

| Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) |
|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|
| -2.0            | -55.5          | -41.5          | 54              | 20.3           | 34.3           | 110             | 55.4           | 68.9           | 166             | 80.2           | 93.1           |
| -1.0            | -52.7          | -38.6          | 55              | 21.1           | 35.1           | 111             | 55.9           | 69.4           | 167             | 80.6           | 93.4           |
| 0               | -50.0          | -36.0          | 56              | 21.9           | 35.9           | 112             | 56.4           | 69.9           | 168             | 80.9           | 93.8           |
| 1               | -47.5          | -33.4          | 57              | 22.6           | 36.6           | 113             | 56.9           | 70.4           | 169             | 81.3           | 94.2           |
| 2               | -45.1          | -31.0          | 58              | 23.4           | 37.4           | 114             | 57.4           | 70.9           | 170             | 81.7           | 94.6           |
| 3               | -42.8          | -28.7          | 59              | 24.2           | 38.1           | 115             | 57.9           | 71.4           | 171             | 82.1           | 94.9           |
| 4               | -40.6          | -26.5          | 60              | 24.9           | 38.9           | 116             | 58.4           | 71.9           | 172             | 82.5           | 95.3           |
| 5               | -38.5          | -24.4          | 61              | 25.7           | 39.6           | 117             | 58.9           | 72.3           | 173             | 82.9           | 95.7           |
| 6               | -36.5          | -22.4          | 62              | 26.4           | 40.3           | 118             | 59.4           | 72.8           | 174             | 83.2           | 96.0           |
| 7               | -34.5          | -20.4          | 63              | 27.1           | 41.1           | 119             | 59.9           | 73.3           | 175             | 83.6           | 96.4           |
| 8               | -32.6          | -18.5          | 64              | 27.8           | 41.8           | 120             | 60.3           | 73.8           | 176             | 84.0           | 96.8           |
| 9               | -30.8          | -16.7          | 65              | 28.6           | 42.5           | 121             | 60.8           | 74.2           | 177             | 84.4           | 97.1           |
| 10              | -29.1          | -14.9          | 66              | 29.3           | 43.2           | 122             | 61.3           | 74.7           | 178             | 84.7           | 97.5           |
| 11              | -27.4          | -13.2          | 67              | 30.0           | 43.9           | 123             | 61.8           | 75.2           | 179             | 85.1           | 97.8           |
| 12              | -25.7          | -11.6          | 68              | 30.7           | 44.6           | 124             | 62.3           | 75.6           | 180             | 85.5           | 98.2           |
| 13              | -24.1          | -10.0          | 69              | 31.3           | 45.2           | 125             | 62.7           | 76.1           | 181             | 85.8           | 98.5           |
| 14              | -22.5          | -8.4           | 70              | 32.0           | 45.9           | 126             | 63.2           | 76.6           | 182             | 86.2           | 98.9           |
| 15              | -21.0          | -6.9           | 71              | 32.7           | 46.6           | 127             | 63.7           | 77.0           | 183             | 86.6           | 99.2           |
| 16              | -19.5          | -5.4           | 72              | 33.4           | 47.2           | 128             | 64.1           | 77.5           | 184             | 86.9           | 99.6           |
| 17              | -18.1          | -4.0           | 73              | 34.0           | 47.9           | 129             | 64.6           | 77.9           | 185             | 87.3           | 99.9           |
| 18              | -16.7          | -2.5           | 74              | 34.7           | 48.5           | 130             | 65.0           | 78.4           | 186             | 87.6           | 100.3          |
| 19              | -15.3          | -1.2           | 75              | 35.3           | 49.2           | 131             | 65.5           | 78.8           | 187             | 88.0           | 100.6          |
| 20              | -14.0          | 0.2            | 76              | 36.0           | 49.8           | 132             | 65.9           | 79.2           | 188             | 88.4           | 101.0          |
| 21              | -12.7          | 1.5            | 77              | 36.6           | 50.5           | 133             | 66.4           | 79.7           | 189             | 88.7           | 101.3          |
| 22              | -11.4          | 2.8            | 78              | 37.3           | 51.1           | 134             | 66.8           | 80.1           | 190             | 89.1           | 101.7          |
| 23              | -10.1          | 4.0            | 79              | 37.9           | 51.7           | 135             | 67.3           | 80.6           | 191             | 89.4           | 102.0          |
| 24              | -8.9           | 5.3            | 80              | 38.5           | 52.3           | 136             | 67.7           | 81.0           | 192             | 89.8           | 102.4          |
| 25              | -7.7           | 6.5            | 81              | 39.1           | 53.0           | 137             | 68.2           | 81.4           | 193             | 90.1           | 102.7          |
| 26              | -6.5           | 7.7            | 82              | 39.8           | 53.6           | 138             | 68.6           | 81.8           | 194             | 90.5           | 103.0          |
| 27              | -5.3           | 8.8            | 83              | 40.4           | 54.2           | 139             | 69.1           | 82.3           | 195             | 90.8           | 103.4          |
| 28              | -4.2           | 10.0           | 84              | 41.0           | 54.8           | 140             | 69.5           | 82.7           | 196             | 91.2           | 103.7          |
| 29              | -3.0           | 11.1           | 85              | 41.6           | 55.4           | 141             | 69.9           | 83.1           | 197             | 91.5           | 104.0          |
| 30              | -1.9           | 12.2           | 86              | 42.2           | 55.9           | 142             | 70.4           | 83.5           | 198             | 91.9           | 104.4          |
| 31              | -0.8           | 13.3           | 87              | 42.8           | 56.5           | 143             | 70.8           | 84.0           | 199             | 92.2           | 104.7          |
| 32              | 0.2            | 14.4           | 88              | 43.4           | 57.1           | 144             | 71.2           | 84.4           | 200             | 92.6           | 105.0          |
| 33              | 1.3            | 15.4           | 89              | 44.0           | 57.7           | 145             | 71.6           | 84.8           | 201             | 92.9           | 105.4          |
| 34              | 2.3            | 16.4           | 90              | 44.5           | 58.3           | 146             | 72.1           | 85.2           | 202             | 93.2           | 105.7          |
| 35              | 3.3            | 17.5           | 91              | 45.1           | 58.8           | 147             | 72.5           | 85.6           | 203             | 93.6           | 106.0          |
| 36              | 4.4            | 18.5           | 92              | 45.7           | 59.4           | 148             | 72.9           | 86.0           | 204             | 93.9           | 106.3          |
| 37              | 5.3            | 19.5           | 93              | 46.3           | 60.0           | 149             | 73.3           | 86.4           | 205             | 94.3           | 106.7          |
| 38              | 6.3            | 20.4           | 94              | 46.8           | 60.5           | 150             | 73.7           | 86.8           | 206             | 94.6           | 107.0          |
| 39              | 7.3            | 21.4           | 95              | 47.4           | 61.1           | 151             | 74.2           | 87.2           | 207             | 94.9           | 107.3          |
| 40              | 8.2            | 22.3           | 96              | 47.9           | 61.6           | 152             | 74.6           | 87.6           | 208             | 95.3           | 107.6          |
| 41              | 9.2            | 23.3           | 97              | 48.5           | 62.2           | 153             | 75.0           | 88.0           | 209             | 95.6           | 108.0          |
| 42              | 10.1           | 24.2           | 98              | 49.1           | 62.7           | 154             | 75.4           | 88.4           | 210             | 95.9           | 108.3          |
| 43              | 11.0           | 25.1           | 99              | 49.6           | 63.2           | 155             | 75.8           | 88.8           | 211             | 96.3           | 108.6          |
| 44              | 11.9           | 26.0           | 100             | 50.1           | 63.8           | 156             | 76.2           | 89.2           | 212             | 96.6           | 108.9          |
| 45              | 12.8           | 26.8           | 101             | 50.7           | 64.3           | 157             | 76.6           | 89.6           | 213             | 96.9           | 109.2          |
| 46              | 13.7           | 27.7           | 102             | 51.2           | 64.8           | 158             | 77.0           | 90.0           | 214             | 97.2           | 109.5          |
| 47              | 14.5           | 28.6           | 103             | 51.8           | 65.4           | 159             | 77.4           | 90.4           | 215             | 97.6           | 109.8          |
| 48              | 15.4           | 29.4           | 104             | 52.3           | 65.9           | 160             | 77.8           | 90.8           | 216             | 97.9           | 110.2          |
| 49              | 16.2           | 30.3           | 105             | 52.8           | 66.4           | 161             | 78.2           | 91.2           | 217             | 98.2           | 110.5          |
| 50              | 17.1           | 31.1           | 106             | 53.3           | 66.9           | 162             | 78.6           | 91.6           | 218             | 98.5           | 110.8          |
| 51              | 17.9           | 31.9           | 107             | 53.9           | 67.4           | 163             | 79.0           | 91.9           | 219             | 98.9           | 111.1          |
| 52              | 18.7           | 32.7           | 108             | 54.4           | 67.9           | 164             | 79.4           | 92.3           | 220             | 99.2           | 111.4          |
| 53              | 19.5           | 33.5           | 109             | 54.9           | 68.4           | 165             | 79.8           | 92.7           | 221             | 99.5           | 111.7          |

# Opteon™ XL20 (R-454C) Pressure-Temperature Data (Eng)

| Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) | Pressure (psig) | Sat Liq T (°F) | Sat Vap T (°F) |
|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|
| 222             | 99.8           | 112.0          | 278             | 116.4          | 127.7          | 334             | 130.7          | 141.2          | 390             | 143.5          | 152.9          |
| 223             | 100.2          | 112.3          | 279             | 116.6          | 128.0          | 335             | 131.0          | 141.4          | 391             | 143.8          | 153.1          |
| 224             | 100.5          | 112.6          | 280             | 116.9          | 128.2          | 336             | 131.2          | 141.6          | 392             | 144.0          | 153.3          |
| 225             | 100.8          | 112.9          | 281             | 117.2          | 128.5          | 337             | 131.5          | 141.8          | 393             | 144.2          | 153.5          |
| 226             | 101.1          | 113.2          | 282             | 117.4          | 128.7          | 338             | 131.7          | 142.1          | 394             | 144.4          | 153.7          |
| 227             | 101.4          | 113.5          | 283             | 117.7          | 129.0          | 339             | 131.9          | 142.3          | 395             | 144.6          | 153.9          |
| 228             | 101.7          | 113.8          | 284             | 118.0          | 129.3          | 340             | 132.2          | 142.5          | 396             | 144.8          | 154.1          |
| 229             | 102.0          | 114.1          | 285             | 118.3          | 129.5          | 341             | 132.4          | 142.7          | 397             | 145.1          | 154.3          |
| 230             | 102.4          | 114.4          | 286             | 118.5          | 129.8          | 342             | 132.6          | 142.9          | 398             | 145.3          | 154.5          |
| 231             | 102.7          | 114.7          | 287             | 118.8          | 130.0          | 343             | 132.9          | 143.2          | 399             | 145.5          | 154.7          |
| 232             | 103.0          | 115.0          | 288             | 119.1          | 130.3          | 344             | 133.1          | 143.4          | 400             | 145.7          | 154.9          |
| 233             | 103.3          | 115.3          | 289             | 119.3          | 130.5          | 345             | 133.4          | 143.6          |                 |                |                |
| 234             | 103.6          | 115.6          | 290             | 119.6          | 130.8          | 346             | 133.6          | 143.8          |                 |                |                |
| 235             | 103.9          | 115.9          | 291             | 119.9          | 131.0          | 347             | 133.8          | 144.0          |                 |                |                |
| 236             | 104.2          | 116.2          | 292             | 120.1          | 131.3          | 348             | 134.1          | 144.3          |                 |                |                |
| 237             | 104.5          | 116.5          | 293             | 120.4          | 131.5          | 349             | 134.3          | 144.5          |                 |                |                |
| 238             | 104.8          | 116.8          | 294             | 120.7          | 131.8          | 350             | 134.5          | 144.7          |                 |                |                |
| 239             | 105.1          | 117.1          | 295             | 120.9          | 132.0          | 351             | 134.8          | 144.9          |                 |                |                |
| 240             | 105.4          | 117.3          | 296             | 121.2          | 132.3          | 352             | 135.0          | 145.1          |                 |                |                |
| 241             | 105.7          | 117.6          | 297             | 121.4          | 132.5          | 353             | 135.2          | 145.3          |                 |                |                |
| 242             | 106.0          | 117.9          | 298             | 121.7          | 132.7          | 354             | 135.5          | 145.6          |                 |                |                |
| 243             | 106.3          | 118.2          | 299             | 122.0          | 133.0          | 355             | 135.7          | 145.8          |                 |                |                |
| 244             | 106.6          | 118.5          | 300             | 122.2          | 133.2          | 356             | 135.9          | 146.0          |                 |                |                |
| 245             | 106.9          | 118.8          | 301             | 122.5          | 133.5          | 357             | 136.2          | 146.2          |                 |                |                |
| 246             | 107.2          | 119.1          | 302             | 122.7          | 133.7          | 358             | 136.4          | 146.4          |                 |                |                |
| 247             | 107.5          | 119.3          | 303             | 123.0          | 134.0          | 359             | 136.6          | 146.6          |                 |                |                |
| 248             | 107.8          | 119.6          | 304             | 123.3          | 134.2          | 360             | 136.8          | 146.8          |                 |                |                |
| 249             | 108.1          | 119.9          | 305             | 123.5          | 134.4          | 361             | 137.1          | 147.0          |                 |                |                |
| 250             | 108.4          | 120.2          | 306             | 123.8          | 134.7          | 362             | 137.3          | 147.2          |                 |                |                |
| 251             | 108.7          | 120.5          | 307             | 124.0          | 134.9          | 363             | 137.5          | 147.5          |                 |                |                |
| 252             | 109.0          | 120.7          | 308             | 124.3          | 135.2          | 364             | 137.8          | 147.7          |                 |                |                |
| 253             | 109.3          | 121.0          | 309             | 124.5          | 135.4          | 365             | 138.0          | 147.9          |                 |                |                |
| 254             | 109.6          | 121.3          | 310             | 124.8          | 135.6          | 366             | 138.2          | 148.1          |                 |                |                |
| 255             | 109.9          | 121.6          | 311             | 125.0          | 135.9          | 367             | 138.4          | 148.3          |                 |                |                |
| 256             | 110.2          | 121.9          | 312             | 125.3          | 136.1          | 368             | 138.7          | 148.5          |                 |                |                |
| 257             | 110.5          | 122.1          | 313             | 125.6          | 136.3          | 369             | 138.9          | 148.7          |                 |                |                |
| 258             | 110.7          | 122.4          | 314             | 125.8          | 136.6          | 370             | 139.1          | 148.9          |                 |                |                |
| 259             | 111.0          | 122.7          | 315             | 126.1          | 136.8          | 371             | 139.3          | 149.1          |                 |                |                |
| 260             | 111.3          | 122.9          | 316             | 126.3          | 137.1          | 372             | 139.6          | 149.3          |                 |                |                |
| 261             | 111.6          | 123.2          | 317             | 126.6          | 137.3          | 373             | 139.8          | 149.5          |                 |                |                |
| 262             | 111.9          | 123.5          | 318             | 126.8          | 137.5          | 374             | 140.0          | 149.7          |                 |                |                |
| 263             | 112.2          | 123.8          | 319             | 127.1          | 137.8          | 375             | 140.2          | 149.9          |                 |                |                |
| 264             | 112.5          | 124.0          | 320             | 127.3          | 138.0          | 376             | 140.5          | 150.1          |                 |                |                |
| 265             | 112.7          | 124.3          | 321             | 127.6          | 138.2          | 377             | 140.7          | 150.3          |                 |                |                |
| 266             | 113.0          | 124.6          | 322             | 127.8          | 138.4          | 378             | 140.9          | 150.5          |                 |                |                |
| 267             | 113.3          | 124.8          | 323             | 128.0          | 138.7          | 379             | 141.1          | 150.7          |                 |                |                |
| 268             | 113.6          | 125.1          | 324             | 128.3          | 138.9          | 380             | 141.4          | 150.9          |                 |                |                |
| 269             | 113.9          | 125.4          | 325             | 128.5          | 139.1          | 381             | 141.6          | 151.2          |                 |                |                |
| 270             | 114.1          | 125.6          | 326             | 128.8          | 139.4          | 382             | 141.8          | 151.4          |                 |                |                |
| 271             | 114.4          | 125.9          | 327             | 129.0          | 139.6          | 383             | 142.0          | 151.6          |                 |                |                |
| 272             | 114.7          | 126.2          | 328             | 129.3          | 139.8          | 384             | 142.2          | 151.8          |                 |                |                |
| 273             | 115.0          | 126.4          | 329             | 129.5          | 140.0          | 385             | 142.5          | 152.0          |                 |                |                |
| 274             | 115.3          | 126.7          | 330             | 129.8          | 140.3          | 386             | 142.7          | 152.2          |                 |                |                |
| 275             | 115.5          | 126.9          | 331             | 130.0          | 140.5          | 387             | 142.9          | 152.4          |                 |                |                |
| 276             | 115.8          | 127.2          | 332             | 130.2          | 140.7          | 388             | 143.1          | 152.5          |                 |                |                |
| 277             | 116.1          | 127.5          | 333             | 130.5          | 140.9          | 389             | 143.3          | 152.7          |                 |                |                |

# Opteon™ XL20 (R-454C) Temperature-Pressure Data (Eng)

| Temp (°F) | Sat Liq P (psig) | Sat Vap P (psig) | Temp (°F) | Sat Liq P (psig) | Sat Vap P (psig) | Temp (°F) | Sat Liq P (psig) | Sat Vap P (psig) | Temp (°F) | Sat Liq P (psig) | Sat Vap P (psig) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| -50       | 0.0              | -4.7             | 8         | 39.8             | 26.3             | 66        | 132.1            | 104.3            | 124       | 306.9            | 263.9            |
| -49       | 0.4              | -4.4             | 9         | 40.8             | 27.1             | 67        | 134.3            | 106.2            | 125       | 310.8            | 267.7            |
| -48       | 0.8              | -4.1             | 10        | 41.9             | 28.0             | 68        | 136.6            | 108.2            | 126       | 314.8            | 271.5            |
| -47       | 1.2              | -3.8             | 11        | 43.0             | 28.9             | 69        | 138.9            | 110.2            | 127       | 318.8            | 275.3            |
| -46       | 1.6              | -3.5             | 12        | 44.1             | 29.8             | 70        | 141.2            | 112.2            | 128       | 322.8            | 279.1            |
| -45       | 2.0              | -3.2             | 13        | 45.2             | 30.7             | 71        | 143.5            | 114.2            | 129       | 326.9            | 283.0            |
| -44       | 2.5              | -2.8             | 14        | 46.4             | 31.7             | 72        | 145.8            | 116.3            | 130       | 331.0            | 287.0            |
| -43       | 2.9              | -2.5             | 15        | 47.6             | 32.6             | 73        | 148.2            | 118.4            | 131       | 335.1            | 291.0            |
| -42       | 3.4              | -2.2             | 16        | 48.7             | 33.6             | 74        | 150.6            | 120.5            | 132       | 339.3            | 295.0            |
| -41       | 3.8              | -1.8             | 17        | 49.9             | 34.5             | 75        | 153.0            | 122.6            | 133       | 343.5            | 299.1            |
| -40       | 4.3              | -1.5             | 18        | 51.1             | 35.5             | 76        | 155.5            | 124.8            | 134       | 347.7            | 303.2            |
| -39       | 4.8              | -1.1             | 19        | 52.4             | 36.5             | 77        | 158.0            | 127.0            | 135       | 352.0            | 307.4            |
| -38       | 5.2              | -0.8             | 20        | 53.6             | 37.6             | 78        | 160.5            | 129.2            | 136       | 356.3            | 311.6            |
| -37       | 5.7              | -0.4             | 21        | 54.9             | 38.6             | 79        | 163.0            | 131.5            | 137       | 360.7            | 315.8            |
| -36       | 6.2              | 0.0              | 22        | 56.2             | 39.7             | 80        | 165.6            | 133.7            | 138       | 365.1            | 320.1            |
| -35       | 6.8              | 0.4              | 23        | 57.5             | 40.7             | 81        | 168.2            | 136.0            | 139       | 369.5            | 324.4            |
| -34       | 7.3              | 0.8              | 24        | 58.8             | 41.8             | 82        | 170.8            | 138.4            | 140       | 373.9            | 328.8            |
| -33       | 7.8              | 1.2              | 25        | 60.1             | 42.9             | 83        | 173.4            | 140.7            | 141       | 378.4            | 333.3            |
| -32       | 8.4              | 1.6              | 26        | 61.5             | 44.0             | 84        | 176.1            | 143.1            | 142       | 383.0            | 337.7            |
| -31       | 8.9              | 2.0              | 27        | 62.8             | 45.2             | 85        | 178.8            | 145.5            | 143       | 387.5            | 342.3            |
| -30       | 9.5              | 2.4              | 28        | 64.2             | 46.3             | 86        | 181.5            | 147.9            | 144       | 392.1            | 346.8            |
| -29       | 10.0             | 2.9              | 29        | 65.6             | 47.5             | 87        | 184.2            | 150.4            | 145       | 396.8            | 351.5            |
| -28       | 10.6             | 3.3              | 30        | 67.1             | 48.7             | 88        | 187.0            | 152.9            | 146       | 401.5            | 356.1            |
| -27       | 11.2             | 3.8              | 31        | 68.5             | 49.9             | 89        | 189.8            | 155.4            | 147       | 406.2            | 360.9            |
| -26       | 11.8             | 4.2              | 32        | 70.0             | 51.1             | 90        | 192.6            | 158.0            | 148       | 410.9            | 365.6            |
| -25       | 12.4             | 4.7              | 33        | 71.5             | 52.3             | 91        | 195.5            | 160.6            | 149       | 415.7            | 370.5            |
| -24       | 13.1             | 5.2              | 34        | 73.0             | 53.6             | 92        | 198.4            | 163.2            | 150       | 420.6            | 375.3            |
| -23       | 13.7             | 5.7              | 35        | 74.5             | 54.9             | 93        | 201.3            | 165.8            | 151       | 425.4            | 380.3            |
| -22       | 14.4             | 6.2              | 36        | 76.0             | 56.2             | 94        | 204.3            | 168.5            | 152       | 430.3            | 385.3            |
| -21       | 15.0             | 6.7              | 37        | 77.6             | 57.5             | 95        | 207.2            | 171.2            | 153       | 435.3            | 390.3            |
| -20       | 15.7             | 7.2              | 38        | 79.2             | 58.8             | 96        | 210.2            | 173.9            | 154       | 440.3            | 395.4            |
| -19       | 16.4             | 7.7              | 39        | 80.8             | 60.2             | 97        | 213.3            | 176.7            | 155       | 445.3            | 400.6            |
| -18       | 17.1             | 8.3              | 40        | 82.4             | 61.5             | 98        | 216.3            | 179.5            | 156       | 450.3            | 405.8            |
| -17       | 17.8             | 8.8              | 41        | 84.0             | 62.9             | 99        | 219.4            | 182.3            | 157       | 455.4            | 411.1            |
| -16       | 18.5             | 9.4              | 42        | 85.7             | 64.3             | 100       | 222.5            | 185.2            | 158       | 460.6            | 416.4            |
| -15       | 19.2             | 10.0             | 43        | 87.4             | 65.7             | 101       | 225.7            | 188.0            | 159       | 465.7            | 421.8            |
| -14       | 20.0             | 10.5             | 44        | 89.1             | 67.2             | 102       | 228.9            | 191.0            | 160       | 470.9            | 427.2            |
| -13       | 20.7             | 11.1             | 45        | 90.8             | 68.6             | 103       | 232.1            | 193.9            | 161       | 476.2            | 432.8            |
| -12       | 21.5             | 11.7             | 46        | 92.5             | 70.1             | 104       | 235.3            | 196.9            | 162       | 481.5            | 438.3            |
| -11       | 22.3             | 12.4             | 47        | 94.3             | 71.6             | 105       | 238.6            | 199.9            | 163       | 486.8            | 444.0            |
| -10       | 23.1             | 13.0             | 48        | 96.1             | 73.2             | 106       | 241.9            | 203.0            | 164       | 492.2            | 449.7            |
| -9        | 23.9             | 13.6             | 49        | 97.9             | 74.7             | 107       | 245.3            | 206.1            | 165       | 497.5            | 455.5            |
| -8        | 24.7             | 14.3             | 50        | 99.7             | 76.3             | 108       | 248.6            | 209.2            | 166       | 503.0            | 461.4            |
| -7        | 25.5             | 14.9             | 51        | 101.6            | 77.8             | 109       | 252.0            | 212.3            | 167       | 508.4            | 467.3            |
| -6        | 26.4             | 15.6             | 52        | 103.5            | 79.5             | 110       | 255.5            | 215.5            | 168       | 514.0            | 473.3            |
| -5        | 27.3             | 16.3             | 53        | 105.4            | 81.1             | 111       | 258.9            | 218.7            | 169       | 519.5            | 479.4            |
| -4        | 28.1             | 17.0             | 54        | 107.3            | 82.7             | 112       | 262.4            | 222.0            | 170       | 525.1            | 485.6            |
| -3        | 29.0             | 17.7             | 55        | 109.2            | 84.4             | 113       | 265.9            | 225.3            | 171       | 530.7            | 491.9            |
| -2        | 29.9             | 18.4             | 56        | 111.2            | 86.1             | 114       | 269.5            | 228.6            | 172       | 536.3            | 498.2            |
| -1        | 30.8             | 19.1             | 57        | 113.2            | 87.8             | 115       | 273.1            | 232.0            | 173       | 541.9            | 504.7            |
| 0         | 31.8             | 19.9             | 58        | 115.2            | 89.5             | 116       | 276.7            | 235.4            | 174       | 547.6            | 511.2            |
| 1         | 32.7             | 20.6             | 59        | 117.2            | 91.3             | 117       | 280.4            | 238.8            | 175       | 553.3            | 517.9            |
| 2         | 33.7             | 21.4             | 60        | 119.3            | 93.1             | 118       | 284.1            | 242.3            | 176       | 559.1            | 524.7            |
| 3         | 34.7             | 22.2             | 61        | 121.4            | 94.9             | 119       | 287.8            | 245.8            | 177       | 564.8            | 531.6            |
| 4         | 35.6             | 23.0             | 62        | 123.5            | 96.7             | 120       | 291.6            | 249.3            | 178       | 570.6            | 538.6            |
| 5         | 36.7             | 23.8             | 63        | 125.6            | 98.6             | 121       | 295.3            | 252.9            | 179       | 576.3            | 545.8            |
| 6         | 37.7             | 24.6             | 64        | 127.7            | 100.4            | 122       | 299.2            | 256.6            | 180       | 582.0            | 553.1            |
| 7         | 38.7             | 25.4             | 65        | 129.9            | 102.3            | 123       | 303.0            | 260.2            |           |                  |                  |

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