836.2	2370.0	A_1	2369	2416.514	1255.886	1836.2
## 318	1595.09	1873.4	1859.8	2378.3	A_1	2377	2440.114	1279.486	1859.8

## 319	1579.47	1889.6	1852.7	2483.9	A_1	2483	2433.014	1272.386	1852.7
## 320	1600.59	1897.5	1882.9	2567.0	A_1	2567	2463.214	1302.586	1882.9
## 321	1566.00	1888.8	1826.1	2560.1	A_1	2559	2406.414	1245.786	1826.1
## 322	1557.01	1900.4	1832.8	2586.0	A_1	2585	2413.114	1252.486	1832.8
## 323	1542.74	1913.4	1828.9	2580.5	A_1	2579	2409.214	1248.586	1828.9
## 324	1536.30	1909.9	1829.5	2621.2	A_1	2621	2409.814	1249.186	1829.5
## 325	1510.66	1910.8	1843.5	2601.0	A_1	2601	2423.814	1263.186	1843.5
## 326	1481.03	1879.2	1770.3	2560.0	A_1	2559	2350.614	1189.986	1770.3
## 327	1483.83	1880.2	1731.9	2565.5	A_1	2565	2312.214	1151.586	1731.9
## 328	1470.09	1878.3	1736.7	2553.0	A_1	2553	2317.014	1156.386	1736.7
## 329	1484.78	1885.2	1724.0	2572.3	A_1	2571	2304.314	1143.686	1724.0
## 330	1475.41	1867.6	1683.3	2549.7	A_1	2549	2263.614	1102.986	1683.3
## 331	1402.34	1788.0	1611.0	2446.3	A_1	2445	2191.314	1030.686	1611.0
## 332	1421.49	1820.5	1612.5	2488.4	A_1	2487	2192.814	1032.186	1612.5
## 333	1434.61	1858.2	1654.2	2517.1	A_1	2517	2234.514	1073.886	1654.2
## 334	1446.32	1870.3	1673.9	2538.8	A_1	2537	2254.214	1093.586	1673.9
## 335	1437.65	1878.4	1657.3	2541.2	A_1	2541	2237.614	1076.986	1657.3
## 336	1441.57	1881.5	1655.1	2557.2	A_1	2557	2235.414	1074.786	1655.1
## 337	1471.64	1893.2	1685.1	2584.7	A_1	2583	2265.414	1104.786	1685.1
## 338	1453.95	1889.3	1667.9	2574.7	A_1	2573	2248.214	1087.586	1667.9
## 339	1453.79	1877.3	1650.0	2546.6	A_1	2545	2230.314	1069.686	1650.0
## 340	1458.02	1884.0	1664.2	2563.9	A_1	2563	2244.514	1083.886	1664.2
## 341	1479.59	1904.7	1679.1	2562.2	A_1	2561	2259.414	1098.786	1679.1
## 342	1504.89	1922.7	1731.3	2617.0	A_1	2617	2311.614	1150.986	1731.3
## 343	1496.54	1908.5	1722.2	2645.7	A_1	2645	2302.514	1141.886	1722.2
## 344	1511.00	1911.4	1730.7	2658.1	A_1	2657	2311.014	1150.386	1730.7
## 345	1528.86	1921.1	1766.4	2669.7	A_1	2669	2346.714	1186.086	1766.4
## 346	1534.02	1930.8	1770.7	2661.6	A_1	2661	2351.014	1190.386	1770.7
## 347	1536.60	1927.8	1774.5	2669.8	A_1	2669	2354.814	1194.186	1774.5
## 348	1508.19	1908.3	1749.9	2650.4	A_1	2649	2330.214	1169.586	1749.9
## 349	1493.54	1905.9	1730.9	2642.3	A_1	2641	2311.214	1150.586	1730.9
## 350	1489.68	1911.1	1742.4	2658.3	A_1	2657	2322.714	1162.086	1742.4
## 351	1482.44	1921.6	1742.4	2687.8	A_1	2687	2322.714	1162.086	1742.4
## 352	1483.34	1933.6	1786.9	2705.6	A_1	2705	2367.214	1206.586	1786.9
## 353	1470.57	1942.0	1804.1	2691.7	A_1	2691	2384.414	1223.786	1804.1
## 354	1484.84	1951.5	1804.7	2711.1	A_1	2711	2385.014	1224.386	1804.7
## 355	1487.71	1955.7	1793.6	2702.7	A_1	2701	2373.914	1213.286	1793.6
## 356	1508.63	1957.4	1786.7	2695.4	A_1	2695	2367.014	1206.386	1786.7
## 357	1515.27	1962.3	1798.5	2714.6	A_1	2713	2378.814	1218.186	1798.5
## 358	1509.84	1946.1	1798.5	2696.8	A_1	2695	2378.814	1218.186	1798.5
## 359	1542.28	1950.2	1821.5	2726.4	A_1	2725	2401.814	1241.186	1821.5
## 360	1541.79	1929.7	1796.8	2697.5	A_1	2697	2377.114	1216.486	1796.8
## 361	1542.48	1913.4	1772.7	2679.6	A_1	2679	2353.014	1192.386	1772.7
## 362	1550.27	1889.5	1764.4	2679.2	A_1	2679	2344.714	1184.086	1764.4
## 363	1550.27	1882.8	1759.2	2704.0	A_1	2703	2339.514	1178.886	1759.2
## 364	1543.37	1895.4	1722.3	2706.2	A_1	2705	2302.614	1141.986	1722.3
## 365	1547.84	1897.9	1724.2	2732.4	A_1	2731	2304.514	1143.886	1724.2
## 366	1523.62	1891.5	1674.8	2722.9	A_1	2721	2255.114	1094.486	1674.8
## 367	1526.68	1880.1	1720.6	2727.1	A_1	2727	2300.914	1140.286	1720.6
## 368	1513.42	1887.0	1721.0	2709.6	A_1	2709	2301.314	1140.686	1721.0
## 369	1523.02	1891.4	1739.7	2741.8	A_1	2741	2320.014	1159.386	1739.7
## 370	1529.69	1914.6	1749.7	2760.1	A_1	2759	2330.014	1169.386	1749.7
## 371	1545.12	1931.2	1771.4	2778.8	A_1	2777	2351.714	1191.086	1771.4
## 372	1546.82	1929.2	1792.3	2792.0	A_1	2791	2372.614	1211.986	1792.3

## 373	1528.12	1924.3	1783.3	2764.1	A_1	2763	2363.614	1202.986	1783.3
## 374	1530.65	1927.0	1799.4	2771.0	A_1	2771	2379.714	1219.086	1799.4
## 375	1526.25	1935.0	1781.7	2759.4	A_1	2759	2362.014	1201.386	1781.7
## 376	1519.48	1955.4	1788.6	2754.5	A_1	2753	2368.914	1208.286	1788.6
## 377	1506.65	1962.2	1765.9	2769.8	A_1	2769	2346.214	1185.586	1765.9
## 378	1504.30	1980.7	1791.2	2750.7	A_1	2749	2371.514	1210.886	1791.2
## 379	1480.65	1987.7	1769.5	2726.5	A_1	2725	2349.814	1189.186	1769.5
## 380	1476.70	1993.7	1758.7	2716.2	A_1	2715	2339.014	1178.386	1758.7
## 381	1478.07	2015.7	1738.3	2721.8	A_1	2721	2318.614	1157.986	1738.3
## 382	1479.62	2005.0	1744.8	2717.9	A_1	2717	2325.114	1164.486	1744.8
## 383	1477.55	2023.9	1736.7	2732.8	A_1	2731	2317.014	1156.386	1736.7
## 384	1472.59	2028.5	1735.2	2740.3	A_1	2739	2315.514	1154.886	1735.2
## 385	1495.60	2044.9	1760.1	2789.7	A_1	2789	2340.414	1179.786	1760.1
## 386	1517.45	2045.8	1786.3	2807.7	A_1	2807	2366.614	1205.986	1786.3
## 387	1520.93	2057.3	1824.4	2842.0	A_1	2841	2404.714	1244.086	1824.4
## 388	1527.06	2061.7	1821.1	2827.4	A_1	2827	2401.414	1240.786	1821.1
## 389	1527.06	2061.7	1854.6	2827.5	A_1	2827	2434.914	1274.286	1854.6
## 390	1527.06	2061.7	1854.6	2827.5	A_1	2827	2434.914	1274.286	1854.6
## 391	1547.51	2092.3	1857.5	2827.5	A_1	2827	2437.814	1277.186	1857.5
## 392	1545.82	2090.1	1870.3	2847.8	A_1	2847	2450.614	1289.986	1870.3
## 393	1538.43	2105.4	1858.8	2832.5	A_1	2831	2439.114	1278.486	1858.8
## 394	1538.43	2105.4	1857.8	2846.5	A_1	2845	2438.114	1277.486	1857.8
## 395	1538.43	2105.4	1857.8	2846.5	A_1	2845	2438.114	1277.486	1857.8
## 396	1538.04	2117.7	1843.1	2861.5	A_1	2861	2423.414	1262.786	1843.1
## 397	1554.03	2128.2	1850.8	2833.6	A_1	2833	2431.114	1270.486	1850.8
## 398	1551.17	2124.7	1859.6	2826.0	A_1	2825	2439.914	1279.286	1859.6
## 399	1538.37	2079.9	1844.5	2816.5	A_1	2815	2424.814	1264.186	1844.5
## 400	1529.10	2074.9	1852.6	2799.2	A_1	2799	2432.914	1272.286	1852.6
## 401	1522.26	2046.4	1814.6	2773.4	A_1	2773	2394.914	1234.286	1814.6
## 402	1533.79	2079.8	1796.8	2757.9	A_1	2757	2377.114	1216.486	1796.8
## 403	1510.18	2076.7	1782.5	2745.3	A_1	2745	2362.814	1202.186	1782.5
## 404	1526.91	2104.5	1803.5	2759.2	A_1	2759	2383.814	1223.186	1803.5
## 405	1555.52	2101.3	1827.1	2765.1	A_1	2765	2407.414	1246.786	1827.1
## 406	1581.49	2084.0	1837.5	2763.1	A_1	2763	2417.814	1257.186	1837.5
## 407	1572.61	2063.9	1837.7	2737.6	A_1	2737	2418.014	1257.386	1837.7
## 408	1572.69	2062.7	1818.8	2748.7	A_1	2747	2399.114	1238.486	1818.8
## 409	1580.64	2089.9	1812.2	2773.3	A_1	2773	2392.514	1231.886	1812.2
## 410	1593.35	2102.9	1820.4	2781.2	A_1	2781	2400.714	1240.086	1820.4
## 411	1571.28	2086.0	1779.9	2771.9	A_1	2771	2360.214	1199.586	1779.9
## 412	1575.59	2085.9	1792.6	2835.7	A_1	2835	2372.914	1212.286	1792.6
## 413	1561.78	2064.1	1777.4	2832.5	A_1	2831	2357.714	1197.086	1777.4
## 414	1572.68	2072.7	1780.6	2816.9	A_1	2815	2360.914	1200.286	1780.6
## 415	1574.04	2091.0	1772.2	2807.2	A_1	2807	2352.514	1191.886	1772.2
## 416	1590.33	2120.2	1785.9	2851.6	A_1	2851	2366.214	1205.586	1785.9
## 417	1584.14	2120.4	1787.3	2834.4	A_1	2833	2367.614	1206.986	1787.3
## 418	1605.91	2117.6	1824.1	2873.8	A_1	2873	2404.414	1243.786	1824.1
## 419	1615.98	2123.7	1854.4	2865.9	A_1	2865	2434.714	1274.086	1854.4
## 420	1643.83	2132.2	1908.2	2862.9	A_1	2861	2488.514	1327.886	1908.2
## 421	1646.85	2137.0	1904.7	2870.0	A_1	2869	2485.014	1324.386	1904.7
## 422	1639.12	2134.8	1894.1	2831.3	A_1	2831	2474.414	1313.786	1894.1
## 423	1642.80	2121.4	1893.3	2816.4	A_1	2815	2473.614	1312.986	1893.3
## 424	1659.07	2127.5	1905.6	2834.3	A_1	2833	2485.914	1325.286	1905.6
## 425	1649.64	2135.5	1912.0	2843.0	A_1	2843	2492.314	1331.686	1912.0
## 426	1674.93	2144.8	1899.5	2845.9	A_1	2845	2479.814	1319.186	1899.5

## 427	1651.60	2131.0	1878.2	2812.2	A_1	2811	2458.514	1297.886	1878.2
## 428	1656.35	2112.9	1905.0	2814.0	A_1	2813	2485.314	1324.686	1905.0
## 429	1670.90	2131.3	1926.5	2837.7	A_1	2837	2506.814	1346.186	1926.5
## 430	1683.30	2117.8	1937.2	2840.0	A_1	2839	2517.514	1356.886	1937.2
## 431	1679.41	2096.1	1959.2	2838.3	A_1	2837	2539.514	1378.886	1959.2
## 432	1658.09	2051.5	1944.1	2818.0	A_1	2817	2524.414	1363.786	1944.1
## 433	1652.92	2065.7	1953.4	2817.0	A_1	2817	2533.714	1373.086	1953.4
## 434	1661.96	2061.0	1944.6	2828.7	A_1	2827	2524.914	1364.286	1944.6
## 435	1680.02	2100.6	1983.7	2868.0	A_1	2867	2564.014	1403.386	1983.7
## 436	1691.37	2120.5	1998.8	2882.6	A_1	2881	2579.114	1418.486	1998.8
## 437	1701.46	2130.9	2001.5	2882.3	A_1	2881	2581.814	1421.186	2001.5
## 438	1690.48	2142.4	1995.2	2918.6	A_1	2917	2575.514	1414.886	1995.2
## 439	1685.46	2139.5	1986.8	2904.8	A_1	2903	2567.114	1406.486	1986.8
## 440	1686.15	2134.6	1995.1	2916.6	A_1	2915	2575.414	1414.786	1995.1
## 441	1702.27	2132.2	2004.3	2957.3	A_1	2957	2584.614	1423.986	2004.3
## 442	1711.91	2150.1	2009.7	2949.9	A_1	2949	2590.014	1429.386	2009.7
## 443	1714.48	2157.0	1992.4	2956.7	A_1	2955	2572.714	1412.086	1992.4
## 444	1708.65	2165.0	1988.9	2953.4	A_1	2953	2569.214	1408.586	1988.9
## 445	1688.74	2127.2	1965.2	2915.9	A_1	2915	2545.514	1384.886	1965.2
## 446	1705.05	2157.2	1986.0	2922.4	A_1	2921	2566.314	1405.686	1986.0
## 447	1700.28	2150.8	1975.3	2919.3	A_1	2919	2555.614	1394.986	1975.3
## 448	1689.71	2139.1	1967.3	2889.9	A_1	2889	2547.614	1386.986	1967.3
## 449	1696.38	2154.7	1963.5	2883.3	A_1	2883	2543.814	1383.186	1963.5
## 450	1686.57	2182.4	1962.7	2900.1	A_1	2899	2543.014	1382.386	1962.7
## 451	1656.59	2161.3	1939.3	2863.9	A_1	2863	2519.614	1358.986	1939.3
## 452	1653.20	2166.3	1952.2	2861.1	A_1	2861	2532.514	1371.886	1952.2
## 453	1666.72	2146.8	1954.6	2860.6	A_1	2859	2534.914	1374.286	1954.6
## 454	1663.27	2135.7	2001.4	2852.8	A_1	2851	2581.714	1421.086	2001.4
## 455	1667.26	2160.9	2025.8	2852.9	A_1	2851	2606.114	1445.486	2025.8
## 456	1675.18	2175.7	2033.9	2846.5	A_1	2845	2614.214	1453.586	2033.9
## 457	1686.64	2188.9	2035.9	2861.0	A_1	2861	2616.214	1455.586	2035.9
## 458	1676.84	2190.3	2031.4	2878.7	A_1	2877	2611.714	1451.086	2031.4
## 459	1670.04	2188.4	2005.9	2878.4	A_1	2877	2586.214	1425.586	2005.9
## 460	1657.06	2190.3	1990.8	2869.9	A_1	2869	2571.114	1410.486	1990.8
## 461	1658.36	2184.0	1974.7	2838.8	A_1	2837	2555.014	1394.386	1974.7
## 462	1667.64	2196.0	1995.3	2832.2	A_1	2831	2575.614	1414.986	1995.3
## 463	1654.60	2184.9	1984.0	2822.1	A_1	2821	2564.314	1403.686	1984.0
## 464	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586	1986.9
## 465	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586	1986.9
## 466	1658.13	2188.3	1986.9	2821.8	A_1	2821	2567.214	1406.586	1986.9
## 467	1671.54	2181.7	2018.1	2846.8	A_1	2845	2598.414	1437.786	2018.1
## 468	1674.95	2165.7	2015.4	2842.1	A_1	2841	2595.714	1435.086	2015.4
## 469	1674.67	2160.5	1988.6	2839.7	A_1	2839	2568.914	1408.286	1988.6
## 470	1678.65	2162.9	1986.7	2824.4	A_1	2823	2567.014	1406.386	1986.7
## 471	1687.14	2166.3	1968.9	2830.0	A_1	2829	2549.214	1388.586	1968.9
## 472	1680.06	2170.8	1949.3	2856.1	A_1	2855	2529.614	1368.986	1949.3
## 473	1666.49	2178.1	1931.9	2869.6	A_1	2869	2512.214	1351.586	1931.9
## 474	1680.01	2177.3	1944.5	2881.1	A_1	2881	2524.814	1364.186	1944.5
## 475	1656.03	2162.3	1916.6	2843.8	A_1	2843	2496.914	1336.286	1916.6
## 476	1643.53	2140.4	1911.6	2822.3	A_1	2821	2491.914	1331.286	1911.6
## 477	1636.59	2124.7	1927.4	2832.7	A_1	2831	2507.714	1347.086	1927.4
## 478	1630.88	2138.2	1942.5	2797.3	A_1	2797	2522.814	1362.186	1942.5
## 479	1618.60	2123.2	1920.6	2786.8	A_1	2785	2500.914	1340.286	1920.6
## 480	1626.83	2129.7	1939.0	2813.1	A_1	2813	2519.314	1358.686	1939.0

## 481	1632.00	2152.8	1937.0	2813.1	A_1	2813	2517.314	1356.686	1937.0
## 482	1619.92	2160.0	1923.6	2812.6	A_1	2811	2503.914	1343.286	1923.6
## 483	1628.88	2165.8	1926.3	2796.5	A_1	2795	2506.614	1345.986	1926.3
## 484	1617.74	2165.4	1920.5	2786.3	A_1	2785	2500.814	1340.186	1920.5
## 485	1607.70	2162.6	1878.6	2793.7	A_1	2793	2458.914	1298.286	1878.6
## 486	1616.45	2179.1	1877.2	2829.7	A_1	2829	2457.514	1296.886	1877.2
## 487	1613.46	2191.1	1854.5	2836.1	A_1	2835	2434.814	1274.186	1854.5
## 488	1632.99	2191.5	1872.7	2860.8	A_1	2859	2453.014	1292.386	1872.7
## 489	1636.02	2183.3	1879.9	2849.3	A_1	2849	2460.214	1299.586	1879.9
## 490	1632.35	2186.3	1851.7	2847.0	A_1	2847	2432.014	1271.386	1851.7
## 491	1630.37	2205.2	1835.7	2858.1	A_1	2857	2416.014	1255.386	1835.7
## 492	1619.26	2227.2	1846.4	2847.3	A_1	2847	2426.714	1266.086	1846.4
## 493	1606.64	2227.0	1836.8	2819.7	A_1	2819	2417.114	1256.486	1836.8
## 494	1606.64	2227.0	1836.8	2816.8	A_1	2815	2417.114	1256.486	1836.8
## 495	1613.98	2232.9	1836.8	2812.2	A_1	2811	2417.114	1256.486	1836.8
## 496	1608.58	2237.4	1861.4	2825.6	A_1	2825	2441.714	1281.086	1861.4
## 497	1623.05	2243.5	1891.1	2837.7	A_1	2837	2471.414	1310.786	1891.1
## 498	1617.18	2247.5	1890.4	2846.9	A_1	2845	2470.714	1310.086	1890.4
## 499	1633.18	2267.1	1904.6	2855.3	A_1	2855	2484.914	1324.286	1904.6
## 500	1627.21	2271.6	1888.7	2840.7	A_1	2839	2469.014	1308.386	1888.7
## 501	1627.21	2271.6	1888.7	2840.7	A_1	2839	2469.014	1308.386	1888.7
## 502	1625.59	2253.8	1872.8	2849.2	A_1	2849	2453.114	1292.486	1872.8
## 503	1628.53	2259.8	1875.8	2863.0	A_1	2863	2456.114	1295.486	1875.8
## 504	1630.56	2269.0	1867.9	2852.8	A_1	2851	2448.214	1287.586	1867.9
## 505	1638.47	2284.2	1859.7	2829.9	A_1	2829	2440.014	1279.386	1859.7
## 506	1660.88	2309.7	1887.9	2844.8	A_1	2843	2468.214	1307.586	1887.9
## 507	1662.28	2294.5	1893.7	2844.4	A_1	2843	2474.014	1313.386	1893.7
## 508	1679.69	2312.5	1915.2	2866.9	A_1	2865	2495.514	1334.886	1915.2
## 509	1679.69	2309.2	1911.2	2860.0	A_1	2859	2491.514	1330.886	1911.2
## 510	1685.85	2308.6	1920.4	2861.8	A_1	2861	2500.714	1340.086	1920.4
## 511	1686.44	2293.8	1916.8	2885.5	A_1	2885	2497.114	1336.486	1916.8
## 512	1684.57	2274.0	1897.9	2870.0	A_1	2869	2478.214	1317.586	1897.9
## 513	1689.93	2294.6	1918.8	2883.0	A_1	2883	2499.114	1338.486	1918.8
## 514	1681.47	2323.4	1900.3	2875.7	A_1	2875	2480.614	1319.986	1900.3
## 515	1687.14	2318.0	1910.3	2879.4	A_1	2879	2490.614	1329.986	1910.3
## 516	1697.26	2329.5	1929.2	2903.4	A_1	2903	2509.514	1348.886	1929.2
## 517	1698.33	2335.0	1935.3	2907.6	A_1	2907	2515.614	1354.986	1935.3
## 518	1690.96	2323.9	1942.4	2900.7	A_1	2899	2522.714	1362.086	1942.4
## 519	1692.16	2335.8	1963.3	2894.7	A_1	2893	2543.614	1382.986	1963.3
## 520	1699.52	2347.3	1960.8	2887.5	A_1	2887	2541.114	1380.486	1960.8
## 521	1712.33	2369.8	1991.0	2897.0	A_1	2897	2571.314	1410.686	1991.0
## 522	1703.05	2371.9	1977.5	2886.0	A_1	2885	2557.814	1397.186	1977.5
## 523	1700.93	2376.2	1971.9	2900.0	A_1	2899	2552.214	1391.586	1971.9
## 524	1698.36	2375.5	1960.2	2888.8	A_1	2887	2540.514	1379.886	1960.2
## 525	1697.39	2368.8	1941.2	2857.7	A_1	2857	2521.514	1360.886	1941.2
## 526	1694.83	2364.4	1925.4	2838.5	A_1	2837	2505.714	1345.086	1925.4
## 527	1705.66	2390.9	1935.1	2848.1	A_1	2847	2515.414	1354.786	1935.1
## 528	1739.48	2372.0	1943.7	2848.3	A_1	2847	2524.014	1363.386	1943.7
## 529	1798.63	2397.1	1980.4	2845.9	A_3	2845	2560.714	1400.086	1980.4
## 530	1798.36	2403.0	1985.7	2843.2	A_3	2843	2566.014	1405.386	1985.7
## 531	1808.74	2408.7	1992.2	2830.9	A_3	2829	2572.514	1411.886	1992.2
## 532	1806.52	2418.1	1991.2	2837.1	A_3	2837	2571.514	1410.886	1991.2
## 533	1815.63	2410.5	1991.2	2832.3	A_3	2831	2571.514	1410.886	1991.2
## 534	1807.12	2399.9	1963.1	2831.7	A_3	2831	2543.414	1382.786	1963.1

## 535	1829.36	2396.4	1974.9	2833.0	A_3	2833	2555.214	1394.586	1974.9
## 536	1835.09	2381.8	1981.7	2842.9	A_3	2841	2562.014	1401.386	1981.7
## 537	1826.45	2324.5	1968.4	2823.9	A_3	2823	2548.714	1388.086	1968.4
## 538	1821.28	2313.7	1947.5	2814.1	A_3	2813	2527.814	1367.186	1947.5
## 539	1828.53	2340.2	1965.7	2820.1	A_3	2819	2546.014	1385.386	1965.7
## 540	1830.61	2350.5	1995.0	2827.7	A_3	2827	2575.314	1414.686	1995.0
## 541	1859.49	2388.7	2006.2	2844.2	A_3	2843	2586.514	1425.886	2006.2
## 542	1846.02	2398.0	1998.1	2879.4	A_3	2879	2578.414	1417.786	1998.1
## 543	1832.20	2408.7	1989.5	2884.2	A_3	2883	2569.814	1409.186	1989.5
## 544	1823.40	2401.5	2036.0	2917.6	A_3	2917	2616.314	1455.686	2036.0
## 545	1823.07	2400.9	2085.9	2926.5	A_3	2925	2666.214	1505.586	2085.9
## 546	1818.10	2400.7	2129.0	2941.7	A_3	2941	2709.314	1548.686	2129.0
## 547	1857.36	2429.8	2110.6	2945.0	A_3	2945	2690.914	1530.286	2110.6
## 548	1861.22	2431.5	2101.4	2941.3	A_3	2941	2681.714	1521.086	2101.4
## 549	1870.80	2424.9	2115.3	2943.4	A_3	2943	2695.614	1534.986	2115.3
## 550	1878.94	2423.3	2149.8	2969.8	A_3	2969	2730.114	1569.486	2149.8
## 551	1870.24	2420.5	2138.5	2986.4	A_3	2985	2718.814	1558.186	2138.5
## 552	1864.51	2384.5	2139.8	2971.6	A_3	2971	2720.114	1559.486	2139.8
## 553	1894.56	2411.1	2167.4	3006.1	A_3	3005	2747.714	1587.086	2167.4
## 554	1908.69	2449.5	2161.9	3009.1	A_3	3009	2742.214	1581.586	2161.9
## 555	1917.69	2461.0	2148.0	3010.1	A_3	3009	2728.314	1567.686	2148.0
## 556	1903.44	2478.7	2148.0	3008.3	A_3	3007	2728.314	1567.686	2148.0
## 557	1918.75	2464.9	2136.3	3025.0	A_3	3025	2716.614	1555.986	2136.3
## 558	1930.29	2488.0	2160.8	3073.6	A_3	3073	2741.114	1580.486	2160.8
## 559	1937.77	2480.6	2139.2	3065.5	A_3	3065	2719.514	1558.886	2139.2
## 560	1909.53	2474.5	2128.2	3057.6	A_3	3057	2708.514	1547.886	2128.2
## 561	1893.48	2467.3	2111.4	3042.0	A_3	3041	2691.714	1531.086	2111.4
## 562	1907.65	2472.4	2123.4	3049.3	A_3	3049	2703.714	1543.086	2123.4
## 563	1915.59	2499.7	2159.3	3079.2	A_3	3079	2739.614	1578.986	2159.3
## 564	1890.58	2475.2	2173.6	3079.2	A_3	3079	2753.914	1593.286	2173.6
## 565	1909.54	2478.6	2183.9	3100.6	A_3	3099	2764.214	1603.586	2183.9
## 566	1929.56	2481.0	2205.7	3100.6	A_3	3099	2786.014	1625.386	2205.7
## 567	1931.88	2488.5	2216.5	3100.0	A_3	3099	2796.814	1636.186	2216.5
## 568	1923.67	2470.4	2191.9	3085.1	A_3	3085	2772.214	1611.586	2191.9
## 569	1928.63	2463.8	2185.1	3072.6	A_3	3071	2765.414	1604.786	2185.1
## 570	1920.43	2438.8	2156.1	3057.3	A_3	3057	2736.414	1575.786	2156.1
## 571	1911.15	2392.5	2158.0	3055.4	A_3	3055	2738.314	1577.686	2158.0
## 572	1878.77	2403.4	2137.3	3038.6	A_3	3037	2717.614	1556.986	2137.3
## 573	1870.32	2397.9	2129.4	3035.4	A_3	3035	2709.714	1549.086	2129.4
## 574	1870.46	2382.1	2108.8	3031.2	A_3	3031	2689.114	1528.486	2108.8
## 575	1868.28	2363.6	2108.4	3037.0	A_3	3037	2688.714	1528.086	2108.4
## 576	1874.38	2365.6	2119.1	3024.8	A_3	3023	2699.414	1538.786	2119.1
## 577	1869.25	2388.3	2134.1	3028.0	A_3	3027	2714.414	1553.786	2134.1
## 578	1852.81	2361.8	2078.5	2989.4	A_3	2989	2658.814	1498.186	2078.5
## 579	1862.62	2374.4	2075.6	3003.9	A_3	3003	2655.914	1495.286	2075.6
## 580	1884.67	2385.2	2099.5	3005.5	A_3	3005	2679.814	1519.186	2099.5
## 581	1922.69	2418.4	2107.4	3004.5	A_3	3003	2687.714	1527.086	2107.4
## 582	1922.05	2431.8	2094.4	3001.6	A_3	3001	2674.714	1514.086	2094.4
## 583	1899.54	2414.6	2080.0	3007.5	A_3	3007	2660.314	1499.686	2080.0
## 584	1902.14	2425.8	2057.5	3001.3	A_3	3001	2637.814	1477.186	2057.5
## 585	1890.18	2445.9	2092.6	3005.2	A_3	3005	2672.914	1512.286	2092.6
## 586	1914.40	2482.4	2108.6	3026.3	A_3	3025	2688.914	1528.286	2108.6
## 587	1915.61	2478.3	2120.0	3036.9	A_3	3035	2700.314	1539.686	2120.0
## 588	1908.97	2485.4	2126.8	3030.1	A_3	3029	2707.114	1546.486	2126.8

## 589	1910.23	2473.1	2114.6	3037.5	A_3	3037	2694.914	1534.286	2114.6
## 590	1920.46	2481.6	2116.7	3039.3	A_3	3039	2697.014	1536.386	2116.7
## 591	1934.99	2490.3	2128.7	3067.7	A_3	3067	2709.014	1548.386	2128.7
## 592	1973.45	2521.3	2158.8	3085.2	A_3	3085	2739.114	1578.486	2158.8
## 593	1994.09	2534.8	2164.5	3100.8	A_3	3099	2744.814	1584.186	2164.5
## 594	1991.95	2528.0	2147.4	3092.4	A_3	3091	2727.714	1567.086	2147.4
## 595	2015.71	2533.6	2156.4	3108.6	A_3	3107	2736.714	1576.086	2156.4
## 596	2009.28	2548.5	2138.7	3102.2	A_3	3101	2719.014	1558.386	2138.7
## 597	2004.11	2552.5	2126.9	3094.7	A_3	3093	2707.214	1546.586	2126.9
## 598	1999.60	2571.0	2127.3	3080.9	A_3	3079	2707.614	1546.986	2127.3
## 599	1995.35	2586.4	2113.9	3086.3	A_3	3085	2694.214	1533.586	2113.9
## 600	2023.26	2612.6	2139.3	3120.8	A_3	3119	2719.614	1558.986	2139.3
## 601	2032.25	2663.6	2145.0	3137.6	A_3	3137	2725.314	1564.686	2145.0
## 602	2036.93	2660.7	2147.3	3129.6	A_3	3129	2727.614	1566.986	2147.3
## 603	2029.87	2668.4	2149.7	3156.3	A_3	3155	2730.014	1569.386	2149.7
## 604	2048.05	2690.1	2199.7	3188.3	A_3	3187	2780.014	1619.386	2199.7
## 605	2083.62	2701.4	2231.9	3199.0	A_3	3199	2812.214	1651.586	2231.9
## 606	2061.18	2685.0	2227.7	3184.8	A_3	3183	2808.014	1647.386	2227.7
## 607	2048.75	2700.2	2210.4	3165.3	A_3	3165	2790.714	1630.086	2210.4
## 608	2040.97	2715.9	2192.0	3154.3	A_3	3153	2772.314	1611.686	2192.0
## 609	2053.66	2720.9	2196.0	3163.0	A_3	3163	2776.314	1615.686	2196.0
## 610	2064.98	2723.2	2182.0	3171.0	A_3	3171	2762.314	1601.686	2182.0
## 611	2068.51	2727.1	2182.0	3164.4	A_3	3163	2762.314	1601.686	2182.0
## 612	2086.40	2742.9	2169.7	3164.1	A_3	3163	2750.014	1589.386	2169.7
## 613	2086.22	2749.9	2171.2	3162.3	A_3	3161	2751.514	1590.886	2171.2
## 614	2057.10	2706.6	2136.0	3149.0	A_3	3149	2716.314	1555.686	2136.0
## 615	2013.65	2654.2	2081.0	3085.6	A_3	3085	2661.314	1500.686	2081.0
## 616	2007.50	2675.3	2084.8	3077.6	A_3	3077	2665.114	1504.486	2084.8
## 617	2040.74	2727.1	2112.9	3096.0	A_3	3095	2693.214	1532.586	2112.9
## 618	2020.11	2742.1	2087.3	3098.5	A_3	3097	2667.614	1506.986	2087.3
## 619	2021.81	2720.1	2087.3	3099.7	A_3	3099	2667.614	1506.986	2087.3
## 620	2023.06	2721.1	2096.9	3099.1	A_3	3099	2677.214	1516.586	2096.9
## 621	2047.20	2717.4	2117.9	3093.3	A_3	3093	2698.214	1537.586	2117.9
## 622	2070.17	2712.3	2115.9	3097.5	A_3	3097	2696.214	1535.586	2115.9
## 623	2070.17	2711.1	2148.0	3120.0	A_3	3119	2728.314	1567.686	2148.0
## 624	2075.99	2727.1	2149.7	3125.5	A_3	3125	2730.014	1569.386	2149.7
## 625	2072.13	2733.9	2145.2	3108.0	A_3	3107	2725.514	1564.886	2145.2
## 626	2020.36	2696.5	2082.6	3070.6	A_3	3069	2662.914	1502.286	2082.6
## 627	2027.99	2702.1	2071.5	3069.3	A_3	3069	2651.814	1491.186	2071.5
## 628	2036.45	2717.8	2070.6	3067.2	A_3	3067	2650.914	1490.286	2070.6
## 629	2057.80	2726.8	2118.4	3093.1	A_3	3093	2698.714	1538.086	2118.4
## 630	2045.25	2741.9	2120.6	3111.4	A_3	3111	2700.914	1540.286	2120.6
## 631	2052.09	2738.2	2119.3	3135.8	A_3	3135	2699.614	1538.986	2119.3
## 632	2052.92	2738.5	2110.1	3166.9	A_3	3165	2690.414	1529.786	2110.1
## 633	2089.77	2774.3	2154.0	3233.2	A_3	3233	2734.314	1573.686	2154.0
## 634	2099.76	2787.2	2160.5	3223.9	A_3	3223	2740.814	1580.186	2160.5
## 635	2128.30	2819.0	2188.4	3234.2	A_3	3233	2768.714	1608.086	2188.4
## 636	2118.01	2836.4	2186.7	3237.3	A_3	3237	2767.014	1606.386	2186.7
## 637	2127.39	2834.8	2176.1	3237.3	A_3	3237	2756.414	1595.786	2176.1
## 638	2165.95	2843.8	2205.3	3277.4	A_3	3277	2785.614	1624.986	2205.3
## 639	2166.58	2858.4	2211.4	3271.6	A_3	3271	2791.714	1631.086	2211.4
## 640	2165.50	2861.2	2198.1	3261.3	A_3	3261	2778.414	1617.786	2198.1
## 641	2163.83	2876.9	2196.3	3254.6	A_3	3255	2776.614	1615.986	2196.3
## 642	2128.07	2867.8	2156.5	3248.4	A_3	3249	2736.814	1576.186	2156.5

## 643	2129.52	2850.6	2162.6	3278.8	A_3	3279	2742.914	1582.286	2162.6
## 644	2144.03	2867.7	2160.3	3311.2	A_3	3311	2740.614	1579.986	2160.3
## 645	2154.76	2889.5	2196.4	3337.1	A_3	3337	2776.714	1616.086	2196.4
## 646	2188.18	2909.0	2223.5	3364.9	A_3	3365	2803.814	1643.186	2223.5
## 647	2183.78	2918.0	2215.9	3342.4	A_3	3343	2796.214	1635.586	2215.9
## 648	2209.17	2942.4	2225.8	3355.7	A_3	3355	2806.114	1645.486	2225.8
## 649	2227.63	2967.4	2243.0	3396.5	A_3	3397	2823.314	1662.686	2243.0
## 650	2227.63	2967.4	2251.5	3412.3	A_3	3413	2831.814	1671.186	2251.5
## 651	2266.70	2972.6	2276.6	3412.3	A_3	3413	2856.914	1696.286	2276.6
## 652	2236.91	2930.9	2264.6	3412.3	A_3	3413	2844.914	1684.286	2264.6
## 653	2229.62	2934.2	2281.9	3462.0	A_3	3463	2862.214	1701.586	2281.9
## 654	2255.29	2957.6	2281.2	3428.8	A_3	3429	2861.514	1700.886	2281.2
## 655	2255.29	2957.6	2268.2	3418.4	A_3	3419	2848.514	1687.886	2268.2
## 656	2274.62	2996.2	2290.6	3418.4	A_3	3419	2870.914	1710.286	2290.6
## 657	2249.85	2999.2	2274.3	3408.5	A_3	3409	2854.614	1693.986	2274.3
## 658	2233.61	3009.4	2249.6	3379.2	A_3	3379	2829.914	1669.286	2249.6
## 659	2220.63	3021.9	2275.1	3403.0	A_3	3403	2855.414	1694.786	2275.1
## 660	2224.95	3042.9	2307.6	3446.0	A_3	3447	2887.914	1727.286	2307.6
## 661	2225.00	3015.9	2317.3	3440.6	A_3	3441	2897.614	1736.986	2317.3
## 662	2228.10	3026.6	2331.3	3413.8	A_3	3413	2911.614	1750.986	2331.3
## 663	2182.06	2999.0	2281.9	3372.0	A_3	3373	2862.214	1701.586	2281.9
## 664	2142.37	2949.9	2252.2	3360.0	A_3	3361	2832.514	1671.886	2252.2
## 665	2151.05	2990.6	2262.3	3400.6	A_3	3401	2842.614	1681.986	2262.3
## 666	2115.56	3011.1	2234.8	3407.8	A_3	3407	2815.114	1654.486	2234.8
## 667	2130.35	3037.5	2247.4	3437.0	A_3	3437	2827.714	1667.086	2247.4
## 668	2132.52	3049.4	2274.7	3475.1	A_3	3475	2855.014	1694.386	2274.7
## 669	2098.36	3045.9	2257.8	3470.0	A_3	3471	2838.114	1677.486	2257.8
## 670	2073.94	3039.3	2244.0	3484.2	A_3	3485	2824.314	1663.686	2244.0
## 671	2107.29	3041.3	2274.5	3481.4	A_3	3481	2854.814	1694.186	2274.5
## 672	2090.78	3066.5	2278.3	3444.0	A_3	3445	2858.614	1697.986	2278.3
## 673	2128.66	3091.3	2282.4	3436.1	A_3	3437	2862.714	1702.086	2282.4
## 674	2123.31	3095.2	2281.0	3427.3	A_3	3427	2861.314	1700.686	2281.0
## 675	2156.61	3140.7	2313.2	3447.4	A_3	3447	2893.514	1732.886	2313.2
## 676	2192.60	3178.4	2334.4	3491.8	A_3	3491	2914.714	1754.086	2334.4
## 677	2181.88	3148.7	2331.3	3481.5	A_3	3481	2911.614	1750.986	2331.3
## 678	2184.05	3169.1	2355.9	3520.3	A_3	3521	2936.214	1775.586	2355.9
## 679	2137.08	3151.9	2322.0	3491.5	A_3	3491	2902.314	1741.686	2322.0
## 680	2143.90	3166.6	2329.2	3475.4	A_3	3475	2909.514	1748.886	2329.2
## 681	2095.11	3089.8	2287.1	3419.1	A_3	3419	2867.414	1706.786	2287.1
## 682	2099.57	3097.2	2299.9	3440.2	A_3	3441	2880.214	1719.586	2299.9
## 683	2116.43	3054.2	2302.1	3429.1	A_3	3429	2882.414	1721.786	2302.1
## 684	2119.69	3012.2	2296.8	3407.0	A_3	3407	2877.114	1716.486	2296.8
## 685	2108.77	3012.2	2275.1	3378.9	A_3	3379	2855.414	1694.786	2275.1
## 686	2101.93	2947.1	2281.6	3363.5	A_3	3363	2861.914	1701.286	2281.6
## 687	2130.71	2947.1	2258.0	3393.2	A_3	3393	2838.314	1677.686	2258.0
## 688	2135.25	2947.1	2258.0	3417.7	A_3	3417	2838.314	1677.686	2258.0
## 689	2162.29	3033.4	2281.2	3425.3	A_3	3425	2861.514	1700.886	2281.2
## 690	2133.85	3025.9	2251.8	3382.6	A_3	3383	2832.114	1671.486	2251.8
## 691	2108.06	2997.6	2215.2	3350.3	A_3	3351	2795.514	1634.886	2215.2
## 692	2113.64	2982.8	2226.7	3333.7	A_3	3333	2807.014	1646.386	2226.7
## 693	2140.25	3027.5	2252.0	3341.9	A_3	3341	2832.314	1671.686	2252.0
## 694	2082.90	2958.4	2208.3	3267.5	A_3	3267	2788.614	1627.986	2208.3
## 695	2075.33	2929.3	2199.0	3281.2	A_3	3281	2779.314	1618.686	2199.0
## 696	2103.24	2888.2	2238.1	3328.1	A_3	3329	2818.414	1657.786	2238.1

## 697	2057.20	2847.4	2183.1	3270.6	A_3	3271	2763.414	1602.786	2183.1
## 698	2018.69	2768.5	2144.7	3248.1	A_3	3249	2725.014	1564.386	2144.7
## 699	2044.45	2803.4	2144.7	3246.5	A_3	3245	2725.014	1564.386	2144.7
## 700	2076.76	2865.2	2178.7	3278.0	A_3	3279	2759.014	1598.386	2178.7
## 701	2132.12	2918.7	2219.9	3305.9	A_3	3305	2800.214	1639.586	2219.9
## 702	2125.47	2902.4	2216.4	3264.4	A_3	3265	2796.714	1636.086	2216.4
## 703	2118.01	2858.5	2199.7	3246.7	A_3	3245	2780.014	1619.386	2199.7
## 704	2124.51	2861.2	2184.6	3233.9	A_3	3233	2764.914	1604.286	2184.6
## 705	2101.89	2831.6	2175.0	3191.9	A_3	3191	2755.314	1594.686	2175.0
## 706	2169.40	2870.5	2215.0	3233.4	A_3	3233	2795.314	1634.686	2215.0
## 707	2178.91	2906.9	2258.5	3267.4	A_3	3267	2838.814	1678.186	2258.5
## 708	2168.11	2887.1	2242.7	3242.9	A_3	3241	2823.014	1662.386	2242.7
## 709	2160.45	2887.7	2247.8	3255.7	A_3	3255	2828.114	1667.486	2247.8
## 710	2140.39	2843.5	2221.3	3218.1	A_3	3217	2801.614	1640.986	2221.3
## 711	2130.55	2804.3	2202.7	3198.0	A_3	3197	2783.014	1622.386	2202.7
## 712	2141.70	2824.7	2200.7	3201.5	A_3	3201	2781.014	1620.386	2200.7
## 713	2162.96	2857.0	2200.2	3155.3	A_3	3155	2780.514	1619.886	2200.2
## 714	2144.36	2850.8	2152.6	3121.7	A_3	3121	2732.914	1572.286	2152.6
## 715	2144.00	2831.8	2136.6	3129.0	A_3	3129	2716.914	1556.286	2136.6
## 716	2167.72	2862.4	2144.5	3129.5	A_3	3129	2724.814	1564.186	2144.5
## 717	2162.82	2827.4	2123.4	3123.4	A_3	3123	2703.714	1543.086	2123.4
## 718	2151.84	2814.5	2083.9	3092.4	A_3	3091	2664.214	1503.586	2083.9
## 719	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586	2081.9
## 720	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586	2081.9
## 721	2142.88	2794.8	2081.9	3086.4	A_3	3085	2662.214	1501.586	2081.9
## 722	2177.09	2807.3	2100.3	3116.2	A_3	3115	2680.614	1519.986	2100.3
## 723	2184.89	2830.2	2128.2	3131.5	A_3	3131	2708.514	1547.886	2128.2
## 724	2202.57	2860.9	2119.6	3129.0	A_3	3129	2699.914	1539.286	2119.6
## 725	2203.18	2873.4	2114.8	3120.8	A_3	3119	2695.114	1534.486	2114.8
## 726	2224.85	2884.0	2145.3	3149.4	A_3	3149	2725.614	1564.986	2145.3
## 727	2211.19	2887.8	2148.6	3159.1	A_3	3159	2728.914	1568.286	2148.6
## 728	2215.19	2877.7	2152.4	3145.8	A_3	3145	2732.714	1572.086	2152.4
## 729	2198.24	2843.7	2139.1	3131.7	A_3	3131	2719.414	1558.786	2139.1
## 730	2211.92	2872.9	2159.6	3168.3	A_3	3167	2739.914	1579.286	2159.6
## 731	2218.37	2869.1	2160.1	3138.2	A_3	3137	2740.414	1579.786	2160.1
## 732	2193.89	2837.1	2136.0	3128.0	A_3	3127	2716.314	1555.686	2136.0
## 733	2194.09	2818.7	2102.7	3098.3	A_3	3097	2683.014	1522.386	2102.7
## 734	2194.41	2781.6	2092.0	3101.2	A_3	3101	2672.314	1511.686	2092.0
## 735	2218.13	2787.9	2135.2	3133.7	A_3	3133	2715.514	1554.886	2135.2
## 736	2208.68	2763.5	2116.3	3106.1	A_3	3105	2696.614	1535.986	2116.3
## 737	2241.36	2776.2	2130.9	3125.3	A_3	3125	2711.214	1550.586	2130.9
## 738	2256.98	2791.3	2147.3	3150.0	A_3	3149	2727.614	1566.986	2147.3
## 739	2237.82	2768.9	2150.3	3129.9	A_3	3129	2730.614	1569.986	2150.3
## 740	2252.51	2736.3	2166.0	3125.3	A_3	3125	2746.314	1585.686	2166.0
## 741	2266.72	2765.2	2186.2	3125.3	A_3	3125	2766.514	1605.886	2186.2
## 742	2261.71	2755.9	2179.0	3100.0	A_3	3099	2759.314	1598.686	2179.0
## 743	2241.85	2705.6	2141.6	3070.5	A_3	3069	2721.914	1561.286	2141.6
## 744	2249.78	2682.2	2162.6	3106.0	A_3	3105	2742.914	1582.286	2162.6
## 745	2233.55	2641.4	2158.2	3106.0	A_3	3105	2738.514	1577.886	2158.2
## 746	2218.77	2569.5	2139.4	3097.8	A_3	3097	2719.714	1559.086	2139.4
## 747	2241.34	2629.0	2165.0	3136.3	A_3	3135	2745.314	1584.686	2165.0
## 748	2248.02	2633.0	2176.7	3130.5	A_3	3129	2757.014	1596.386	2176.7
## 749	2248.02	2633.0	2176.7	3137.8	A_3	3137	2757.014	1596.386	2176.7
## 750	2257.33	2678.7	2187.0	3119.2	A_3	3119	2767.314	1606.686	2187.0

## 751	2272.96	2709.0	2187.8	3115.6	A_3	3115	2768.114	1607.486	2187.8
## 752	2268.11	2727.1	2195.2	3123.5	A_3	3123	2775.514	1614.886	2195.2
## 753	2254.21	2740.6	2184.0	3116.5	A_3	3115	2764.314	1603.686	2184.0
## 754	2245.79	2725.8	2165.4	3122.8	A_3	3121	2745.714	1585.086	2165.4
## 755	2238.97	2732.7	2155.4	3127.3	A_3	3127	2735.714	1575.086	2155.4
## 756	2238.97	2732.7	2155.4	3108.4	A_3	3107	2735.714	1575.086	2155.4
## 757	2188.01	2692.0	2133.3	3089.1	A_3	3089	2713.614	1552.986	2133.3
## 758	2137.56	2673.1	2084.4	3020.7	A_3	3019	2664.714	1504.086	2084.4
## 759	2146.00	2689.2	2091.9	3019.7	A_3	3019	2672.214	1511.586	2091.9
## 760	2112.80	2711.9	2050.7	2966.4	A_3	2965	2631.014	1470.386	2050.7
## 761	2129.76	2742.9	2052.5	2966.4	A_3	2965	2632.814	1472.186	2052.5
## 762	2137.34	2722.9	2029.9	2970.5	A_3	2969	2610.214	1449.586	2029.9
## 763	2113.62	2731.5	1979.7	2931.9	A_3	2931	2560.014	1399.386	1979.7
## 764	2120.23	2725.9	2007.4	2980.8	A_3	2979	2587.714	1427.086	2007.4
## 765	2158.88	2728.4	2041.7	2997.8	A_3	2997	2622.014	1461.386	2041.7
## 766	2163.59	2781.4	2037.2	3009.4	A_3	3009	2617.514	1456.886	2037.2
## 767	2131.80	2778.1	2023.7	3004.8	A_3	3003	2604.014	1443.386	2023.7
## 768	2143.93	2801.1	2046.8	3038.2	A_3	3037	2627.114	1466.486	2046.8
## 769	2131.14	2777.2	2028.4	3028.9	A_3	3027	2608.714	1448.086	2028.4
## 770	2143.58	2763.8	2020.7	3055.9	A_3	3055	2601.014	1440.386	2020.7
## 771	2084.42	2744.2	1977.7	3016.3	A_3	3015	2558.014	1397.386	1977.7
## 772	2088.44	2740.0	1992.0	3039.6	A_3	3039	2572.314	1411.686	1992.0
## 773	2073.21	2701.8	1966.4	3045.8	A_3	3045	2546.714	1386.086	1966.4
## 774	2047.29	2666.6	1942.8	3030.1	A_3	3029	2523.114	1362.486	1942.8
## 775	2031.80	2627.6	1936.0	3022.9	A_3	3021	2516.314	1355.686	1936.0
## 776	1986.42	2545.0	1903.0	2971.1	A_3	2971	2483.314	1322.686	1903.0
## 777	1957.08	2544.2	1890.8	2940.2	A_3	2939	2471.114	1310.486	1890.8
## 778	2004.93	2595.7	1917.0	2960.4	A_3	2959	2497.314	1336.686	1917.0
## 779	2032.52	2626.7	1939.0	2942.4	A_3	2941	2519.314	1358.686	1939.0
## 780	2005.07	2577.2	1907.0	2876.6	A_3	2875	2487.314	1326.686	1907.0
## 781	2000.48	2561.4	1911.6	2899.9	A_3	2899	2491.914	1331.286	1911.6
## 782	2022.25	2604.4	1925.8	2909.0	A_3	2909	2506.114	1345.486	1925.8
## 783	2042.45	2631.2	1936.3	2946.3	A_3	2945	2516.614	1355.986	1936.3
## 784	2020.85	2608.8	1892.0	2919.2	A_3	2919	2472.314	1311.686	1892.0
## 785	2040.69	2588.9	1872.9	2936.4	A_3	2935	2453.214	1292.586	1872.9
## 786	2061.70	2636.4	1866.2	2970.4	A_3	2969	2446.514	1285.886	1866.2
## 787	2034.64	2609.7	1878.7	2965.0	A_3	2965	2459.014	1298.386	1878.7
## 788	2031.33	2598.9	1889.0	2946.7	A_3	2945	2469.314	1308.686	1889.0
## 789	2049.10	2590.5	1920.8	2964.4	A_3	2963	2501.114	1340.486	1920.8
## 790	2047.83	2560.3	1920.8	2962.4	A_3	2961	2501.114	1340.486	1920.8
## 791	2069.46	2562.5	1949.8	2983.8	A_3	2983	2530.114	1369.486	1949.8
## 792	2048.57	2508.0	1942.1	2963.9	A_3	2963	2522.414	1361.786	1942.1
## 793	2051.25	2474.5	1974.6	3005.3	A_3	3005	2554.914	1394.286	1974.6
## 794	2070.71	2528.3	1974.6	3050.4	A_3	3049	2554.914	1394.286	1974.6
## 795	2103.54	2514.9	1974.6	3074.8	A_3	3073	2554.914	1394.286	1974.6
## 796	2116.96	2494.7	2025.1	3082.0	A_3	3081	2605.414	1444.786	2025.1
## 797	2129.86	2521.6	2052.3	3091.3	A_3	3091	2632.614	1471.986	2052.3
## 798	2120.97	2562.3	2043.7	3077.2	A_3	3077	2624.014	1463.386	2043.7
## 799	2126.75	2579.4	2053.8	3095.1	A_3	3095	2634.114	1473.486	2053.8
## 800	2148.23	2599.2	2041.4	3114.7	A_3	3113	2621.714	1461.086	2041.4
## 801	2144.21	2601.2	2059.8	3106.1	A_3	3105	2640.114	1479.486	2059.8
## 802	2163.32	2604.4	2076.8	3117.2	A_3	3117	2657.114	1496.486	2076.8
## 803	2135.93	2544.9	2055.7	3082.3	A_3	3081	2636.014	1475.386	2055.7
## 804	2134.12	2559.3	2053.4	3095.9	A_3	3095	2633.714	1473.086	2053.4

## 805	2152.19	2579.5	2075.0	3082.6	A_3	3081	2655.314	1494.686	2075.0
## 806	2161.50	2579.5	2069.6	3097.4	A_3	3097	2649.914	1489.286	2069.6
## 807	2193.63	2629.7	2117.2	3157.5	A_3	3157	2697.514	1536.886	2117.2
## 808	2190.83	2620.7	2115.0	3160.4	A_3	3159	2695.314	1534.686	2115.0
## 809	2176.66	2615.3	2096.5	3150.5	A_3	3149	2676.814	1516.186	2096.5
## 810	2188.81	2600.8	2107.1	3167.5	A_3	3167	2687.414	1526.786	2107.1
## 811	2182.32	2617.5	2106.3	3171.9	A_3	3171	2686.614	1525.986	2106.3
## 812	2160.56	2585.5	2074.5	3168.6	A_3	3167	2654.814	1494.186	2074.5
## 813	2166.51	2591.4	2064.2	3167.0	A_3	3167	2644.514	1483.886	2064.2
## 814	2156.31	2588.8	2038.9	3138.2	A_3	3137	2619.214	1458.586	2038.9
## 815	2133.74	2580.5	2007.0	3142.3	A_3	3141	2587.314	1426.686	2007.0
## 816	2134.34	2570.6	2007.0	3142.2	A_3	3141	2587.314	1426.686	2007.0
## 817	2152.65	2588.7	2012.4	3147.3	A_3	3147	2592.714	1432.086	2012.4
## 818	2166.56	2599.3	2035.0	3190.3	A_3	3189	2615.314	1454.686	2035.0
## 819	2151.44	2582.7	2010.5	3182.6	A_3	3181	2590.814	1430.186	2010.5
## 820	2143.84	2557.0	2001.3	3191.4	A_3	3191	2581.614	1420.986	2001.3
## 821	2113.37	2532.4	1972.6	3171.3	A_3	3171	2552.914	1392.286	1972.6
## 822	2121.25	2530.9	2000.6	3175.1	A_3	3175	2580.914	1420.286	2000.6
## 823	2132.98	2541.1	2006.3	3205.2	A_3	3205	2586.614	1425.986	2006.3
## 824	2153.48	2551.1	2026.5	3234.2	A_3	3233	2606.814	1446.186	2026.5
## 825	2190.58	2581.3	2062.7	3265.1	A_3	3265	2643.014	1482.386	2062.7
## 826	2215.72	2635.2	2075.3	3265.1	A_3	3265	2655.614	1494.986	2075.3
## 827	2205.82	2635.7	2060.4	3249.6	A_3	3249	2640.714	1480.086	2060.4
## 828	2207.09	2645.6	2069.1	3251.3	A_3	3251	2649.414	1488.786	2069.1
## 829	2185.78	2628.4	2034.9	3216.5	A_3	3215	2615.214	1454.586	2034.9
## 830	2197.38	2672.0	2020.4	3222.7	A_3	3221	2600.714	1440.086	2020.4
## 831	2173.60	2674.5	1998.2	3241.5	A_3	3241	2578.514	1417.886	1998.2
## 832	2158.07	2652.4	1961.5	3205.4	A_3	3205	2541.814	1381.186	1961.5
## 833	2167.68	2662.5	1964.2	3203.9	A_3	3203	2544.514	1383.886	1964.2
## 834	2178.10	2664.1	1983.4	3180.0	A_3	3179	2563.714	1403.086	1983.4
## 835	2155.58	2642.1	1948.8	3139.3	A_3	3139	2529.114	1368.486	1948.8
## 836	2155.81	2643.0	1966.8	3128.8	A_3	3127	2547.114	1386.486	1966.8
## 837	2157.15	2658.8	1969.4	3121.4	A_3	3121	2549.714	1389.086	1969.4
## 838	2118.17	2637.7	1952.9	3079.8	A_3	3079	2533.214	1372.586	1952.9
## 839	2129.36	2628.6	1977.3	3112.7	A_3	3111	2557.614	1396.986	1977.3
## 840	2097.45	2603.3	1924.6	3065.1	A_3	3065	2504.914	1344.286	1924.6
## 841	2100.55	2614.7	1922.9	3079.1	A_3	3079	2503.214	1342.586	1922.9
## 842	2059.15	2593.0	1919.3	3037.3	A_3	3037	2499.614	1338.986	1919.3
## 843	2067.17	2594.0	1897.2	3014.8	A_3	3013	2477.514	1316.886	1897.2
## 844	2072.81	2602.9	1899.4	3021.2	A_3	3021	2479.714	1319.086	1899.4
## 845	2097.33	2609.1	1927.4	3028.2	A_3	3027	2507.714	1347.086	1927.4
## 846	2057.83	2586.1	1902.7	2999.8	A_3	2999	2483.014	1322.386	1902.7
## 847	2056.89	2581.0	1901.3	3008.5	A_3	3007	2481.614	1320.986	1901.3
## 848	2070.36	2590.0	1905.0	3038.7	A_3	3037	2485.314	1324.686	1905.0
## 849	2016.08	2558.0	1876.2	2992.5	A_3	2991	2456.514	1295.886	1876.2
## 850	2002.30	2534.4	1879.3	3026.3	A_3	3025	2459.614	1298.986	1879.3
## 851	2002.30	2499.5	1852.8	2983.5	A_3	2983	2433.114	1272.486	1852.8
## 852	1988.67	2522.5	1876.1	3001.8	A_3	3001	2456.414	1295.786	1876.1
## 853	1946.49	2480.4	1833.7	2956.3	A_3	2955	2414.014	1253.386	1833.7
## 854	1965.41	2484.8	1843.4	2984.4	A_3	2983	2423.714	1263.086	1843.4
## 855	1977.67	2496.9	1856.4	2998.7	A_3	2997	2436.714	1276.086	1856.4
## 856	2048.56	2553.4	1898.3	3032.3	A_3	3031	2478.614	1317.986	1898.3
## 857	2087.71	2570.2	1919.0	3073.0	A_3	3073	2499.314	1338.686	1919.0
## 858	2072.68	2562.7	1918.1	3100.5	A_3	3099	2498.414	1337.786	1918.1

## 859	2108.08	2593.3	1955.6	3141.9	A_3	3141	2535.914	1375.286	1955.6
## 860	2118.52	2585.3	1933.0	3106.7	A_3	3105	2513.314	1352.686	1933.0
## 861	2095.58	2575.6	1906.4	3120.2	A_3	3119	2486.714	1326.086	1906.4
## 862	2069.58	2542.5	1898.6	3085.3	A_3	3085	2478.914	1318.286	1898.6
## 863	2055.94	2529.8	1876.3	3060.8	A_3	3059	2456.614	1295.986	1876.3
## 864	2048.15	2530.9	1867.4	3063.2	A_3	3063	2447.714	1287.086	1867.4
## 865	2016.60	2508.6	1842.1	3032.8	A_3	3031	2422.414	1261.786	1842.1
## 866	2022.64	2525.2	1841.6	3029.1	A_3	3029	2421.914	1261.286	1841.6
## 867	1995.85	2494.7	1824.4	3000.9	A_3	2999	2404.714	1244.086	1824.4
## 868	2009.45	2477.2	1831.5	2999.9	A_3	2999	2411.814	1251.186	1831.5
## 869	2026.37	2458.6	1858.1	3029.6	A_3	3029	2438.414	1277.786	1858.1
## 870	2064.86	2490.5	1905.7	3083.8	A_3	3083	2486.014	1325.386	1905.7
## 871	2061.58	2506.5	1905.7	3097.4	A_3	3097	2486.014	1325.386	1905.7
## 872	2066.18	2503.9	1905.7	3096.3	A_3	3095	2486.014	1325.386	1905.7
## 873	2039.91	2500.0	1873.6	3081.3	A_3	3081	2453.914	1293.286	1873.6
## 874	2061.37	2534.8	1911.1	3104.4	A_3	3103	2491.414	1330.786	1911.1
## 875	2069.39	2541.0	1931.7	3097.6	A_3	3097	2512.014	1351.386	1931.7
## 876	2043.30	2557.9	1906.1	3065.8	A_3	3065	2486.414	1325.786	1906.1
## 877	2056.36	2543.9	1921.5	3063.8	A_3	3063	2501.814	1341.186	1921.5
## 878	2090.78	2590.4	1943.9	3099.6	A_3	3099	2524.214	1363.586	1943.9
## 879	2098.04	2602.7	1948.4	3103.5	A_3	3103	2528.714	1368.086	1948.4
## 880	2073.67	2597.8	1948.4	3075.9	A_3	3075	2528.714	1368.086	1948.4
## 881	2091.04	2590.9	1941.1	3095.3	A_3	3095	2521.414	1360.786	1941.1
## 882	2112.21	2591.9	1954.5	3135.4	A_3	3135	2534.814	1374.186	1954.5
## 883	2112.21	2609.4	1950.2	3146.5	A_3	3145	2530.514	1369.886	1950.2
## 884	2091.94	2600.9	1927.5	3127.5	A_3	3127	2507.814	1347.186	1927.5
## 885	2089.48	2606.5	1926.5	3131.0	A_3	3131	2506.814	1346.186	1926.5
## 886	2097.20	2607.0	1927.8	3121.0	A_3	3121	2508.114	1347.486	1927.8
## 887	2073.29	2571.8	1911.4	3078.7	A_3	3077	2491.714	1331.086	1911.4
## 888	2040.05	2546.1	1893.1	3027.5	A_3	3027	2473.414	1312.786	1893.1
## 889	2058.79	2568.6	1934.7	3036.6	A_3	3035	2515.014	1354.386	1934.7
## 890	2056.27	2572.5	1945.9	3033.5	A_3	3033	2526.214	1365.586	1945.9
## 891	2050.82	2579.4	1952.4	3047.1	A_3	3047	2532.714	1372.086	1952.4
## 892	2036.24	2584.7	1940.0	3061.1	A_3	3061	2520.314	1359.686	1940.0
## 893	2057.08	2594.9	1975.9	3081.4	A_3	3081	2556.214	1395.586	1975.9
## 894	2045.54	2576.0	1964.0	3039.6	A_3	3039	2544.314	1383.686	1964.0
## 895	2042.38	2577.5	1982.7	3017.3	A_3	3017	2563.014	1402.386	1982.7
## 896	2067.26	2611.0	1973.7	3033.5	A_3	3033	2554.014	1393.386	1973.7
## 897	2046.99	2589.1	1969.0	3016.1	A_3	3015	2549.314	1388.686	1969.0
## 898	2044.04	2584.3	1969.8	3012.5	A_3	3011	2550.114	1389.486	1969.8
## 899	2041.85	2589.3	1954.1	3013.8	A_3	3013	2534.414	1373.786	1954.1
## 900	2024.19	2576.0	1937.0	2977.3	A_3	2977	2517.314	1356.686	1937.0
## 901	2003.64	2562.8	1919.3	2943.4	A_3	2943	2499.614	1338.986	1919.3
## 902	2019.13	2566.0	1917.1	2946.4	A_3	2945	2497.414	1336.786	1917.1
## 903	2040.94	2581.4	1930.2	2980.6	A_3	2979	2510.514	1349.886	1930.2
## 904	2054.23	2598.0	1931.1	2973.4	A_3	2973	2511.414	1350.786	1931.1
## 905	2069.90	2604.7	1924.2	3013.6	A_3	3013	2504.514	1343.886	1924.2
## 906	2066.59	2600.7	1928.1	3034.4	A_3	3033	2508.414	1347.786	1928.1
## 907	2080.16	2614.7	1924.7	3058.1	A_3	3057	2505.014	1344.386	1924.7
## 908	2095.50	2636.1	1940.9	3070.4	A_3	3069	2521.214	1360.586	1940.9
## 909	2102.25	2649.8	1952.1	3091.7	A_3	3091	2532.414	1371.786	1952.1
## 910	2100.98	2651.0	1949.9	3083.4	A_3	3083	2530.214	1369.586	1949.9
## 911	2100.98	2651.0	1966.6	3083.4	A_3	3083	2546.914	1386.286	1966.6
## 912	2110.77	2673.5	1956.0	3083.4	A_3	3083	2536.314	1375.686	1956.0

## 913	2097.34	2656.2	1927.8	3095.8	A_3	3095	2508.114	1347.486	1927.8
## 914	2074.68	2628.8	1894.2	3065.6	A_3	3065	2474.514	1313.886	1894.2
## 915	2097.51	2628.8	1881.2	3065.5	A_3	3065	2461.514	1300.886	1881.2
## 916	2079.19	2628.8	1881.2	3065.5	A_3	3065	2461.514	1300.886	1881.2
## 917	2068.92	2612.3	1885.9	3065.7	A_3	3065	2466.214	1305.586	1885.9
## 918	2072.90	2632.4	1901.8	3051.6	A_3	3051	2482.114	1321.486	1901.8
## 919	2051.46	2613.1	1871.5	3032.3	A_3	3031	2451.814	1291.186	1871.5
## 920	2058.20	2622.3	1886.4	3065.0	A_3	3065	2466.714	1306.086	1886.4
## 921	2053.41	2617.3	1864.2	3055.8	A_3	3055	2444.514	1283.886	1864.2
## 922	2062.08	2600.4	1859.2	3060.4	A_3	3059	2439.514	1278.886	1859.2
## 923	2061.76	2597.0	1849.1	3049.4	A_3	3049	2429.414	1268.786	1849.1
## 924	2059.68	2600.5	1844.1	3033.2	A_3	3033	2424.414	1263.786	1844.1
## 925	2064.14	2600.2	1854.0	3048.3	A_3	3047	2434.314	1273.686	1854.0
## 926	2088.25	2591.6	1872.8	3076.7	A_3	3075	2453.114	1292.486	1872.8
## 927	2081.39	2582.8	1856.9	3054.0	A_3	3053	2437.214	1276.586	1856.9
## 928	2085.62	2593.6	1860.3	3054.9	A_3	3053	2440.614	1279.986	1860.3
## 929	2079.60	2595.5	1837.1	3028.6	A_3	3027	2417.414	1256.786	1837.1
## 930	2050.86	2574.6	1813.3	2995.9	A_3	2995	2393.614	1232.986	1813.3
## 931	2013.03	2525.3	1772.8	2954.2	A_3	2953	2353.114	1192.486	1772.8
## 932	2027.67	2534.8	1780.2	2969.0	A_3	2969	2360.514	1199.886	1780.2
## 933	2026.97	2525.5	1802.5	2982.2	A_3	2981	2382.814	1222.186	1802.5
## 934	2040.79	2554.7	1826.3	3007.3	A_3	3007	2406.614	1245.986	1826.3
## 935	2030.56	2552.4	1814.1	3022.2	A_3	3021	2394.414	1233.786	1814.1
## 936	2026.68	2540.2	1813.4	2995.9	A_3	2995	2393.714	1233.086	1813.4
## 937	2024.82	2536.9	1797.9	2991.6	A_3	2991	2378.214	1217.586	1797.9
## 938	2047.44	2560.8	1827.8	3017.3	A_3	3017	2408.114	1247.486	1827.8
## 939	2038.46	2563.7	1816.1	3034.7	A_3	3033	2396.414	1235.786	1816.1
## 940	2077.94	2589.4	1842.4	3059.7	A_3	3059	2422.714	1262.086	1842.4
## 941	2085.08	2621.4	1872.1	3062.0	A_3	3061	2452.414	1291.786	1872.1
## 942	2093.01	2628.0	1870.4	3072.7	A_3	3071	2450.714	1290.086	1870.4
## 943	2087.78	2617.4	1850.9	3072.5	A_3	3071	2431.214	1270.586	1850.9
## 944	2117.80	2636.9	1874.4	3099.0	A_3	3099	2454.714	1294.086	1874.4
## 945	2127.56	2635.4	1869.4	3109.9	A_3	3109	2449.714	1289.086	1869.4
## 946	2118.96	2636.0	1850.1	3081.1	A_3	3081	2430.414	1269.786	1850.1
## 947	2128.33	2642.4	1856.1	3071.3	A_3	3071	2436.414	1275.786	1856.1
## 948	2135.49	2636.0	1861.9	3074.9	A_3	3073	2442.214	1281.586	1861.9
## 949	2112.06	2621.0	1835.0	3051.1	A_3	3051	2415.314	1254.686	1835.0
## 950	2119.29	2601.0	1822.5	3044.2	A_3	3043	2402.814	1242.186	1822.5
## 951	2101.98	2597.2	1802.2	3018.6	A_3	3017	2382.514	1221.886	1802.2
## 952	2101.82	2609.6	1805.6	3023.4	A_3	3023	2385.914	1225.286	1805.6
## 953	2096.26	2610.0	1804.4	3019.5	A_3	3019	2384.714	1224.086	1804.4
## 954	2126.44	2632.1	1827.0	3049.3	A_3	3049	2407.314	1246.686	1827.0
## 955	2117.59	2623.3	1805.7	3037.7	A_3	3037	2386.014	1225.386	1805.7
## 956	2106.05	2607.5	1802.2	3025.3	A_3	3025	2382.514	1221.886	1802.2
## 957	2097.85	2600.4	1776.9	3009.3	A_3	3009	2357.214	1196.586	1776.9
## 958	2127.21	2619.2	1808.4	3041.2	A_3	3041	2388.714	1228.086	1808.4
## 959	2116.64	2617.2	1807.4	3038.2	A_3	3037	2387.714	1227.086	1807.4
## 960	2094.16	2586.5	1795.2	3025.1	A_3	3025	2375.514	1214.886	1795.2
## 961	2069.95	2553.2	1773.3	3001.9	A_3	3001	2353.614	1192.986	1773.3
## 962	2041.26	2543.1	1748.6	2977.0	A_3	2977	2328.914	1168.286	1748.6
## 963	2029.38	2515.8	1756.8	2992.1	A_3	2991	2337.114	1176.486	1756.8
## 964	1989.20	2461.5	1727.1	2986.9	A_3	2985	2307.414	1146.786	1727.1
## 965	2008.85	2467.7	1743.1	3021.1	A_3	3021	2323.414	1162.786	1743.1
## 966	1974.14	2450.3	1721.8	3011.8	A_3	3011	2302.114	1141.486	1721.8

## 967	2022.50	2463.3	1769.0	3050.6	A_3	3049	2349.314	1188.686	1769.0
## 968	1995.22	2475.0	1738.6	3047.0	A_3	3047	2318.914	1158.286	1738.6
## 969	2016.15	2491.7	1785.8	3094.1	A_3	3093	2366.114	1205.486	1785.8
## 970	1979.52	2497.5	1788.8	3089.3	A_3	3089	2369.114	1208.486	1788.8
## 971	1984.99	2516.0	1811.6	3124.2	A_3	3123	2391.914	1231.286	1811.6
## 972	1984.15	2505.5	1813.8	3135.0	A_3	3135	2394.114	1233.486	1813.8
## 973	1978.07	2501.9	1818.0	3139.7	A_3	3139	2398.314	1237.686	1818.0
## 974	1935.08	2480.7	1795.7	3136.4	A_3	3135	2376.014	1215.386	1795.7
## 975	1935.87	2526.6	1817.3	3153.4	A_3	3153	2397.614	1236.986	1817.3
## 976	1928.82	2518.1	1836.1	3149.8	A_3	3149	2416.414	1255.786	1836.1
## 977	1911.70	2495.6	1837.2	3128.3	A_3	3127	2417.514	1256.886	1837.2
## 978	1918.85	2495.0	1852.4	3142.3	A_3	3141	2432.714	1272.086	1852.4
## 979	1949.76	2533.1	1893.0	3176.2	A_3	3175	2473.314	1312.686	1893.0
## 980	1914.69	2508.9	1859.5	3137.9	A_3	3137	2439.814	1279.186	1859.5
## 981	1934.96	2511.1	1864.0	3143.1	A_3	3143	2444.314	1283.686	1864.0
## 982	1965.68	2536.2	1882.8	3188.1	A_3	3187	2463.114	1302.486	1882.8
## 983	1972.59	2536.3	1872.9	3190.2	A_3	3189	2453.214	1292.586	1872.9
## 984	1976.52	2556.1	1890.2	3200.9	A_3	3199	2470.514	1309.886	1890.2
## 985	1978.71	2559.3	1900.4	3210.9	A_3	3209	2480.714	1320.086	1900.4
## 986	1980.81	2561.2	1880.9	3204.2	A_3	3203	2461.214	1300.586	1880.9
## 987	1979.26	2563.1	1869.3	3190.9	A_3	3189	2449.614	1288.986	1869.3
## 988	1991.08	2562.4	1871.9	3209.8	A_3	3209	2452.214	1291.586	1871.9
## 989	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786	1881.1
## 990	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786	1881.1
## 991	1982.99	2560.3	1881.1	3208.8	A_3	3207	2461.414	1300.786	1881.1
## 992	1954.62	2547.1	1855.7	3194.5	A_3	3193	2436.014	1275.386	1855.7
## 993	1943.88	2516.8	1874.9	3170.1	A_3	3169	2455.214	1294.586	1874.9
## 994	1955.33	2544.2	1882.0	3174.7	A_3	3173	2462.314	1301.686	1882.0
## 995	1987.70	2560.8	1928.4	3199.9	A_3	3199	2508.714	1348.086	1928.4
## 996	1978.97	2554.8	1918.5	3209.3	A_3	3209	2498.814	1338.186	1918.5
## 997	2007.57	2561.1	1945.9	3214.9	A_3	3213	2526.214	1365.586	1945.9
## 998	2028.52	2574.4	1942.3	3226.2	A_3	3225	2522.614	1361.986	1942.3
## 999	2024.25	2567.0	1931.0	3217.6	A_3	3217	2511.314	1350.686	1931.0
## 1000	2017.95	2597.2	1918.5	3216.7	A_3	3215	2498.814	1338.186	1918.5
## 1001	2017.95	2597.2	1918.5	3220.4	A_3	3219	2498.814	1338.186	1918.5
## 1002	2036.47	2621.4	1936.9	3248.2	A_3	3249	2517.214	1356.586	1936.9
## 1003	2037.99	2618.6	1971.1	3262.6	A_3	3263	2551.414	1390.786	1971.1
## 1004	2034.15	2641.7	1946.2	3264.3	A_3	3265	2526.514	1365.886	1946.2
## 1005	2021.22	2650.5	1927.4	3251.7	A_3	3251	2507.714	1347.086	1927.4
## 1006	2030.65	2658.8	1927.4	3251.7	A_3	3251	2507.714	1347.086	1927.4
## 1007	2050.66	2655.6	1988.7	3261.2	A_3	3261	2569.014	1408.386	1988.7
## 1008	2064.41	2661.4	1996.7	3290.1	A_3	3291	2577.014	1416.386	1996.7
## 1009	2086.41	2701.0	2003.6	3317.9	A_3	3317	2583.914	1423.286	2003.6
## 1010	2102.40	2728.2	2017.3	3310.3	A_3	3311	2597.614	1436.986	2017.3
## 1011	2092.00	2739.0	1991.5	3310.7	A_3	3311	2571.814	1411.186	1991.5
## 1012	2109.36	2746.6	2001.3	3300.8	A_3	3301	2581.614	1420.986	2001.3
## 1013	2088.99	2739.8	2004.7	3297.4	A_3	3297	2585.014	1424.386	2004.7
## 1014	2083.80	2727.7	1989.8	3285.8	A_3	3285	2570.114	1409.486	1989.8
## 1015	2064.42	2701.0	1965.5	3261.0	A_3	3261	2545.814	1385.186	1965.5
## 1016	2096.87	2751.2	1979.5	3284.5	A_3	3285	2559.814	1399.186	1979.5
## 1017	2083.55	2750.4	1965.3	3291.8	A_3	3291	2545.614	1384.986	1965.3
## 1018	2105.88	2778.5	1960.7	3327.3	A_3	3327	2541.014	1380.386	1960.7
## 1019	2105.88	2778.5	1960.7	3328.2	A_3	3329	2541.014	1380.386	1960.7
## 1020	2065.71	2751.7	1919.1	3311.1	A_3	3311	2499.414	1338.786	1919.1

## 1021	2069.26	2762.5	1927.8	3311.1	A_3	3311	2508.114	1347.486	1927.8
## 1022	2081.46	2779.4	1927.3	3309.9	A_3	3309	2507.614	1346.986	1927.3
## 1023	2099.95	2786.4	1948.0	3319.4	A_3	3319	2528.314	1367.686	1948.0
## 1024	2119.24	2807.8	1960.8	3340.6	A_3	3341	2541.114	1380.486	1960.8
## 1025	2132.72	2805.3	1971.3	3345.0	A_3	3345	2551.614	1390.986	1971.3
## 1026	2132.72	2805.3	1971.3	3376.6	A_3	3377	2551.614	1390.986	1971.3
## 1027	2154.17	2809.7	1965.9	3380.0	A_3	3381	2546.214	1385.586	1965.9
## 1028	2136.72	2819.6	1974.7	3370.8	A_3	3371	2555.014	1394.386	1974.7
## 1029	2137.21	2806.8	1951.2	3380.8	A_3	3381	2531.514	1370.886	1951.2
## 1030	2107.16	2795.3	1897.0	3337.7	A_3	3337	2477.314	1316.686	1897.0
## 1031	2127.79	2802.3	1907.8	3344.6	A_3	3345	2488.114	1327.486	1907.8
## 1032	2124.25	2800.9	1922.8	3348.0	A_3	3349	2503.114	1342.486	1922.8
## 1033	2124.84	2798.1	1893.7	3339.8	A_3	3339	2474.014	1313.386	1893.7
## 1034	2130.78	2800.2	1920.7	3370.4	A_3	3371	2501.014	1340.386	1920.7
## 1035	2125.06	2775.4	1905.0	3366.1	A_3	3367	2485.314	1324.686	1905.0
## 1036	2154.13	2803.0	1918.4	3381.3	A_3	3381	2498.714	1338.086	1918.4
## 1037	2140.36	2805.6	1896.1	3377.2	A_3	3377	2476.414	1315.786	1896.1
## 1038	2144.88	2816.8	1902.8	3378.3	A_3	3379	2483.114	1322.486	1902.8
## 1039	2144.88	2843.3	1925.2	3403.8	A_3	3403	2505.514	1344.886	1925.2
## 1040	2144.88	2837.7	1895.1	3379.4	A_3	3379	2475.414	1314.786	1895.1
## 1041	2137.36	2830.3	1902.4	3309.2	A_3	3309	2482.714	1322.086	1902.4
## 1042	2128.99	2845.1	1877.7	3313.2	A_3	3313	2458.014	1297.386	1877.7
## 1043	2091.30	2836.8	1865.5	3282.7	A_3	3283	2445.814	1285.186	1865.5
## 1044	2094.68	2845.6	1861.9	3294.0	A_3	3295	2442.214	1281.586	1861.9
## 1045	2089.04	2825.3	1858.8	3314.6	A_3	3315	2439.114	1278.486	1858.8
## 1046	2099.68	2827.5	1879.7	3323.7	A_3	3323	2460.014	1299.386	1879.7
## 1047	2110.13	2847.5	1889.4	3349.2	A_3	3349	2469.714	1309.086	1889.4
## 1048	2117.63	2843.7	1907.8	3394.9	A_3	3395	2488.114	1327.486	1907.8
## 1049	2111.35	2833.7	1889.5	3388.3	A_3	3389	2469.814	1309.186	1889.5
## 1050	2163.37	2848.4	1950.8	3462.9	A_3	3463	2531.114	1370.486	1950.8
## 1051	2184.39	2842.9	1949.4	3455.0	A_3	3455	2529.714	1369.086	1949.4
## 1052	2194.15	2847.3	1961.3	3464.0	A_3	3465	2541.614	1380.986	1961.3
## 1053	2200.32	2867.9	1961.7	3450.6	A_3	3451	2542.014	1381.386	1961.7
## 1054	2193.72	2869.7	1948.3	3447.2	A_3	3447	2528.614	1367.986	1948.3
## 1055	2191.25	2863.4	1948.3	3429.2	A_3	3429	2528.614	1367.986	1948.3
## 1056	2201.36	2892.3	1951.5	3442.6	A_3	3443	2531.814	1371.186	1951.5
## 1057	2183.71	2875.1	1929.0	3420.7	A_3	3421	2509.314	1348.686	1929.0
## 1058	2195.31	2856.2	1931.2	3405.3	A_3	3405	2511.514	1350.886	1931.2
## 1059	2183.52	2822.2	1905.9	3400.4	A_3	3401	2486.214	1325.586	1905.9
## 1060	2196.54	2830.2	1908.9	3413.1	A_3	3413	2489.214	1328.586	1908.9
## 1061	2232.02	2836.6	1926.6	3431.6	A_3	3431	2506.914	1346.286	1926.6
## 1062	2232.23	2833.2	1941.3	3432.9	A_3	3433	2521.614	1360.986	1941.3
## 1063	2237.73	2827.1	1942.5	3454.3	A_3	3455	2522.814	1362.186	1942.5
## 1064	2239.36	2824.7	1947.9	3458.3	A_3	3459	2528.214	1367.586	1947.9
## 1065	2217.91	2833.1	1932.8	3468.9	A_3	3469	2513.114	1352.486	1932.8
## 1066	2222.51	2826.8	1920.0	3463.3	A_3	3463	2500.314	1339.686	1920.0
## 1067	2211.26	2826.8	1917.8	3449.9	A_3	3449	2498.114	1337.486	1917.8
## 1068	2249.60	2852.3	1960.0	3499.9	A_3	3499	2540.314	1379.686	1960.0
## 1069	2234.86	2814.3	1950.8	3475.6	A_3	3475	2531.114	1370.486	1950.8
## 1070	2236.68	2807.1	1957.1	3482.4	A_3	3483	2537.414	1376.786	1957.1
## 1071	2244.56	2800.6	1950.4	3483.5	A_3	3483	2530.714	1370.086	1950.4
## 1072	2236.89	2797.4	1954.7	3468.8	A_3	3469	2535.014	1374.386	1954.7
## 1073	2222.28	2781.3	1943.7	3468.3	A_3	3469	2524.014	1363.386	1943.7
## 1074	2236.72	2802.6	1949.2	3474.7	A_3	3475	2529.514	1368.886	1949.2

## 1075	2228.44	2820.1	1946.2	3467.5	A_3	3467	2526.514	1365.886	1946.2
## 1076	2208.41	2807.2	1946.2	3441.4	A_3	3441	2526.514	1365.886	1946.2
## 1077	2236.73	2838.4	1946.2	3444.4	A_3	3445	2526.514	1365.886	1946.2
## 1078	2251.64	2880.6	1970.4	3465.1	A_3	3465	2550.714	1390.086	1970.4
## 1079	2253.93	2880.0	1967.3	3470.6	A_3	3471	2547.614	1386.986	1967.3
## 1080	2265.86	2889.5	1971.6	3509.8	A_3	3509	2551.914	1391.286	1971.6
## 1081	2269.60	2886.7	1984.4	3535.7	A_3	3535	2564.714	1404.086	1984.4
## 1082	2258.97	2900.8	1963.3	3530.2	A_3	3531	2543.614	1382.986	1963.3
## 1083	2262.66	2896.8	1957.4	3515.9	A_3	3515	2537.714	1377.086	1957.4
## 1084	2253.91	2887.1	1939.2	3520.0	A_3	3521	2519.514	1358.886	1939.2
## 1085	2257.34	2893.8	1937.8	3524.9	A_3	3525	2518.114	1357.486	1937.8
## 1086	2240.31	2883.3	1890.1	3524.9	A_3	3525	2470.414	1309.786	1890.1
## 1087	2230.27	2887.3	1899.5	3502.6	A_3	3503	2479.814	1319.186	1899.5
## 1088	2251.30	2915.7	1921.4	3504.0	A_3	3505	2501.714	1341.086	1921.4
## 1089	2234.23	2908.8	1883.4	3477.8	A_3	3477	2463.714	1303.086	1883.4
## 1090	2242.76	2918.3	1881.7	3509.4	A_3	3509	2462.014	1301.386	1881.7
## 1091	2263.08	2952.7	1900.5	3522.7	A_3	3523	2480.814	1320.186	1900.5
## 1092	2266.57	2971.1	1902.5	3532.4	A_3	3533	2482.814	1322.186	1902.5
## 1093	2266.37	2999.6	1884.8	3557.7	A_3	3557	2465.114	1304.486	1884.8
## 1094	2263.27	2989.1	1861.7	3545.6	A_3	3545	2442.014	1281.386	1861.7
## 1095	2266.77	2989.2	1854.9	3554.5	A_3	3555	2435.214	1274.586	1854.9
## 1096	2268.26	2986.3	1869.7	3549.3	A_3	3549	2450.014	1289.386	1869.7
## 1097	2266.07	2990.5	1873.6	3535.9	A_3	3535	2453.914	1293.286	1873.6
## 1098	2300.72	3016.8	1898.2	3570.8	A_3	3571	2478.514	1317.886	1898.2
## 1099	2300.29	3011.6	1892.4	3565.4	A_3	3565	2472.714	1312.086	1892.4
## 1100	2305.58	3025.4	1880.0	3564.6	A_3	3565	2460.314	1299.686	1880.0
## 1101	2289.49	3008.1	1871.7	3533.3	A_3	3533	2452.014	1291.386	1871.7
## 1102	2306.66	3033.5	1882.5	3541.4	A_3	3541	2462.814	1302.186	1882.5
## 1103	2294.15	3029.0	1863.8	3561.5	A_3	3561	2444.114	1283.486	1863.8
## 1104	2275.72	3039.1	1853.9	3557.9	A_3	3557	2434.214	1273.586	1853.9
## 1105	2204.44	2994.7	1790.7	3514.8	A_3	3515	2371.014	1210.386	1790.7
## 1106	2212.97	3015.3	1800.6	3507.0	A_3	3507	2380.914	1220.286	1800.6
## 1107	2232.02	3045.5	1816.3	3523.3	A_3	3523	2396.614	1235.986	1816.3
## 1108	2190.90	3009.8	1791.8	3485.0	A_3	3485	2372.114	1211.486	1791.8
## 1109	2184.24	3000.6	1767.6	3479.0	A_3	3479	2347.914	1187.286	1767.6
## 1110	2201.27	3014.8	1788.4	3508.2	A_3	3509	2368.714	1208.086	1788.4
## 1111	2197.01	3039.0	1780.7	3520.2	A_3	3521	2361.014	1200.386	1780.7
## 1112	2197.01	3049.0	1800.7	3524.2	A_3	3525	2381.014	1220.386	1800.7
## 1113	2211.60	3036.5	1803.9	3544.1	A_3	3545	2384.214	1223.586	1803.9
## 1114	2191.54	3036.6	1800.3	3544.4	A_3	3545	2380.614	1219.986	1800.3
## 1115	2176.35	3054.0	1809.6	3526.5	A_3	3527	2389.914	1229.286	1809.6
## 1116	2157.41	3064.0	1785.7	3510.3	A_3	3511	2366.014	1205.386	1785.7
## 1117	2137.01	3050.0	1778.0	3460.1	A_3	3461	2358.314	1197.686	1778.0
## 1118	2153.56	3073.0	1794.4	3474.3	A_3	3475	2374.714	1214.086	1794.4
## 1119	2159.73	3083.7	1803.8	3523.8	A_3	3523	2384.114	1223.486	1803.8
## 1120	2206.11	3109.2	1817.0	3568.0	A_3	3569	2397.314	1236.686	1817.0
## 1121	2193.85	3116.3	1790.5	3557.3	A_3	3557	2370.814	1210.186	1790.5
## 1122	2185.52	3112.3	1779.7	3562.2	A_3	3563	2360.014	1199.386	1779.7
## 1123	2197.57	3135.4	1770.7	3593.0	A_3	3593	2351.014	1190.386	1770.7
## 1124	2176.09	3124.5	1757.3	3578.6	A_3	3579	2337.614	1176.986	1757.3
## 1125	2148.12	3120.4	1740.7	3551.4	A_3	3551	2321.014	1160.386	1740.7
## 1126	2116.86	3041.7	1721.1	3531.5	A_3	3531	2301.414	1140.786	1721.1
## 1127	2114.88	3062.3	1724.2	3535.3	A_3	3535	2304.514	1143.886	1724.2
## 1128	2140.74	3078.9	1764.1	3537.8	A_3	3537	2344.414	1183.786	1764.1

## 1129	2142.74	3080.0	1754.1	3519.6	A_3	3519	2334.414	1173.786	1754.1
## 1130	2112.01	3026.6	1742.4	3497.9	A_3	3497	2322.714	1162.086	1742.4
## 1131	2149.71	3057.9	1795.3	3510.0	A_3	3511	2375.614	1214.986	1795.3
## 1132	2165.76	3108.2	1814.0	3529.1	A_3	3529	2394.314	1233.686	1814.0
## 1133	2182.11	3128.5	1814.0	3518.7	A_3	3519	2394.314	1233.686	1814.0
## 1134	2180.49	3123.4	1828.7	3523.0	A_3	3523	2409.014	1248.386	1828.7
## 1135	2169.69	3137.6	1832.1	3500.4	A_3	3501	2412.414	1251.786	1832.1
## 1136	2168.57	3123.2	1822.6	3514.8	A_3	3515	2402.914	1242.286	1822.6
## 1137	2174.27	3133.8	1857.4	3522.4	A_3	3523	2437.714	1277.086	1857.4
## 1138	2184.05	3132.6	1866.3	3537.1	A_3	3537	2446.614	1285.986	1866.3
## 1139	2182.47	3150.1	1852.6	3541.6	A_3	3541	2432.914	1272.286	1852.6
## 1140	2174.78	3130.4	1839.8	3523.4	A_3	3523	2420.114	1259.486	1839.8
## 1141	2195.15	3121.4	1838.2	3536.8	A_3	3537	2418.514	1257.886	1838.2
## 1142	2197.34	3133.0	1838.2	3547.9	A_3	3547	2418.514	1257.886	1838.2
## 1143	2196.64	3124.8	1875.2	3571.4	A_3	3571	2455.514	1294.886	1875.2
## 1144	2199.29	3148.4	1905.1	3610.8	A_3	3611	2485.414	1324.786	1905.1
## 1145	2196.59	3152.5	1890.5	3609.2	A_3	3609	2470.814	1310.186	1890.5
## 1146	2204.01	3182.2	1881.4	3628.8	A_3	3629	2461.714	1301.086	1881.4
## 1147	2201.90	3183.9	1872.9	3604.1	A_3	3605	2453.214	1292.586	1872.9
## 1148	2194.53	3201.0	1875.5	3632.4	A_3	3633	2455.814	1295.186	1875.5
## 1149	2197.26	3209.2	1867.1	3602.5	A_3	3603	2447.414	1286.786	1867.1
## 1150	2210.92	3220.1	1891.0	3624.0	A_3	3625	2471.314	1310.686	1891.0
## 1151	2247.97	3251.0	1889.8	3649.0	A_3	3649	2470.114	1309.486	1889.8
## 1152	2242.91	3229.5	1870.3	3648.8	A_3	3649	2450.614	1289.986	1870.3
## 1153	2249.75	3245.9	1857.3	3655.5	A_3	3655	2437.614	1276.986	1857.3
## 1154	2254.95	3251.6	1828.3	3664.3	A_3	3665	2408.614	1247.986	1828.3
## 1155	2266.56	3261.2	1820.9	3664.3	A_3	3665	2401.214	1240.586	1820.9
## 1156	2261.08	3278.4	1774.9	3669.7	A_3	3669	2355.214	1194.586	1774.9
## 1157	2269.34	3278.5	1814.9	3664.2	A_3	3665	2395.214	1234.586	1814.9
## 1158	2274.94	3281.5	1834.8	3662.8	A_3	3663	2415.114	1254.486	1834.8
## 1159	2260.62	3245.7	1846.8	3639.5	A_3	3639	2427.114	1266.486	1846.8
## 1160	2277.70	3246.6	1856.3	3630.0	A_3	3631	2436.614	1275.986	1856.3
## 1161	2277.70	3261.6	1849.6	3652.1	A_3	3653	2429.914	1269.286	1849.6
## 1162	2278.64	3280.9	1848.9	3654.9	A_3	3655	2429.214	1268.586	1848.9
## 1163	2283.26	3273.4	1833.8	3662.4	A_3	3663	2414.114	1253.486	1833.8
## 1164	2286.21	3272.2	1875.0	3671.6	A_3	3671	2455.314	1294.686	1875.0
## 1165	2283.84	3289.8	1859.3	3642.6	A_3	3643	2439.614	1278.986	1859.3
## 1166	2240.24	3251.6	1820.5	3596.1	A_3	3597	2400.814	1240.186	1820.5
## 1167	2241.43	3217.7	1810.2	3576.9	A_3	3577	2390.514	1229.886	1810.2
## 1168	2268.07	3254.3	1831.2	3613.7	A_3	3613	2411.514	1250.886	1831.2
## 1169	2268.35	3255.0	1834.4	3633.3	A_3	3633	2414.714	1254.086	1834.4
## 1170	2280.81	3277.9	1873.4	3658.3	A_3	3659	2453.714	1293.086	1873.4
## 1171	2280.81	3277.9	1873.4	3658.3	A_3	3659	2453.714	1293.086	1873.4
## 1172	2280.81	3277.9	1866.7	3658.3	A_3	3659	2447.014	1286.386	1866.7
## 1173	2280.44	3317.1	1877.0	3676.4	A_3	3677	2457.314	1296.686	1877.0
## 1174	2273.90	3297.7	1879.1	3676.7	A_3	3677	2459.414	1298.786	1879.1
## 1175	2260.69	3297.7	1872.0	3689.3	A_3	3689	2452.314	1291.686	1872.0
## 1176	2260.69	3297.7	1872.0	3689.3	A_3	3689	2452.314	1291.686	1872.0
## 1177	2307.70	3297.7	1908.4	3687.9	A_3	3687	2488.714	1328.086	1908.4
## 1178	2326.18	3384.5	1943.0	3715.6	A_3	3715	2523.314	1362.686	1943.0
## 1179	2332.81	3395.8	1931.2	3714.1	A_3	3715	2511.514	1350.886	1931.2
## 1180	2315.66	3376.1	1917.7	3704.5	A_3	3705	2498.014	1337.386	1917.7
## 1181	2336.76	3368.1	1916.6	3720.6	A_3	3721	2496.914	1336.286	1916.6
## 1182	2351.47	3361.5	1916.3	3720.6	A_3	3721	2496.614	1335.986	1916.3

## 1183	2340.31	3314.8	1910.1	3671.5	A_3	3671	2490.414	1329.786	1910.1
## 1184	2330.98	3284.1	1897.9	3654.9	A_3	3655	2478.214	1317.586	1897.9
## 1185	2353.89	3292.9	1907.6	3657.3	A_3	3657	2487.914	1327.286	1907.6
## 1186	2361.38	3233.9	1924.4	3662.7	A_3	3663	2504.714	1344.086	1924.4
## 1187	2379.43	3254.8	1952.1	3710.6	A_3	3711	2532.414	1371.786	1952.1
## 1188	2375.63	3219.3	1966.0	3704.2	A_3	3705	2546.314	1385.686	1966.0
## 1189	2389.62	3257.8	1960.1	3748.7	A_3	3749	2540.414	1379.786	1960.1
## 1190	2400.58	3253.1	1964.3	3748.4	A_3	3749	2544.614	1383.986	1964.3
## 1191	2391.74	3249.9	1954.4	3754.2	A_3	3755	2534.714	1374.086	1954.4
## 1192	2393.12	3219.0	1934.1	3735.0	A_3	3735	2514.414	1353.786	1934.1
## 1193	2436.68	3221.3	1946.0	3758.2	A_3	3759	2526.314	1365.686	1946.0
## 1194	2437.02	3211.2	1950.2	3734.2	A_3	3735	2530.514	1369.886	1950.2
## 1195	2449.71	3191.4	1966.7	3734.7	A_3	3735	2547.014	1386.386	1966.7
## 1196	2437.70	3198.2	1980.7	3734.6	A_3	3735	2561.014	1400.386	1980.7
## 1197	2456.09	3236.8	2003.1	3735.3	A_3	3735	2583.414	1422.786	2003.1
## 1198	2463.00	3248.7	2021.0	3759.3	A_3	3759	2601.314	1440.686	2021.0
## 1199	2472.53	3279.9	2024.1	3752.8	A_3	3753	2604.414	1443.786	2024.1
## 1200	2459.81	3270.0	2022.2	3781.3	A_3	3781	2602.514	1441.886	2022.2
## 1201	2416.84	3221.7	1985.6	3746.6	A_3	3747	2565.914	1405.286	1985.6
## 1202	2437.98	3253.8	1988.5	3747.5	A_3	3747	2568.814	1408.186	1988.5
## 1203	2442.43	3262.7	1983.3	3726.1	A_3	3727	2563.614	1402.986	1983.3
## 1204	2411.49	3245.6	1956.2	3708.4	A_3	3709	2536.514	1375.886	1956.2
## 1205	2435.07	3242.7	1960.7	3716.3	A_3	3717	2541.014	1380.386	1960.7
## 1206	2428.59	3253.1	1967.7	3726.6	A_3	3727	2548.014	1387.386	1967.7
## 1207	2436.09	3260.1	1983.3	3747.6	A_3	3747	2563.614	1402.986	1983.3
## 1208	2427.77	3266.1	1956.4	3745.0	A_3	3745	2536.714	1376.086	1956.4
## 1209	2426.51	3272.2	1964.2	3779.8	A_3	3779	2544.514	1383.886	1964.2
## 1210	2423.60	3280.3	1952.5	3770.9	A_3	3771	2532.814	1372.186	1952.5
## 1211	2387.60	3270.6	1939.7	3744.3	A_3	3745	2520.014	1359.386	1939.7
## 1212	2373.01	3243.5	1932.4	3714.6	A_3	3715	2512.714	1352.086	1932.4
## 1213	2401.59	3253.0	1936.9	3725.6	A_3	3725	2517.214	1356.586	1936.9
## 1214	2421.93	3264.4	1953.3	3740.0	A_3	3741	2533.614	1372.986	1953.3
## 1215	2449.52	3296.2	1976.9	3740.3	A_3	3741	2557.214	1396.586	1976.9
## 1216	2438.73	3298.6	1960.9	3704.2	A_3	3705	2541.214	1380.586	1960.9
## 1217	2449.09	3309.9	1974.5	3715.9	A_3	3715	2554.814	1394.186	1974.5
## 1218	2486.95	3360.5	1996.9	3738.2	A_3	3739	2577.214	1416.586	1996.9
## 1219	2485.18	3354.8	1990.8	3727.6	A_3	3727	2571.114	1410.486	1990.8
## 1220	2488.85	3385.5	2017.2	3752.7	A_3	3753	2597.514	1436.886	2017.2
## 1221	2486.83	3400.6	2015.3	3768.6	A_3	3769	2595.614	1434.986	2015.3
## 1222	2472.52	3383.4	2001.9	3777.1	A_3	3777	2582.214	1421.586	2001.9
## 1223	2471.38	3408.3	2005.9	3758.9	A_3	3759	2586.214	1425.586	2005.9
## 1224	2479.38	3581.9	2008.0	3758.2	A_3	3759	2588.314	1427.686	2008.0
## 1225	2448.80	3549.7	1975.5	3710.3	A_3	3711	2555.814	1395.186	1975.5
## 1226	2419.72	3506.2	1948.9	3674.5	A_3	3675	2529.214	1368.586	1948.9
## 1227	2415.29	3540.5	1932.1	3639.5	A_3	3639	2512.414	1351.786	1932.1
## 1228	2417.00	3558.3	1944.3	3640.3	A_3	3641	2524.614	1363.986	1944.3
## 1229	2432.46	3578.4	1962.4	3681.8	A_3	3681	2542.714	1382.086	1962.4
## 1230	2458.00	3561.1	1950.1	3644.8	A_3	3645	2530.414	1369.786	1950.1
## 1231	2472.55	3583.6	1965.0	3669.6	A_3	3669	2545.314	1384.686	1965.0
## 1232	2484.74	3605.1	1967.2	3693.0	A_3	3693	2547.514	1386.886	1967.2
## 1233	2491.73	3611.1	1969.8	3685.4	A_3	3685	2550.114	1389.486	1969.8
## 1234	2505.32	3629.3	1976.9	3698.3	A_3	3699	2557.214	1396.586	1976.9
## 1235	2479.84	3647.7	1974.4	3707.0	A_3	3707	2554.714	1394.086	1974.4
## 1236	2514.80	3677.0	2003.8	3681.9	A_3	3681	2584.114	1423.486	2003.8

## 1237	2505.78	3658.1	2008.0	3660.9	A_3	3661	2588.314	1427.686	2008.0
## 1238	2523.81	3671.0	2030.5	3672.4	A_3	3673	2610.814	1450.186	2030.5
## 1239	2502.94	3640.3	2020.0	3672.6	A_3	3673	2600.314	1439.686	2020.0
## 1240	2489.35	3646.5	2044.8	3699.7	A_3	3699	2625.114	1464.486	2044.8
## 1241	2500.75	3654.3	2055.6	3718.4	A_3	3719	2635.914	1475.286	2055.6
## 1242	2508.11	3648.3	2070.4	3728.5	A_3	3729	2650.714	1490.086	2070.4
## 1243	2489.52	3606.7	2064.0	3725.1	A_3	3725	2644.314	1483.686	2064.0
## 1244	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686	2075.0
## 1245	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686	2075.0
## 1246	2498.75	3611.1	2075.0	3755.6	A_3	3755	2655.314	1494.686	2075.0
## 1247	2510.81	3594.4	2081.7	3758.6	A_3	3759	2662.014	1501.386	2081.7
## 1248	2525.59	3601.5	2093.9	3767.4	A_3	3767	2674.214	1513.586	2093.9
## 1249	2508.12	3566.9	2072.5	3744.2	A_3	3745	2652.814	1492.186	2072.5
## 1250	2526.74	3575.5	2074.7	3766.8	A_3	3767	2655.014	1494.386	2074.7
## 1251	2540.79	3589.6	2080.6	3790.5	A_3	3791	2660.914	1500.286	2080.6
## 1252	2547.32	3607.5	2097.3	3825.3	A_3	3825	2677.614	1516.986	2097.3
## 1253	2519.82	3603.9	2075.1	3805.6	A_3	3805	2655.414	1494.786	2075.1
## 1254	2524.18	3601.2	2086.0	3820.7	A_3	3821	2666.314	1505.686	2086.0
## 1255	2535.86	3628.1	2092.5	3857.1	A_3	3857	2672.814	1512.186	2092.5
## 1256	2549.27	3673.2	2116.5	3852.7	A_3	3853	2696.814	1536.186	2116.5
## 1257	2549.12	3647.3	2112.0	3833.0	A_3	3833	2692.314	1531.686	2112.0
## 1258	2524.84	3668.4	2122.1	3817.6	A_3	3817	2702.414	1541.786	2122.1
## 1259	2538.68	3668.1	2116.4	3819.3	A_3	3819	2696.714	1536.086	2116.4
## 1260	2539.88	3696.0	2138.4	3832.8	A_3	3833	2718.714	1558.086	2138.4
## 1261	2505.97	3658.2	2130.8	3809.2	A_3	3809	2711.114	1550.486	2130.8
## 1262	2492.63	3651.0	2146.8	3817.9	A_3	3817	2727.114	1566.486	2146.8
## 1263	2492.63	3651.0	2146.8	3806.0	A_3	3807	2727.114	1566.486	2146.8
## 1264	2465.49	3635.8	2136.8	3776.4	A_3	3777	2717.114	1556.486	2136.8
## 1265	2472.43	3611.2	2115.4	3751.6	A_3	3751	2695.714	1535.086	2115.4
## 1266	2473.52	3591.6	2090.4	3751.6	A_3	3751	2670.714	1510.086	2090.4
## 1267	2476.79	3583.6	2083.7	3723.0	A_3	3723	2664.014	1503.386	2083.7
## 1268	2466.21	3534.1	2083.7	3707.3	A_3	3707	2664.014	1503.386	2083.7
## 1269	2470.57	3521.6	2085.4	3728.3	A_3	3729	2665.714	1505.086	2085.4
## 1270	2499.02	3556.9	2114.8	3754.4	A_3	3755	2695.114	1534.486	2114.8
## 1271	2496.33	3557.8	2100.9	3739.2	A_3	3739	2681.214	1520.586	2100.9
## 1272	2528.20	3582.4	2122.1	3759.7	A_3	3759	2702.414	1541.786	2122.1
## 1273	2534.40	3572.5	2124.6	3776.2	A_3	3777	2704.914	1544.286	2124.6
## 1274	2534.40	3572.5	2124.6	3753.6	A_3	3753	2704.914	1544.286	2124.6
## 1275	2552.29	3593.0	2136.9	3789.6	A_3	3789	2717.214	1556.586	2136.9
## 1276	2541.98	3584.0	2120.6	3778.2	A_3	3779	2700.914	1540.286	2120.6
## 1277	2564.12	3587.3	2129.7	3789.4	A_3	3789	2710.014	1549.386	2129.7
## 1278	2548.79	3550.0	2103.5	3764.2	A_3	3765	2683.814	1523.186	2103.5
## 1279	2546.55	3547.4	2114.5	3747.0	A_3	3747	2694.814	1534.186	2114.5
## 1280	2549.53	3572.2	2117.7	3752.1	A_3	3753	2698.014	1537.386	2117.7
## 1281	2549.53	3572.2	2117.7	3752.1	A_3	3753	2698.014	1537.386	2117.7
## 1282	2559.15	3583.8	2132.9	3760.2	A_3	3761	2713.214	1552.586	2132.9
## 1283	2548.53	3558.2	2117.1	3775.7	A_3	3775	2697.414	1536.786	2117.1
## 1284	2535.78	3537.7	2108.4	3746.7	A_3	3747	2688.714	1528.086	2108.4
## 1285	2523.81	3556.1	2110.1	3747.8	A_3	3747	2690.414	1529.786	2110.1
## 1286	2543.99	3544.6	2121.1	3739.2	A_3	3739	2701.414	1540.786	2121.1
## 1287	2550.42	3568.1	2111.0	3755.2	A_3	3755	2691.314	1530.686	2111.0
## 1288	2551.03	3572.0	2115.4	3753.4	A_3	3753	2695.714	1535.086	2115.4
## 1289	2559.02	3585.5	2133.2	3760.3	A_3	3761	2713.514	1552.886	2133.2
## 1290	2536.03	3547.9	2102.0	3706.8	A_3	3707	2682.314	1521.686	2102.0

## 1291	2552.96	3575.8	2120.8	3728.8	A_3	3729	2701.114	1540.486	2120.8
## 1292	2571.10	3575.6	2137.5	3755.7	A_3	3755	2717.814	1557.186	2137.5
## 1293	2569.90	3600.9	2137.3	3769.2	A_3	3769	2717.614	1556.986	2137.3
## 1294	2566.13	3607.4	2126.2	3761.7	A_3	3761	2706.514	1545.886	2126.2
## 1295	2544.90	3593.9	2111.8	3753.6	A_3	3753	2692.114	1531.486	2111.8
## 1296	2549.71	3600.1	2113.0	3761.5	A_3	3761	2693.314	1532.686	2113.0
## 1297	2554.12	3628.3	2107.9	3756.4	A_3	3757	2688.214	1527.586	2107.9
## 1298	2546.04	3643.6	2100.7	3753.2	A_3	3753	2681.014	1520.386	2100.7
## 1299	2532.22	3655.4	2077.1	3727.5	A_3	3727	2657.414	1496.786	2077.1
## 1300	2547.78	3687.3	2084.2	3722.3	A_3	3723	2664.514	1503.886	2084.2
## 1301	2562.19	3701.5	2097.6	3710.8	A_3	3711	2677.914	1517.286	2097.6
## 1302	2578.36	3699.6	2118.4	3679.5	A_3	3679	2698.714	1538.086	2118.4
## 1303	2572.06	3723.5	2113.3	3695.5	A_3	3695	2693.614	1532.986	2113.3
## 1304	2551.80	3703.0	2112.9	3678.8	A_3	3679	2693.214	1532.586	2112.9
## 1305	2570.44	3732.9	2123.7	3711.0	A_3	3711	2704.014	1543.386	2123.7
## 1306	2573.44	3728.2	2118.8	3725.6	A_3	3725	2699.114	1538.486	2118.8
## 1307	2565.32	3750.8	2111.8	3725.7	A_3	3725	2692.114	1531.486	2111.8
## 1308	2566.32	3757.0	2114.0	3714.1	A_3	3715	2694.314	1533.686	2114.0
## 1309	2578.74	3771.3	2126.8	3760.6	A_3	3761	2707.114	1546.486	2126.8
## 1310	2568.79	3731.2	2098.8	3743.2	A_3	3743	2679.114	1518.486	2098.8
## 1311	2561.51	3732.8	2079.1	3741.5	A_3	3741	2659.414	1498.786	2079.1
## 1312	2562.24	3773.4	2076.6	3752.3	A_3	3753	2656.914	1496.286	2076.6
## 1313	2573.00	3788.0	2081.9	3765.8	A_3	3765	2662.214	1501.586	2081.9
## 1314	2561.95	3810.0	2073.4	3749.0	A_3	3749	2653.714	1493.086	2073.4
## 1315	2548.97	3785.8	2050.6	3728.3	A_3	3729	2630.914	1470.286	2050.6
## 1316	2529.50	3755.4	2029.5	3698.3	A_3	3699	2609.814	1449.186	2029.5
## 1317	2475.98	3678.1	1989.5	3632.3	A_3	3633	2569.814	1409.186	1989.5
## 1318	2497.69	3656.2	1995.1	3658.2	A_3	3659	2575.414	1414.786	1995.1
## 1319	2505.56	3649.2	2007.3	3693.4	A_3	3693	2587.614	1426.986	2007.3
## 1320	2498.35	3661.5	1992.8	3710.5	A_3	3711	2573.114	1412.486	1992.8
## 1321	2468.32	3566.1	1960.3	3681.3	A_3	3681	2540.614	1379.986	1960.3
## 1322	2488.82	3585.2	1982.2	3708.4	A_3	3709	2562.514	1401.886	1982.2
## 1323	2459.13	3482.6	1954.1	3668.8	A_3	3669	2534.414	1373.786	1954.1
## 1324	2464.51	3537.4	1974.7	3684.7	A_3	3685	2555.014	1394.386	1974.7
## 1325	2469.51	3537.8	1962.9	3673.3	A_3	3673	2543.214	1382.586	1962.9
## 1326	2472.25	3549.5	1961.1	3678.8	A_3	3679	2541.414	1380.786	1961.1
## 1327	2466.84	3518.2	1968.5	3668.5	A_3	3669	2548.814	1388.186	1968.5
## 1328	2491.50	3494.4	1995.9	3703.2	A_3	3703	2576.214	1415.586	1995.9
## 1329	2504.16	3494.4	2009.9	3734.4	A_3	3735	2590.214	1429.586	2009.9
## 1330	2520.26	3604.6	2023.4	3770.6	A_3	3771	2603.714	1443.086	2023.4
## 1331	2520.52	3623.3	2013.2	3788.3	A_3	3789	2593.514	1432.886	2013.2
## 1332	2527.73	3629.0	1999.3	3788.4	A_3	3789	2579.614	1418.986	1999.3
## 1333	2541.41	3662.6	1996.7	3811.1	A_3	3811	2577.014	1416.386	1996.7
## 1334	2534.63	3653.4	1997.4	3811.4	A_3	3811	2577.714	1417.086	1997.4
## 1335	2532.96	3643.2	1985.4	3810.7	A_3	3811	2565.714	1405.086	1985.4
## 1336	2529.14	3623.1	1978.2	3803.3	A_3	3803	2558.514	1397.886	1978.2
## 1337	2545.65	3630.2	1980.6	3823.4	A_3	3823	2560.914	1400.286	1980.6
## 1338	2544.61	3650.7	1979.5	3830.3	A_3	3831	2559.814	1399.186	1979.5
## 1339	2542.75	3646.3	1979.5	3837.4	A_3	3837	2559.814	1399.186	1979.5
## 1340	2567.96	3670.5	1979.5	3872.9	A_3	3873	2559.814	1399.186	1979.5
## 1341	2556.25	3664.4	1986.2	3863.7	A_3	3863	2566.514	1405.886	1986.2
## 1342	2562.12	3698.2	2019.3	3883.2	A_3	3883	2599.614	1438.986	2019.3
## 1343	2534.44	3683.8	2000.6	3872.1	A_3	3873	2580.914	1420.286	2000.6
## 1344	2559.42	3713.0	2017.8	3891.1	A_3	3891	2598.114	1437.486	2017.8

## 1345	2562.12	3725.4	2020.8	3907.5	A_3	3907	2601.114	1440.486	2020.8
## 1346	2554.42	3714.6	2020.4	3907.5	A_3	3907	2600.714	1440.086	2020.4
## 1347	2563.59	3722.4	2018.0	3905.7	A_3	3905	2598.314	1437.686	2018.0
## 1348	2556.64	3692.6	2002.9	3918.7	A_3	3919	2583.214	1422.586	2002.9
## 1349	2548.84	3682.6	1977.6	3885.0	A_3	3885	2557.914	1397.286	1977.6
## 1350	2534.49	3646.3	1970.6	3867.6	A_3	3867	2550.914	1390.286	1970.6
## 1351	2538.34	3654.7	1977.0	3884.4	A_3	3885	2557.314	1396.686	1977.0
## 1352	2528.73	3623.9	1971.4	3855.9	A_3	3855	2551.714	1391.086	1971.4
## 1353	2526.18	3634.2	1984.8	3872.7	A_3	3873	2565.114	1404.486	1984.8
## 1354	2532.55	3627.1	1996.2	3887.2	A_3	3887	2576.514	1415.886	1996.2
## 1355	2542.74	3637.8	2004.8	3893.0	A_3	3893	2585.114	1424.486	2004.8
## 1356	2549.71	3684.4	2020.3	3910.8	A_3	3911	2600.614	1439.986	2020.3
## 1357	2568.77	3694.2	2042.1	3916.1	A_3	3917	2622.414	1461.786	2042.1
## 1358	2568.70	3678.9	2038.1	3905.6	A_3	3905	2618.414	1457.786	2038.1
## 1359	2588.04	3687.2	2065.4	3932.6	A_3	3933	2645.714	1485.086	2065.4
## 1360	2614.50	3716.8	2080.4	3967.9	A_3	3967	2660.714	1500.086	2080.4
## 1361	2630.24	3722.7	2086.2	3977.2	A_3	3977	2666.514	1505.886	2086.2
## 1362	2626.43	3690.0	2080.9	3972.3	A_3	3973	2661.214	1500.586	2080.9
## 1363	2621.20	3690.1	2072.7	3955.7	A_3	3955	2653.014	1492.386	2072.7
## 1364	2625.46	3694.9	2082.3	3974.3	A_3	3975	2662.614	1501.986	2082.3
## 1365	2641.50	3694.9	2079.5	3964.1	A_3	3965	2659.814	1499.186	2079.5
## 1366	2624.18	3635.5	2067.1	3919.7	A_3	3919	2647.414	1486.786	2067.1
## 1367	2643.42	3661.2	2081.5	3910.5	A_3	3911	2661.814	1501.186	2081.5
## 1368	2663.10	3697.7	2103.4	3935.7	A_3	3935	2683.714	1523.086	2103.4
## 1369	2664.96	3699.5	2104.1	3933.2	A_3	3933	2684.414	1523.786	2104.1
## 1370	2659.86	3696.6	2107.1	3946.4	A_3	3947	2687.414	1526.786	2107.1
## 1371	2655.49	3736.4	2132.8	3953.7	A_3	3953	2713.114	1552.486	2132.8
## 1372	2654.34	3737.5	2123.2	3992.2	A_3	3993	2703.514	1542.886	2123.2
## 1373	2685.29	3760.2	2141.8	4015.1	A_3	4015	2722.114	1561.486	2141.8
## 1374	2685.29	3771.6	2136.1	4000.0	A_3	4001	2716.414	1555.786	2136.1
## 1375	2704.25	3771.6	2152.7	4024.8	A_3	4025	2733.014	1572.386	2152.7
## 1376	2705.21	3813.7	2151.6	4031.5	A_3	4031	2731.914	1571.286	2151.6
## 1377	2702.60	3818.1	2161.5	4035.6	A_3	4035	2741.814	1581.186	2161.5
## 1378	2685.23	3807.9	2146.7	4009.3	A_3	4009	2727.014	1566.386	2146.7
## 1379	2683.52	3797.3	2135.6	3994.7	A_3	3995	2715.914	1555.286	2135.6
## 1380	2692.69	3805.2	2147.1	4028.1	A_3	4029	2727.414	1566.786	2147.1
## 1381	2700.83	3813.7	2143.6	4038.7	A_3	4039	2723.914	1563.286	2143.6
## 1382	2718.73	3822.2	2168.3	4050.8	A_3	4051	2748.614	1587.986	2168.3
## 1383	2705.06	3790.2	2158.5	4024.4	A_3	4025	2738.814	1578.186	2158.5
## 1384	2717.50	3793.2	2165.3	4042.1	A_3	4043	2745.614	1584.986	2165.3
## 1385	2727.56	3803.3	2185.2	4053.1	A_2	4053	2765.514	1604.886	2185.2
## 1386	2733.67	3788.2	2180.2	4073.1	A_2	4073	2760.514	1599.886	2180.2
## 1387	2721.74	3775.3	2175.6	4057.2	A_3	4057	2755.914	1595.286	2175.6
## 1388	2678.89	3742.9	2148.9	4028.4	A_3	4029	2729.214	1568.586	2148.9
## 1389	2681.94	3753.6	2151.6	3999.4	A_3	3999	2731.914	1571.286	2151.6
## 1390	2690.79	3758.7	2162.4	4022.4	A_3	4023	2742.714	1582.086	2162.4
## 1391	2703.33	3763.5	2150.4	4025.3	A_3	4025	2730.714	1570.086	2150.4
## 1392	2675.50	3732.0	2125.7	3993.5	A_3	3993	2706.014	1545.386	2125.7
## 1393	2664.72	3723.1	2124.8	3963.9	A_3	3963	2705.114	1544.486	2124.8
## 1394	2671.40	3725.3	2140.5	3979.1	A_3	3979	2720.814	1560.186	2140.5
## 1395	2670.19	3736.1	2140.5	3948.5	A_3	3949	2720.814	1560.186	2140.5
## 1396	2678.73	3749.2	2142.2	3928.1	A_3	3929	2722.514	1561.886	2142.2
## 1397	2716.16	3784.8	2187.3	3921.1	A_3	3921	2767.614	1606.986	2187.3
## 1398	2735.28	3815.4	2213.4	3935.7	A_2	3935	2793.714	1633.086	2213.4

## 1399	2724.25	3811.5	2211.8	3900.4	A_2	3901	2792.114	1631.486	2211.8
## 1400	2732.29	3812.0	2205.2	3910.8	A_2	3911	2785.514	1624.886	2205.2
## 1401	2730.44	3827.6	2205.2	3914.4	A_2	3915	2785.514	1624.886	2205.2
## 1402	2764.00	3829.8	2229.1	3934.3	A_2	3935	2809.414	1648.786	2229.1
## 1403	2770.61	3825.7	2217.2	3926.9	A_2	3927	2797.514	1636.886	2217.2
## 1404	2784.39	3856.4	2218.2	3926.1	A_2	3927	2798.514	1637.886	2218.2
## 1405	2800.60	3897.9	2240.3	3958.2	A_2	3959	2820.614	1659.986	2240.3
## 1406	2768.68	3888.3	2228.8	3962.1	A_2	3963	2809.114	1648.486	2228.8
## 1407	2781.54	3892.6	2240.1	3978.1	A_2	3979	2820.414	1659.786	2240.1
## 1408	2766.08	3883.3	2233.4	3962.8	A_2	3963	2813.714	1653.086	2233.4
## 1409	2765.29	3861.5	2233.6	3953.8	A_2	3953	2813.914	1653.286	2233.6
## 1410	2769.47	3882.8	2255.5	4018.7	A_2	4019	2835.814	1675.186	2255.5
## 1411	2800.52	3891.7	2277.1	4054.6	A_2	4055	2857.414	1696.786	2277.1
## 1412	2808.62	3878.2	2275.1	4068.4	A_2	4069	2855.414	1694.786	2275.1
## 1413	2793.86	3845.3	2270.8	4049.2	A_2	4049	2851.114	1690.486	2270.8
## 1414	2829.68	3884.1	2290.3	4050.2	A_2	4051	2870.614	1709.986	2290.3
## 1415	2848.84	3902.5	2315.7	4058.0	A_2	4059	2896.014	1735.386	2315.7
## 1416	2853.46	3874.0	2318.6	4038.5	A_2	4039	2898.914	1738.286	2318.6
## 1417	2900.76	3924.5	2349.1	4061.5	A_2	4061	2929.414	1768.786	2349.1
## 1418	2880.89	3910.6	2308.7	4045.2	A_2	4045	2889.014	1728.386	2308.7
## 1419	2894.43	3913.8	2292.5	4051.2	A_2	4051	2872.814	1712.186	2292.5
## 1420	2832.53	3835.5	2240.7	3963.0	A_2	3963	2821.014	1660.386	2240.7
## 1421	2870.30	3874.0	2255.8	4011.6	A_2	4011	2836.114	1675.486	2255.8
## 1422	2890.95	3885.4	2251.4	4035.7	A_2	4035	2831.714	1671.086	2251.4
## 1423	2836.36	3857.6	2213.3	3982.5	A_2	3983	2793.614	1632.986	2213.3
## 1424	2846.94	3860.0	2212.1	3990.7	A_2	3991	2792.414	1631.786	2212.1
## 1425	2815.77	3839.3	2203.4	3972.4	A_2	3973	2783.714	1623.086	2203.4
## 1426	2841.16	3869.2	2222.6	3993.8	A_2	3993	2802.914	1642.286	2222.6
## 1427	2808.50	3850.4	2193.7	3979.6	A_2	3979	2774.014	1613.386	2193.7
## 1428	2814.23	3874.0	2218.9	4018.2	A_2	4019	2799.214	1638.586	2218.9
## 1429	2824.83	3880.8	2248.7	4051.3	A_2	4051	2829.014	1668.386	2248.7
## 1430	2835.54	3890.1	2278.5	4077.6	A_2	4077	2858.814	1698.186	2278.5
## 1431	2844.09	3875.5	2287.4	4087.2	A_2	4087	2867.714	1707.086	2287.4
## 1432	2844.09	3869.8	2289.6	4092.5	A_2	4093	2869.914	1709.286	2289.6
## 1433	2844.09	3869.8	2289.6	4092.5	A_2	4093	2869.914	1709.286	2289.6
## 1434	2844.09	3869.8	2303.8	4092.5	A_2	4093	2884.114	1723.486	2303.8
## 1435	2859.22	3922.2	2307.0	4091.0	A_2	4091	2887.314	1726.686	2307.0
## 1436	2880.07	3948.3	2318.6	4115.7	A_2	4115	2898.914	1738.286	2318.6
## 1437	2880.07	3942.2	2315.7	4118.5	A_2	4119	2896.014	1735.386	2315.7
## 1438	2880.07	3942.2	2315.7	4118.5	A_2	4119	2896.014	1735.386	2315.7
## 1439	2820.81	3942.2	2257.0	4057.4	A_2	4057	2837.314	1676.686	2257.0
## 1440	2863.26	3940.1	2282.8	4089.5	A_2	4089	2863.114	1702.486	2282.8
## 1441	2890.20	3923.8	2306.7	4106.5	A_2	4107	2887.014	1726.386	2306.7
## 1442	2876.34	3922.9	2301.7	4078.8	A_2	4079	2882.014	1721.386	2301.7
## 1443	2904.08	3944.9	2331.6	4087.5	A_2	4087	2911.914	1751.286	2331.6
## 1444	2936.69	3966.2	2349.1	4087.0	A_2	4087	2929.414	1768.786	2349.1
## 1445	2915.81	3947.4	2327.5	4056.6	A_2	4057	2907.814	1747.186	2327.5
## 1446	2956.78	3975.5	2361.3	4107.3	A_2	4107	2941.614	1780.986	2361.3
## 1447	2978.84	3983.6	2402.1	4168.2	A_2	4169	2982.414	1821.786	2402.1
## 1448	2976.56	3979.6	2388.0	4158.9	A_2	4159	2968.314	1807.686	2388.0
## 1449	2996.12	4007.1	2407.8	4197.5	A_2	4197	2988.114	1827.486	2407.8
## 1450	3006.87	4019.9	2425.1	4207.7	A_2	4207	3005.414	1844.786	2425.1
## 1451	2999.19	4009.5	2406.1	4194.0	A_2	4195	2986.414	1825.786	2406.1
## 1452	3000.66	4023.1	2409.9	4195.5	A_2	4195	2990.214	1829.586	2409.9

## 1453 3026.63 4115.4 2442.5 4219.1	A_2	4219 3022.814 1862.186 2442.5
## 1454 3037.28 4161.0 2461.3 4219.1	A_2	4219 3041.614 1880.986 2461.3
## 1455 2982.63 4125.5 2430.3 4218.8	A_2	4219 3010.614 1849.986 2430.3
## 1456 2992.55 4127.3 2435.2 4212.0	A_2	4213 3015.514 1854.886 2435.2
## 1457 3028.27 4182.3 2482.8 4237.4	A_2	4237 3063.114 1902.486 2482.8
## 1458 2997.95 4169.7 2465.0 4207.5	A_2	4207 3045.314 1884.686 2465.0
## 1459 3018.58 4209.1 2503.1 4228.4	A_2	4229 3083.414 1922.786 2503.1
## 1460 3037.70 4272.2 2516.6 4275.8	A_2	4275 3096.914 1936.286 2516.6
## 1461 3064.70 4282.8 2508.6 4257.8	A_2	4257 3088.914 1928.286 2508.6
## 1462 3067.48 4296.5 2503.1 4260.9	A_2	4261 3083.414 1922.786 2503.1
## 1463 3114.73 4305.5 2541.3 4281.5	A_2	4281 3121.614 1960.986 2541.3
## 1464 3124.78 4309.8 2558.4 4265.9	A_2	4265 3138.714 1978.086 2558.4
## 1465 3161.36 4357.9 2597.5 4307.8	A_2	4307 3177.814 2017.186 2597.5
## 1466 3185.72 4384.3 2595.4 4307.7	A_2	4307 3175.714 2015.086 2595.4
## 1467 3191.45 4408.4 2582.1 4304.3	A_2	4305 3162.414 2001.786 2582.1
## 1468 3211.01 4444.1 2599.3 4304.3	A_2	4305 3179.614 2018.986 2599.3
## 1469 3256.86 4436.3 2628.4 4327.1	A_2	4327 3208.714 2048.086 2628.4
## 1470 3249.17 4464.2 2627.4 4341.0	A_2	4341 3207.714 2047.086 2627.4
## 1471 3260.30 4514.6 2634.5 4337.8	A_2	4337 3214.814 2054.186 2634.5
## 1472 3230.83 4490.7 2617.5 4332.3	A_2	4333 3197.814 2037.186 2617.5
## 1473 3209.04 4525.5 2594.8 4357.4	A_2	4357 3175.114 2014.486 2594.8
## 1474 3197.09 4530.8 2575.2 4356.1	A_2	4357 3155.514 1994.886 2575.2
## 1475 3203.79 4522.5 2562.8 4336.8	A_2	4337 3143.114 1982.486 2562.8
## 1476 3180.63 4463.2 2567.9 4331.1	A_2	4331 3148.214 1987.586 2567.9
## 1477 3233.34 4503.9 2607.7 4344.7	A_2	4345 3188.014 2027.386 2607.7
## 1478 3245.02 4539.0 2602.2 4329.3	A_2	4329 3182.514 2021.886 2602.2
## 1479 3272.58 4519.7 2629.4 4339.2	A_2	4339 3209.714 2049.086 2629.4
## 1480 3261.04 4487.6 2607.8 4308.3	A_2	4309 3188.114 2027.486 2607.8
## 1481 3258.74 4460.1 2600.3 4307.1	A_2	4307 3180.614 2019.986 2600.3
## 1482 3345.09 4513.7 2651.7 4357.7	A_2	4357 3232.014 2071.386 2651.7
## 1483 3375.45 4547.1 2666.2 4360.1	A_2	4361 3246.514 2085.886 2666.2
## 1484 3396.55 4605.2 2698.9 4399.3	A_2	4399 3279.214 2118.586 2698.9
## 1485 3419.51 4638.9 2708.3 4420.3	A_2	4421 3288.614 2127.986 2708.3
## 1486 3426.77 4684.4 2709.2 4437.4	A_2	4437 3289.514 2128.886 2709.2
## 1487 3430.95 4677.1 2686.2 4444.3	A_2	4445 3266.514 2105.886 2686.2
## 1488 3382.40 4676.2 2641.7 4422.5	A_2	4423 3222.014 2061.386 2641.7
## 1489 3367.82 4609.9 2632.1 4397.7	A_2	4397 3212.414 2051.786 2632.1
## 1490 3404.29 4636.2 2645.6 4424.3	A_2	4425 3225.914 2065.286 2645.6
## 1491 3337.11 4556.5 2588.4 4373.3	A_2	4373 3168.714 2008.086 2588.4
## 1492 3289.59 4519.9 2574.0 4356.8	A_2	4357 3154.314 1993.686 2574.0
## 1493 3305.72 4535.1 2596.8 4332.2	A_2	4333 3177.114 2016.486 2596.8
## 1494 3247.03 4442.9 2553.7 4258.1	A_2	4259 3134.014 1973.386 2553.7
## 1495 3288.52 4491.3 2587.1 4254.8	A_2	4255 3167.414 2006.786 2587.1
## 1496 3302.57 4497.3 2579.3 4214.8	A_2	4215 3159.614 1998.986 2579.3
## 1497 3374.93 4558.6 2624.3 4270.7	A_2	4271 3204.614 2043.986 2624.3
## 1498 3439.22 4620.5 2648.7 4301.5	A_2	4301 3229.014 2068.386 2648.7
## 1499 3407.83 4659.2 2656.7 4312.9	A_2	4313 3237.014 2076.386 2656.7
## 1500 3407.83 4659.2 2656.7 4312.9	A_2	4313 3237.014 2076.386 2656.7
## 1501 3407.83 4659.2 2656.7 4312.9	A_2	4313 3237.014 2076.386 2656.7
## 1502 3281.46 4501.7 2581.8 4248.1	A_2	4249 3162.114 2001.486 2581.8
## 1503 3210.94 4488.7 2530.3 4236.6	A_2	4237 3110.614 1949.986 2530.3
## 1504 3212.82 4463.9 2514.5 4214.6	A_2	4215 3094.814 1934.186 2514.5
## 1505 3235.35 4471.5 2518.0 4236.6	A_2	4237 3098.314 1937.686 2518.0
## 1506 3342.77 4588.0 2572.3 4271.7	A_2	4271 3152.614 1991.986 2572.3

## 1507	3328.13	4582.6	2579.0	4269.3	A_2	4269	3159.314	1998.686	2579.0
## 1508	3364.76	4634.9	2617.6	4292.3	A_2	4293	3197.914	2037.286	2617.6
## 1509	3352.58	4626.6	2608.0	4313.2	A_2	4313	3188.314	2027.686	2608.0
## 1510	3319.24	4604.2	2574.6	4270.7	A_2	4271	3154.914	1994.286	2574.6
## 1511	3297.52	4586.3	2566.1	4251.7	A_2	4251	3146.414	1985.786	2566.1
## 1512	3369.26	4643.4	2620.6	4286.8	A_2	4287	3200.914	2040.286	2620.6
## 1513	3347.54	4625.6	2621.0	4294.6	A_2	4295	3201.314	2040.686	2621.0
## 1514	3361.80	4665.7	2615.2	4298.9	A_2	4299	3195.514	2034.886	2615.2
## 1515	3361.20	4699.1	2547.6	4310.5	A_2	4311	3127.914	1967.286	2547.6
## 1516	3328.41	4740.1	2522.7	4328.7	A_2	4329	3103.014	1942.386	2522.7
## 1517	3348.90	4752.3	2514.7	4346.1	A_2	4347	3095.014	1934.386	2514.7
## 1518	3366.87	4781.1	2533.6	4387.7	A_2	4387	3113.914	1953.286	2533.6
## 1519	3396.49	4836.1	2539.8	4388.5	A_2	4389	3120.114	1959.486	2539.8
## 1520	3357.57	4772.3	2536.3	4369.7	A_2	4369	3116.614	1955.986	2536.3
## 1521	3372.96	4793.3	2550.3	4389.7	A_2	4389	3130.614	1969.986	2550.3
## 1522	3425.86	4855.1	2602.9	4433.2	A_2	4433	3183.214	2022.586	2602.9
## 1523	3438.09	4897.6	2639.5	4436.0	A_2	4437	3219.814	2059.186	2639.5
## 1524	3438.09	4897.6	2639.5	4445.0	A_2	4445	3219.814	2059.186	2639.5
## 1525	3491.08	4953.5	2655.3	4455.6	A_2	4455	3235.614	2074.986	2655.3
## 1526	3565.69	5029.6	2672.8	4455.6	A_2	4455	3253.114	2092.486	2672.8
## 1527	3548.52	4988.4	2651.9	4519.3	A_2	4519	3232.214	2071.586	2651.9
## 1528	3537.45	5016.0	2643.3	4537.5	A_2	4537	3223.614	2062.986	2643.3
## 1529	3537.45	5016.0	2643.3	4580.4	A_2	4581	3223.614	2062.986	2643.3
## 1530	3533.21	5004.7	2633.9	4630.9	A_2	4631	3214.214	2053.586	2633.9
## 1531	3593.14	5042.5	2693.1	4669.6	A_2	4669	3273.414	2112.786	2693.1
## 1532	3559.29	5084.2	2719.6	4691.0	A_2	4691	3299.914	2139.286	2719.6
## 1533	3588.57	5134.3	2774.6	4686.9	A_2	4687	3354.914	2194.286	2774.6
## 1534	3564.85	5141.7	2776.0	4681.2	A_2	4681	3356.314	2195.686	2776.0
## 1535	3569.26	5157.5	2784.3	4693.9	A_2	4693	3364.614	2203.986	2784.3
## 1536	3569.26	5157.5	2784.3	4645.2	A_2	4645	3364.614	2203.986	2784.3
## 1537	3516.20	5081.0	2751.1	4607.5	A_2	4607	3331.414	2170.786	2751.1
## 1538	3600.40	5178.6	2786.4	4642.0	A_2	4643	3366.714	2206.086	2786.4
## 1539	3575.44	5176.4	2741.7	4651.8	A_2	4651	3322.014	2161.386	2741.7
## 1540	3621.72	5181.0	2762.9	4661.8	A_2	4661	3343.214	2182.586	2762.9
## 1541	3669.31	5196.7	2654.7	4661.8	A_2	4661	3235.014	2074.386	2654.7
## 1542	3665.43	5190.0	2680.3	4681.6	A_2	4681	3260.614	2099.986	2680.3
## 1543	3626.60	5133.1	2583.2	4677.5	A_2	4677	3163.514	2002.886	2583.2
## 1544	3635.38	5132.1	2579.2	4672.3	A_2	4673	3159.514	1998.886	2579.2
## 1545	3562.73	5041.6	2583.9	4621.3	A_2	4621	3164.214	2003.586	2583.9
## 1546	3596.40	5150.0	2601.5	4562.8	A_2	4563	3181.814	2021.186	2601.5
## 1547	3655.59	5207.2	2624.5	4557.8	A_2	4557	3204.814	2044.186	2624.5
## 1548	3651.59	5238.5	2635.4	4557.1	A_2	4557	3215.714	2055.086	2635.4
## 1549	3684.60	5251.2	2690.9	4576.2	A_2	4577	3271.214	2110.586	2690.9
## 1550	3700.53	5320.0	2719.3	4645.0	A_2	4645	3299.614	2138.986	2719.3
## 1551	3668.61	5368.8	2686.2	4686.7	A_2	4687	3266.514	2105.886	2686.2
## 1552	3671.16	5361.9	2664.2	4739.6	A_2	4739	3244.514	2083.886	2664.2
## 1553	3671.87	5308.6	2696.2	4724.8	A_2	4725	3276.514	2115.886	2696.2
## 1554	3737.16	5364.2	2760.3	4757.4	A_2	4757	3340.614	2179.986	2760.3
## 1555	3752.37	5384.6	2808.5	4783.1	A_2	4783	3388.814	2228.186	2808.5
## 1556	3750.02	5362.0	2795.9	4745.1	A_2	4745	3376.214	2215.586	2795.9
## 1557	3721.18	5345.9	2762.6	4682.2	A_2	4683	3342.914	2182.286	2762.6
## 1558	3730.56	5405.0	2751.7	4657.0	A_2	4657	3332.014	2171.386	2751.7
## 1559	3777.56	5510.3	2739.7	4653.7	A_2	4653	3320.014	2159.386	2739.7
## 1560	3788.54	5561.8	2757.1	4593.9	A_2	4593	3337.414	2176.786	2757.1

## 1561	3748.79	5587.8	2762.2	4575.8	A_2	4575	3342.514	2181.886	2762.2
## 1562	3761.07	5576.1	2784.8	4596.3	A_2	4597	3365.114	2204.486	2784.8
## 1563	3819.52	5662.4	2867.4	4640.0	A_2	4641	3447.714	2287.086	2867.4
## 1564	3820.16	5669.9	2893.6	4657.9	A_2	4657	3473.914	2313.286	2893.6
## 1565	3809.92	5700.3	2891.0	4640.3	A_2	4641	3471.314	2310.686	2891.0
## 1566	3766.89	5620.6	2858.3	4604.6	A_2	4605	3438.614	2277.986	2858.3
## 1567	3834.84	5654.8	2944.0	4728.3	A_2	4729	3524.314	2363.686	2944.0
## 1568	3867.53	5674.3	2909.5	4751.4	A_2	4751	3489.814	2329.186	2909.5
## 1569	3939.73	5804.9	2937.0	4831.7	A_2	4831	3517.314	2356.686	2937.0
## 1570	3946.73	5846.5	2934.5	4812.8	A_2	4813	3514.814	2354.186	2934.5
## 1571	4003.35	5947.0	2947.7	4810.7	A_2	4811	3528.014	2367.386	2947.7
## 1572	4030.10	6012.6	2929.8	4758.5	A_2	4759	3510.114	2349.486	2929.8
## 1573	4026.97	5977.1	2950.6	4762.4	A_2	4763	3530.914	2370.286	2950.6
## 1574	4000.65	5885.4	2929.1	4767.8	A_2	4767	3509.414	2348.786	2929.1
## 1575	4074.30	5801.5	2941.6	4799.5	A_2	4799	3521.914	2361.286	2941.6
## 1576	4142.19	5845.8	2941.6	4857.4	A_2	4857	3521.914	2361.286	2941.6
## 1577	4139.68	5844.7	2950.7	4899.3	A_2	4899	3531.014	2370.386	2950.7
## 1578	4223.69	5927.5	2988.0	4964.2	A_2	4965	3568.314	2407.686	2988.0
## 1579	4203.91	5868.3	2958.6	4949.0	A_2	4949	3538.914	2378.286	2958.6
## 1580	4131.94	5737.1	2876.7	4877.2	A_2	4877	3457.014	2296.386	2876.7
## 1581	4139.96	5620.5	2874.1	4805.7	A_2	4805	3454.414	2293.786	2874.1
## 1582	4297.64	5677.1	2921.1	4846.7	A_2	4847	3501.414	2340.786	2921.1
## 1583	4384.82	5869.9	3003.5	4874.5	A_2	4875	3583.814	2423.186	3003.5
## 1584	4320.52	5849.2	2973.5	4862.9	A_2	4863	3553.814	2393.186	2973.5
## 1585	4368.54	5847.0	3025.9	4851.5	A_2	4851	3606.214	2445.586	3025.9
## 1586	4400.30	5888.0	3022.2	4862.6	A_2	4863	3602.514	2441.886	3022.2
## 1587	4377.70	5842.1	3023.6	4876.6	A_2	4877	3603.914	2443.286	3023.6
## 1588	4458.66	5929.5	3069.3	4927.3	A_2	4927	3649.614	2488.986	3069.3
## 1589	4405.52	5898.2	3075.7	4907.5	A_2	4907	3656.014	2495.386	3075.7
## 1590	4336.98	5898.2	3049.5	4899.3	A_2	4899	3629.814	2469.186	3049.5
## 1591	4302.50	5771.0	2992.4	4895.7	A_2	4895	3572.714	2412.086	2992.4
## 1592	4325.86	5765.2	2984.1	4960.6	A_2	4961	3564.414	2403.786	2984.1
## 1593	4364.25	5812.1	3037.1	5026.2	A_2	5027	3617.414	2456.786	3037.1
## 1594	4428.08	5922.1	3056.3	5086.8	A_2	5087	3636.614	2475.986	3056.3
## 1595	4342.31	5864.8	2996.3	5031.3	A_2	5031	3576.614	2415.986	2996.3
## 1596	4333.15	5825.6	2983.4	5031.9	A_2	5031	3563.714	2403.086	2983.4
## 1597	4377.51	5808.4	2998.6	5075.8	A_2	5075	3578.914	2418.286	2998.6
## 1598	4237.06	5682.1	2924.0	5003.6	A_2	5003	3504.314	2343.686	2924.0
## 1599	4195.53	5579.5	2921.8	4991.3	A_2	4991	3502.114	2341.486	2921.8
## 1600	4077.59	5498.5	2921.8	4865.8	A_2	4865	3502.114	2341.486	2921.8
## 1601	4080.55	5405.6	2870.1	4835.0	A_2	4835	3450.414	2289.786	2870.1
## 1602	4190.45	5580.1	2936.2	4914.2	A_2	4915	3516.514	2355.886	2936.2
## 1603	4251.93	5690.1	2979.3	4958.4	A_2	4959	3559.614	2398.986	2979.3
## 1604	4204.81	5668.8	2957.2	4978.0	A_2	4979	3537.514	2376.886	2957.2
## 1605	4090.14	5475.8	2904.2	4901.1	A_2	4901	3484.514	2323.886	2904.2
## 1606	4076.75	5473.9	2898.6	4901.1	A_2	4901	3478.914	2318.286	2898.6
## 1607	3993.70	5363.3	2869.3	4886.3	A_2	4887	3449.614	2288.986	2869.3
## 1608	3992.03	5409.6	2871.7	4906.9	A_2	4907	3452.014	2291.386	2871.7
## 1609	3897.43	5217.3	2828.4	4845.4	A_2	4845	3408.714	2248.086	2828.4
## 1610	3919.79	5216.7	2770.5	4817.5	A_2	4817	3350.814	2190.186	2770.5
## 1611	4001.81	5271.5	2805.8	4870.2	A_2	4871	3386.114	2225.486	2805.8
## 1612	4127.28	5447.5	2921.2	4952.2	A_2	4953	3501.514	2340.886	2921.2
## 1613	4062.13	5478.6	2918.0	4976.9	A_2	4977	3498.314	2337.686	2918.0
## 1614	4093.43	5478.1	2927.0	4991.3	A_2	4991	3507.314	2346.686	2927.0

## 1615	4073.71	5532.9	2924.5	4994.2	A_2	4995	3504.814	2344.186	2924.5
## 1616	4131.26	5505.3	2940.9	4985.2	A_2	4985	3521.214	2360.586	2940.9
## 1617	4104.57	5445.1	2919.7	4950.5	A_2	4951	3500.014	2339.386	2919.7
## 1618	4028.00	5356.7	2874.6	4905.2	A_2	4905	3454.914	2294.286	2874.6
## 1619	3890.24	5280.8	2843.6	4854.8	A_2	4855	3423.914	2263.286	2843.6
## 1620	3796.61	5281.9	2834.1	4848.2	A_2	4849	3414.414	2253.786	2834.1
## 1621	3869.53	5321.7	2898.6	4902.9	A_2	4903	3478.914	2318.286	2898.6
## 1622	3995.69	5417.8	2940.6	4976.4	A_2	4977	3520.914	2360.286	2940.6
## 1623	3970.44	5550.4	2944.0	5013.1	A_2	5013	3524.314	2363.686	2944.0
## 1624	4004.04	5629.0	2978.4	5046.2	A_2	5047	3558.714	2398.086	2978.4
## 1625	3983.06	5611.0	2977.2	5023.8	A_2	5023	3557.514	2396.886	2977.2
## 1626	4096.85	5705.1	3017.5	5075.7	A_2	5075	3597.814	2437.186	3017.5
## 1627	4091.77	5730.4	2997.2	5027.5	A_2	5027	3577.514	2416.886	2997.2
## 1628	4150.95	5732.5	3023.7	5077.2	A_2	5077	3604.014	2443.386	3023.7
## 1629	4104.93	5667.1	3005.4	5065.5	A_2	5065	3585.714	2425.086	3005.4
## 1630	4135.09	5716.6	2985.6	5226.3	A_2	5227	3565.914	2405.286	2985.6
## 1631	4116.52	5691.8	2989.0	5220.3	A_2	5221	3569.314	2408.686	2989.0
## 1632	4154.89	5673.6	3008.3	5244.2	A_2	5245	3588.614	2427.986	3008.3
## 1633	4262.98	5754.7	3054.9	5317.1	A_2	5317	3635.214	2474.586	3054.9
## 1634	4266.17	5825.0	3052.1	5296.1	A_2	5297	3632.414	2471.786	3052.1
## 1635	4266.17	5929.0	3094.0	5330.8	A_2	5331	3674.314	2513.686	3094.0
## 1636	4326.35	5897.4	3078.0	5300.0	A_2	5301	3658.314	2497.686	3078.0
## 1637	4311.13	5846.9	3064.4	5305.6	A_2	5305	3644.714	2484.086	3064.4
## 1638	4267.40	5822.3	3024.1	5262.1	A_2	5263	3604.414	2443.786	3024.1
## 1639	4179.92	5732.2	2960.7	5217.8	A_2	5217	3541.014	2380.386	2960.7
## 1640	4164.62	5699.5	2955.1	5227.3	A_2	5227	3535.414	2374.786	2955.1
## 1641	4225.27	5792.8	3002.9	5300.1	A_2	5301	3583.214	2422.586	3002.9
## 1642	4215.23	5836.3	3002.5	5298.9	A_2	5299	3582.814	2422.186	3002.5
## 1643	4168.62	5815.9	2992.2	5263.7	A_2	5263	3572.514	2411.886	2992.2
## 1644	4149.92	5806.8	2992.9	5287.9	A_2	5287	3573.214	2412.586	2992.9
## 1645	4049.16	5751.6	2958.0	5271.1	A_2	5271	3538.314	2377.686	2958.0
## 1646	4069.25	5777.2	2946.7	5211.0	A_2	5211	3527.014	2366.386	2946.7
## 1647	4172.47	5862.9	2989.9	5225.9	A_2	5225	3570.214	2409.586	2989.9
## 1648	4124.86	5803.2	2958.1	5148.8	A_2	5149	3538.414	2377.786	2958.1
## 1649	3976.38	5651.8	2856.9	4991.5	A_2	4991	3437.214	2276.586	2856.9
## 1650	3981.44	5689.5	2849.0	4970.2	A_2	4971	3429.314	2268.686	2849.0
## 1651	3871.39	5533.5	2769.6	4840.7	A_2	4841	3349.914	2189.286	2769.6
## 1652	3645.69	5279.7	2651.3	4755.4	A_2	4755	3231.614	2070.986	2651.3
## 1653	3806.66	5479.0	2818.0	4871.8	A_2	4871	3398.314	2237.686	2818.0
## 1654	3748.88	5370.9	2739.5	4801.9	A_2	4801	3319.814	2159.186	2739.5
## 1655	3753.66	5467.2	2739.3	4842.3	A_2	4843	3319.614	2158.986	2739.3
## 1656	3847.73	5581.6	2788.0	4906.4	A_2	4907	3368.314	2207.686	2788.0
## 1657	3784.80	5538.2	2774.9	4897.4	A_2	4897	3355.214	2194.586	2774.9
## 1658	3841.39	5601.6	2822.4	4908.3	A_2	4909	3402.714	2242.086	2822.4
## 1659	3813.88	5557.4	2781.8	4863.8	A_2	4863	3362.114	2201.486	2781.8
## 1660	3715.38	5438.6	2707.1	4764.3	A_2	4765	3287.414	2126.786	2707.1
## 1661	3728.37	5459.7	2707.1	4806.8	A_2	4807	3287.414	2126.786	2707.1
## 1662	3734.79	5483.9	2707.1	4793.7	A_2	4793	3287.414	2126.786	2707.1
## 1663	3697.48	5434.0	2694.5	4720.4	A_2	4721	3274.814	2114.186	2694.5
## 1664	3701.94	5418.2	2700.7	4711.0	A_2	4711	3281.014	2120.386	2700.7
## 1665	3676.65	5437.0	2698.9	4741.8	A_2	4741	3279.214	2118.586	2698.9
## 1666	3816.71	5565.0	2773.0	4867.0	A_2	4867	3353.314	2192.686	2773.0
## 1667	3844.14	5574.2	2782.6	4845.4	A_2	4845	3362.914	2202.286	2782.6
## 1668	3876.90	5571.7	2790.6	4830.1	A_2	4831	3370.914	2210.286	2790.6

## 1669	3931.81	5650.4	2821.2	4908.4	A_2	4909	3401.514	2240.886	2821.2
## 1670	3941.91	5725.5	2861.7	4985.8	A_2	4985	3442.014	2281.386	2861.7
## 1671	3832.10	5645.7	2802.5	4898.6	A_2	4899	3382.814	2222.186	2802.5
## 1672	3850.14	5666.3	2786.3	4863.5	A_2	4863	3366.614	2205.986	2786.3
## 1673	3926.93	5738.3	2811.7	4891.2	A_2	4891	3392.014	2231.386	2811.7
## 1674	3961.97	5772.4	2829.0	4889.0	A_2	4889	3409.314	2248.686	2829.0
## 1675	3972.08	5775.9	2854.4	4831.8	A_2	4831	3434.714	2274.086	2854.4
## 1676	4125.92	5875.1	2918.5	4921.8	A_2	4921	3498.814	2338.186	2918.5
## 1677	4096.40	5919.9	2913.1	4977.6	A_2	4977	3493.414	2332.786	2913.1
## 1678	4074.55	5922.7	2902.4	4970.7	A_2	4971	3482.714	2322.086	2902.4
## 1679	4159.72	5969.5	2914.5	5082.3	A_2	5083	3494.814	2334.186	2914.5
## 1680	4191.81	6009.0	2910.1	5142.9	A_2	5143	3490.414	2329.786	2910.1
## 1681	4208.14	6095.3	2932.5	5187.4	A_2	5187	3512.814	2352.186	2932.5
## 1682	4187.13	6103.2	2959.4	5177.1	A_2	5177	3539.714	2379.086	2959.4
## 1683	4116.70	6056.6	2932.2	5130.7	A_2	5131	3512.514	2351.886	2932.2
## 1684	4016.70	6021.8	2828.5	5035.9	A_2	5035	3408.814	2248.186	2828.5
## 1685	4061.91	6018.7	2830.3	5045.2	A_2	5045	3410.614	2249.986	2830.3
## 1686	4029.08	5986.6	2838.3	5121.8	A_2	5121	3418.614	2257.986	2838.3
## 1687	4150.31	6092.7	2912.2	5203.4	A_2	5203	3492.514	2331.886	2912.2
## 1688	4154.57	6122.1	2893.3	5190.8	A_2	5191	3473.614	2312.986	2893.3
## 1689	4162.92	6115.1	2894.5	5168.3	A_2	5169	3474.814	2314.186	2894.5
## 1690	4055.35	5989.9	2822.9	5020.2	A_2	5021	3403.214	2242.586	2822.9
## 1691	4125.54	6049.3	2869.7	5018.2	A_2	5019	3450.014	2289.386	2869.7
## 1692	4132.79	6044.7	2858.1	5049.8	A_2	5049	3438.414	2277.786	2858.1
## 1693	4132.79	6046.7	2874.1	5013.9	A_2	5013	3454.414	2293.786	2874.1
## 1694	4132.79	6046.7	2874.1	5013.9	A_2	5013	3454.414	2293.786	2874.1
## 1695	4132.79	6046.7	2875.1	5013.9	A_2	5013	3455.414	2294.786	2875.1
## 1696	4266.02	6190.4	2939.5	5112.4	A_2	5113	3519.814	2359.186	2939.5
## 1697	4224.30	6267.6	2975.5	5132.3	A_2	5133	3555.814	2395.186	2975.5
## 1698	4224.30	6265.5	2998.9	5135.5	A_2	5135	3579.214	2418.586	2998.9
## 1699	4224.30	6265.5	2998.9	5135.5	A_2	5135	3579.214	2418.586	2998.9
## 1700	4364.32	6265.5	3038.7	5193.5	A_2	5193	3619.014	2458.386	3038.7
## 1701	4416.95	6397.0	3072.8	5262.5	A_2	5263	3653.114	2492.486	3072.8
## 1702	4360.05	6375.7	3037.7	5264.4	A_2	5265	3618.014	2457.386	3037.7
## 1703	4339.98	6390.0	3006.7	5224.1	A_2	5225	3587.014	2426.386	3006.7
## 1704	4293.64	6330.2	2954.9	5237.1	A_2	5237	3535.214	2374.586	2954.9
## 1705	4237.75	6251.8	2919.8	5138.3	A_2	5139	3500.114	2339.486	2919.8
## 1706	4134.64	6062.1	2862.5	5068.8	A_2	5069	3442.814	2282.186	2862.5
## 1707	4150.01	6169.3	2902.9	5083.9	A_2	5083	3483.214	2322.586	2902.9
## 1708	4145.41	6149.8	2919.8	5106.9	A_2	5107	3500.114	2339.486	2919.8
## 1709	4140.22	6148.5	2932.8	5165.8	A_2	5165	3513.114	2352.486	2932.8
## 1710	4216.24	6274.0	2976.1	5263.1	A_2	5263	3556.414	2395.786	2976.1
## 1711	4290.05	6340.4	2987.0	5273.6	A_2	5273	3567.314	2406.686	2987.0
## 1712	4310.83	6397.5	3008.3	5278.2	A_2	5279	3588.614	2427.986	3008.3
## 1713	4250.47	6391.4	2998.1	5272.3	A_2	5273	3578.414	2417.786	2998.1
## 1714	4238.77	6356.1	2988.6	5253.1	A_2	5253	3568.914	2408.286	2988.6
## 1715	4222.16	6391.0	2966.2	5181.4	A_2	5181	3546.514	2385.886	2966.2
## 1716	4266.34	6411.0	3000.5	5237.2	A_2	5237	3580.814	2420.186	3000.5
## 1717	4316.05	6424.0	3052.0	5326.3	A_2	5327	3632.314	2471.686	3052.0
## 1718	4385.29	6508.7	3088.3	5372.6	A_2	5373	3668.614	2507.986	3088.3
## 1719	4444.53	6530.4	3133.8	5422.4	A_2	5423	3714.114	2553.486	3133.8
## 1720	4442.53	6582.6	3172.1	5458.5	A_2	5459	3752.414	2591.786	3172.1
## 1721	4529.88	6688.0	3187.5	5599.0	A_2	5599	3767.814	2607.186	3187.5
## 1722	4529.18	6720.7	3188.4	5612.8	A_2	5613	3768.714	2608.086	3188.4

## 1723	4509.25	6708.9	3166.3	5595.8	A_2	5595	3746.614	2585.986	3166.3
## 1724	4494.72	6772.0	3189.6	5606.4	A_2	5607	3769.914	2609.286	3189.6
## 1725	4536.91	6857.1	3216.7	5629.7	A_2	5629	3797.014	2636.386	3216.7
## 1726	4519.56	6828.4	3220.9	5600.9	A_2	5601	3801.214	2640.586	3220.9
## 1727	4558.62	6860.8	3235.8	5613.3	A_2	5613	3816.114	2655.486	3235.8
## 1728	4552.46	6931.6	3240.0	5607.9	A_2	5607	3820.314	2659.686	3240.0
## 1729	4509.37	6856.0	3178.7	5552.5	A_2	5553	3759.014	2598.386	3178.7
## 1730	4522.42	6898.9	3187.7	5582.3	A_2	5583	3768.014	2607.386	3187.7
## 1731	4535.56	6905.3	3225.1	5619.9	A_2	5619	3805.414	2644.786	3225.1
## 1732	4627.42	6990.5	3280.5	5709.5	A_2	5709	3860.814	2700.186	3280.5
## 1733	4611.66	6966.2	3281.7	5723.4	A_2	5723	3862.014	2701.386	3281.7
## 1734	4581.08	6953.2	3250.6	5718.5	A_2	5719	3830.914	2670.286	3250.6
## 1735	4583.03	6986.7	3262.5	5718.5	A_2	5719	3842.814	2682.186	3262.5
## 1736	4610.66	6986.1	3273.5	5702.8	A_2	5703	3853.814	2693.186	3273.5
## 1737	4604.55	6945.0	3262.3	5651.0	A_2	5651	3842.614	2681.986	3262.3
## 1738	4704.58	7065.4	3348.2	5745.1	A_2	5745	3928.514	2767.886	3348.2
## 1739	4695.78	7118.6	3397.0	5764.8	A_2	5765	3977.314	2816.686	3397.0
## 1740	4693.86	7153.1	3421.9	5767.3	A_2	5767	4002.214	2841.586	3421.9
## 1741	4781.62	7273.0	3446.7	5820.6	A_2	5821	4027.014	2866.386	3446.7
## 1742	4759.62	7259.5	3414.9	5807.7	A_2	5807	3995.214	2834.586	3414.9
## 1743	4690.52	7130.5	3381.3	5733.1	A_2	5733	3961.614	2800.986	3381.3
## 1744	4676.42	7077.3	3395.8	5695.6	A_2	5695	3976.114	2815.486	3395.8
## 1745	4762.71	7197.2	3483.2	5782.9	A_2	5783	4063.514	2902.886	3483.2
## 1746	4828.89	7187.5	3525.9	5818.9	A_2	5819	4106.214	2945.586	3525.9
## 1747	4852.22	7246.5	3521.5	5828.5	A_2	5829	4101.814	2941.186	3521.5
## 1748	4862.41	7276.7	3539.4	5829.8	A_2	5829	4119.714	2959.086	3539.4
## 1749	4838.67	7267.9	3526.6	5794.8	A_2	5795	4106.914	2946.286	3526.6
## 1750	4872.24	7328.0	3540.2	5782.3	A_2	5783	4120.514	2959.886	3540.2
## 1751	4905.59	7261.2	3598.3	5785.1	A_2	5785	4178.614	3017.986	3598.3
## 1752	4945.91	7236.5	3661.3	5834.9	A_2	5835	4241.614	3080.986	3661.3
## 1753	4908.55	7132.4	3652.5	5903.6	A_2	5903	4232.814	3072.186	3652.5
## 1754	4949.91	7143.8	3688.7	5997.9	A_2	5997	4269.014	3108.386	3688.7
## 1755	5045.16	7300.5	3688.9	5956.3	A_2	5957	4269.214	3108.586	3688.9
## 1756	5014.13	7341.0	3680.1	5947.0	A_2	5947	4260.414	3099.786	3680.1
## 1757	5064.35	7407.4	3738.5	5983.7	A_2	5983	4318.814	3158.186	3738.5
## 1758	5114.13	7472.1	3818.7	5967.8	A_2	5967	4399.014	3238.386	3818.7
## 1759	5029.00	7415.9	3783.8	5905.6	A_2	5905	4364.114	3203.486	3783.8
## 1760	5066.90	7530.3	3810.2	5939.3	A_2	5939	4390.514	3229.886	3810.2
## 1761	5069.89	7536.3	3800.2	5911.9	A_2	5911	4380.514	3219.886	3800.2
## 1762	5097.25	7585.5	3875.3	5932.2	A_2	5933	4455.614	3294.986	3875.3
## 1763	5135.35	7615.5	3883.3	6017.6	A_2	6017	4463.614	3302.986	3883.3
## 1764	5179.04	7638.8	3935.9	6052.8	A_2	6053	4516.214	3355.586	3935.9
## 1765	5254.32	7725.9	3932.0	6064.2	A_2	6065	4512.314	3351.686	3932.0
## 1766	5345.89	7827.7	3986.8	6105.8	A_2	6105	4567.114	3406.486	3986.8
## 1767	5309.67	7744.3	3903.3	6094.0	A_2	6095	4483.614	3322.986	3903.3
## 1768	5267.35	7588.1	3873.9	6055.2	A_2	6055	4454.214	3293.586	3873.9
## 1769	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186	3894.5
## 1770	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186	3894.5
## 1771	5312.25	7624.1	3894.5	6105.5	A_2	6105	4474.814	3314.186	3894.5
## 1772	5367.98	7662.9	3867.7	6104.1	A_2	6105	4448.014	3287.386	3867.7
## 1773	5359.24	7616.3	3884.6	6074.1	A_2	6075	4464.914	3304.286	3884.6
## 1774	5292.97	7500.1	3845.9	6002.0	A_2	6003	4426.214	3265.586	3845.9
## 1775	5326.63	7453.7	3861.6	5922.2	A_2	5923	4441.914	3281.286	3861.6
## 1776	5407.93	7500.1	3885.7	5954.1	A_2	5955	4466.014	3305.386	3885.7

## 1777	5373.80	7369.1	3860.4	5955.0	A_2	5955	4440.714	3280.086	3860.4
## 1778	5312.28	7308.9	3835.1	5931.1	A_2	5931	4415.414	3254.786	3835.1
## 1779	5262.57	7265.5	3822.1	5898.1	A_2	5899	4402.414	3241.786	3822.1
## 1780	5144.42	7232.3	3788.7	5863.9	A_2	5863	4369.014	3208.386	3788.7
## 1781	5002.71	7053.5	3689.4	5722.4	A_2	5723	4269.714	3109.086	3689.4
## 1782	5110.88	7180.1	3777.2	5806.6	A_2	5807	4357.514	3196.886	3777.2
## 1783	5083.80	7241.8	3726.2	5833.1	A_2	5833	4306.514	3145.886	3726.2
## 1784	5241.23	7401.4	3867.9	5928.3	A_2	5929	4448.214	3287.586	3867.9
## 1785	5241.23	7401.4	3867.9	6011.3	A_2	6011	4448.214	3287.586	3867.9
## 1786	5337.75	7640.8	3979.3	6011.3	A_2	6011	4559.614	3398.986	3979.3
## 1787	5226.20	7596.2	3945.5	5986.5	A_2	5987	4525.814	3365.186	3945.5
## 1788	5264.62	7610.8	3947.5	5992.4	A_2	5993	4527.814	3367.186	3947.5
## 1789	5164.89	7536.0	3912.8	5938.0	A_2	5939	4493.114	3332.486	3912.8
## 1790	5270.61	7587.1	3912.8	5969.8	A_2	5969	4493.114	3332.486	3912.8
## 1791	5348.75	7677.5	4007.3	6028.3	A_2	6029	4587.614	3426.986	4007.3
## 1792	5307.82	7627.3	3986.1	5956.7	A_2	5957	4566.414	3405.786	3986.1
## 1793	5371.99	7582.8	4018.5	5972.9	A_2	5973	4598.814	3438.186	4018.5
## 1794	5374.11	7550.6	4012.0	5948.5	A_2	5949	4592.314	3431.686	4012.0
## 1795	5414.31	7519.4	3990.2	5917.8	A_2	5917	4570.514	3409.886	3990.2
## 1796	5343.66	7371.4	3945.3	5826.2	A_2	5827	4525.614	3364.986	3945.3
## 1797	5441.00	7483.2	3980.8	5877.8	A_2	5877	4561.114	3400.486	3980.8
## 1798	5514.51	7495.8	4047.9	5907.4	A_2	5907	4628.214	3467.586	4047.9
## 1799	5514.51	7495.8	4047.9	5935.6	A_2	5935	4628.214	3467.586	4047.9
## 1800	5530.19	7542.7	4049.8	5955.6	A_2	5955	4630.114	3469.486	4049.8
## 1801	5592.46	7657.1	4108.7	5955.6	A_2	5955	4689.014	3528.386	4108.7
## 1802	5639.89	7731.9	4115.9	5970.7	A_2	5971	4696.214	3535.586	4115.9
## 1803	5466.88	7633.5	4017.4	5870.2	A_2	5871	4597.714	3437.086	4017.4
## 1804	5507.36	7605.0	4014.9	5862.3	A_2	5863	4595.214	3434.586	4014.9
## 1805	5556.99	7656.1	4041.2	5870.7	A_2	5871	4621.514	3460.886	4041.2
## 1806	5556.99	7656.1	4041.2	5837.9	A_2	5837	4621.514	3460.886	4041.2
## 1807	5583.83	7657.5	4087.0	5842.3	A_2	5843	4667.314	3506.686	4087.0
## 1808	5640.42	7676.3	4149.4	5898.4	A_2	5899	4729.714	3569.086	4149.4
## 1809	5605.38	7592.9	4119.0	5860.8	A_2	5861	4699.314	3538.686	4119.0
## 1810	5724.75	7699.5	4185.1	5947.3	A_2	5947	4765.414	3604.786	4185.1
## 1811	5787.05	7743.4	4204.6	6037.8	A_2	6037	4784.914	3624.286	4204.6
## 1812	5773.77	7716.8	4201.9	6019.8	A_2	6019	4782.214	3621.586	4201.9
## 1813	5799.22	7652.6	4208.6	5987.4	A_2	5987	4788.914	3628.286	4208.6
## 1814	5799.22	7498.4	4141.6	5852.5	A_2	5853	4721.914	3561.286	4141.6
## 1815	5631.34	7417.4	4050.8	5769.8	A_2	5769	4631.114	3470.486	4050.8
## 1816	5581.24	7342.7	4005.3	5715.7	A_2	5715	4585.614	3424.986	4005.3
## 1817	5621.71	7388.7	4013.3	5729.7	A_2	5729	4593.614	3432.986	4013.3
## 1818	5742.83	7562.7	4092.9	5832.7	A_2	5833	4673.214	3512.586	4092.9
## 1819	5689.89	7488.0	4052.3	5812.1	A_2	5813	4632.614	3471.986	4052.3
## 1820	5644.22	7518.6	4027.3	5748.1	A_2	5749	4607.614	3446.986	4027.3
## 1821	5648.11	7511.8	4018.6	5712.4	A_2	5713	4598.914	3438.286	4018.6
## 1822	5748.34	7624.8	4065.0	5772.0	A_2	5773	4645.314	3484.686	4065.0
## 1823	5784.40	7667.9	4126.3	5804.9	A_2	5805	4706.614	3545.986	4126.3
## 1824	5886.72	7794.7	4203.8	5858.9	A_2	5859	4784.114	3623.486	4203.8
## 1825	5870.49	7816.9	4215.7	5877.4	A_2	5877	4796.014	3635.386	4215.7
## 1826	5933.73	7881.9	4248.2	5884.5	A_2	5885	4828.514	3667.886	4248.2
## 1827	5841.83	7882.0	4203.5	5832.5	A_2	5833	4783.814	3623.186	4203.5
## 1828	5910.51	8038.2	4260.7	5919.9	A_2	5919	4841.014	3680.386	4260.7
## 1829	5905.15	8047.3	4252.1	5960.2	A_2	5961	4832.414	3671.786	4252.1
## 1830	5961.45	8099.0	4304.4	5988.4	A_2	5989	4884.714	3724.086	4304.4

## 1831	5942.06	8166.0	4311.1	5990.3	A_2	5991	4891.414	3730.786	4311.1
## 1832	5975.88	8160.0	4333.1	6003.4	A_2	6003	4913.414	3752.786	4333.1
## 1833	6018.89	8227.2	4339.9	6009.6	A_2	6009	4920.214	3759.586	4339.9
## 1834	6000.84	8205.0	4319.2	5969.7	A_2	5969	4899.514	3738.886	4319.2
## 1835	6001.24	8192.4	4256.4	5927.9	A_2	5927	4836.714	3676.086	4256.4
## 1836	6023.31	8141.9	4256.4	5958.2	A_2	5959	4836.714	3676.086	4256.4
## 1837	6101.90	8180.5	4256.4	6100.2	A_2	6101	4836.714	3676.086	4256.4
## 1838	6106.10	8158.1	4344.3	6151.5	A_2	6151	4924.614	3763.986	4344.3
## 1839	6108.00	8126.5	4358.1	6116.8	A_2	6117	4938.414	3777.786	4358.1
## 1840	6162.86	8288.2	4388.5	6174.0	A_2	6175	4968.814	3808.186	4388.5
## 1841	6186.09	8400.8	4368.9	6179.0	A_2	6179	4949.214	3788.586	4368.9
## 1842	6184.10	8412.0	4322.1	6132.7	A_2	6133	4902.414	3741.786	4322.1
## 1843	6081.11	8340.7	4220.1	5989.6	A_2	5989	4800.414	3639.786	4220.1
## 1844	6043.82	8229.2	4235.9	5976.2	A_2	5977	4816.214	3655.586	4235.9
## 1845	6040.58	8205.7	4205.4	5892.3	A_2	5893	4785.714	3625.086	4205.4
## 1846	5854.35	7998.7	4139.5	5836.1	A_2	5837	4719.814	3559.186	4139.5
## 1847	5867.52	8093.0	4122.4	5835.8	A_2	5835	4702.714	3542.086	4122.4
## 1848	5828.74	8102.7	4139.2	5844.1	A_2	5845	4719.514	3558.886	4139.2
## 1849	5906.33	8205.5	4197.6	5910.7	A_2	5911	4777.914	3617.286	4197.6
## 1850	5861.19	8239.5	4177.3	5837.0	A_2	5837	4757.614	3596.986	4177.3
## 1851	5774.38	8139.2	4095.0	5809.7	A_2	5809	4675.314	3514.686	4095.0
## 1852	5718.70	8170.2	4047.9	5736.1	A_2	5737	4628.214	3467.586	4047.9
## 1853	5614.77	7943.2	3976.4	5632.5	A_2	5633	4556.714	3396.086	3976.4
## 1854	5528.12	7846.2	3968.6	5594.1	A_2	5595	4548.914	3388.286	3968.6
## 1855	5598.32	7952.9	4041.9	5680.4	A_2	5681	4622.214	3461.586	4041.9
## 1856	5460.43	7721.3	3939.5	5587.6	A_2	5587	4519.814	3359.186	3939.5
## 1857	5285.78	7447.9	3846.0	5432.8	A_2	5433	4426.314	3265.686	3846.0
## 1858	5386.94	7607.5	3945.7	5462.2	A_2	5463	4526.014	3365.386	3945.7
## 1859	5355.03	7552.6	3951.7	5399.5	A_2	5399	4532.014	3371.386	3951.7
## 1860	5473.72	7676.3	3995.0	5455.0	A_2	5455	4575.314	3414.686	3995.0

9. Use a while loop to iterate through the FTSE column to find the second largest value of FTSE.

```
count <- 1
largest <- 0

while (count <= length(eustock$FTSE))
{
  if(eustock$FTSE[count] > largest){
    largest2 <- largest
    largest <- eustock$FTSE[count] }

  count = count + 1
}

paste("Second Largest value:", largest2)
```

```
## [1] "Second Largest value: 6174"
```

```
#To make sure that both the values match
# Second highest value in the FTSE column
cat("\n")
```

```
max(eustock$FTSE[eustock$FTSE != max(eustock$FTSE)])
```

```
## [1] 6174
```