



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 32020
 [TESTLAB] DATA CENTER
 [ISSUEDATE] 2017-2-16
 [MANUFAC] LAMAR LIGHTING CO., INC.
 [LUMCAT] LHBL48HWCB-40
 [LUMINAIRE] 4' SUSPENDED MOUNT LOUVERED LED
 [MORE]POST PAINTED WHITE STRAIGHT BLADE BAFFLE
 {LAMP} 4000K 56 CHIP LED BOARDS (4)

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 8204 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 75.62 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.14 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.34 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.90 ft |
| Luminous Width (90-270) | 0.83 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7772 | 9830 | 11486 |
| 55 | 6393 | 8832 | 11101 |
| 65 | 4091 | 7418 | 5729 |
| 75 | 3186 | 4914 | 3172 |
| 85 | 2381 | 4920 | 4336 |

CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|----|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3231.495 | 3231.322 | 3231.092 | 3230.816 | 3230.494 | 3230.126 | 3229.724 | 3229.287 | 3228.815 | 3228.320 |
| 2 | 3234.450 | 3234.439 | 3234.554 | 3234.761 | 3235.083 | 3235.485 | 3235.968 | 3236.509 | 3237.119 | 3235.807 |
| 3 | 3237.717 | 3237.050 | 3235.934 | 3234.427 | 3232.553 | 3230.333 | 3227.826 | 3226.503 | 3228.861 | 3231.587 |
| 4 | 3266.055 | 3265.411 | 3264.168 | 3262.294 | 3259.775 | 3256.601 | 3252.139 | 3244.468 | 3235.842 | 3230.161 |
| 5 | 3274.772 | 3273.841 | 3272.461 | 3270.724 | 3268.654 | 3266.319 | 3264.870 | 3263.559 | 3259.016 | 3251.932 |
| 6 | 3305.859 | 3304.168 | 3300.787 | 3295.727 | 3288.987 | 3281.443 | 3274.669 | 3268.366 | 3264.813 | 3262.202 |
| 7 | 3323.076 | 3322.593 | 3321.845 | 3320.775 | 3319.315 | 3312.863 | 3302.259 | 3289.079 | 3275.600 | 3264.939 |
| 8 | 3289.447 | 3290.137 | 3292.932 | 3297.912 | 3305.111 | 3313.415 | 3320.085 | 3316.175 | 3301.029 | 3281.903 |
| 9 | 3234.450 | 3236.245 | 3242.466 | 3253.151 | 3267.354 | 3280.799 | 3293.403 | 3305.744 | 3314.507 | 3305.974 |
| 10 | 3148.125 | 3151.403 | 3161.673 | 3178.810 | 3201.386 | 3226.848 | 3251.115 | 3273.105 | 3290.459 | 3306.261 |
| 11 | 3095.463 | 3095.900 | 3099.730 | 3107.045 | 3123.353 | 3147.895 | 3184.502 | 3221.167 | 3253.795 | 3277.509 |
| 12 | 3069.805 | 3070.150 | 3072.933 | 3078.155 | 3084.215 | 3091.978 | 3111.507 | 3148.194 | 3195.578 | 3241.178 |
| 13 | 3053.807 | 3053.520 | 3054.175 | 3055.141 | 3059.834 | 3066.987 | 3074.877 | 3087.907 | 3125.607 | 3184.111 |
| 14 | 3054.060 | 3051.461 | 3048.183 | 3044.906 | 3046.309 | 3046.964 | 3049.598 | 3061.007 | 3075.429 | 3119.166 |
| 15 | 3097.798 | 3092.657 | 3081.076 | 3063.514 | 3047.355 | 3036.717 | 3037.235 | 3037.568 | 3050.748 | 3067.309 |
| 16 | 3127.711 | 3127.021 | 3124.503 | 3116.602 | 3090.679 | 3058.937 | 3032.669 | 3027.804 | 3026.504 | 3041.110 |
| 17 | 3107.137 | 3108.022 | 3112.392 | 3118.177 | 3122.111 | 3106.631 | 3067.827 | 3026.849 | 3017.108 | 3013.371 |
| 18 | 3007.091 | 3015.947 | 3040.558 | 3071.921 | 3097.453 | 3107.723 | 3108.471 | 3062.755 | 3008.966 | 3005.113 |
| 19 | 2904.239 | 2912.198 | 2933.808 | 2966.930 | 3012.278 | 3063.100 | 3095.049 | 3096.671 | 3038.500 | 2991.542 |
| 20 | 2863.262 | 2865.873 | 2874.061 | 2887.299 | 2913.670 | 2963.526 | 3037.810 | 3081.375 | 3072.462 | 3000.731 |
| 21 | 2794.913 | 2798.800 | 2815.166 | 2836.937 | 2857.661 | 2882.100 | 2939.731 | 3032.266 | 3074.348 | 3035.165 |
| 22 | 2745.459 | 2748.093 | 2758.823 | 2772.337 | 2792.636 | 2833.406 | 2866.390 | 2940.800 | 3035.280 | 3055.544 |
| 23 | 2760.065 | 2753.464 | 2742.009 | 2734.971 | 2741.377 | 2765.218 | 2816.120 | 2864.884 | 2960.800 | 3038.017 |
| 24 | 2828.679 | 2818.800 | 2793.820 | 2760.974 | 2728.346 | 2721.630 | 2749.611 | 2815.269 | 2877.420 | 2984.227 |
| 25 | 2860.962 | 2857.351 | 2849.013 | 2827.978 | 2785.643 | 2722.159 | 2706.575 | 2747.748 | 2813.579 | 2904.665 |
| 26 | 2782.089 | 2796.017 | 2826.885 | 2842.952 | 2835.177 | 2784.022 | 2703.217 | 2701.768 | 2752.958 | 2831.186 |
| 27 | 2658.743 | 2673.924 | 2706.828 | 2754.603 | 2811.175 | 2821.169 | 2755.741 | 2679.433 | 2696.949 | 2775.626 |
| 28 | 2551.291 | 2568.301 | 2602.711 | 2642.090 | 2702.170 | 2787.196 | 2800.617 | 2715.925 | 2659.514 | 2708.312 |
| 29 | 2457.790 | 2466.300 | 2488.670 | 2531.418 | 2601.239 | 2684.321 | 2776.868 | 2765.689 | 2661.607 | 2658.421 |
| 30 | 2408.854 | 2411.028 | 2423.656 | 2439.964 | 2484.414 | 2589.624 | 2687.231 | 2763.884 | 2711.854 | 2626.725 |
| 31 | 2421.286 | 2414.064 | 2398.791 | 2392.063 | 2412.477 | 2474.190 | 2586.277 | 2697.455 | 2738.835 | 2624.862 |
| 32 | 2455.306 | 2449.889 | 2437.571 | 2410.407 | 2376.445 | 2397.526 | 2477.261 | 2604.644 | 2716.155 | 2662.539 |
| 33 | 2416.744 | 2425.047 | 2435.720 | 2437.399 | 2404.771 | 2359.987 | 2388.728 | 2505.495 | 2644.977 | 2687.104 |
| 34 | 2332.903 | 2347.049 | 2368.739 | 2398.423 | 2420.274 | 2382.954 | 2342.690 | 2398.561 | 2559.825 | 2670.865 |
| 35 | 2232.409 | 2256.100 | 2286.554 | 2322.195 | 2375.019 | 2399.101 | 2356.330 | 2335.536 | 2460.504 | 2613.166 |
| 36 | 2152.800 | 2163.289 | 2180.609 | 2228.222 | 2299.746 | 2356.387 | 2379.320 | 2314.720 | 2362.586 | 2531.418 |
| 37 | 2110.983 | 2110.167 | 2115.354 | 2140.115 | 2200.655 | 2281.678 | 2349.475 | 2334.455 | 2299.113 | 2438.354 |
| 38 | 2120.621 | 2117.596 | 2108.396 | 2090.282 | 2120.138 | 2188.832 | 2282.805 | 2337.308 | 2277.848 | 2342.690 |
| 39 | 2048.764 | 2068.833 | 2087.786 | 2101.012 | 2078.965 | 2102.772 | 2196.250 | 2294.732 | 2287.245 | 2263.035 |
| 40 | 1952.985 | 1969.868 | 1994.089 | 2045.003 | 2077.297 | 2062.519 | 2108.453 | 2226.578 | 2290.108 | 2230.730 |
| 41 | 1889.880 | 1906.430 | 1920.944 | 1954.227 | 2023.083 | 2060.886 | 2050.006 | 2136.262 | 2251.247 | 2231.604 |
| 42 | 1847.155 | 1854.607 | 1862.244 | 1892.905 | 1935.930 | 2006.970 | 2034.158 | 2059.839 | 2183.082 | 2236.653 |
| 43 | 1851.479 | 1843.532 | 1833.124 | 1837.897 | 1872.537 | 1928.730 | 2001.082 | 2013.330 | 2096.711 | 2218.884 |
| 44 | 1806.971 | 1823.049 | 1834.654 | 1821.773 | 1820.887 | 1863.716 | 1940.300 | 1985.947 | 2025.774 | 2171.454 |
| 45 | 1654.137 | 1690.376 | 1732.779 | 1803.889 | 1804.372 | 1809.547 | 1869.812 | 1945.671 | 1977.919 | 2092.237 |
| 46 | 1579.301 | 1593.919 | 1612.159 | 1686.638 | 1772.998 | 1783.095 | 1810.456 | 1890.260 | 1947.902 | 2016.228 |
| 47 | 1580.348 | 1576.426 | 1572.240 | 1592.343 | 1656.955 | 1748.122 | 1768.857 | 1824.901 | 1906.568 | 1947.373 |
| 48 | 1619.773 | 1603.119 | 1584.661 | 1566.029 | 1579.750 | 1673.067 | 1728.156 | 1773.630 | 1858.380 | 1899.760 |
| 49 | 1497.324 | 1535.932 | 1577.783 | 1567.893 | 1555.023 | 1584.040 | 1674.528 | 1730.272 | 1801.531 | 1855.344 |
| 50 | 1357.865 | 1388.687 | 1428.215 | 1517.496 | 1547.582 | 1547.674 | 1600.635 | 1680.347 | 1743.648 | 1810.709 |
| 51 | 1299.050 | 1310.378 | 1327.388 | 1395.047 | 1487.295 | 1519.647 | 1546.881 | 1627.306 | 1681.934 | 1760.531 |
| 52 | 1369.147 | 1340.096 | 1315.185 | 1318.325 | 1381.568 | 1468.158 | 1514.494 | 1574.229 | 1618.738 | 1705.557 |
| 53 | 1240.430 | 1273.944 | 1315.611 | 1306.652 | 1314.610 | 1380.004 | 1467.767 | 1519.566 | 1565.765 | 1648.674 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 54 | 1142.857 | 1161.569 | 1199.602 | 1263.719 | 1292.023 | 1313.518 | 1409.124 | 1457.887 | 1524.086 | 1590.676 |
| 55 | 1103.766 | 1102.501 | 1123.709 | 1160.477 | 1240.557 | 1276.968 | 1339.797 | 1400.234 | 1478.796 | 1524.903 |
| 56 | 1056.061 | 1077.303 | 1088.068 | 1106.423 | 1164.260 | 1226.940 | 1273.645 | 1343.857 | 1422.936 | 1468.411 |
| 57 | 997.384 | 1004.158 | 1032.507 | 1061.432 | 1094.393 | 1160.891 | 1231.437 | 1285.594 | 1356.025 | 1425.754 |
| 58 | 955.751 | 951.737 | 975.578 | 1008.747 | 1051.196 | 1111.414 | 1160.454 | 1222.662 | 1292.000 | 1375.542 |
| 59 | 844.573 | 868.437 | 913.762 | 948.367 | 995.475 | 1044.549 | 1099.936 | 1176.497 | 1242.466 | 1316.980 |
| 60 | 835.039 | 842.526 | 850.691 | 891.139 | 937.522 | 998.890 | 1049.379 | 1113.749 | 1181.949 | 1263.788 |
| 61 | 740.640 | 776.637 | 805.930 | 837.971 | 880.030 | 939.684 | 989.655 | 1053.968 | 1126.894 | 1221.580 |
| 62 | 689.944 | 693.004 | 727.748 | 776.476 | 828.242 | 882.042 | 942.238 | 1000.857 | 1075.095 | 1185.019 |
| 63 | 647.541 | 668.150 | 683.274 | 719.467 | 771.221 | 817.891 | 886.562 | 940.731 | 1032.691 | 1143.398 |
| 64 | 565.161 | 587.783 | 622.975 | 662.435 | 710.301 | 762.192 | 833.233 | 890.495 | 998.568 | 1058.074 |
| 65 | 520.400 | 552.855 | 576.961 | 612.199 | 658.444 | 711.807 | 771.290 | 857.201 | 966.585 | 943.618 |
| 66 | 471.303 | 491.038 | 517.559 | 556.627 | 604.505 | 658.869 | 713.360 | 819.305 | 891.933 | 810.404 |
| 67 | 432.016 | 441.286 | 466.668 | 500.963 | 543.953 | 600.077 | 667.460 | 786.747 | 796.235 | 678.754 |
| 68 | 400.584 | 404.713 | 420.009 | 451.786 | 488.266 | 557.156 | 636.707 | 732.152 | 685.919 | 566.541 |
| 69 | 370.326 | 374.213 | 389.785 | 409.313 | 446.887 | 506.495 | 601.998 | 666.011 | 579.859 | 532.740 |
| 70 | 349.831 | 354.236 | 358.813 | 373.327 | 402.275 | 451.912 | 577.444 | 580.330 | 497.973 | 494.178 |
| 71 | 330.360 | 331.304 | 339.987 | 345.358 | 367.278 | 419.354 | 523.654 | 495.696 | 458.307 | 451.556 |
| 72 | 309.130 | 310.993 | 316.560 | 320.826 | 337.238 | 397.456 | 468.577 | 421.964 | 418.733 | 423.712 |
| 73 | 288.360 | 291.545 | 294.984 | 300.826 | 312.523 | 379.158 | 408.750 | 381.010 | 385.346 | 404.656 |
| 74 | 268.958 | 271.258 | 275.398 | 282.724 | 292.005 | 354.466 | 352.361 | 340.562 | 360.631 | 394.178 |
| 75 | 248.199 | 251.189 | 255.352 | 263.955 | 273.478 | 325.956 | 316.893 | 310.453 | 345.783 | 382.839 |
| 76 | 228.291 | 231.132 | 236.111 | 244.829 | 254.662 | 304.656 | 281.620 | 290.533 | 331.166 | 357.341 |
| 77 | 208.648 | 211.845 | 217.354 | 225.979 | 242.506 | 272.155 | 253.869 | 280.930 | 314.489 | 315.789 |
| 78 | 188.326 | 192.615 | 197.802 | 207.359 | 238.331 | 237.031 | 235.571 | 270.326 | 279.469 | 275.421 |
| 79 | 169.384 | 173.271 | 178.757 | 188.878 | 228.670 | 208.256 | 221.275 | 242.851 | 245.324 | 240.378 |
| 80 | 150.166 | 154.191 | 160.448 | 174.881 | 194.525 | 188.579 | 203.714 | 212.972 | 214.731 | 211.718 |
| 81 | 131.742 | 134.651 | 142.506 | 167.716 | 164.392 | 171.557 | 181.241 | 186.071 | 189.625 | 194.847 |
| 82 | 114.168 | 116.112 | 124.358 | 149.119 | 143.990 | 152.903 | 159.850 | 164.381 | 172.408 | 178.055 |
| 83 | 96.538 | 98.631 | 108.522 | 119.735 | 127.498 | 134.157 | 140.850 | 147.693 | 155.387 | 161.391 |
| 84 | 79.586 | 81.081 | 103.381 | 99.861 | 109.936 | 116.538 | 123.818 | 131.121 | 138.987 | 145.244 |
| 85 | 62.472 | 65.014 | 80.816 | 83.829 | 92.765 | 100.022 | 106.980 | 115.307 | 123.128 | 129.062 |
| 86 | 45.555 | 49.430 | 60.080 | 68.740 | 76.561 | 83.967 | 91.512 | 99.815 | 107.256 | 113.214 |
| 87 | 28.763 | 35.399 | 45.819 | 53.674 | 61.460 | 68.821 | 76.124 | 84.968 | 92.351 | 98.401 |
| 88 | 13.536 | 23.807 | 32.593 | 40.103 | 47.590 | 54.721 | 62.334 | 71.247 | 78.320 | 84.749 |
| 89 | 4.232 | 14.974 | 21.829 | 28.522 | 35.917 | 42.668 | 50.166 | 58.447 | 64.842 | 71.362 |
| 90 | 3.025 | 9.822 | 14.261 | 19.344 | 25.359 | 31.225 | 38.056 | 45.693 | 51.432 | 57.999 |
| 91 | 3.611 | 8.384 | 11.305 | 15.055 | 20.172 | 25.635 | 31.972 | 39.034 | 44.474 | 50.880 |
| 92 | 4.393 | 8.373 | 10.489 | 12.996 | 16.239 | 20.701 | 25.923 | 32.398 | 37.539 | 43.784 |
| 93 | 5.785 | 9.408 | 10.535 | 12.283 | 14.859 | 18.148 | 22.082 | 27.395 | 31.673 | 37.125 |
| 94 | 7.959 | 11.443 | 11.133 | 12.271 | 14.180 | 16.722 | 20.425 | 24.359 | 27.590 | 32.490 |
| 95 | 10.799 | 13.329 | 12.490 | 12.570 | 14.031 | 16.147 | 18.792 | 22.392 | 25.658 | 29.672 |
| 96 | 13.709 | 15.584 | 14.629 | 13.421 | 14.192 | 15.883 | 18.355 | 20.747 | 23.738 | 27.452 |
| 97 | 16.320 | 18.229 | 17.194 | 14.836 | 14.514 | 15.883 | 17.964 | 20.172 | 22.507 | 25.221 |
| 98 | 19.356 | 21.150 | 19.758 | 17.021 | 15.722 | 16.113 | 17.769 | 19.609 | 21.875 | 24.198 |
| 99 | 22.082 | 23.600 | 22.105 | 19.413 | 17.171 | 16.619 | 17.792 | 19.333 | 21.219 | 23.312 |
| 100 | 24.543 | 25.451 | 24.301 | 21.806 | 19.183 | 17.964 | 17.872 | 19.333 | 20.908 | 22.427 |
| 101 | 27.429 | 28.257 | 26.958 | 24.382 | 21.472 | 19.517 | 18.919 | 19.459 | 20.839 | 22.070 |
| 102 | 30.581 | 31.374 | 29.753 | 27.188 | 24.083 | 21.622 | 20.391 | 19.873 | 20.954 | 22.013 |
| 103 | 33.732 | 34.790 | 32.409 | 30.155 | 26.797 | 24.048 | 22.070 | 21.380 | 21.069 | 22.208 |
| 104 | 36.515 | 37.573 | 34.905 | 33.088 | 29.465 | 26.463 | 24.094 | 22.887 | 22.358 | 22.415 |
| 105 | 38.884 | 39.632 | 37.125 | 35.733 | 32.041 | 28.879 | 26.440 | 24.692 | 23.853 | 23.266 |
| 106 | 41.265 | 41.529 | 39.229 | 38.217 | 34.571 | 31.328 | 28.810 | 26.774 | 25.348 | 24.600 |
| 107 | 43.772 | 43.772 | 41.449 | 40.747 | 37.309 | 33.893 | 31.282 | 29.086 | 27.107 | 25.923 |
| 108 | 46.371 | 46.072 | 43.979 | 42.978 | 40.126 | 36.527 | 33.766 | 31.386 | 29.040 | 27.383 |
| 109 | 48.821 | 48.326 | 46.406 | 45.118 | 42.875 | 39.137 | 36.239 | 33.559 | 31.064 | 28.982 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 110 | 51.328 | 50.696 | 48.706 | 47.234 | 45.497 | 41.771 | 38.585 | 35.595 | 33.053 | 30.880 |
| 111 | 53.766 | 53.030 | 51.041 | 49.246 | 47.970 | 44.347 | 40.713 | 37.550 | 34.916 | 32.766 |
| 112 | 56.078 | 55.261 | 53.306 | 51.202 | 50.362 | 46.728 | 42.737 | 39.402 | 36.711 | 34.640 |
| 113 | 58.148 | 57.297 | 55.261 | 52.938 | 51.880 | 48.752 | 44.635 | 41.196 | 38.470 | 36.216 |
| 114 | 59.666 | 58.815 | 56.802 | 54.387 | 53.134 | 50.546 | 46.486 | 42.978 | 40.138 | 37.654 |
| 115 | 60.839 | 60.000 | 58.045 | 55.514 | 54.238 | 52.168 | 48.338 | 44.704 | 41.713 | 39.068 |
| 116 | 61.909 | 61.207 | 59.137 | 56.687 | 55.307 | 53.720 | 50.097 | 46.302 | 43.128 | 40.437 |
| 117 | 62.875 | 62.104 | 60.069 | 57.838 | 56.354 | 55.123 | 51.616 | 47.820 | 44.531 | 41.782 |
| 118 | 63.530 | 62.748 | 60.736 | 58.700 | 57.366 | 55.928 | 52.950 | 49.315 | 45.865 | 43.093 |
| 119 | 64.128 | 63.266 | 61.426 | 59.505 | 58.309 | 56.687 | 54.192 | 50.753 | 47.280 | 44.370 |
| 120 | 64.669 | 63.795 | 61.886 | 60.034 | 59.103 | 57.469 | 55.399 | 52.145 | 48.740 | 45.601 |
| 121 | 64.911 | 64.025 | 62.265 | 60.437 | 59.747 | 58.332 | 56.503 | 53.479 | 50.120 | 46.774 |
| 122 | 65.072 | 64.128 | 62.495 | 60.851 | 60.299 | 59.149 | 57.297 | 54.652 | 51.409 | 47.958 |
| 123 | 65.302 | 64.358 | 62.840 | 61.242 | 60.782 | 60.000 | 58.114 | 55.756 | 52.513 | 49.131 |
| 124 | 65.762 | 64.796 | 63.312 | 61.736 | 61.219 | 60.724 | 58.873 | 56.779 | 53.536 | 50.316 |
| 125 | 66.302 | 65.302 | 63.783 | 62.162 | 61.621 | 61.426 | 59.517 | 57.515 | 54.525 | 51.535 |
| 126 | 66.613 | 65.589 | 64.071 | 62.300 | 61.932 | 62.196 | 60.126 | 58.114 | 55.560 | 52.766 |
| 127 | 66.647 | 65.635 | 64.255 | 62.449 | 62.001 | 62.392 | 60.759 | 58.827 | 56.630 | 54.008 |
| 128 | 66.624 | 65.658 | 64.358 | 62.610 | 62.035 | 62.392 | 61.426 | 59.586 | 57.654 | 55.261 |
| 129 | 66.544 | 65.635 | 64.370 | 62.725 | 62.047 | 62.426 | 62.127 | 60.425 | 58.597 | 56.549 |
| 130 | 66.475 | 65.566 | 64.462 | 62.783 | 62.001 | 62.507 | 62.909 | 61.288 | 59.586 | 57.838 |
| 131 | 66.406 | 65.543 | 64.450 | 62.898 | 61.978 | 62.599 | 63.703 | 62.208 | 60.609 | 58.850 |
| 132 | 66.314 | 65.474 | 64.519 | 63.082 | 62.047 | 62.702 | 63.910 | 63.208 | 61.621 | 59.804 |
| 133 | 66.337 | 65.509 | 64.715 | 63.323 | 62.150 | 62.829 | 64.140 | 64.266 | 62.610 | 60.759 |
| 134 | 66.406 | 65.670 | 64.980 | 63.645 | 62.380 | 63.013 | 64.335 | 65.336 | 63.588 | 61.644 |
| 135 | 66.624 | 65.888 | 65.256 | 63.956 | 62.737 | 63.220 | 64.565 | 66.222 | 64.508 | 62.484 |
| 136 | 66.854 | 66.130 | 65.486 | 64.312 | 63.185 | 63.438 | 64.750 | 66.245 | 65.394 | 63.312 |
| 137 | 67.119 | 66.406 | 65.808 | 64.715 | 63.668 | 63.622 | 64.830 | 66.176 | 66.245 | 64.117 |
| 138 | 67.452 | 66.739 | 66.176 | 65.141 | 64.163 | 63.806 | 64.819 | 66.003 | 67.073 | 64.888 |
| 139 | 67.774 | 67.084 | 66.498 | 65.612 | 64.565 | 63.795 | 64.703 | 65.750 | 66.785 | 65.624 |
| 140 | 68.073 | 67.395 | 66.854 | 65.957 | 64.899 | 63.898 | 64.496 | 65.417 | 66.383 | 66.371 |
| 141 | 68.292 | 67.636 | 67.038 | 66.164 | 65.083 | 64.025 | 64.232 | 65.014 | 65.934 | 66.854 |
| 142 | 68.280 | 67.682 | 67.073 | 66.291 | 65.198 | 64.105 | 63.852 | 64.565 | 65.440 | 66.394 |
| 143 | 68.246 | 67.659 | 67.084 | 66.348 | 65.233 | 64.117 | 63.369 | 64.071 | 64.934 | 65.980 |
| 144 | 68.131 | 67.590 | 67.027 | 66.337 | 65.175 | 64.048 | 62.852 | 63.576 | 64.485 | 65.589 |
| 145 | 67.958 | 67.452 | 66.877 | 66.187 | 65.026 | 63.910 | 62.760 | 63.070 | 64.048 | 65.164 |
| 146 | 67.694 | 67.188 | 66.601 | 65.900 | 64.853 | 63.783 | 62.702 | 62.587 | 63.599 | 64.703 |
| 147 | 67.291 | 66.820 | 66.256 | 65.624 | 64.692 | 63.668 | 62.691 | 62.173 | 63.174 | 64.232 |
| 148 | 66.946 | 66.498 | 65.969 | 65.405 | 64.554 | 63.622 | 62.725 | 61.955 | 62.748 | 63.772 |
| 149 | 66.647 | 66.222 | 65.739 | 65.210 | 64.473 | 63.611 | 62.817 | 62.047 | 62.300 | 63.266 |
| 150 | 66.394 | 65.992 | 65.543 | 65.072 | 64.450 | 63.645 | 62.898 | 62.173 | 61.817 | 62.748 |
| 151 | 66.199 | 65.808 | 65.394 | 64.957 | 64.439 | 63.691 | 62.967 | 62.288 | 61.610 | 62.208 |
| 152 | 65.980 | 65.635 | 65.256 | 64.876 | 64.462 | 63.749 | 63.047 | 62.369 | 61.702 | 61.633 |
| 153 | 65.808 | 65.497 | 65.152 | 64.807 | 64.473 | 63.795 | 63.093 | 62.426 | 61.805 | 61.184 |
| 154 | 65.658 | 65.371 | 65.072 | 64.750 | 64.416 | 63.795 | 63.139 | 62.484 | 61.874 | 61.242 |
| 155 | 65.543 | 65.267 | 64.980 | 64.657 | 64.301 | 63.795 | 63.151 | 62.530 | 61.909 | 61.276 |
| 156 | 65.394 | 65.129 | 64.842 | 64.531 | 64.209 | 63.783 | 63.174 | 62.553 | 61.920 | 61.276 |
| 157 | 65.221 | 64.980 | 64.703 | 64.416 | 64.117 | 63.760 | 63.151 | 62.530 | 61.909 | 61.253 |
| 158 | 65.060 | 64.830 | 64.577 | 64.301 | 63.979 | 63.645 | 63.093 | 62.495 | 61.863 | 61.173 |
| 159 | 64.853 | 64.634 | 64.393 | 64.117 | 63.818 | 63.496 | 63.024 | 62.403 | 61.771 | 61.069 |
| 160 | 64.588 | 64.404 | 64.186 | 63.933 | 63.645 | 63.323 | 62.886 | 62.288 | 61.621 | 60.966 |
| 161 | 64.381 | 64.197 | 63.979 | 63.726 | 63.438 | 63.082 | 62.702 | 62.104 | 61.472 | 60.839 |
| 162 | 64.105 | 63.933 | 63.714 | 63.461 | 63.162 | 62.829 | 62.415 | 61.897 | 61.311 | 60.678 |
| 163 | 63.772 | 63.611 | 63.404 | 63.162 | 62.863 | 62.507 | 62.104 | 61.702 | 61.115 | 60.471 |
| 164 | 63.404 | 63.254 | 63.059 | 62.806 | 62.507 | 62.162 | 61.805 | 61.391 | 60.862 | 60.241 |
| 165 | 62.978 | 62.829 | 62.633 | 62.392 | 62.116 | 61.805 | 61.449 | 61.023 | 60.563 | 59.965 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 166 | 62.449 | 62.334 | 62.162 | 61.955 | 61.702 | 61.403 | 61.035 | 60.632 | 60.184 | 59.712 |
| 167 | 61.920 | 61.828 | 61.679 | 61.483 | 61.242 | 60.943 | 60.609 | 60.218 | 59.816 | 59.344 |
| 168 | 61.368 | 61.288 | 61.150 | 60.977 | 60.747 | 60.471 | 60.149 | 59.804 | 59.402 | 58.930 |
| 169 | 60.782 | 60.713 | 60.598 | 60.437 | 60.230 | 59.988 | 59.701 | 59.344 | 58.942 | 58.505 |
| 170 | 60.195 | 60.138 | 60.034 | 59.896 | 59.701 | 59.459 | 59.172 | 58.838 | 58.482 | 58.102 |
| 171 | 59.563 | 59.517 | 59.425 | 59.287 | 59.114 | 58.896 | 58.643 | 58.355 | 58.033 | 57.677 |
| 172 | 58.919 | 58.884 | 58.804 | 58.689 | 58.528 | 58.344 | 58.125 | 57.861 | 57.562 | 57.228 |
| 173 | 58.298 | 58.263 | 58.194 | 58.091 | 57.953 | 57.780 | 57.573 | 57.331 | 57.078 | 56.802 |
| 174 | 57.642 | 57.619 | 57.550 | 57.458 | 57.331 | 57.182 | 57.009 | 56.837 | 56.641 | 56.446 |
| 175 | 56.975 | 56.952 | 56.906 | 56.848 | 56.756 | 56.653 | 56.538 | 56.411 | 56.262 | 56.101 |
| 176 | 56.446 | 56.423 | 56.388 | 56.342 | 56.285 | 56.204 | 56.112 | 56.009 | 55.894 | 55.779 |
| 177 | 55.951 | 55.940 | 55.917 | 55.882 | 55.836 | 55.779 | 55.710 | 55.641 | 55.572 | 55.503 |
| 178 | 55.514 | 55.503 | 55.491 | 55.468 | 55.445 | 55.411 | 55.376 | 55.342 | 55.296 | 55.250 |
| 179 | 55.135 | 55.135 | 55.123 | 55.112 | 55.112 | 55.089 | 55.077 | 55.066 | 55.043 | 55.020 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles **Horizontal Angles**

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3227.803 | 3227.274 | 3226.722 | 3226.906 | 3227.101 | 3227.308 | 3227.527 | 3227.768 | 3228.010 | 3227.734 |
| 2 | 3233.576 | 3231.173 | 3228.608 | 3227.584 | 3226.561 | 3225.549 | 3225.767 | 3226.135 | 3226.538 | 3226.078 |
| 3 | 3233.852 | 3234.887 | 3235.899 | 3231.679 | 3227.262 | 3225.606 | 3224.330 | 3224.617 | 3225.054 | 3224.502 |
| 4 | 3225.710 | 3227.964 | 3232.955 | 3234.071 | 3232.150 | 3225.721 | 3223.789 | 3223.191 | 3223.582 | 3223.030 |
| 5 | 3239.522 | 3228.780 | 3222.766 | 3229.091 | 3231.575 | 3227.883 | 3221.385 | 3219.798 | 3220.143 | 3219.775 |
| 6 | 3257.084 | 3245.560 | 3227.619 | 3219.867 | 3226.802 | 3228.815 | 3219.603 | 3216.521 | 3216.705 | 3216.774 |
| 7 | 3259.603 | 3257.567 | 3244.617 | 3223.295 | 3216.613 | 3223.145 | 3218.464 | 3211.690 | 3211.299 | 3212.472 |
| 8 | 3265.227 | 3255.692 | 3252.714 | 3235.278 | 3214.278 | 3215.670 | 3216.992 | 3207.090 | 3205.894 | 3208.137 |
| 9 | 3282.995 | 3260.626 | 3248.769 | 3243.226 | 3218.476 | 3206.492 | 3213.841 | 3202.754 | 3200.489 | 3203.789 |
| 10 | 3303.363 | 3276.693 | 3250.563 | 3243.329 | 3228.366 | 3200.788 | 3207.228 | 3198.694 | 3195.083 | 3199.465 |
| 11 | 3298.636 | 3294.554 | 3262.742 | 3239.764 | 3231.863 | 3199.844 | 3197.245 | 3190.448 | 3186.412 | 3192.702 |
| 12 | 3270.850 | 3294.048 | 3277.659 | 3238.384 | 3229.057 | 3198.637 | 3186.791 | 3182.156 | 3177.751 | 3186.101 |
| 13 | 3237.763 | 3269.746 | 3284.720 | 3244.836 | 3219.476 | 3200.581 | 3176.095 | 3174.244 | 3169.080 | 3179.580 |
| 14 | 3187.539 | 3241.730 | 3273.404 | 3253.760 | 3213.657 | 3201.167 | 3165.538 | 3166.331 | 3160.408 | 3172.852 |
| 15 | 3128.919 | 3204.146 | 3249.068 | 3258.683 | 3210.609 | 3198.372 | 3156.417 | 3156.970 | 3149.218 | 3164.031 |
| 16 | 3072.795 | 3154.359 | 3222.869 | 3253.553 | 3214.128 | 3191.920 | 3150.115 | 3147.516 | 3138.016 | 3154.888 |
| 17 | 3037.649 | 3100.892 | 3186.849 | 3236.831 | 3218.326 | 3179.235 | 3143.318 | 3136.602 | 3124.296 | 3143.617 |
| 18 | 3012.358 | 3047.723 | 3141.110 | 3209.597 | 3219.545 | 3167.125 | 3138.580 | 3124.618 | 3110.564 | 3132.921 |
| 19 | 2987.678 | 3012.404 | 3089.046 | 3179.373 | 3214.002 | 3159.695 | 3136.199 | 3111.691 | 3096.843 | 3122.743 |
| 20 | 2980.869 | 2984.055 | 3035.084 | 3140.949 | 3199.430 | 3155.773 | 3134.106 | 3098.706 | 3083.123 | 3112.220 |
| 21 | 2968.069 | 2961.467 | 2991.519 | 3096.222 | 3178.614 | 3155.578 | 3124.882 | 3081.662 | 3064.733 | 3097.579 |
| 22 | 2982.387 | 2952.934 | 2960.858 | 3048.712 | 3148.183 | 3150.426 | 3109.920 | 3064.791 | 3046.355 | 3082.996 |
| 23 | 3011.323 | 2934.659 | 2933.037 | 3000.513 | 3116.142 | 3141.351 | 3094.704 | 3048.390 | 3027.965 | 3068.770 |
| 24 | 3024.400 | 2939.489 | 2915.119 | 2954.452 | 3083.192 | 3130.805 | 3078.063 | 3032.289 | 3009.575 | 3054.842 |
| 25 | 3006.194 | 2962.479 | 2904.320 | 2917.017 | 3042.100 | 3114.428 | 3058.063 | 3015.015 | 2990.357 | 3039.063 |
| 26 | 2955.809 | 2976.073 | 2886.459 | 2885.654 | 2998.995 | 3095.130 | 3038.350 | 2997.856 | 2971.140 | 3023.192 |
| 27 | 2883.618 | 2971.519 | 2877.684 | 2859.973 | 2954.394 | 3067.286 | 3020.087 | 2980.030 | 2951.082 | 3005.538 |
| 28 | 2809.657 | 2941.261 | 2891.727 | 2844.010 | 2909.403 | 3036.729 | 3008.023 | 2962.537 | 2931.036 | 2987.816 |
| 29 | 2752.728 | 2886.068 | 2904.929 | 2830.726 | 2863.676 | 3002.928 | 2996.671 | 2945.424 | 2910.979 | 2970.208 |
| 30 | 2692.855 | 2821.008 | 2903.664 | 2813.475 | 2821.537 | 2968.460 | 2986.022 | 2928.713 | 2890.922 | 2952.704 |
| 31 | 2633.729 | 2755.511 | 2881.065 | 2802.630 | 2786.402 | 2932.175 | 2971.255 | 2911.876 | 2869.841 | 2932.934 |
| 32 | 2596.685 | 2691.302 | 2836.316 | 2807.081 | 2760.180 | 2894.797 | 2954.003 | 2894.556 | 2848.748 | 2912.923 |
| 33 | 2576.892 | 2629.152 | 2780.353 | 2810.876 | 2745.091 | 2856.523 | 2936.442 | 2876.937 | 2827.667 | 2892.842 |
| 34 | 2590.797 | 2575.190 | 2721.515 | 2804.861 | 2730.347 | 2816.856 | 2917.120 | 2859.018 | 2806.575 | 2872.681 |
| 35 | 2617.294 | 2534.949 | 2662.987 | 2790.991 | 2710.232 | 2776.259 | 2892.877 | 2836.626 | 2780.134 | 2848.001 |
| 36 | 2621.538 | 2516.432 | 2603.241 | 2761.043 | 2688.599 | 2727.369 | 2865.712 | 2813.280 | 2753.694 | 2822.768 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 37 | 2589.543 | 2523.402 | 2542.769 | 2715.856 | 2670.244 | 2678.962 | 2834.384 | 2784.965 | 2721.883 | 2793.015 |
| 38 | 2528.255 | 2540.492 | 2492.522 | 2660.687 | 2658.088 | 2632.982 | 2794.694 | 2754.292 | 2690.083 | 2761.641 |
| 39 | 2454.961 | 2545.288 | 2456.927 | 2602.619 | 2646.645 | 2593.890 | 2753.395 | 2723.240 | 2658.283 | 2729.680 |
| 40 | 2367.267 | 2520.147 | 2434.512 | 2537.295 | 2630.727 | 2562.597 | 2710.577 | 2691.820 | 2626.484 | 2697.133 |
| 41 | 2280.459 | 2468.865 | 2426.749 | 2469.716 | 2609.221 | 2539.676 | 2664.620 | 2656.121 | 2590.912 | 2658.766 |
| 42 | 2213.984 | 2403.219 | 2425.404 | 2402.897 | 2571.579 | 2512.683 | 2617.168 | 2620.181 | 2555.328 | 2619.549 |
| 43 | 2177.366 | 2320.873 | 2419.734 | 2349.935 | 2521.895 | 2477.962 | 2570.141 | 2584.494 | 2519.756 | 2580.147 |
| 44 | 2162.288 | 2225.888 | 2390.234 | 2315.928 | 2466.542 | 2443.287 | 2523.528 | 2549.049 | 2484.184 | 2540.561 |
| 45 | 2150.535 | 2149.660 | 2333.524 | 2290.568 | 2411.315 | 2410.384 | 2474.857 | 2510.613 | 2444.725 | 2498.020 |
| 46 | 2124.796 | 2096.814 | 2271.672 | 2272.547 | 2351.154 | 2378.204 | 2424.426 | 2471.844 | 2405.254 | 2455.536 |
| 47 | 2073.226 | 2071.202 | 2205.290 | 2257.802 | 2287.774 | 2346.681 | 2371.499 | 2429.785 | 2361.908 | 2410.418 |
| 48 | 2005.659 | 2050.282 | 2125.739 | 2230.810 | 2229.419 | 2312.431 | 2316.905 | 2387.313 | 2318.550 | 2365.358 |
| 49 | 1926.326 | 2023.336 | 2050.018 | 2192.800 | 2174.985 | 2276.652 | 2263.024 | 2344.852 | 2275.192 | 2320.700 |
| 50 | 1860.243 | 1985.314 | 1983.761 | 2135.917 | 2127.395 | 2238.964 | 2212.397 | 2302.380 | 2231.845 | 2276.434 |
| 51 | 1808.834 | 1925.015 | 1947.856 | 2073.571 | 2087.648 | 2194.675 | 2168.165 | 2254.318 | 2186.107 | 2229.200 |
| 52 | 1763.694 | 1860.657 | 1913.354 | 2009.776 | 2053.019 | 2136.055 | 2127.774 | 2205.738 | 2140.368 | 2181.920 |
| 53 | 1716.828 | 1793.435 | 1876.988 | 1945.636 | 2017.482 | 2077.723 | 2088.108 | 2157.355 | 2094.641 | 2134.997 |
| 54 | 1665.465 | 1729.686 | 1832.100 | 1894.170 | 1980.645 | 2021.220 | 2048.488 | 2108.269 | 2048.902 | 2086.832 |
| 55 | 1609.640 | 1670.629 | 1782.451 | 1844.383 | 1939.495 | 1962.956 | 1956.229 | 1981.047 | 1916.666 | 1960.311 |
| 56 | 1551.872 | 1621.130 | 1733.389 | 1803.946 | 1867.557 | 1833.193 | 1827.063 | 1844.487 | 1784.418 | 1824.337 |
| 57 | 1490.538 | 1583.120 | 1684.384 | 1738.576 | 1738.840 | 1698.059 | 1646.201 | 1629.928 | 1565.673 | 1610.549 |
| 58 | 1440.820 | 1546.018 | 1624.085 | 1623.441 | 1580.739 | 1491.585 | 1430.952 | 1406.421 | 1346.916 | 1387.859 |
| 59 | 1398.969 | 1510.538 | 1509.296 | 1471.573 | 1375.024 | 1284.122 | 1216.865 | 1182.731 | 1128.171 | 1165.008 |
| 60 | 1368.158 | 1422.971 | 1375.266 | 1275.117 | 1172.092 | 1075.716 | 1003.606 | 958.868 | 909.426 | 941.984 |
| 61 | 1331.689 | 1316.520 | 1194.496 | 1082.812 | 971.496 | 892.186 | 897.867 | 900.421 | 874.003 | 882.801 |
| 62 | 1234.818 | 1149.597 | 1015.992 | 894.337 | 847.356 | 850.737 | 857.189 | 859.535 | 838.581 | 841.134 |
| 63 | 1118.384 | 983.077 | 838.891 | 796.856 | 803.986 | 808.966 | 816.384 | 818.949 | 803.158 | 799.892 |
| 64 | 960.593 | 818.845 | 739.317 | 753.739 | 760.916 | 766.873 | 775.464 | 778.627 | 767.736 | 759.053 |
| 65 | 809.392 | 692.268 | 697.949 | 711.152 | 717.788 | 725.723 | 735.488 | 737.500 | 728.817 | 718.213 |
| 66 | 665.321 | 650.060 | 657.742 | 667.380 | 677.823 | 688.357 | 696.017 | 696.362 | 689.887 | 677.696 |
| 67 | 609.669 | 609.899 | 617.639 | 628.967 | 640.307 | 652.222 | 657.777 | 654.568 | 647.449 | 636.949 |
| 68 | 568.496 | 570.187 | 584.344 | 591.923 | 607.863 | 619.249 | 620.100 | 612.866 | 605.011 | 596.339 |
| 69 | 528.358 | 538.766 | 552.188 | 563.183 | 576.984 | 586.069 | 582.366 | 571.291 | 562.573 | 555.880 |
| 70 | 494.960 | 508.600 | 528.036 | 536.179 | 546.403 | 552.441 | 544.563 | 529.853 | 520.135 | 515.569 |
| 71 | 467.358 | 487.116 | 503.355 | 510.877 | 516.190 | 508.784 | 489.923 | 470.578 | 460.343 | 458.859 |
| 72 | 449.969 | 466.139 | 479.284 | 479.468 | 462.102 | 448.669 | 428.681 | 409.958 | 400.550 | 400.872 |
| 73 | 434.316 | 446.208 | 442.861 | 427.140 | 406.197 | 388.842 | 367.301 | 349.314 | 340.757 | 342.862 |
| 74 | 417.330 | 411.142 | 393.822 | 374.455 | 350.533 | 329.279 | 306.025 | 288.682 | 280.953 | 284.829 |
| 75 | 383.632 | 367.370 | 345.162 | 321.424 | 296.813 | 282.230 | 265.427 | 252.995 | 247.129 | 250.280 |
| 76 | 340.470 | 323.057 | 296.836 | 280.769 | 264.737 | 248.463 | 231.051 | 218.826 | 213.294 | 217.158 |
| 77 | 298.710 | 281.344 | 266.313 | 249.556 | 237.008 | 228.509 | 217.963 | 209.786 | 205.439 | 207.704 |
| 78 | 262.287 | 251.580 | 240.344 | 234.490 | 228.325 | 220.194 | 210.327 | 202.104 | 197.572 | 199.516 |
| 79 | 233.719 | 230.637 | 229.383 | 225.243 | 219.573 | 211.868 | 202.690 | 194.421 | 189.706 | 191.339 |
| 80 | 215.318 | 217.055 | 218.320 | 215.985 | 210.775 | 203.518 | 195.042 | 186.727 | 181.839 | 183.139 |
| 81 | 199.194 | 203.392 | 207.164 | 206.347 | 200.735 | 193.236 | 183.955 | 174.249 | 168.475 | 169.901 |
| 82 | 182.978 | 189.303 | 193.616 | 193.006 | 188.935 | 181.989 | 172.259 | 161.575 | 155.123 | 156.468 |
| 83 | 167.061 | 173.996 | 179.021 | 179.642 | 177.112 | 170.741 | 160.574 | 148.901 | 141.759 | 143.024 |
| 84 | 151.351 | 158.700 | 164.461 | 166.244 | 165.255 | 159.482 | 148.878 | 136.238 | 128.395 | 129.591 |
| 85 | 135.686 | 143.403 | 149.959 | 152.777 | 152.926 | 147.601 | 136.560 | 122.633 | 113.754 | 115.261 |
| 86 | 120.643 | 128.682 | 135.560 | 139.206 | 140.321 | 135.548 | 124.174 | 109.016 | 99.114 | 100.908 |
| 87 | 106.095 | 114.191 | 121.207 | 125.531 | 127.187 | 122.829 | 111.121 | 94.445 | 83.208 | 85.669 |
| 88 | 92.501 | 100.160 | 106.923 | 111.811 | 113.869 | 109.994 | 98.033 | 79.873 | 67.303 | 70.408 |
| 89 | 78.941 | 86.152 | 92.650 | 98.090 | 100.551 | 97.147 | 84.933 | 65.290 | 51.386 | 55.146 |
| 90 | 65.417 | 72.156 | 78.389 | 84.381 | 87.245 | 84.289 | 71.811 | 50.707 | 35.480 | 39.885 |
| 91 | 57.746 | 64.059 | 70.051 | 75.733 | 78.481 | 75.698 | 63.864 | 44.566 | 31.397 | 35.986 |
| 92 | 50.097 | 55.974 | 61.713 | 67.073 | 69.729 | 67.107 | 55.905 | 38.436 | 27.314 | 32.087 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 93 | 42.438 | 47.901 | 53.398 | 58.436 | 60.977 | 58.505 | 47.935 | 32.294 | 23.220 | 28.188 |
| 94 | 37.205 | 41.771 | 46.463 | 50.719 | 52.766 | 50.201 | 40.126 | 26.199 | 19.137 | 24.313 |
| 95 | 33.157 | 36.596 | 40.759 | 44.566 | 46.302 | 43.876 | 34.882 | 22.933 | 17.332 | 22.162 |
| 96 | 30.673 | 33.881 | 37.113 | 39.804 | 40.655 | 38.022 | 29.902 | 19.724 | 15.526 | 20.046 |
| 97 | 28.188 | 31.156 | 33.985 | 36.136 | 36.481 | 33.973 | 27.418 | 19.321 | 15.998 | 19.643 |
| 98 | 26.153 | 28.441 | 30.857 | 32.455 | 32.294 | 29.948 | 24.945 | 18.919 | 16.469 | 19.241 |
| 99 | 25.118 | 26.889 | 28.280 | 28.752 | 28.096 | 25.923 | 22.507 | 18.528 | 16.929 | 18.850 |
| 100 | 24.083 | 25.658 | 26.946 | 27.326 | 25.911 | 23.197 | 20.494 | 18.183 | 17.401 | 18.516 |
| 101 | 23.163 | 24.428 | 25.612 | 26.095 | 25.129 | 23.048 | 20.862 | 18.965 | 18.321 | 19.241 |
| 102 | 22.795 | 23.565 | 24.278 | 24.865 | 24.370 | 22.898 | 21.230 | 19.747 | 19.252 | 19.977 |
| 103 | 22.829 | 23.163 | 23.715 | 23.910 | 23.623 | 22.760 | 21.610 | 20.540 | 20.172 | 20.701 |
| 104 | 23.151 | 23.427 | 23.393 | 23.646 | 23.496 | 22.864 | 22.059 | 21.334 | 21.104 | 21.449 |
| 105 | 23.473 | 23.876 | 23.956 | 23.784 | 23.531 | 23.255 | 22.737 | 22.243 | 22.082 | 22.323 |
| 106 | 24.175 | 24.336 | 24.520 | 24.474 | 24.232 | 23.887 | 23.473 | 23.163 | 23.071 | 23.220 |
| 107 | 25.371 | 25.026 | 25.106 | 25.164 | 25.003 | 24.773 | 24.439 | 24.198 | 24.117 | 24.232 |
| 108 | 26.555 | 26.038 | 25.842 | 25.854 | 25.785 | 25.658 | 25.394 | 25.244 | 25.152 | 25.256 |
| 109 | 27.774 | 27.027 | 26.716 | 26.567 | 26.544 | 26.544 | 26.360 | 26.279 | 26.199 | 26.279 |
| 110 | 29.201 | 28.016 | 27.579 | 27.268 | 27.142 | 27.165 | 27.165 | 27.268 | 27.245 | 27.234 |
| 111 | 30.753 | 29.293 | 28.430 | 27.970 | 27.728 | 27.636 | 27.533 | 27.521 | 27.418 | 27.372 |
| 112 | 32.409 | 30.627 | 29.523 | 28.660 | 28.315 | 28.096 | 27.889 | 27.786 | 27.590 | 27.510 |
| 113 | 34.054 | 32.179 | 30.650 | 29.661 | 28.994 | 28.545 | 28.257 | 28.039 | 27.751 | 27.648 |
| 114 | 35.641 | 33.709 | 32.018 | 30.707 | 29.914 | 29.235 | 28.717 | 28.326 | 27.924 | 27.820 |
| 115 | 36.975 | 35.227 | 33.375 | 32.030 | 30.949 | 30.017 | 29.431 | 28.948 | 28.464 | 28.326 |
| 116 | 38.275 | 36.458 | 34.721 | 33.341 | 32.202 | 31.052 | 30.247 | 29.592 | 29.005 | 28.867 |
| 117 | 39.551 | 37.550 | 35.940 | 34.652 | 33.444 | 32.156 | 31.294 | 30.558 | 29.914 | 29.764 |
| 118 | 40.759 | 38.620 | 37.021 | 35.848 | 34.663 | 33.260 | 32.340 | 31.524 | 30.811 | 30.650 |
| 119 | 41.897 | 39.689 | 38.091 | 36.860 | 35.664 | 34.364 | 33.387 | 32.478 | 31.719 | 31.535 |
| 120 | 42.944 | 40.782 | 39.160 | 37.849 | 36.469 | 35.227 | 34.307 | 33.421 | 32.628 | 32.398 |
| 121 | 43.979 | 41.874 | 40.253 | 38.827 | 37.274 | 36.044 | 35.031 | 34.077 | 33.260 | 33.019 |
| 122 | 45.026 | 43.001 | 41.334 | 39.770 | 38.079 | 36.860 | 35.767 | 34.744 | 33.881 | 33.651 |
| 123 | 46.176 | 44.129 | 42.415 | 40.701 | 38.930 | 37.665 | 36.504 | 35.399 | 34.514 | 34.272 |
| 124 | 47.510 | 45.256 | 43.485 | 41.598 | 39.804 | 38.516 | 37.263 | 36.067 | 35.146 | 34.916 |
| 125 | 48.844 | 46.498 | 44.531 | 42.472 | 40.724 | 39.379 | 38.079 | 36.814 | 35.859 | 35.629 |
| 126 | 50.178 | 47.820 | 45.543 | 43.347 | 41.656 | 40.287 | 38.919 | 37.562 | 36.584 | 36.354 |
| 127 | 51.512 | 49.120 | 46.705 | 44.209 | 42.587 | 41.184 | 39.804 | 38.401 | 37.401 | 37.159 |
| 128 | 52.835 | 50.397 | 47.843 | 45.348 | 43.519 | 42.081 | 40.690 | 39.229 | 38.217 | 37.953 |
| 129 | 54.111 | 51.627 | 48.959 | 46.590 | 44.727 | 42.967 | 41.552 | 40.057 | 39.022 | 38.758 |
| 130 | 55.376 | 52.812 | 50.074 | 47.843 | 46.003 | 44.209 | 42.599 | 40.931 | 39.839 | 39.609 |
| 131 | 56.584 | 53.962 | 51.213 | 49.120 | 47.280 | 45.463 | 43.864 | 42.208 | 41.150 | 40.920 |
| 132 | 57.780 | 55.077 | 52.375 | 50.397 | 48.556 | 46.728 | 45.141 | 43.473 | 42.461 | 42.219 |
| 133 | 58.723 | 56.170 | 53.582 | 51.685 | 49.844 | 47.993 | 46.406 | 44.738 | 43.772 | 43.519 |
| 134 | 59.563 | 57.251 | 54.824 | 52.973 | 51.133 | 49.292 | 47.682 | 46.015 | 45.083 | 44.830 |
| 135 | 60.379 | 58.183 | 56.078 | 54.238 | 52.432 | 50.604 | 48.993 | 47.337 | 46.429 | 46.153 |
| 136 | 61.184 | 59.057 | 57.320 | 55.503 | 53.720 | 51.949 | 50.316 | 48.660 | 47.786 | 47.498 |
| 137 | 61.978 | 59.942 | 58.332 | 56.779 | 55.020 | 53.295 | 51.673 | 50.028 | 49.166 | 48.855 |
| 138 | 62.771 | 60.862 | 59.356 | 57.872 | 56.308 | 54.640 | 53.019 | 51.409 | 50.558 | 50.224 |
| 139 | 63.634 | 61.840 | 60.379 | 58.907 | 57.400 | 55.963 | 54.376 | 52.777 | 51.938 | 51.593 |
| 140 | 64.508 | 62.829 | 61.403 | 59.942 | 58.436 | 57.032 | 55.583 | 54.123 | 53.329 | 52.938 |
| 141 | 65.394 | 63.829 | 62.415 | 60.989 | 59.471 | 58.091 | 56.607 | 55.146 | 54.387 | 54.008 |
| 142 | 66.291 | 64.830 | 63.415 | 62.035 | 60.517 | 59.137 | 57.631 | 56.158 | 55.445 | 55.066 |
| 143 | 67.211 | 65.831 | 64.416 | 63.059 | 61.564 | 60.172 | 58.643 | 57.182 | 56.503 | 56.135 |
| 144 | 68.174 | 66.831 | 65.440 | 64.071 | 62.633 | 61.196 | 59.655 | 58.206 | 57.562 | 57.193 |
| 145 | 69.177 | 67.831 | 66.463 | 65.060 | 63.680 | 62.219 | 60.655 | 59.241 | 58.620 | 58.263 |
| 146 | 70.219 | 68.831 | 67.487 | 66.084 | 64.727 | 63.231 | 61.656 | 60.264 | 59.678 | 59.333 |
| 147 | 71.300 | 69.831 | 68.510 | 67.096 | 65.773 | 64.232 | 62.645 | 61.288 | 60.736 | 60.391 |
| 148 | 72.421 | 70.831 | 69.533 | 68.088 | 66.820 | 65.221 | 63.645 | 62.323 | 61.782 | 61.460 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 149 | 64.266 | 65.152 | 65.923 | 66.440 | 66.739 | 66.210 | 64.634 | 63.346 | 62.840 | 62.518 |
| 150 | 63.668 | 64.485 | 65.141 | 65.612 | 65.808 | 65.474 | 64.853 | 64.186 | 63.898 | 63.381 |
| 151 | 63.047 | 63.806 | 64.324 | 64.761 | 64.853 | 64.462 | 63.829 | 63.185 | 62.875 | 62.369 |
| 152 | 62.415 | 63.082 | 63.530 | 63.898 | 63.875 | 63.438 | 62.794 | 62.173 | 61.851 | 61.345 |
| 153 | 61.736 | 62.323 | 62.714 | 63.001 | 62.886 | 62.415 | 61.771 | 61.173 | 60.828 | 60.322 |
| 154 | 61.035 | 61.506 | 61.886 | 62.093 | 61.897 | 61.391 | 60.736 | 60.161 | 59.804 | 59.310 |
| 155 | 60.598 | 60.678 | 61.023 | 61.138 | 60.885 | 60.356 | 59.712 | 59.149 | 58.781 | 58.286 |
| 156 | 60.563 | 59.850 | 60.138 | 60.161 | 59.862 | 59.321 | 58.677 | 58.125 | 57.757 | 57.262 |
| 157 | 60.506 | 59.793 | 59.218 | 59.160 | 58.804 | 58.263 | 57.631 | 57.113 | 56.733 | 56.239 |
| 158 | 60.448 | 59.735 | 58.965 | 58.125 | 57.723 | 57.193 | 56.595 | 56.089 | 55.710 | 55.227 |
| 159 | 60.379 | 59.666 | 58.861 | 57.907 | 56.814 | 56.124 | 55.549 | 55.077 | 54.686 | 54.203 |
| 160 | 60.287 | 59.551 | 58.735 | 57.792 | 56.733 | 55.733 | 54.801 | 54.123 | 53.663 | 53.272 |
| 161 | 60.149 | 59.413 | 58.597 | 57.665 | 56.664 | 55.710 | 54.824 | 54.203 | 53.755 | 53.375 |
| 162 | 59.988 | 59.252 | 58.447 | 57.515 | 56.584 | 55.675 | 54.847 | 54.284 | 53.847 | 53.479 |
| 163 | 59.793 | 59.080 | 58.263 | 57.377 | 56.480 | 55.652 | 54.870 | 54.364 | 53.939 | 53.594 |
| 164 | 59.586 | 58.884 | 58.068 | 57.239 | 56.388 | 55.618 | 54.905 | 54.433 | 54.031 | 53.697 |
| 165 | 59.356 | 58.643 | 57.872 | 57.090 | 56.296 | 55.583 | 54.939 | 54.514 | 54.123 | 53.812 |
| 166 | 59.091 | 58.390 | 57.677 | 56.929 | 56.216 | 55.549 | 54.974 | 54.583 | 54.226 | 53.927 |
| 167 | 58.781 | 58.137 | 57.481 | 56.779 | 56.135 | 55.514 | 55.020 | 54.663 | 54.318 | 54.031 |
| 168 | 58.413 | 57.884 | 57.251 | 56.630 | 56.055 | 55.480 | 55.066 | 54.732 | 54.410 | 54.146 |
| 169 | 58.056 | 57.539 | 56.998 | 56.492 | 55.974 | 55.468 | 55.112 | 54.801 | 54.502 | 54.261 |
| 170 | 57.677 | 57.193 | 56.722 | 56.285 | 55.848 | 55.445 | 55.146 | 54.870 | 54.594 | 54.364 |
| 171 | 57.274 | 56.860 | 56.469 | 56.089 | 55.687 | 55.376 | 55.123 | 54.859 | 54.617 | 54.410 |
| 172 | 56.883 | 56.561 | 56.239 | 55.894 | 55.572 | 55.319 | 55.089 | 54.859 | 54.640 | 54.445 |
| 173 | 56.549 | 56.273 | 55.997 | 55.710 | 55.468 | 55.261 | 55.054 | 54.847 | 54.652 | 54.479 |
| 174 | 56.227 | 56.009 | 55.767 | 55.560 | 55.376 | 55.192 | 55.020 | 54.847 | 54.675 | 54.514 |
| 175 | 55.928 | 55.756 | 55.583 | 55.422 | 55.273 | 55.123 | 54.985 | 54.836 | 54.698 | 54.560 |
| 176 | 55.652 | 55.537 | 55.411 | 55.296 | 55.181 | 55.054 | 54.951 | 54.836 | 54.709 | 54.606 |
| 177 | 55.422 | 55.342 | 55.250 | 55.169 | 55.077 | 54.997 | 54.916 | 54.824 | 54.732 | 54.652 |
| 178 | 55.204 | 55.146 | 55.100 | 55.043 | 54.985 | 54.928 | 54.870 | 54.813 | 54.755 | 54.698 |
| 179 | 54.997 | 54.974 | 54.951 | 54.928 | 54.893 | 54.859 | 54.836 | 54.801 | 54.778 | 54.744 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles **Horizontal Angles**

| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3227.469 | 3227.216 | 3226.986 | 3226.756 | 3226.561 | 3226.814 | 3227.044 | 3227.274 | 3227.481 | 3227.676 |
| 2 | 3225.629 | 3225.330 | 3226.032 | 3226.699 | 3227.343 | 3230.310 | 3233.116 | 3235.727 | 3238.706 | 3242.777 |
| 3 | 3224.123 | 3225.457 | 3227.136 | 3232.012 | 3236.716 | 3245.123 | 3253.047 | 3261.305 | 3269.459 | 3276.911 |
| 4 | 3224.019 | 3226.630 | 3233.369 | 3243.295 | 3255.129 | 3268.067 | 3279.304 | 3286.837 | 3293.737 | 3299.499 |
| 5 | 3222.352 | 3229.264 | 3241.569 | 3257.774 | 3274.887 | 3285.686 | 3295.738 | 3304.030 | 3305.709 | 3304.203 |
| 6 | 3221.224 | 3232.242 | 3251.357 | 3271.471 | 3284.559 | 3298.211 | 3302.903 | 3297.291 | 3285.985 | 3272.254 |
| 7 | 3219.603 | 3236.498 | 3260.074 | 3277.739 | 3295.301 | 3299.890 | 3286.020 | 3266.929 | 3246.687 | 3227.458 |
| 8 | 3217.406 | 3239.798 | 3264.088 | 3283.950 | 3294.772 | 3278.096 | 3253.829 | 3227.734 | 3202.018 | 3177.993 |
| 9 | 3215.773 | 3243.456 | 3266.825 | 3286.008 | 3277.118 | 3248.148 | 3216.590 | 3184.548 | 3154.543 | 3134.830 |
| 10 | 3215.566 | 3245.767 | 3270.896 | 3279.235 | 3251.311 | 3215.026 | 3176.590 | 3140.926 | 3122.801 | 3114.934 |
| 11 | 3213.312 | 3244.387 | 3271.678 | 3262.317 | 3223.801 | 3179.258 | 3136.326 | 3115.337 | 3105.308 | 3079.650 |
| 12 | 3211.000 | 3242.466 | 3265.445 | 3234.105 | 3189.885 | 3142.398 | 3111.081 | 3098.660 | 3063.226 | 3025.389 |
| 13 | 3208.597 | 3241.995 | 3246.526 | 3205.514 | 3152.450 | 3108.862 | 3095.475 | 3058.431 | 3012.128 | 2991.151 |
| 14 | 3205.629 | 3240.063 | 3223.720 | 3172.358 | 3114.532 | 3088.597 | 3059.995 | 3010.438 | 2984.665 | 3012.059 |
| 15 | 3199.718 | 3233.139 | 3200.063 | 3138.879 | 3087.263 | 3066.090 | 3010.173 | 2975.349 | 3002.088 | 3059.788 |
| 16 | 3192.277 | 3221.017 | 3175.198 | 3105.561 | 3068.022 | 3024.285 | 2971.082 | 2983.583 | 3047.919 | 3069.391 |
| 17 | 3182.984 | 3201.857 | 3146.389 | 3074.888 | 3045.550 | 2979.420 | 2958.443 | 3024.894 | 3056.855 | 3046.401 |
| 18 | 3173.956 | 3182.340 | 3115.716 | 3051.668 | 3009.299 | 2947.287 | 2983.963 | 3041.168 | 3033.750 | 3001.502 |
| 19 | 3165.607 | 3161.673 | 3085.389 | 3031.335 | 2966.884 | 2936.603 | 3014.716 | 3026.435 | 2994.164 | 2945.274 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 20 | 3156.797 | 3141.110 | 3055.854 | 3008.655 | 2932.485 | 2953.658 | 3017.281 | 2995.153 | 2940.904 | 2881.663 |
| 21 | 3144.721 | 3117.970 | 3027.988 | 2978.293 | 2908.702 | 2978.707 | 2997.051 | 2950.473 | 2882.595 | 2829.760 |
| 22 | 3129.724 | 3088.459 | 3001.088 | 2940.524 | 2902.020 | 2986.884 | 2966.413 | 2899.352 | 2824.803 | 2771.463 |
| 23 | 3113.565 | 3055.141 | 2974.130 | 2897.983 | 2914.464 | 2975.659 | 2925.573 | 2840.076 | 2774.717 | 2714.338 |
| 24 | 3094.969 | 3022.065 | 2946.252 | 2869.634 | 2932.094 | 2947.781 | 2876.189 | 2787.023 | 2715.960 | 2679.295 |
| 25 | 3072.473 | 2989.437 | 2910.829 | 2851.083 | 2935.591 | 2912.221 | 2824.803 | 2736.477 | 2673.913 | 2690.980 |
| 26 | 3049.702 | 2957.523 | 2871.520 | 2847.379 | 2919.685 | 2864.228 | 2765.413 | 2681.756 | 2659.100 | 2699.479 |
| 27 | 3026.424 | 2929.863 | 2831.129 | 2855.591 | 2890.519 | 2811.589 | 2711.003 | 2647.392 | 2670.762 | 2685.218 |
| 28 | 3001.824 | 2902.859 | 2801.986 | 2865.332 | 2857.581 | 2752.716 | 2654.074 | 2631.049 | 2669.669 | 2639.146 |
| 29 | 2977.465 | 2875.637 | 2778.892 | 2860.502 | 2817.776 | 2696.800 | 2612.487 | 2637.616 | 2650.336 | 2591.418 |
| 30 | 2953.325 | 2847.586 | 2760.111 | 2843.987 | 2772.866 | 2642.355 | 2589.900 | 2631.935 | 2599.376 | 2549.152 |
| 31 | 2926.217 | 2816.281 | 2746.437 | 2818.685 | 2723.194 | 2590.026 | 2589.463 | 2607.047 | 2552.522 | 2500.941 |
| 32 | 2896.649 | 2776.788 | 2739.099 | 2788.990 | 2667.633 | 2554.627 | 2589.497 | 2558.790 | 2505.806 | 2434.984 |
| 33 | 2866.137 | 2736.420 | 2739.387 | 2752.291 | 2615.408 | 2532.154 | 2578.307 | 2515.880 | 2444.759 | 2372.672 |
| 34 | 2833.901 | 2698.214 | 2737.696 | 2709.577 | 2561.435 | 2524.897 | 2542.827 | 2473.212 | 2381.344 | 2346.198 |
| 35 | 2799.364 | 2663.781 | 2727.288 | 2662.424 | 2512.350 | 2523.563 | 2492.465 | 2415.605 | 2327.210 | 2328.739 |
| 36 | 2764.378 | 2635.569 | 2708.519 | 2610.647 | 2477.813 | 2509.854 | 2455.881 | 2351.384 | 2307.670 | 2282.840 |
| 37 | 2728.622 | 2609.428 | 2679.019 | 2554.569 | 2455.605 | 2482.160 | 2419.021 | 2301.471 | 2282.000 | 2230.546 |
| 38 | 2692.763 | 2582.045 | 2643.792 | 2495.144 | 2444.115 | 2440.378 | 2352.397 | 2268.153 | 2241.885 | 2181.690 |
| 39 | 2656.064 | 2557.007 | 2601.734 | 2435.593 | 2431.396 | 2398.158 | 2288.498 | 2249.384 | 2193.053 | 2112.409 |
| 40 | 2618.548 | 2535.466 | 2556.087 | 2387.785 | 2413.926 | 2356.456 | 2240.137 | 2210.040 | 2152.685 | 2062.818 |
| 41 | 2573.338 | 2517.054 | 2509.451 | 2350.441 | 2382.034 | 2296.963 | 2207.567 | 2167.418 | 2084.635 | 2024.474 |
| 42 | 2521.412 | 2493.638 | 2458.227 | 2319.539 | 2338.653 | 2227.670 | 2172.007 | 2119.954 | 2027.994 | 1997.666 |
| 43 | 2468.946 | 2467.255 | 2395.766 | 2295.169 | 2288.682 | 2173.099 | 2135.434 | 2061.116 | 1991.202 | 1954.526 |
| 44 | 2415.961 | 2438.871 | 2329.740 | 2273.961 | 2252.179 | 2129.925 | 2093.399 | 2001.197 | 1954.641 | 1884.935 |
| 45 | 2363.989 | 2408.187 | 2262.989 | 2250.683 | 2194.859 | 2091.823 | 2047.050 | 1952.479 | 1907.132 | 1828.604 |
| 46 | 2315.421 | 2369.360 | 2206.198 | 2219.298 | 2128.476 | 2054.652 | 1989.063 | 1913.181 | 1848.374 | 1759.001 |
| 47 | 2268.993 | 2328.003 | 2157.527 | 2179.724 | 2063.876 | 2013.456 | 1923.497 | 1869.443 | 1790.790 | 1715.655 |
| 48 | 2224.979 | 2275.468 | 2118.367 | 2125.026 | 2011.237 | 1967.603 | 1869.673 | 1815.792 | 1727.225 | 1678.139 |
| 49 | 2184.255 | 2219.482 | 2083.381 | 2068.269 | 1964.785 | 1916.861 | 1825.004 | 1759.588 | 1674.654 | 1630.836 |
| 50 | 2147.763 | 2163.277 | 2051.007 | 2009.604 | 1919.725 | 1857.701 | 1777.046 | 1703.901 | 1631.239 | 1574.897 |
| 51 | 2112.156 | 2106.993 | 2020.783 | 1948.086 | 1877.805 | 1791.848 | 1720.198 | 1643.959 | 1583.580 | 1515.598 |
| 52 | 2076.101 | 2046.245 | 1991.271 | 1886.097 | 1833.055 | 1735.425 | 1668.364 | 1586.248 | 1533.172 | 1456.680 |
| 53 | 2039.437 | 1987.120 | 1954.066 | 1832.698 | 1784.223 | 1683.614 | 1612.481 | 1535.414 | 1473.103 | 1410.148 |
| 54 | 2002.519 | 1929.156 | 1909.121 | 1795.539 | 1730.675 | 1632.481 | 1559.405 | 1484.742 | 1419.751 | 1354.771 |
| 55 | 1915.631 | 1869.938 | 1856.425 | 1758.645 | 1681.739 | 1578.646 | 1499.624 | 1425.639 | 1361.476 | 1298.808 |
| 56 | 1792.837 | 1743.901 | 1775.206 | 1722.705 | 1631.549 | 1533.931 | 1438.739 | 1375.162 | 1304.754 | 1251.793 |
| 57 | 1618.738 | 1614.954 | 1642.073 | 1654.126 | 1584.028 | 1496.082 | 1380.786 | 1323.696 | 1246.641 | 1190.114 |
| 58 | 1409.365 | 1419.187 | 1483.649 | 1536.403 | 1526.904 | 1459.106 | 1342.316 | 1260.338 | 1195.117 | 1130.184 |
| 59 | 1198.245 | 1222.454 | 1283.409 | 1387.031 | 1413.322 | 1421.257 | 1311.229 | 1198.763 | 1143.847 | 1081.938 |
| 60 | 986.205 | 1024.790 | 1087.700 | 1195.083 | 1282.995 | 1327.123 | 1281.224 | 1161.029 | 1081.466 | 1017.016 |
| 61 | 879.271 | 851.186 | 894.360 | 1004.871 | 1108.010 | 1216.037 | 1237.302 | 1131.000 | 1028.517 | 952.772 |
| 62 | 836.062 | 815.913 | 779.651 | 816.729 | 935.567 | 1049.908 | 1134.128 | 1096.463 | 987.551 | 905.550 |
| 63 | 792.474 | 778.696 | 746.919 | 723.757 | 764.838 | 890.231 | 1019.051 | 1052.841 | 952.427 | 846.976 |
| 64 | 748.507 | 739.616 | 712.935 | 688.265 | 672.072 | 735.936 | 866.528 | 969.678 | 921.019 | 775.154 |
| 65 | 705.850 | 699.525 | 677.777 | 653.395 | 638.869 | 616.615 | 714.959 | 858.834 | 889.403 | 742.986 |
| 66 | 664.631 | 660.663 | 643.044 | 620.365 | 605.759 | 581.112 | 564.712 | 725.033 | 808.069 | 735.396 |
| 67 | 625.609 | 622.377 | 608.875 | 590.106 | 574.097 | 547.887 | 522.930 | 594.465 | 705.264 | 713.498 |
| 68 | 587.863 | 586.138 | 576.202 | 560.250 | 544.505 | 515.891 | 497.467 | 482.068 | 588.369 | 662.136 |
| 69 | 550.612 | 550.256 | 544.793 | 531.705 | 515.546 | 488.370 | 470.233 | 448.255 | 481.274 | 591.544 |
| 70 | 513.833 | 515.615 | 513.580 | 502.642 | 488.772 | 463.609 | 443.735 | 417.571 | 404.851 | 494.695 |
| 71 | 463.494 | 474.327 | 482.516 | 473.258 | 462.804 | 443.908 | 418.606 | 390.199 | 375.950 | 401.941 |
| 72 | 407.692 | 420.561 | 433.373 | 439.687 | 438.502 | 424.598 | 400.469 | 374.685 | 348.359 | 329.647 |
| 73 | 351.832 | 366.599 | 381.413 | 392.315 | 405.150 | 406.300 | 385.127 | 362.172 | 325.887 | 301.597 |
| 74 | 295.916 | 312.454 | 329.682 | 344.851 | 361.217 | 374.581 | 371.602 | 349.544 | 305.231 | 275.858 |
| 75 | 258.193 | 269.084 | 279.918 | 297.250 | 316.916 | 332.822 | 343.885 | 338.308 | 297.836 | 258.216 |

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| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 76 | 225.933 | 237.388 | 249.498 | 260.367 | 272.224 | 291.338 | 305.806 | 316.629 | 292.546 | 247.773 |
| 77 | 212.535 | 217.998 | 223.058 | 231.661 | 243.506 | 253.489 | 268.038 | 279.527 | 281.977 | 242.954 |
| 78 | 203.990 | 209.062 | 213.489 | 216.779 | 218.941 | 226.957 | 234.662 | 242.897 | 248.555 | 237.595 |
| 79 | 195.445 | 200.114 | 203.921 | 206.934 | 208.325 | 208.199 | 208.475 | 211.638 | 215.893 | 214.467 |
| 80 | 186.876 | 191.155 | 194.364 | 197.078 | 197.664 | 195.744 | 192.132 | 186.370 | 187.670 | 187.751 |
| 81 | 174.617 | 180.114 | 184.036 | 187.038 | 186.934 | 183.231 | 178.067 | 171.868 | 165.428 | 163.449 |
| 82 | 161.701 | 168.038 | 172.581 | 174.904 | 174.433 | 170.350 | 164.013 | 157.411 | 150.879 | 144.163 |
| 83 | 148.786 | 155.974 | 161.126 | 162.759 | 161.103 | 156.319 | 149.798 | 143.012 | 136.434 | 129.902 |
| 84 | 135.882 | 143.910 | 149.683 | 150.580 | 147.751 | 142.299 | 135.560 | 128.717 | 122.058 | 115.733 |
| 85 | 122.944 | 132.098 | 138.125 | 138.355 | 134.479 | 128.303 | 121.368 | 114.479 | 107.751 | 101.391 |
| 86 | 110.005 | 120.356 | 126.509 | 126.072 | 121.483 | 114.962 | 107.751 | 100.528 | 93.502 | 87.050 |
| 87 | 97.044 | 108.867 | 114.743 | 113.743 | 108.683 | 101.897 | 94.571 | 87.395 | 80.345 | 73.398 |
| 88 | 84.071 | 97.412 | 102.932 | 101.391 | 96.089 | 89.361 | 82.254 | 75.135 | 68.073 | 60.977 |
| 89 | 71.098 | 85.957 | 91.121 | 89.051 | 83.519 | 76.848 | 69.959 | 63.082 | 56.365 | 49.591 |
| 90 | 58.125 | 74.491 | 79.298 | 76.710 | 70.960 | 64.347 | 57.688 | 51.064 | 44.681 | 38.240 |
| 91 | 52.662 | 67.165 | 71.224 | 68.660 | 63.266 | 57.067 | 50.799 | 44.543 | 38.470 | 32.409 |
| 92 | 47.188 | 59.839 | 63.162 | 60.621 | 55.583 | 49.798 | 43.922 | 38.033 | 32.271 | 26.601 |
| 93 | 41.713 | 52.513 | 55.089 | 52.582 | 47.901 | 42.530 | 37.044 | 31.949 | 27.119 | 22.427 |
| 94 | 36.343 | 45.451 | 47.579 | 45.486 | 41.587 | 37.102 | 32.513 | 27.912 | 23.680 | 20.218 |
| 95 | 32.536 | 40.149 | 41.851 | 39.954 | 36.469 | 32.582 | 29.143 | 25.704 | 22.323 | 19.057 |
| 96 | 28.879 | 35.250 | 36.952 | 35.825 | 33.375 | 30.397 | 27.280 | 24.117 | 20.966 | 18.102 |
| 97 | 26.739 | 31.972 | 33.548 | 32.789 | 30.788 | 28.200 | 25.405 | 22.519 | 20.149 | 17.861 |
| 98 | 24.612 | 28.706 | 30.132 | 29.753 | 28.188 | 26.003 | 23.910 | 21.898 | 19.781 | 17.631 |
| 99 | 22.496 | 25.428 | 26.716 | 26.693 | 26.141 | 24.899 | 23.232 | 21.391 | 19.413 | 17.596 |
| 100 | 20.759 | 23.220 | 25.014 | 25.739 | 25.290 | 24.106 | 22.565 | 20.885 | 19.321 | 17.746 |
| 101 | 21.104 | 23.105 | 24.497 | 24.968 | 24.451 | 23.301 | 21.978 | 20.759 | 19.425 | 17.987 |
| 102 | 21.449 | 23.002 | 23.979 | 24.198 | 23.600 | 22.783 | 21.817 | 20.862 | 19.678 | 18.470 |
| 103 | 21.806 | 22.898 | 23.485 | 23.623 | 23.312 | 22.611 | 21.978 | 21.161 | 19.931 | 19.827 |
| 104 | 22.231 | 23.025 | 23.496 | 23.565 | 23.209 | 22.921 | 22.346 | 21.472 | 21.012 | 21.184 |
| 105 | 22.875 | 23.404 | 23.634 | 23.818 | 23.761 | 23.381 | 22.714 | 22.220 | 22.243 | 22.795 |
| 106 | 23.600 | 24.025 | 24.336 | 24.462 | 24.313 | 23.841 | 23.335 | 23.278 | 23.485 | 24.635 |
| 107 | 24.543 | 24.876 | 25.095 | 25.106 | 24.888 | 24.428 | 24.255 | 24.313 | 25.003 | 26.659 |
| 108 | 25.486 | 25.727 | 25.854 | 25.762 | 25.474 | 25.221 | 25.164 | 25.520 | 26.682 | 28.660 |
| 109 | 26.440 | 26.590 | 26.567 | 26.302 | 26.084 | 26.003 | 26.107 | 26.866 | 28.499 | 30.523 |
| 110 | 27.165 | 27.050 | 26.889 | 26.785 | 26.682 | 26.785 | 27.303 | 28.499 | 30.328 | 32.317 |
| 111 | 27.314 | 27.268 | 27.211 | 27.257 | 27.268 | 27.843 | 28.683 | 30.109 | 32.030 | 34.065 |
| 112 | 27.464 | 27.487 | 27.510 | 27.728 | 28.165 | 28.971 | 30.236 | 31.685 | 33.559 | 35.790 |
| 113 | 27.613 | 27.705 | 27.924 | 28.533 | 29.120 | 30.293 | 31.788 | 33.157 | 35.031 | 37.447 |
| 114 | 27.889 | 28.188 | 28.614 | 29.385 | 30.397 | 31.604 | 33.272 | 34.594 | 36.469 | 38.942 |
| 115 | 28.430 | 28.775 | 29.431 | 30.512 | 31.673 | 32.904 | 34.410 | 36.021 | 37.895 | 40.379 |
| 116 | 29.086 | 29.649 | 30.489 | 31.627 | 32.938 | 34.042 | 35.537 | 37.378 | 39.298 | 41.828 |
| 117 | 30.006 | 30.604 | 31.547 | 32.731 | 34.054 | 35.123 | 36.642 | 38.643 | 40.701 | 43.450 |
| 118 | 30.926 | 31.547 | 32.593 | 33.697 | 34.974 | 36.182 | 37.723 | 39.793 | 42.093 | 45.083 |
| 119 | 31.834 | 32.490 | 33.479 | 34.491 | 35.871 | 37.228 | 38.804 | 40.908 | 43.496 | 46.705 |
| 120 | 32.639 | 33.180 | 34.192 | 35.273 | 36.768 | 38.252 | 39.862 | 41.989 | 44.888 | 48.131 |
| 121 | 33.272 | 33.835 | 34.893 | 36.067 | 37.642 | 39.264 | 40.931 | 43.116 | 46.256 | 49.453 |
| 122 | 33.893 | 34.502 | 35.583 | 36.883 | 38.493 | 40.276 | 41.989 | 44.416 | 47.510 | 50.604 |
| 123 | 34.514 | 35.158 | 36.297 | 37.711 | 39.356 | 41.265 | 43.116 | 45.704 | 48.683 | 51.696 |
| 124 | 35.181 | 35.894 | 37.010 | 38.551 | 40.218 | 42.219 | 44.416 | 46.992 | 49.810 | 52.708 |
| 125 | 35.894 | 36.630 | 37.746 | 39.379 | 41.081 | 43.266 | 45.693 | 48.234 | 50.903 | 53.490 |
| 126 | 36.653 | 37.447 | 38.505 | 40.184 | 41.978 | 44.405 | 46.946 | 49.488 | 52.007 | 54.238 |
| 127 | 37.481 | 38.263 | 39.275 | 40.954 | 43.163 | 45.520 | 48.165 | 50.684 | 53.122 | 55.020 |
| 128 | 38.298 | 39.080 | 40.057 | 41.989 | 44.324 | 46.647 | 49.327 | 51.869 | 54.157 | 55.825 |
| 129 | 39.126 | 39.885 | 41.184 | 43.105 | 45.463 | 47.809 | 50.466 | 53.030 | 55.077 | 56.653 |
| 130 | 40.161 | 41.127 | 42.438 | 44.232 | 46.601 | 48.982 | 51.570 | 54.180 | 55.951 | 57.527 |
| 131 | 41.460 | 42.380 | 43.703 | 45.371 | 47.705 | 50.143 | 52.685 | 55.054 | 56.802 | 58.436 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 132 | 42.760 | 43.623 | 44.968 | 46.544 | 48.798 | 51.271 | 53.812 | 55.882 | 57.688 | 59.356 |
| 133 | 44.048 | 44.876 | 46.245 | 47.728 | 49.890 | 52.375 | 54.767 | 56.710 | 58.562 | 60.287 |
| 134 | 45.348 | 46.164 | 47.521 | 48.959 | 50.995 | 53.456 | 55.572 | 57.539 | 59.448 | 61.184 |
| 135 | 46.670 | 47.452 | 48.798 | 50.212 | 52.099 | 54.318 | 56.354 | 58.344 | 60.287 | 61.840 |
| 136 | 47.993 | 48.775 | 50.063 | 51.466 | 53.214 | 55.112 | 57.124 | 59.126 | 61.092 | 61.621 |
| 137 | 49.338 | 50.097 | 51.328 | 52.731 | 54.146 | 55.917 | 57.884 | 59.896 | 61.909 | 61.357 |
| 138 | 50.684 | 51.432 | 52.593 | 53.812 | 55.089 | 56.745 | 58.643 | 60.655 | 62.725 | 61.046 |
| 139 | 52.030 | 52.766 | 53.686 | 54.836 | 56.043 | 57.585 | 59.413 | 61.403 | 62.288 | 60.632 |
| 140 | 53.260 | 53.847 | 54.709 | 55.859 | 57.021 | 58.447 | 60.184 | 62.116 | 61.713 | 60.184 |
| 141 | 54.307 | 54.916 | 55.756 | 56.871 | 58.022 | 59.344 | 60.977 | 62.507 | 61.104 | 59.666 |
| 142 | 55.365 | 55.986 | 56.802 | 57.895 | 59.034 | 60.264 | 61.782 | 61.817 | 60.460 | 59.080 |
| 143 | 56.423 | 57.055 | 57.872 | 58.896 | 60.046 | 61.196 | 62.599 | 61.138 | 59.804 | 58.447 |
| 144 | 57.469 | 58.125 | 58.942 | 59.896 | 61.046 | 62.150 | 61.943 | 60.483 | 59.126 | 57.792 |
| 145 | 58.528 | 59.183 | 60.000 | 60.897 | 62.058 | 62.829 | 61.288 | 59.827 | 58.424 | 57.113 |
| 146 | 59.574 | 60.241 | 61.058 | 61.897 | 63.047 | 62.173 | 60.644 | 59.183 | 57.723 | 56.446 |
| 147 | 60.621 | 61.299 | 62.116 | 62.921 | 62.783 | 61.483 | 60.000 | 58.539 | 57.090 | 55.756 |
| 148 | 61.667 | 62.346 | 63.162 | 63.024 | 61.955 | 60.770 | 59.356 | 57.907 | 56.457 | 55.296 |
| 149 | 62.725 | 63.381 | 63.082 | 62.185 | 61.127 | 60.011 | 58.700 | 57.274 | 55.859 | 55.296 |
| 150 | 62.978 | 62.633 | 62.127 | 61.334 | 60.287 | 59.218 | 58.010 | 56.653 | 55.261 | 55.342 |
| 151 | 61.955 | 61.610 | 61.150 | 60.460 | 59.436 | 58.413 | 57.297 | 56.032 | 55.020 | 55.422 |
| 152 | 60.920 | 60.575 | 60.161 | 59.551 | 58.608 | 57.585 | 56.549 | 55.388 | 55.112 | 55.491 |
| 153 | 59.896 | 59.551 | 59.160 | 58.620 | 57.769 | 56.745 | 55.756 | 54.870 | 55.215 | 55.572 |
| 154 | 58.861 | 58.516 | 58.160 | 57.665 | 56.929 | 55.928 | 54.962 | 54.893 | 55.296 | 55.641 |
| 155 | 57.838 | 57.481 | 57.136 | 56.699 | 56.055 | 55.135 | 54.479 | 54.893 | 55.330 | 55.698 |
| 156 | 56.814 | 56.457 | 56.112 | 55.721 | 55.169 | 54.341 | 54.502 | 54.893 | 55.319 | 55.733 |
| 157 | 55.779 | 55.422 | 55.089 | 54.721 | 54.238 | 54.364 | 54.571 | 54.905 | 55.284 | 55.710 |
| 158 | 54.755 | 54.399 | 54.065 | 53.720 | 54.054 | 54.410 | 54.663 | 54.893 | 55.261 | 55.652 |
| 159 | 53.732 | 53.375 | 53.226 | 53.594 | 54.054 | 54.445 | 54.732 | 54.939 | 55.238 | 55.595 |
| 160 | 53.030 | 53.065 | 53.272 | 53.594 | 54.031 | 54.456 | 54.767 | 55.008 | 55.238 | 55.549 |
| 161 | 53.145 | 53.145 | 53.306 | 53.594 | 54.008 | 54.445 | 54.778 | 55.066 | 55.273 | 55.526 |
| 162 | 53.249 | 53.226 | 53.341 | 53.594 | 53.985 | 54.399 | 54.790 | 55.066 | 55.319 | 55.537 |
| 163 | 53.364 | 53.318 | 53.398 | 53.617 | 53.939 | 54.353 | 54.755 | 55.054 | 55.330 | 55.560 |
| 164 | 53.490 | 53.421 | 53.456 | 53.640 | 53.893 | 54.295 | 54.675 | 55.031 | 55.284 | 55.503 |
| 165 | 53.605 | 53.513 | 53.536 | 53.663 | 53.870 | 54.215 | 54.583 | 54.962 | 55.238 | 55.388 |
| 166 | 53.732 | 53.605 | 53.628 | 53.697 | 53.881 | 54.123 | 54.491 | 54.836 | 55.100 | 55.284 |
| 167 | 53.847 | 53.720 | 53.709 | 53.755 | 53.893 | 54.077 | 54.376 | 54.640 | 54.882 | 55.112 |
| 168 | 53.962 | 53.824 | 53.812 | 53.835 | 53.904 | 54.054 | 54.203 | 54.433 | 54.663 | 54.870 |
| 169 | 54.077 | 53.950 | 53.916 | 53.916 | 53.916 | 53.996 | 54.111 | 54.249 | 54.445 | 54.629 |
| 170 | 54.180 | 54.065 | 53.962 | 53.939 | 53.939 | 53.950 | 54.031 | 54.123 | 54.238 | 54.387 |
| 171 | 54.226 | 54.111 | 54.008 | 53.962 | 53.950 | 53.950 | 53.973 | 54.042 | 54.123 | 54.203 |
| 172 | 54.284 | 54.157 | 54.065 | 53.996 | 53.973 | 53.973 | 53.973 | 53.996 | 54.031 | 54.100 |
| 173 | 54.341 | 54.215 | 54.134 | 54.054 | 53.996 | 53.996 | 53.985 | 53.996 | 53.996 | 54.019 |
| 174 | 54.399 | 54.284 | 54.192 | 54.134 | 54.065 | 54.019 | 54.008 | 54.008 | 54.008 | 54.019 |
| 175 | 54.456 | 54.353 | 54.272 | 54.203 | 54.157 | 54.100 | 54.065 | 54.031 | 54.031 | 54.031 |
| 176 | 54.514 | 54.433 | 54.353 | 54.295 | 54.238 | 54.192 | 54.157 | 54.123 | 54.100 | 54.077 |
| 177 | 54.571 | 54.514 | 54.456 | 54.399 | 54.341 | 54.307 | 54.261 | 54.238 | 54.215 | 54.192 |
| 178 | 54.640 | 54.594 | 54.548 | 54.514 | 54.479 | 54.445 | 54.410 | 54.387 | 54.364 | 54.341 |
| 179 | 54.721 | 54.698 | 54.663 | 54.640 | 54.617 | 54.606 | 54.583 | 54.571 | 54.560 | 54.548 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles **Horizontal Angles**

| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> | <u>185</u> | <u>190</u> | <u>195</u> |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3227.837 | 3227.998 | 3228.125 | 3228.240 | 3228.332 | 3228.412 | 3228.481 | 3228.240 | 3227.975 | 3227.699 |
| 2 | 3246.377 | 3249.482 | 3252.070 | 3254.117 | 3255.623 | 3256.566 | 3256.934 | 3256.371 | 3255.232 | 3253.507 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3 | 3282.018 | 3285.928 | 3289.298 | 3292.069 | 3294.220 | 3295.715 | 3296.520 | 3295.773 | 3294.335 | 3292.230 |
| 4 | 3304.502 | 3306.411 | 3307.538 | 3308.573 | 3309.470 | 3310.218 | 3310.781 | 3309.240 | 3307.607 | 3305.962 |
| 5 | 3297.958 | 3292.391 | 3285.468 | 3280.166 | 3276.578 | 3274.715 | 3274.634 | 3273.070 | 3273.427 | 3275.784 |
| 6 | 3258.545 | 3246.170 | 3235.888 | 3228.021 | 3222.662 | 3219.833 | 3219.522 | 3217.993 | 3218.924 | 3222.225 |
| 7 | 3209.758 | 3193.968 | 3181.098 | 3170.966 | 3163.904 | 3160.052 | 3159.477 | 3157.775 | 3159.385 | 3164.250 |
| 8 | 3156.970 | 3143.318 | 3133.243 | 3129.966 | 3127.826 | 3126.837 | 3126.987 | 3124.675 | 3123.433 | 3123.192 |
| 9 | 3125.618 | 3120.259 | 3115.762 | 3106.228 | 3098.913 | 3095.348 | 3095.394 | 3092.726 | 3093.566 | 3097.970 |
| 10 | 3102.433 | 3082.168 | 3062.881 | 3048.034 | 3037.511 | 3031.657 | 3030.771 | 3028.046 | 3030.622 | 3038.546 |
| 11 | 3048.873 | 3023.675 | 3009.380 | 3003.905 | 3006.160 | 3007.735 | 3008.759 | 3008.356 | 3005.849 | 2999.558 |
| 12 | 3001.709 | 3001.272 | 3021.352 | 3042.215 | 3058.063 | 3067.367 | 3070.253 | 3067.275 | 3058.753 | 3045.377 |
| 13 | 3010.369 | 3049.989 | 3077.384 | 3090.736 | 3093.750 | 3096.314 | 3098.166 | 3093.681 | 3089.310 | 3086.090 |
| 14 | 3063.008 | 3084.894 | 3087.942 | 3083.859 | 3075.061 | 3071.105 | 3071.599 | 3066.447 | 3066.286 | 3072.025 |
| 15 | 3078.477 | 3073.071 | 3055.498 | 3037.143 | 3022.376 | 3014.992 | 3014.659 | 3010.231 | 3012.370 | 3021.122 |
| 16 | 3055.808 | 3029.460 | 3000.582 | 2978.799 | 2960.777 | 2950.392 | 2948.679 | 2943.549 | 2947.735 | 2960.973 |
| 17 | 3011.542 | 2973.497 | 2939.685 | 2910.473 | 2896.430 | 2889.794 | 2888.932 | 2884.401 | 2886.011 | 2894.176 |
| 18 | 2957.040 | 2910.208 | 2881.215 | 2861.836 | 2844.412 | 2834.982 | 2835.304 | 2830.347 | 2834.004 | 2844.815 |
| 19 | 2894.889 | 2859.639 | 2827.150 | 2794.349 | 2773.038 | 2761.595 | 2759.812 | 2754.902 | 2761.630 | 2779.364 |
| 20 | 2845.436 | 2802.066 | 2757.719 | 2733.039 | 2725.770 | 2726.311 | 2727.012 | 2725.448 | 2719.675 | 2716.075 |
| 21 | 2784.505 | 2737.087 | 2715.787 | 2729.577 | 2746.805 | 2755.914 | 2760.433 | 2755.569 | 2746.540 | 2729.071 |
| 22 | 2722.400 | 2707.173 | 2732.981 | 2754.856 | 2763.240 | 2763.677 | 2765.551 | 2760.180 | 2756.753 | 2749.933 |
| 23 | 2696.144 | 2726.713 | 2749.209 | 2749.979 | 2741.630 | 2731.060 | 2731.279 | 2724.091 | 2729.059 | 2736.489 |
| 24 | 2712.452 | 2736.155 | 2732.360 | 2703.159 | 2680.721 | 2671.820 | 2671.820 | 2665.402 | 2671.279 | 2684.885 |
| 25 | 2719.261 | 2712.268 | 2674.120 | 2648.002 | 2626.656 | 2617.018 | 2615.351 | 2611.705 | 2612.177 | 2626.104 |
| 26 | 2694.085 | 2652.740 | 2626.242 | 2600.078 | 2590.601 | 2578.100 | 2578.341 | 2570.820 | 2575.374 | 2583.459 |
| 27 | 2637.812 | 2605.771 | 2585.173 | 2554.983 | 2524.230 | 2504.621 | 2501.803 | 2493.799 | 2505.553 | 2533.879 |
| 28 | 2594.224 | 2561.240 | 2527.968 | 2481.183 | 2449.107 | 2448.313 | 2450.268 | 2448.233 | 2446.416 | 2452.983 |
| 29 | 2549.900 | 2499.917 | 2454.478 | 2430.798 | 2441.401 | 2444.529 | 2448.877 | 2440.746 | 2440.194 | 2430.786 |
| 30 | 2491.188 | 2428.118 | 2416.721 | 2426.370 | 2416.491 | 2408.267 | 2409.211 | 2400.527 | 2406.094 | 2414.972 |
| 31 | 2423.610 | 2402.230 | 2405.082 | 2390.361 | 2360.976 | 2336.709 | 2334.317 | 2326.945 | 2337.906 | 2366.370 |
| 32 | 2381.459 | 2384.817 | 2362.759 | 2322.655 | 2294.145 | 2281.770 | 2278.975 | 2270.039 | 2272.788 | 2292.960 |
| 33 | 2371.752 | 2345.174 | 2294.352 | 2271.293 | 2244.554 | 2230.189 | 2229.430 | 2221.425 | 2225.232 | 2237.412 |
| 34 | 2338.205 | 2275.698 | 2245.876 | 2218.286 | 2186.877 | 2168.441 | 2163.864 | 2161.725 | 2166.049 | 2191.489 |
| 35 | 2283.265 | 2233.846 | 2187.268 | 2159.275 | 2140.943 | 2143.358 | 2145.888 | 2143.749 | 2137.194 | 2135.411 |
| 36 | 2232.110 | 2173.122 | 2132.030 | 2124.002 | 2129.178 | 2125.129 | 2127.349 | 2121.092 | 2124.163 | 2122.001 |
| 37 | 2178.838 | 2118.942 | 2105.486 | 2105.520 | 2089.316 | 2064.888 | 2064.072 | 2053.031 | 2070.489 | 2092.352 |
| 38 | 2115.377 | 2085.210 | 2078.563 | 2054.100 | 2002.393 | 1965.073 | 1957.988 | 1946.683 | 1973.928 | 2016.159 |
| 39 | 2070.742 | 2064.026 | 2019.621 | 1960.104 | 1911.640 | 1880.565 | 1873.664 | 1868.144 | 1872.905 | 1908.466 |
| 40 | 2041.495 | 2016.884 | 1931.881 | 1876.769 | 1851.008 | 1844.579 | 1841.888 | 1840.093 | 1835.263 | 1836.252 |
| 41 | 2002.588 | 1929.696 | 1856.137 | 1830.421 | 1826.005 | 1829.168 | 1834.918 | 1833.170 | 1827.420 | 1817.644 |
| 42 | 1927.833 | 1861.853 | 1813.067 | 1806.109 | 1810.962 | 1802.325 | 1805.085 | 1794.688 | 1807.880 | 1807.535 |
| 43 | 1861.807 | 1799.277 | 1786.097 | 1780.749 | 1763.038 | 1732.043 | 1728.237 | 1718.599 | 1738.150 | 1757.886 |
| 44 | 1788.972 | 1769.352 | 1757.874 | 1720.819 | 1684.338 | 1644.787 | 1640.693 | 1631.170 | 1656.276 | 1683.246 |
| 45 | 1754.527 | 1735.172 | 1704.142 | 1641.141 | 1601.452 | 1567.133 | 1558.140 | 1557.047 | 1576.346 | 1594.206 |
| 46 | 1721.037 | 1683.154 | 1631.446 | 1561.475 | 1539.417 | 1548.859 | 1551.803 | 1548.686 | 1534.471 | 1532.286 |
| 47 | 1683.821 | 1619.623 | 1551.642 | 1527.663 | 1535.253 | 1523.281 | 1523.672 | 1523.545 | 1536.794 | 1527.157 |
| 48 | 1628.226 | 1538.485 | 1510.205 | 1503.132 | 1486.271 | 1458.451 | 1451.838 | 1443.546 | 1469.296 | 1493.298 |
| 49 | 1564.638 | 1495.023 | 1482.074 | 1446.260 | 1407.272 | 1370.447 | 1361.890 | 1353.552 | 1376.071 | 1407.847 |
| 50 | 1499.911 | 1470.688 | 1425.524 | 1372.091 | 1326.721 | 1310.666 | 1312.414 | 1306.077 | 1312.494 | 1327.572 |
| 51 | 1456.335 | 1413.678 | 1349.860 | 1300.395 | 1287.538 | 1277.394 | 1274.128 | 1268.573 | 1272.494 | 1281.891 |
| 52 | 1409.377 | 1357.094 | 1290.183 | 1266.353 | 1241.454 | 1221.235 | 1220.062 | 1210.367 | 1221.603 | 1240.649 |
| 53 | 1357.600 | 1288.665 | 1247.273 | 1216.440 | 1171.586 | 1138.223 | 1126.285 | 1120.684 | 1139.672 | 1188.274 |
| 54 | 1293.046 | 1246.882 | 1194.772 | 1147.469 | 1101.317 | 1090.195 | 1092.208 | 1085.089 | 1084.767 | 1096.291 |
| 55 | 1237.003 | 1198.970 | 1123.203 | 1084.284 | 1059.454 | 1041.006 | 1036.855 | 1031.254 | 1044.928 | 1064.180 |
| 56 | 1186.399 | 1131.138 | 1065.779 | 1034.784 | 995.429 | 965.550 | 958.327 | 954.095 | 967.781 | 1010.736 |
| 57 | 1134.082 | 1060.063 | 1019.661 | 974.532 | 929.656 | 919.270 | 922.721 | 916.959 | 920.087 | 939.972 |
| 58 | 1069.321 | 1013.542 | 968.413 | 918.419 | 898.511 | 885.217 | 883.434 | 878.845 | 888.655 | 901.272 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 59 | 998.522 | 953.301 | 909.288 | 864.354 | 828.817 | 793.107 | 767.563 | 766.620 | 786.436 | 830.737 |
| 60 | 960.409 | 898.879 | 867.758 | 803.653 | 757.650 | 761.755 | 772.129 | 764.240 | 759.720 | 766.954 |
| 61 | 895.740 | 844.228 | 799.685 | 750.508 | 729.967 | 704.021 | 682.871 | 679.134 | 705.218 | 736.258 |
| 62 | 835.246 | 799.869 | 734.556 | 696.201 | 650.428 | 619.468 | 613.706 | 608.680 | 614.384 | 649.772 |
| 63 | 793.463 | 737.362 | 682.917 | 638.559 | 609.071 | 594.833 | 589.623 | 589.347 | 604.275 | 604.241 |
| 64 | 745.999 | 669.048 | 629.462 | 584.965 | 546.046 | 511.257 | 511.567 | 504.195 | 516.788 | 561.573 |
| 65 | 685.160 | 614.074 | 563.344 | 534.212 | 499.503 | 476.812 | 461.274 | 466.093 | 487.875 | 510.359 |
| 66 | 628.415 | 570.486 | 509.301 | 480.572 | 438.951 | 417.479 | 424.989 | 416.283 | 420.400 | 456.800 |
| 67 | 567.277 | 513.442 | 464.379 | 427.899 | 397.468 | 374.547 | 367.014 | 369.256 | 381.390 | 406.496 |
| 68 | 541.412 | 453.960 | 406.818 | 378.100 | 358.675 | 352.718 | 349.325 | 347.612 | 351.269 | 361.091 |
| 69 | 529.255 | 411.614 | 363.517 | 344.012 | 333.707 | 326.703 | 326.692 | 325.059 | 328.244 | 332.695 |
| 70 | 497.134 | 373.097 | 336.076 | 317.825 | 311.856 | 307.209 | 306.841 | 305.634 | 309.072 | 310.763 |
| 71 | 447.404 | 348.704 | 303.771 | 296.502 | 293.684 | 288.302 | 289.521 | 287.543 | 291.258 | 292.258 |
| 72 | 394.983 | 336.950 | 285.588 | 278.768 | 276.100 | 269.855 | 270.947 | 269.291 | 273.972 | 275.168 |
| 73 | 326.818 | 334.639 | 268.659 | 261.873 | 257.836 | 251.545 | 252.960 | 251.741 | 256.100 | 258.227 |
| 74 | 265.657 | 305.703 | 251.522 | 243.403 | 238.032 | 234.225 | 235.479 | 234.812 | 237.354 | 241.022 |
| 75 | 248.417 | 264.553 | 237.561 | 226.382 | 219.389 | 217.365 | 218.228 | 218.343 | 219.688 | 224.197 |
| 76 | 231.431 | 230.614 | 223.978 | 209.740 | 201.966 | 200.275 | 200.597 | 201.736 | 203.116 | 207.842 |
| 77 | 217.377 | 209.683 | 205.025 | 193.949 | 185.358 | 183.553 | 184.208 | 185.784 | 187.475 | 192.351 |
| 78 | 206.083 | 193.041 | 187.521 | 178.182 | 169.706 | 165.922 | 167.210 | 169.165 | 172.270 | 181.989 |
| 79 | 196.342 | 178.044 | 170.373 | 162.575 | 153.651 | 148.705 | 151.017 | 153.099 | 157.181 | 185.485 |
| 80 | 182.932 | 164.990 | 154.168 | 147.233 | 137.550 | 132.006 | 134.490 | 137.389 | 142.035 | 175.192 |
| 81 | 160.586 | 152.179 | 139.056 | 131.397 | 122.207 | 116.204 | 118.539 | 122.691 | 127.417 | 140.643 |
| 82 | 139.838 | 135.583 | 125.715 | 115.859 | 107.130 | 99.873 | 102.794 | 107.751 | 113.846 | 115.721 |
| 83 | 122.714 | 117.435 | 112.363 | 100.643 | 91.891 | 83.921 | 87.625 | 93.179 | 99.919 | 101.023 |
| 84 | 108.579 | 101.253 | 95.928 | 86.613 | 78.044 | 69.258 | 72.421 | 79.701 | 84.370 | 87.579 |
| 85 | 94.571 | 87.349 | 80.575 | 72.904 | 64.048 | 54.192 | 56.745 | 65.463 | 69.695 | 73.927 |
| 86 | 80.586 | 73.663 | 66.820 | 59.310 | 50.995 | 40.667 | 41.656 | 52.133 | 56.411 | 60.023 |
| 87 | 66.728 | 60.287 | 53.548 | 46.590 | 38.585 | 28.303 | 26.958 | 39.298 | 43.956 | 47.774 |
| 88 | 54.203 | 47.694 | 40.644 | 34.249 | 27.015 | 17.481 | 12.616 | 27.475 | 32.858 | 36.883 |
| 89 | 42.978 | 36.561 | 29.592 | 22.921 | 16.400 | 9.270 | 4.221 | 19.747 | 23.876 | 27.901 |
| 90 | 31.811 | 25.877 | 19.471 | 13.628 | 8.534 | 4.520 | 3.140 | 15.055 | 18.240 | 21.886 |
| 91 | 26.383 | 20.736 | 15.020 | 10.017 | 6.475 | 4.347 | 3.427 | 13.939 | 16.481 | 19.551 |
| 92 | 20.977 | 16.297 | 11.869 | 8.844 | 6.567 | 5.106 | 4.232 | 13.732 | 16.193 | 18.654 |
| 93 | 17.803 | 14.388 | 11.317 | 8.844 | 7.073 | 7.084 | 5.566 | 14.514 | 16.297 | 18.470 |
| 94 | 16.837 | 13.674 | 11.167 | 9.132 | 8.200 | 9.362 | 7.556 | 15.883 | 16.941 | 18.539 |
| 95 | 15.894 | 13.467 | 11.282 | 9.718 | 10.040 | 11.593 | 9.914 | 16.941 | 18.137 | 18.942 |
| 96 | 15.733 | 13.456 | 11.650 | 10.845 | 12.409 | 13.835 | 12.582 | 18.160 | 19.977 | 19.862 |
| 97 | 15.607 | 13.651 | 12.133 | 12.501 | 14.836 | 16.262 | 15.204 | 19.643 | 21.852 | 21.207 |
| 98 | 15.664 | 14.042 | 13.444 | 14.836 | 17.159 | 18.792 | 17.964 | 21.380 | 23.450 | 23.048 |
| 99 | 15.917 | 14.664 | 15.009 | 17.263 | 19.758 | 21.357 | 20.103 | 23.289 | 25.348 | 24.957 |
| 100 | 16.216 | 15.986 | 17.102 | 19.689 | 22.220 | 23.519 | 22.530 | 25.164 | 27.257 | 26.808 |
| 101 | 17.228 | 17.493 | 19.413 | 22.001 | 24.635 | 25.693 | 25.014 | 27.188 | 29.086 | 28.614 |
| 102 | 18.608 | 19.517 | 21.783 | 24.497 | 27.119 | 28.165 | 27.682 | 29.465 | 31.064 | 30.581 |
| 103 | 20.184 | 21.863 | 24.186 | 27.130 | 29.477 | 30.673 | 30.339 | 31.788 | 32.915 | 32.754 |
| 104 | 22.116 | 24.209 | 26.659 | 29.776 | 31.777 | 33.111 | 33.019 | 33.973 | 34.767 | 35.043 |
| 105 | 24.336 | 26.486 | 29.155 | 32.386 | 33.950 | 35.238 | 35.238 | 35.940 | 36.538 | 37.228 |
| 106 | 26.555 | 28.763 | 31.616 | 34.870 | 36.136 | 37.240 | 37.435 | 37.838 | 38.286 | 39.252 |
| 107 | 28.671 | 31.006 | 34.042 | 37.424 | 38.206 | 39.172 | 39.471 | 39.689 | 40.000 | 41.299 |
| 108 | 30.776 | 33.226 | 36.377 | 39.310 | 40.103 | 40.931 | 41.219 | 41.380 | 41.759 | 42.806 |
| 109 | 32.812 | 35.491 | 38.735 | 41.092 | 41.966 | 42.679 | 43.093 | 43.105 | 43.542 | 44.186 |
| 110 | 34.790 | 37.700 | 41.092 | 42.817 | 43.853 | 44.554 | 45.187 | 44.968 | 45.348 | 45.658 |
| 111 | 36.711 | 39.908 | 43.439 | 44.589 | 45.750 | 46.521 | 47.268 | 46.866 | 47.188 | 47.096 |
| 112 | 38.539 | 42.047 | 45.658 | 46.210 | 47.487 | 48.361 | 49.143 | 48.614 | 48.855 | 48.476 |
| 113 | 40.345 | 43.956 | 46.992 | 47.740 | 49.005 | 49.890 | 50.730 | 50.040 | 50.247 | 49.683 |
| 114 | 42.173 | 45.716 | 48.096 | 49.131 | 50.258 | 51.121 | 52.007 | 51.179 | 51.478 | 50.776 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 115 | 43.945 | 47.349 | 49.200 | 50.143 | 51.190 | 51.903 | 52.869 | 52.076 | 52.421 | 51.685 |
| 116 | 45.578 | 48.993 | 50.247 | 50.972 | 51.903 | 52.490 | 53.398 | 52.685 | 53.065 | 52.421 |
| 117 | 46.992 | 50.293 | 51.144 | 51.639 | 52.513 | 53.203 | 54.261 | 53.433 | 53.605 | 53.076 |
| 118 | 48.338 | 50.972 | 51.949 | 52.329 | 53.237 | 53.939 | 54.859 | 54.065 | 54.157 | 53.709 |
| 119 | 49.637 | 51.719 | 52.800 | 53.019 | 53.559 | 54.376 | 55.388 | 54.686 | 54.594 | 54.180 |
| 120 | 50.937 | 52.536 | 53.686 | 53.536 | 53.939 | 54.629 | 55.721 | 55.077 | 54.870 | 54.721 |
| 121 | 52.156 | 53.444 | 54.548 | 54.031 | 54.433 | 55.089 | 56.227 | 55.445 | 55.181 | 55.192 |
| 122 | 53.019 | 54.376 | 55.043 | 54.422 | 54.974 | 55.675 | 56.699 | 55.951 | 55.698 | 55.652 |
| 123 | 53.789 | 55.250 | 55.514 | 54.882 | 55.445 | 56.147 | 57.262 | 56.503 | 56.239 | 56.112 |
| 124 | 54.548 | 56.170 | 55.997 | 55.284 | 55.825 | 56.561 | 57.884 | 57.090 | 56.664 | 56.423 |
| 125 | 55.319 | 57.055 | 56.342 | 55.583 | 56.250 | 56.871 | 58.252 | 57.492 | 57.032 | 56.722 |
| 126 | 56.055 | 57.849 | 56.549 | 56.020 | 56.779 | 57.239 | 58.666 | 57.884 | 57.343 | 57.021 |
| 127 | 56.791 | 57.999 | 56.722 | 56.354 | 57.228 | 57.757 | 58.907 | 58.160 | 57.608 | 57.251 |
| 128 | 57.492 | 58.022 | 56.802 | 56.526 | 57.562 | 58.125 | 59.091 | 58.401 | 57.907 | 57.481 |
| 129 | 58.217 | 58.022 | 56.791 | 56.676 | 57.769 | 58.401 | 59.356 | 58.677 | 58.160 | 57.723 |
| 130 | 59.034 | 58.022 | 56.722 | 56.814 | 57.861 | 58.539 | 59.517 | 58.896 | 58.413 | 57.861 |
| 131 | 59.850 | 58.045 | 56.630 | 56.963 | 57.953 | 58.562 | 59.597 | 59.057 | 58.505 | 57.964 |
| 132 | 59.919 | 58.045 | 56.549 | 57.147 | 58.045 | 58.585 | 59.678 | 59.126 | 58.643 | 58.091 |
| 133 | 59.931 | 58.056 | 56.561 | 57.366 | 58.252 | 58.654 | 59.701 | 59.218 | 58.769 | 58.240 |
| 134 | 59.919 | 58.079 | 56.848 | 57.631 | 58.574 | 58.930 | 59.816 | 59.333 | 58.907 | 58.355 |
| 135 | 59.850 | 58.056 | 57.147 | 57.941 | 58.850 | 59.183 | 59.839 | 59.402 | 58.965 | 58.528 |
| 136 | 59.724 | 57.999 | 57.423 | 58.217 | 59.068 | 59.436 | 59.942 | 59.505 | 59.137 | 58.804 |
| 137 | 59.551 | 57.872 | 57.677 | 58.482 | 59.252 | 59.666 | 60.230 | 59.781 | 59.459 | 59.091 |
| 138 | 59.310 | 57.688 | 57.895 | 58.689 | 59.448 | 59.862 | 60.471 | 60.046 | 59.712 | 59.287 |
| 139 | 59.011 | 57.458 | 58.079 | 58.861 | 59.563 | 59.965 | 60.563 | 60.184 | 59.827 | 59.413 |
| 140 | 58.666 | 57.504 | 58.252 | 58.999 | 59.620 | 60.000 | 60.632 | 60.253 | 59.908 | 59.540 |
| 141 | 58.240 | 57.596 | 58.390 | 59.195 | 59.689 | 60.034 | 60.713 | 60.345 | 60.011 | 59.620 |
| 142 | 57.746 | 57.631 | 58.470 | 59.287 | 59.816 | 60.115 | 60.736 | 60.391 | 60.046 | 59.655 |
| 143 | 57.170 | 57.608 | 58.482 | 59.321 | 59.850 | 60.207 | 60.736 | 60.379 | 60.023 | 59.643 |
| 144 | 56.538 | 57.527 | 58.424 | 59.298 | 59.816 | 60.218 | 60.552 | 60.253 | 59.931 | 59.528 |
| 145 | 56.423 | 57.366 | 58.309 | 59.183 | 59.689 | 60.115 | 60.345 | 60.069 | 59.747 | 59.402 |
| 146 | 56.296 | 57.182 | 58.102 | 58.988 | 59.459 | 59.862 | 60.069 | 59.839 | 59.540 | 59.172 |
| 147 | 56.170 | 57.021 | 57.872 | 58.677 | 59.172 | 59.563 | 59.747 | 59.540 | 59.241 | 58.896 |
| 148 | 56.066 | 56.860 | 57.654 | 58.355 | 58.827 | 59.206 | 59.356 | 59.183 | 58.930 | 58.597 |
| 149 | 55.951 | 56.699 | 57.458 | 58.068 | 58.482 | 58.838 | 58.976 | 58.827 | 58.574 | 58.263 |
| 150 | 55.871 | 56.538 | 57.262 | 57.803 | 58.183 | 58.493 | 58.585 | 58.459 | 58.240 | 57.930 |
| 151 | 55.882 | 56.423 | 57.044 | 57.539 | 57.884 | 58.183 | 58.263 | 58.125 | 57.907 | 57.654 |
| 152 | 55.917 | 56.400 | 56.894 | 57.262 | 57.596 | 57.861 | 57.953 | 57.826 | 57.654 | 57.435 |
| 153 | 55.986 | 56.411 | 56.860 | 57.113 | 57.366 | 57.608 | 57.677 | 57.585 | 57.435 | 57.262 |
| 154 | 56.020 | 56.457 | 56.825 | 57.055 | 57.285 | 57.492 | 57.504 | 57.412 | 57.308 | 57.170 |
| 155 | 56.066 | 56.457 | 56.802 | 56.998 | 57.216 | 57.423 | 57.389 | 57.308 | 57.216 | 57.113 |
| 156 | 56.112 | 56.492 | 56.745 | 56.952 | 57.147 | 57.331 | 57.308 | 57.228 | 57.147 | 57.067 |
| 157 | 56.112 | 56.503 | 56.710 | 56.894 | 57.078 | 57.251 | 57.216 | 57.159 | 57.090 | 57.032 |
| 158 | 56.066 | 56.434 | 56.630 | 56.814 | 56.998 | 57.170 | 57.101 | 57.067 | 56.998 | 56.929 |
| 159 | 55.974 | 56.308 | 56.515 | 56.710 | 56.871 | 57.021 | 56.929 | 56.906 | 56.848 | 56.768 |
| 160 | 55.894 | 56.135 | 56.354 | 56.538 | 56.710 | 56.848 | 56.733 | 56.710 | 56.653 | 56.584 |
| 161 | 55.802 | 55.986 | 56.158 | 56.342 | 56.492 | 56.618 | 56.480 | 56.469 | 56.434 | 56.365 |
| 162 | 55.721 | 55.871 | 56.032 | 56.158 | 56.285 | 56.388 | 56.239 | 56.239 | 56.227 | 56.181 |
| 163 | 55.664 | 55.779 | 55.905 | 56.032 | 56.147 | 56.227 | 56.089 | 56.089 | 56.089 | 56.066 |
| 164 | 55.618 | 55.721 | 55.813 | 55.928 | 56.020 | 56.101 | 55.963 | 55.974 | 55.986 | 55.974 |
| 165 | 55.537 | 55.664 | 55.756 | 55.848 | 55.928 | 55.997 | 55.859 | 55.871 | 55.882 | 55.882 |
| 166 | 55.411 | 55.526 | 55.652 | 55.744 | 55.825 | 55.894 | 55.756 | 55.779 | 55.779 | 55.779 |
| 167 | 55.284 | 55.399 | 55.503 | 55.583 | 55.664 | 55.721 | 55.595 | 55.606 | 55.606 | 55.595 |
| 168 | 55.066 | 55.227 | 55.353 | 55.445 | 55.514 | 55.560 | 55.365 | 55.388 | 55.388 | 55.376 |
| 169 | 54.801 | 54.951 | 55.089 | 55.204 | 55.284 | 55.342 | 55.135 | 55.158 | 55.158 | 55.135 |
| 170 | 54.548 | 54.675 | 54.801 | 54.893 | 54.974 | 55.031 | 54.813 | 54.847 | 54.847 | 54.836 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 171 | 54.295 | 54.410 | 54.502 | 54.594 | 54.652 | 54.698 | 54.479 | 54.502 | 54.514 | 54.502 |
| 172 | 54.157 | 54.215 | 54.261 | 54.318 | 54.364 | 54.399 | 54.180 | 54.203 | 54.226 | 54.215 |
| 173 | 54.054 | 54.100 | 54.134 | 54.169 | 54.192 | 54.215 | 53.985 | 54.008 | 54.031 | 54.031 |
| 174 | 54.019 | 54.031 | 54.054 | 54.065 | 54.077 | 54.088 | 53.870 | 53.893 | 53.904 | 53.916 |
| 175 | 54.031 | 54.031 | 54.042 | 54.042 | 54.054 | 54.065 | 53.847 | 53.858 | 53.881 | 53.893 |
| 176 | 54.054 | 54.054 | 54.054 | 54.054 | 54.054 | 54.065 | 53.893 | 53.858 | 53.881 | 53.893 |
| 177 | 54.180 | 54.169 | 54.157 | 54.146 | 54.146 | 54.146 | 53.950 | 53.916 | 53.939 | 53.950 |
| 178 | 54.330 | 54.307 | 54.295 | 54.295 | 54.284 | 54.284 | 54.042 | 54.054 | 54.065 | 54.077 |
| 179 | 54.537 | 54.525 | 54.514 | 54.514 | 54.514 | 54.502 | 54.261 | 54.261 | 54.261 | 54.272 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles

Horizontal Angles

| | <u>200</u> | <u>205</u> | <u>210</u> | <u>215</u> | <u>220</u> | <u>225</u> | <u>230</u> | <u>235</u> | <u>240</u> | <u>245</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3227.400 | 3227.090 | 3226.768 | 3226.423 | 3226.066 | 3225.687 | 3225.307 | 3224.905 | 3224.514 | 3224.629 |
| 2 | 3251.219 | 3248.355 | 3244.939 | 3240.994 | 3236.532 | 3233.197 | 3230.241 | 3227.078 | 3223.755 | 3222.789 |
| 3 | 3289.505 | 3286.169 | 3282.282 | 3277.015 | 3268.803 | 3259.649 | 3250.333 | 3241.558 | 3232.208 | 3226.871 |
| 4 | 3304.410 | 3303.041 | 3301.351 | 3297.555 | 3293.668 | 3287.400 | 3279.833 | 3266.917 | 3251.357 | 3237.901 |
| 5 | 3280.235 | 3286.837 | 3291.345 | 3296.244 | 3297.866 | 3297.705 | 3293.449 | 3286.492 | 3275.428 | 3254.002 |
| 6 | 3227.826 | 3235.865 | 3246.756 | 3259.867 | 3275.232 | 3285.893 | 3291.598 | 3291.333 | 3285.445 | 3271.770 |
| 7 | 3172.277 | 3183.283 | 3197.498 | 3212.150 | 3228.942 | 3249.378 | 3272.403 | 3284.053 | 3286.054 | 3278.487 |
| 8 | 3123.882 | 3131.208 | 3142.087 | 3161.225 | 3184.203 | 3206.457 | 3231.621 | 3260.615 | 3276.129 | 3276.474 |
| 9 | 3104.618 | 3107.861 | 3111.024 | 3116.740 | 3133.289 | 3162.225 | 3192.346 | 3222.823 | 3257.567 | 3268.734 |
| 10 | 3051.254 | 3068.045 | 3084.526 | 3095.774 | 3101.225 | 3115.176 | 3150.035 | 3186.722 | 3224.065 | 3255.819 |
| 11 | 2998.247 | 3004.768 | 3030.001 | 3058.201 | 3079.914 | 3089.402 | 3105.791 | 3149.022 | 3190.586 | 3236.130 |
| 12 | 3025.883 | 3001.053 | 2985.424 | 2999.892 | 3036.740 | 3067.746 | 3080.064 | 3107.286 | 3156.820 | 3200.385 |
| 13 | 3074.474 | 3052.634 | 3016.579 | 2979.432 | 2981.272 | 3026.654 | 3060.167 | 3072.462 | 3113.439 | 3166.067 |
| 14 | 3075.210 | 3074.808 | 3059.891 | 3021.295 | 2973.428 | 2975.119 | 3022.341 | 3050.323 | 3072.105 | 3132.438 |
| 15 | 3035.878 | 3052.692 | 3060.949 | 3052.726 | 3013.072 | 2957.960 | 2970.921 | 3022.502 | 3043.974 | 3093.428 |
| 16 | 2980.524 | 3001.847 | 3029.138 | 3046.539 | 3039.972 | 2993.175 | 2942.871 | 2978.454 | 3021.663 | 3054.647 |
| 17 | 2911.669 | 2944.009 | 2977.557 | 3014.440 | 3031.001 | 3020.881 | 2962.514 | 2933.808 | 2994.636 | 3022.997 |
| 18 | 2859.444 | 2879.133 | 2919.317 | 2960.421 | 2997.361 | 3016.430 | 2994.003 | 2920.835 | 2955.153 | 2998.316 |
| 19 | 2805.747 | 2831.807 | 2858.788 | 2899.260 | 2946.965 | 2989.748 | 3000.398 | 2941.721 | 2911.220 | 2973.543 |
| 20 | 2732.153 | 2773.590 | 2811.658 | 2838.662 | 2888.656 | 2944.412 | 2983.457 | 2963.262 | 2886.126 | 2946.091 |
| 21 | 2703.873 | 2701.515 | 2747.714 | 2791.037 | 2830.082 | 2893.659 | 2951.887 | 2965.412 | 2889.553 | 2912.486 |
| 22 | 2731.566 | 2698.663 | 2684.218 | 2728.036 | 2780.077 | 2833.418 | 2906.275 | 2950.519 | 2908.334 | 2874.855 |
| 23 | 2736.086 | 2723.458 | 2687.714 | 2668.519 | 2728.128 | 2781.963 | 2859.191 | 2925.619 | 2919.317 | 2839.536 |
| 24 | 2708.220 | 2718.237 | 2705.724 | 2668.094 | 2660.698 | 2735.442 | 2803.147 | 2886.344 | 2910.737 | 2832.704 |
| 25 | 2654.339 | 2681.814 | 2697.938 | 2684.425 | 2636.777 | 2679.422 | 2751.750 | 2836.224 | 2889.484 | 2840.272 |
| 26 | 2595.259 | 2624.126 | 2660.353 | 2678.467 | 2650.313 | 2617.743 | 2702.711 | 2781.054 | 2857.730 | 2847.368 |
| 27 | 2558.767 | 2568.370 | 2602.849 | 2648.910 | 2652.682 | 2605.552 | 2649.198 | 2720.986 | 2816.511 | 2845.068 |
| 28 | 2496.835 | 2526.749 | 2547.623 | 2598.905 | 2637.823 | 2614.500 | 2591.855 | 2671.348 | 2774.085 | 2830.945 |
| 29 | 2430.418 | 2459.043 | 2506.484 | 2539.434 | 2605.150 | 2611.590 | 2566.967 | 2625.598 | 2725.690 | 2807.897 |
| 30 | 2414.144 | 2411.223 | 2444.150 | 2494.190 | 2551.429 | 2589.658 | 2566.737 | 2570.279 | 2670.428 | 2778.881 |
| 31 | 2385.381 | 2395.168 | 2391.959 | 2444.529 | 2491.200 | 2554.109 | 2562.091 | 2528.853 | 2623.367 | 2746.322 |
| 32 | 2324.737 | 2358.768 | 2375.364 | 2383.092 | 2437.065 | 2505.415 | 2546.898 | 2517.744 | 2584.138 | 2711.716 |
| 33 | 2254.042 | 2295.985 | 2343.541 | 2353.455 | 2384.599 | 2443.414 | 2523.643 | 2516.122 | 2538.422 | 2662.217 |
| 34 | 2202.208 | 2228.153 | 2287.647 | 2328.636 | 2337.952 | 2394.041 | 2487.738 | 2508.957 | 2491.384 | 2602.090 |
| 35 | 2152.122 | 2176.089 | 2222.518 | 2280.678 | 2312.270 | 2343.943 | 2433.385 | 2492.591 | 2459.550 | 2544.954 |
| 36 | 2112.766 | 2129.672 | 2161.161 | 2217.515 | 2276.997 | 2304.887 | 2377.411 | 2463.839 | 2440.907 | 2488.865 |
| 37 | 2100.311 | 2092.697 | 2118.010 | 2146.912 | 2227.843 | 2283.346 | 2331.028 | 2420.918 | 2424.265 | 2435.904 |
| 38 | 2053.997 | 2079.276 | 2074.227 | 2098.482 | 2167.613 | 2252.685 | 2280.459 | 2359.412 | 2400.516 | 2387.808 |
| 39 | 1967.097 | 2035.274 | 2049.028 | 2055.779 | 2109.684 | 2208.729 | 2243.150 | 2297.607 | 2374.628 | 2351.845 |
| 40 | 1860.668 | 1959.345 | 2013.065 | 2027.487 | 2061.875 | 2141.460 | 2203.185 | 2241.103 | 2341.839 | 2323.093 |
| 41 | 1811.215 | 1851.422 | 1940.633 | 2007.304 | 2025.199 | 2081.955 | 2158.275 | 2191.420 | 2292.834 | 2297.204 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 42 | 1800.094 | 1790.859 | 1839.024 | 1956.206 | 2001.611 | 2020.023 | 2100.069 | 2154.433 | 2230.235 | 2273.524 |
| 43 | 1783.935 | 1775.666 | 1772.319 | 1878.978 | 1967.522 | 1972.031 | 2042.795 | 2117.033 | 2168.096 | 2246.026 |
| 44 | 1726.868 | 1756.897 | 1752.204 | 1788.662 | 1905.936 | 1940.507 | 1983.554 | 2076.745 | 2113.467 | 2208.740 |
| 45 | 1656.771 | 1699.623 | 1740.416 | 1742.808 | 1821.336 | 1902.911 | 1920.553 | 2022.565 | 2069.224 | 2163.438 |
| 46 | 1569.779 | 1632.677 | 1695.908 | 1726.167 | 1738.840 | 1853.285 | 1882.669 | 1963.635 | 2025.751 | 2107.855 |
| 47 | 1511.976 | 1542.441 | 1642.337 | 1691.216 | 1695.287 | 1784.936 | 1847.040 | 1904.314 | 1981.921 | 2044.003 |
| 48 | 1502.165 | 1496.484 | 1561.728 | 1643.821 | 1663.499 | 1705.270 | 1807.466 | 1845.522 | 1937.770 | 1985.303 |
| 49 | 1466.846 | 1481.280 | 1495.840 | 1568.307 | 1627.352 | 1647.662 | 1753.745 | 1791.100 | 1884.245 | 1931.582 |
| 50 | 1373.817 | 1450.952 | 1468.583 | 1485.305 | 1581.141 | 1610.814 | 1687.179 | 1744.361 | 1822.727 | 1890.582 |
| 51 | 1301.937 | 1364.926 | 1438.336 | 1442.626 | 1509.227 | 1571.021 | 1615.161 | 1698.404 | 1766.488 | 1847.776 |
| 52 | 1258.993 | 1300.476 | 1358.302 | 1409.354 | 1434.380 | 1519.934 | 1558.059 | 1657.944 | 1710.767 | 1806.166 |
| 53 | 1213.047 | 1257.463 | 1288.883 | 1358.267 | 1389.067 | 1457.531 | 1512.723 | 1603.407 | 1658.450 | 1755.310 |
| 54 | 1144.100 | 1218.130 | 1231.598 | 1283.995 | 1346.767 | 1394.276 | 1468.319 | 1540.716 | 1608.697 | 1675.724 |
| 55 | 1073.473 | 1153.818 | 1183.191 | 1221.097 | 1288.699 | 1342.178 | 1421.280 | 1480.325 | 1546.260 | 1594.068 |
| 56 | 1042.007 | 1076.475 | 1126.250 | 1171.195 | 1222.754 | 1294.818 | 1369.423 | 1422.062 | 1483.994 | 1511.849 |
| 57 | 982.847 | 1025.526 | 1060.558 | 1120.097 | 1164.559 | 1241.431 | 1311.356 | 1368.239 | 1423.339 | 1417.957 |
| 58 | 928.874 | 959.477 | 1016.142 | 1060.960 | 1115.773 | 1184.191 | 1257.106 | 1317.865 | 1354.288 | 1303.420 |
| 59 | 893.854 | 899.869 | 970.829 | 1005.986 | 1066.308 | 1125.296 | 1211.184 | 1267.319 | 1247.906 | 1176.175 |
| 60 | 840.122 | 849.794 | 898.120 | 959.914 | 1011.955 | 1083.893 | 1163.685 | 1182.386 | 1128.263 | 1031.599 |
| 61 | 753.509 | 804.262 | 837.511 | 903.779 | 956.107 | 1052.967 | 1113.760 | 1087.792 | 979.431 | 887.356 |
| 62 | 693.050 | 743.653 | 787.011 | 845.044 | 922.157 | 1021.352 | 1027.102 | 951.013 | 834.222 | 742.572 |
| 63 | 638.823 | 684.631 | 738.351 | 797.833 | 898.960 | 981.593 | 928.069 | 808.207 | 689.714 | 666.897 |
| 64 | 590.210 | 609.588 | 675.787 | 749.749 | 876.384 | 899.363 | 795.982 | 665.632 | 612.130 | 634.166 |
| 65 | 523.482 | 571.498 | 623.481 | 724.401 | 838.799 | 798.374 | 663.021 | 562.366 | 584.172 | 602.147 |
| 66 | 472.246 | 522.746 | 572.015 | 705.379 | 768.874 | 672.141 | 529.957 | 534.258 | 554.845 | 571.084 |
| 67 | 427.726 | 466.921 | 531.371 | 693.199 | 681.744 | 542.861 | 485.771 | 504.437 | 525.449 | 529.416 |
| 68 | 381.804 | 420.136 | 516.558 | 652.452 | 565.368 | 433.891 | 457.927 | 474.707 | 487.013 | 485.748 |
| 69 | 345.277 | 380.665 | 516.455 | 586.667 | 449.923 | 409.428 | 431.959 | 439.400 | 447.600 | 428.899 |
| 70 | 317.376 | 345.001 | 524.126 | 474.880 | 367.439 | 385.622 | 401.803 | 402.735 | 398.031 | 372.695 |
| 71 | 297.158 | 341.436 | 483.068 | 369.797 | 341.965 | 361.838 | 368.693 | 361.010 | 348.359 | 317.641 |
| 72 | 279.101 | 361.654 | 410.866 | 293.052 | 315.225 | 334.984 | 334.512 | 319.918 | 299.573 | 274.110 |
| 73 | 262.230 | 384.679 | 325.151 | 272.661 | 290.303 | 306.922 | 300.665 | 279.515 | 268.256 | 261.390 |
| 74 | 245.979 | 363.425 | 249.671 | 253.857 | 267.589 | 277.917 | 267.095 | 254.950 | 253.995 | 248.498 |
| 75 | 259.976 | 295.122 | 232.960 | 236.571 | 247.808 | 250.579 | 243.426 | 240.781 | 239.688 | 235.513 |
| 76 | 272.155 | 228.486 | 216.549 | 220.838 | 228.567 | 227.957 | 227.382 | 226.451 | 225.335 | 222.885 |
| 77 | 252.293 | 198.021 | 200.907 | 205.554 | 210.982 | 210.971 | 211.615 | 212.040 | 211.925 | 210.534 |
| 78 | 204.611 | 181.782 | 186.129 | 191.074 | 194.467 | 194.571 | 196.227 | 198.021 | 198.803 | 198.895 |
| 79 | 164.070 | 166.336 | 171.638 | 175.341 | 177.216 | 178.596 | 181.414 | 184.300 | 186.451 | 187.509 |
| 80 | 148.418 | 151.995 | 156.526 | 159.068 | 160.666 | 163.242 | 167.371 | 170.902 | 174.076 | 176.089 |
| 81 | 133.225 | 137.826 | 140.873 | 143.070 | 145.267 | 149.280 | 153.524 | 157.492 | 161.667 | 164.553 |
| 82 | 119.217 | 123.128 | 125.255 | 127.981 | 131.397 | 135.376 | 139.700 | 144.105 | 148.717 | 151.765 |
| 83 | 105.784 | 108.016 | 110.684 | 114.053 | 117.607 | 121.586 | 126.233 | 130.845 | 135.525 | 138.953 |
| 84 | 90.833 | 93.640 | 97.044 | 100.195 | 104.255 | 108.464 | 112.949 | 117.607 | 122.346 | 126.152 |
| 85 | 76.561 | 80.092 | 83.450 | 87.291 | 91.397 | 95.411 | 99.712 | 104.393 | 109.522 | 113.984 |
| 86 | 63.737 | 67.096 | 71.144 | 74.721 | 78.573 | 82.944 | 87.751 | 92.926 | 98.067 | 102.610 |
| 87 | 51.742 | 55.365 | 58.965 | 63.231 | 67.705 | 72.133 | 76.802 | 82.173 | 87.418 | 92.156 |
| 88 | 40.632 | 44.899 | 49.028 | 53.674 | 58.447 | 63.139 | 67.832 | 72.789 | 77.711 | 82.254 |
| 89 | 32.455 | 37.033 | 41.334 | 45.739 | 50.155 | 54.514 | 58.884 | 63.438 | 68.016 | 72.363 |
| 90 | 25.681 | 29.879 | 33.674 | 37.826 | 41.886 | 45.911 | 49.948 | 54.100 | 58.332 | 62.472 |
| 91 | 23.197 | 27.107 | 30.868 | 34.847 | 38.712 | 42.530 | 46.337 | 50.235 | 54.169 | 57.907 |
| 92 | 21.391 | 24.704 | 28.073 | 31.892 | 35.549 | 39.149 | 42.737 | 46.383 | 50.005 | 53.352 |
| 93 | 20.954 | 23.646 | 26.417 | 29.730 | 32.881 | 35.975 | 39.137 | 42.530 | 45.842 | 48.798 |
| 94 | 20.782 | 23.232 | 25.900 | 28.522 | 31.041 | 33.824 | 36.699 | 39.586 | 42.346 | 44.692 |
| 95 | 20.805 | 23.117 | 25.394 | 27.832 | 30.213 | 32.559 | 34.836 | 37.079 | 39.436 | 41.368 |
| 96 | 21.150 | 23.105 | 25.210 | 27.234 | 29.385 | 31.616 | 33.720 | 35.721 | 37.504 | 38.723 |
| 97 | 21.645 | 23.243 | 25.037 | 27.004 | 28.856 | 30.661 | 32.605 | 34.353 | 35.813 | 36.607 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 98 | 22.703 | 23.496 | 25.003 | 26.774 | 28.602 | 30.259 | 31.696 | 32.973 | 34.111 | 34.491 |
| 99 | 23.945 | 23.968 | 25.129 | 26.670 | 28.349 | 29.925 | 31.271 | 32.294 | 32.800 | 32.352 |
| 100 | 25.624 | 25.106 | 25.279 | 26.670 | 28.177 | 29.592 | 30.834 | 31.800 | 32.329 | 31.915 |
| 101 | 27.498 | 26.429 | 26.210 | 26.705 | 28.039 | 29.327 | 30.431 | 31.317 | 31.857 | 31.639 |
| 102 | 29.477 | 28.177 | 27.510 | 27.004 | 27.935 | 29.097 | 30.109 | 30.903 | 31.397 | 31.363 |
| 103 | 31.489 | 30.190 | 28.971 | 28.395 | 27.809 | 28.913 | 29.868 | 30.569 | 31.064 | 31.110 |
| 104 | 33.513 | 32.179 | 30.696 | 29.799 | 28.913 | 28.729 | 29.672 | 30.362 | 30.753 | 30.914 |
| 105 | 35.537 | 34.042 | 32.651 | 31.340 | 30.259 | 29.385 | 29.477 | 30.190 | 30.592 | 30.753 |
| 106 | 37.562 | 35.917 | 34.606 | 33.007 | 31.616 | 30.696 | 29.879 | 30.029 | 30.431 | 30.615 |
| 107 | 39.643 | 37.849 | 36.331 | 34.755 | 33.099 | 31.995 | 31.110 | 30.362 | 30.259 | 30.477 |
| 108 | 41.690 | 39.793 | 38.068 | 36.481 | 34.652 | 33.329 | 32.317 | 31.478 | 30.696 | 30.339 |
| 109 | 43.669 | 41.794 | 39.781 | 38.022 | 36.228 | 34.675 | 33.536 | 32.582 | 31.708 | 30.983 |
| 110 | 45.647 | 43.738 | 41.483 | 39.471 | 37.757 | 36.090 | 34.778 | 33.674 | 32.708 | 31.880 |
| 111 | 47.521 | 45.543 | 43.116 | 40.897 | 39.114 | 37.493 | 36.032 | 34.801 | 33.697 | 32.789 |
| 112 | 49.327 | 47.211 | 44.669 | 42.254 | 40.379 | 38.884 | 37.297 | 35.940 | 34.721 | 33.686 |
| 113 | 50.327 | 48.729 | 46.118 | 43.554 | 41.633 | 40.046 | 38.539 | 37.079 | 35.744 | 34.606 |
| 114 | 51.179 | 50.086 | 47.475 | 44.865 | 42.829 | 41.115 | 39.735 | 38.206 | 36.791 | 35.526 |
| 115 | 51.926 | 51.386 | 48.855 | 46.118 | 43.979 | 42.185 | 40.690 | 39.321 | 37.838 | 36.458 |
| 116 | 52.628 | 52.674 | 50.201 | 47.337 | 45.106 | 43.243 | 41.598 | 40.207 | 38.884 | 37.389 |
| 117 | 53.249 | 53.732 | 51.374 | 48.591 | 46.222 | 44.290 | 42.472 | 41.000 | 39.793 | 38.298 |
| 118 | 53.801 | 54.192 | 52.444 | 49.879 | 47.326 | 45.279 | 43.370 | 41.782 | 40.494 | 39.103 |
| 119 | 54.284 | 54.617 | 53.479 | 51.144 | 48.476 | 46.256 | 44.244 | 42.576 | 41.184 | 39.724 |
| 120 | 54.882 | 55.089 | 54.548 | 52.271 | 49.660 | 47.199 | 45.141 | 43.427 | 41.863 | 40.356 |
| 121 | 55.480 | 55.687 | 55.480 | 53.329 | 50.788 | 48.177 | 46.061 | 44.278 | 42.576 | 40.977 |
| 122 | 55.986 | 56.250 | 55.951 | 54.295 | 51.857 | 49.223 | 46.981 | 45.175 | 43.301 | 41.633 |
| 123 | 56.457 | 56.837 | 56.446 | 55.192 | 52.812 | 50.293 | 47.947 | 46.038 | 44.094 | 42.300 |
| 124 | 56.871 | 57.435 | 56.952 | 56.066 | 53.732 | 51.374 | 49.039 | 46.877 | 44.922 | 43.024 |
| 125 | 57.182 | 58.010 | 57.435 | 56.641 | 54.594 | 52.409 | 50.132 | 47.774 | 45.727 | 43.749 |
| 126 | 57.469 | 58.482 | 57.872 | 57.067 | 55.491 | 53.433 | 51.202 | 48.786 | 46.532 | 44.474 |
| 127 | 57.723 | 58.643 | 58.252 | 57.527 | 56.434 | 54.387 | 52.202 | 49.798 | 47.533 | 45.175 |
| 128 | 57.838 | 58.758 | 58.689 | 57.999 | 57.182 | 55.330 | 53.168 | 50.811 | 48.522 | 46.084 |
| 129 | 57.849 | 58.804 | 59.218 | 58.516 | 57.734 | 56.273 | 54.077 | 51.834 | 49.499 | 47.061 |
| 130 | 57.849 | 58.815 | 59.781 | 59.114 | 58.298 | 57.182 | 54.997 | 52.812 | 50.443 | 48.050 |
| 131 | 57.861 | 58.815 | 60.333 | 59.758 | 58.884 | 57.780 | 55.928 | 53.755 | 51.363 | 49.074 |
| 132 | 57.861 | 58.873 | 60.425 | 60.425 | 59.482 | 58.332 | 56.883 | 54.675 | 52.283 | 50.132 |
| 133 | 57.838 | 58.965 | 60.437 | 61.069 | 60.069 | 58.907 | 57.596 | 55.583 | 53.191 | 51.213 |
| 134 | 57.941 | 59.057 | 60.483 | 61.667 | 60.667 | 59.459 | 58.125 | 56.469 | 54.157 | 52.340 |
| 135 | 58.229 | 59.103 | 60.506 | 62.104 | 61.242 | 60.000 | 58.643 | 57.055 | 55.146 | 53.479 |
| 136 | 58.516 | 59.057 | 60.471 | 61.955 | 61.851 | 60.529 | 59.137 | 57.550 | 56.135 | 54.629 |
| 137 | 58.735 | 58.976 | 60.345 | 61.771 | 62.449 | 61.058 | 59.609 | 58.079 | 56.802 | 55.790 |
| 138 | 58.884 | 58.884 | 60.161 | 61.541 | 62.990 | 61.587 | 60.069 | 58.620 | 57.469 | 56.595 |
| 139 | 59.011 | 58.723 | 59.965 | 61.265 | 62.622 | 62.081 | 60.529 | 59.195 | 58.160 | 57.308 |
| 140 | 59.114 | 58.746 | 59.712 | 60.943 | 62.150 | 62.553 | 61.012 | 59.793 | 58.861 | 58.010 |
| 141 | 59.195 | 58.792 | 59.379 | 60.529 | 61.621 | 62.714 | 61.529 | 60.437 | 59.563 | 58.712 |
| 142 | 59.218 | 58.804 | 58.988 | 60.046 | 61.081 | 62.093 | 62.093 | 61.104 | 60.264 | 59.402 |
| 143 | 59.172 | 58.712 | 58.516 | 59.505 | 60.494 | 61.472 | 62.702 | 61.771 | 60.954 | 60.092 |
| 144 | 59.080 | 58.574 | 58.010 | 58.907 | 59.885 | 60.908 | 62.185 | 62.461 | 61.644 | 60.793 |
| 145 | 58.907 | 58.390 | 57.815 | 58.275 | 59.275 | 60.379 | 61.656 | 62.944 | 62.323 | 61.518 |
| 146 | 58.689 | 58.171 | 57.562 | 57.631 | 58.700 | 59.873 | 61.127 | 62.369 | 63.013 | 62.254 |
| 147 | 58.436 | 57.918 | 57.308 | 57.044 | 58.171 | 59.379 | 60.609 | 61.771 | 62.748 | 62.990 |
| 148 | 58.160 | 57.619 | 57.078 | 56.664 | 57.654 | 58.884 | 60.057 | 61.138 | 62.070 | 63.024 |
| 149 | 57.826 | 57.366 | 56.940 | 56.641 | 57.170 | 58.378 | 59.494 | 60.483 | 61.380 | 62.323 |
| 150 | 57.562 | 57.182 | 56.837 | 56.607 | 56.687 | 57.872 | 58.884 | 59.816 | 60.701 | 61.598 |
| 151 | 57.366 | 57.032 | 56.802 | 56.607 | 56.480 | 57.320 | 58.275 | 59.149 | 60.034 | 60.862 |
| 152 | 57.193 | 56.963 | 56.768 | 56.618 | 56.503 | 56.733 | 57.631 | 58.493 | 59.356 | 60.103 |
| 153 | 57.113 | 56.929 | 56.768 | 56.641 | 56.503 | 56.239 | 56.952 | 57.838 | 58.654 | 59.321 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 154 | 57.055 | 56.894 | 56.779 | 56.641 | 56.434 | 56.181 | 56.296 | 57.182 | 57.941 | 58.539 |
| 155 | 57.009 | 56.917 | 56.779 | 56.584 | 56.342 | 56.101 | 55.917 | 56.503 | 57.216 | 57.734 |
| 156 | 56.998 | 56.906 | 56.722 | 56.503 | 56.262 | 56.020 | 55.917 | 55.813 | 56.469 | 56.917 |
| 157 | 56.940 | 56.825 | 56.618 | 56.388 | 56.158 | 55.986 | 55.894 | 55.744 | 55.687 | 56.089 |
| 158 | 56.825 | 56.676 | 56.503 | 56.273 | 56.066 | 55.974 | 55.871 | 55.698 | 55.457 | 55.215 |
| 159 | 56.653 | 56.538 | 56.342 | 56.147 | 56.043 | 55.951 | 55.813 | 55.641 | 55.376 | 54.997 |
| 160 | 56.480 | 56.342 | 56.216 | 56.089 | 56.009 | 55.905 | 55.756 | 55.549 | 55.284 | 54.870 |
| 161 | 56.285 | 56.193 | 56.135 | 56.066 | 55.974 | 55.848 | 55.687 | 55.457 | 55.169 | 54.732 |
| 162 | 56.135 | 56.101 | 56.078 | 56.020 | 55.917 | 55.779 | 55.583 | 55.353 | 55.020 | 54.606 |
| 163 | 56.055 | 56.032 | 55.997 | 55.951 | 55.836 | 55.675 | 55.468 | 55.215 | 54.859 | 54.491 |
| 164 | 55.963 | 55.951 | 55.905 | 55.848 | 55.733 | 55.549 | 55.342 | 55.054 | 54.709 | 54.399 |
| 165 | 55.871 | 55.848 | 55.790 | 55.710 | 55.572 | 55.411 | 55.192 | 54.870 | 54.560 | 54.330 |
| 166 | 55.744 | 55.698 | 55.618 | 55.514 | 55.399 | 55.250 | 54.985 | 54.698 | 54.422 | 54.284 |
| 167 | 55.560 | 55.503 | 55.422 | 55.319 | 55.192 | 55.008 | 54.790 | 54.525 | 54.330 | 54.261 |
| 168 | 55.342 | 55.284 | 55.204 | 55.089 | 54.939 | 54.744 | 54.560 | 54.387 | 54.261 | 54.261 |
| 169 | 55.089 | 55.031 | 54.939 | 54.801 | 54.663 | 54.514 | 54.364 | 54.261 | 54.238 | 54.261 |
| 170 | 54.790 | 54.721 | 54.629 | 54.525 | 54.410 | 54.307 | 54.226 | 54.180 | 54.203 | 54.238 |
| 171 | 54.468 | 54.422 | 54.353 | 54.284 | 54.215 | 54.169 | 54.134 | 54.146 | 54.180 | 54.203 |
| 172 | 54.203 | 54.180 | 54.146 | 54.123 | 54.088 | 54.077 | 54.100 | 54.123 | 54.146 | 54.169 |
| 173 | 54.031 | 54.031 | 54.008 | 54.019 | 54.031 | 54.042 | 54.077 | 54.088 | 54.111 | 54.169 |
| 174 | 53.939 | 53.950 | 53.962 | 53.985 | 54.008 | 54.031 | 54.042 | 54.065 | 54.111 | 54.180 |
| 175 | 53.916 | 53.939 | 53.950 | 53.973 | 53.985 | 53.996 | 54.042 | 54.088 | 54.134 | 54.192 |
| 176 | 53.904 | 53.916 | 53.939 | 53.973 | 54.008 | 54.042 | 54.077 | 54.123 | 54.169 | 54.226 |
| 177 | 53.973 | 53.996 | 54.019 | 54.042 | 54.077 | 54.100 | 54.134 | 54.180 | 54.226 | 54.284 |
| 178 | 54.088 | 54.111 | 54.134 | 54.157 | 54.180 | 54.203 | 54.238 | 54.272 | 54.307 | 54.353 |
| 179 | 54.284 | 54.295 | 54.307 | 54.318 | 54.341 | 54.353 | 54.376 | 54.387 | 54.410 | 54.433 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles **Horizontal Angles**

| | <u>250</u> | <u>255</u> | <u>260</u> | <u>265</u> | <u>270</u> | <u>275</u> | <u>280</u> | <u>285</u> | <u>290</u> | <u>295</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3224.790 | 3224.974 | 3225.192 | 3225.445 | 3225.721 | 3225.583 | 3225.457 | 3225.365 | 3225.296 | 3225.250 |
| 2 | 3221.788 | 3220.787 | 3221.029 | 3221.466 | 3221.961 | 3221.961 | 3222.007 | 3222.156 | 3223.076 | 3224.042 |
| 3 | 3221.339 | 3219.074 | 3217.176 | 3217.556 | 3218.200 | 3218.625 | 3219.131 | 3220.074 | 3221.397 | 3225.100 |
| 4 | 3226.515 | 3218.717 | 3215.152 | 3213.703 | 3214.439 | 3215.578 | 3216.452 | 3217.636 | 3222.524 | 3224.629 |
| 5 | 3234.634 | 3220.143 | 3211.633 | 3208.056 | 3208.873 | 3210.793 | 3211.725 | 3216.118 | 3219.568 | 3218.844 |
| 6 | 3245.618 | 3222.513 | 3208.804 | 3202.674 | 3203.306 | 3206.066 | 3207.216 | 3213.496 | 3214.025 | 3208.677 |
| 7 | 3258.142 | 3227.113 | 3205.871 | 3196.210 | 3195.923 | 3199.154 | 3202.651 | 3206.986 | 3202.984 | 3206.722 |
| 8 | 3263.846 | 3231.610 | 3202.812 | 3189.701 | 3188.551 | 3192.346 | 3197.567 | 3198.913 | 3197.337 | 3216.693 |
| 9 | 3265.721 | 3238.476 | 3200.811 | 3183.168 | 3181.167 | 3185.687 | 3191.564 | 3188.378 | 3197.970 | 3221.420 |
| 10 | 3261.282 | 3243.663 | 3200.638 | 3176.624 | 3173.795 | 3179.178 | 3184.134 | 3180.569 | 3205.825 | 3221.788 |
| 11 | 3252.024 | 3243.306 | 3199.844 | 3168.148 | 3162.674 | 3168.930 | 3173.841 | 3176.958 | 3205.445 | 3222.202 |
| 12 | 3237.682 | 3239.131 | 3200.028 | 3160.523 | 3151.564 | 3158.672 | 3162.835 | 3173.393 | 3199.752 | 3218.177 |
| 13 | 3216.647 | 3229.747 | 3200.891 | 3153.853 | 3140.443 | 3148.367 | 3151.357 | 3172.864 | 3194.865 | 3214.669 |
| 14 | 3187.194 | 3218.752 | 3201.156 | 3147.458 | 3129.322 | 3137.913 | 3140.431 | 3169.781 | 3190.540 | 3215.359 |
| 15 | 3155.831 | 3205.043 | 3196.153 | 3138.833 | 3116.694 | 3125.561 | 3129.966 | 3161.397 | 3186.515 | 3217.084 |
| 16 | 3126.665 | 3187.343 | 3187.723 | 3130.242 | 3104.077 | 3113.002 | 3121.248 | 3152.404 | 3177.947 | 3212.288 |
| 17 | 3096.234 | 3163.502 | 3176.981 | 3119.212 | 3089.943 | 3098.660 | 3112.059 | 3144.135 | 3172.829 | 3197.590 |
| 18 | 3063.077 | 3137.637 | 3164.215 | 3108.471 | 3075.808 | 3084.261 | 3104.227 | 3135.981 | 3167.872 | 3174.669 |
| 19 | 3024.515 | 3109.391 | 3149.908 | 3097.901 | 3061.674 | 3069.954 | 3096.751 | 3127.320 | 3161.305 | 3145.837 |
| 20 | 2991.323 | 3082.306 | 3136.073 | 3087.091 | 3047.539 | 3055.647 | 3088.436 | 3117.154 | 3147.550 | 3110.621 |
| 21 | 2961.594 | 3054.980 | 3117.464 | 3073.531 | 3028.724 | 3036.901 | 3074.359 | 3103.652 | 3129.448 | 3074.152 |
| 22 | 2932.186 | 3021.640 | 3094.394 | 3059.489 | 3009.920 | 3017.764 | 3056.223 | 3087.850 | 3104.997 | 3037.798 |
| 23 | 2902.181 | 2983.756 | 3069.908 | 3045.170 | 2991.105 | 2998.569 | 3037.683 | 3074.647 | 3076.314 | 2994.705 |
| 24 | 2872.106 | 2943.825 | 3043.560 | 3030.461 | 2972.290 | 2979.765 | 3019.983 | 3060.075 | 3044.331 | 2946.873 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 25 | 2836.178 | 2905.275 | 3017.189 | 3015.280 | 2954.291 | 2963.561 | 3005.366 | 3043.020 | 3009.460 | 2904.619 |
| 26 | 2800.801 | 2869.829 | 2991.784 | 2999.788 | 2936.292 | 2948.011 | 2990.909 | 3026.136 | 2976.970 | 2865.275 |
| 27 | 2769.312 | 2840.042 | 2968.080 | 2984.066 | 2919.110 | 2934.740 | 2977.488 | 3007.356 | 2946.321 | 2832.670 |
| 28 | 2755.074 | 2812.279 | 2944.251 | 2968.092 | 2901.928 | 2922.215 | 2964.906 | 2989.403 | 2908.575 | 2815.856 |
| 29 | 2751.336 | 2788.725 | 2920.525 | 2951.876 | 2884.746 | 2910.300 | 2951.784 | 2966.125 | 2868.104 | 2799.122 |
| 30 | 2756.374 | 2765.954 | 2896.925 | 2935.407 | 2867.575 | 2898.961 | 2938.132 | 2941.261 | 2826.701 | 2784.620 |
| 31 | 2758.237 | 2738.363 | 2859.570 | 2910.404 | 2839.685 | 2874.245 | 2914.786 | 2911.634 | 2787.748 | 2777.788 |
| 32 | 2750.865 | 2698.433 | 2813.981 | 2883.929 | 2811.796 | 2848.070 | 2886.390 | 2872.670 | 2748.013 | 2771.819 |
| 33 | 2724.735 | 2661.504 | 2767.023 | 2856.879 | 2783.907 | 2821.836 | 2857.983 | 2835.200 | 2718.927 | 2756.040 |
| 34 | 2692.889 | 2630.382 | 2719.801 | 2829.266 | 2756.017 | 2795.545 | 2829.427 | 2798.777 | 2693.142 | 2734.396 |
| 35 | 2657.409 | 2605.023 | 2674.384 | 2798.685 | 2725.644 | 2767.828 | 2798.950 | 2760.928 | 2663.896 | 2713.441 |
| 36 | 2618.502 | 2587.369 | 2630.394 | 2767.357 | 2695.281 | 2739.905 | 2767.161 | 2713.177 | 2636.811 | 2687.829 |
| 37 | 2573.925 | 2571.188 | 2587.852 | 2733.073 | 2662.435 | 2710.416 | 2733.844 | 2664.666 | 2616.581 | 2647.507 |
| 38 | 2522.367 | 2550.233 | 2550.785 | 2696.662 | 2629.600 | 2679.341 | 2698.962 | 2614.005 | 2596.076 | 2595.408 |
| 39 | 2462.218 | 2526.093 | 2515.248 | 2660.560 | 2596.754 | 2648.140 | 2664.080 | 2566.035 | 2570.946 | 2537.053 |
| 40 | 2403.805 | 2498.169 | 2481.171 | 2624.747 | 2563.908 | 2616.823 | 2629.221 | 2521.976 | 2540.906 | 2478.457 |
| 41 | 2350.131 | 2466.300 | 2441.562 | 2584.115 | 2523.954 | 2578.663 | 2590.302 | 2482.827 | 2509.728 | 2419.285 |
| 42 | 2300.930 | 2426.209 | 2396.479 | 2542.528 | 2484.000 | 2539.745 | 2548.232 | 2443.391 | 2473.937 | 2361.321 |
| 43 | 2253.547 | 2383.046 | 2352.880 | 2500.561 | 2444.046 | 2500.906 | 2506.588 | 2407.612 | 2430.165 | 2310.085 |
| 44 | 2208.844 | 2336.767 | 2310.741 | 2458.227 | 2404.093 | 2462.126 | 2465.357 | 2372.902 | 2381.195 | 2269.315 |
| 45 | 2165.612 | 2286.531 | 2271.074 | 2411.361 | 2361.528 | 2420.596 | 2421.850 | 2339.079 | 2329.406 | 2236.952 |
| 46 | 2128.533 | 2228.142 | 2233.823 | 2363.288 | 2318.952 | 2378.538 | 2375.755 | 2304.013 | 2273.432 | 2210.626 |
| 47 | 2092.248 | 2168.740 | 2195.825 | 2312.086 | 2273.766 | 2333.892 | 2326.957 | 2268.648 | 2217.032 | 2184.830 |
| 48 | 2054.974 | 2109.143 | 2156.055 | 2260.931 | 2228.567 | 2288.763 | 2275.479 | 2227.406 | 2165.106 | 2148.959 |
| 49 | 2017.263 | 2054.825 | 2115.411 | 2210.201 | 2183.381 | 2243.484 | 2222.691 | 2183.358 | 2116.239 | 2105.083 |
| 50 | 1978.218 | 2006.430 | 2074.629 | 2159.873 | 2138.194 | 2198.044 | 2168.901 | 2137.734 | 2069.730 | 2046.004 |
| 51 | 1935.999 | 1961.105 | 2004.957 | 2057.033 | 2034.940 | 2092.640 | 2081.794 | 2088.626 | 2027.142 | 1980.771 |
| 52 | 1877.494 | 1873.710 | 1912.997 | 1947.936 | 1931.674 | 1979.966 | 1970.547 | 1975.101 | 1974.595 | 1911.226 |
| 53 | 1783.889 | 1786.891 | 1820.312 | 1838.943 | 1828.420 | 1867.258 | 1861.071 | 1861.830 | 1878.495 | 1838.460 |
| 54 | 1692.297 | 1700.991 | 1726.328 | 1730.272 | 1725.166 | 1754.815 | 1752.860 | 1747.811 | 1778.081 | 1747.109 |
| 55 | 1603.879 | 1615.345 | 1612.711 | 1600.451 | 1596.656 | 1624.591 | 1631.814 | 1632.251 | 1672.274 | 1657.438 |
| 56 | 1509.514 | 1498.508 | 1485.593 | 1468.560 | 1468.146 | 1492.148 | 1501.751 | 1501.855 | 1555.242 | 1573.804 |
| 57 | 1395.783 | 1379.337 | 1340.223 | 1315.047 | 1314.380 | 1341.752 | 1358.716 | 1372.068 | 1423.810 | 1478.244 |
| 58 | 1270.355 | 1226.675 | 1183.041 | 1159.292 | 1160.615 | 1189.160 | 1206.986 | 1230.873 | 1285.789 | 1360.614 |
| 59 | 1122.524 | 1072.450 | 1026.136 | 1003.767 | 1006.861 | 1036.395 | 1056.187 | 1090.621 | 1137.337 | 1225.433 |
| 60 | 972.508 | 916.717 | 870.139 | 848.448 | 853.095 | 883.445 | 906.275 | 951.266 | 993.129 | 1072.772 |
| 61 | 819.501 | 778.351 | 791.474 | 804.768 | 820.605 | 837.833 | 829.300 | 827.540 | 853.727 | 923.158 |
| 62 | 722.480 | 746.425 | 759.800 | 772.900 | 788.127 | 803.687 | 796.097 | 793.521 | 769.714 | 777.753 |
| 63 | 689.059 | 715.166 | 728.587 | 741.204 | 755.637 | 769.783 | 762.469 | 759.225 | 740.341 | 708.150 |
| 64 | 656.719 | 684.528 | 697.811 | 709.668 | 723.147 | 736.120 | 728.449 | 724.677 | 709.438 | 681.135 |
| 65 | 625.459 | 649.623 | 651.900 | 655.925 | 665.011 | 678.559 | 678.881 | 685.413 | 676.339 | 651.486 |
| 66 | 584.275 | 599.019 | 598.111 | 600.123 | 606.874 | 618.766 | 621.319 | 630.037 | 629.197 | 619.123 |
| 67 | 537.030 | 543.010 | 529.152 | 521.722 | 523.091 | 535.259 | 547.841 | 568.945 | 574.902 | 573.522 |
| 68 | 478.479 | 472.039 | 452.993 | 441.320 | 439.296 | 449.750 | 466.610 | 492.234 | 509.221 | 526.035 |
| 69 | 415.455 | 401.056 | 376.973 | 360.907 | 355.513 | 364.322 | 385.254 | 415.420 | 440.481 | 465.414 |
| 70 | 352.615 | 329.785 | 301.079 | 280.482 | 271.718 | 278.986 | 303.759 | 338.434 | 372.729 | 405.254 |
| 71 | 289.912 | 279.952 | 270.936 | 263.886 | 260.171 | 262.310 | 271.936 | 285.185 | 305.852 | 345.956 |
| 72 | 270.533 | 266.497 | 258.561 | 252.098 | 248.624 | 250.798 | 259.527 | 271.614 | 285.036 | 298.515 |
| 73 | 257.319 | 253.167 | 246.163 | 240.298 | 237.089 | 239.309 | 247.164 | 258.066 | 270.372 | 283.345 |
| 74 | 244.208 | 239.941 | 233.823 | 228.486 | 225.542 | 227.819 | 234.823 | 244.530 | 255.663 | 267.831 |
| 75 | 231.247 | 227.428 | 222.230 | 217.365 | 214.662 | 216.963 | 223.369 | 231.845 | 241.091 | 251.948 |
| 76 | 219.355 | 215.605 | 210.879 | 206.301 | 203.783 | 206.140 | 212.178 | 220.056 | 228.578 | 237.469 |
| 77 | 207.681 | 204.496 | 200.275 | 195.939 | 193.581 | 195.951 | 201.885 | 209.188 | 216.457 | 224.047 |
| 78 | 196.917 | 193.938 | 189.844 | 185.623 | 183.369 | 185.795 | 191.822 | 199.113 | 206.186 | 212.454 |
| 79 | 186.140 | 183.380 | 179.412 | 175.295 | 173.156 | 175.629 | 181.759 | 189.016 | 195.870 | 201.471 |
| 80 | 175.353 | 172.811 | 168.970 | 164.967 | 162.955 | 165.474 | 171.684 | 178.918 | 185.531 | 190.407 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 81 | 164.024 | 161.230 | 156.319 | 150.775 | 147.705 | 150.729 | 158.757 | 167.544 | 174.375 | 179.102 |
| 82 | 151.926 | 149.142 | 143.288 | 136.434 | 132.466 | 135.801 | 145.347 | 155.525 | 162.058 | 165.428 |
| 83 | 139.815 | 137.055 | 130.258 | 122.092 | 117.228 | 120.885 | 131.949 | 143.518 | 149.717 | 151.719 |
| 84 | 127.693 | 124.979 | 117.239 | 107.751 | 101.978 | 105.968 | 118.550 | 131.523 | 137.343 | 137.998 |
| 85 | 116.296 | 113.892 | 105.635 | 94.617 | 87.924 | 92.524 | 106.532 | 120.137 | 125.508 | 124.899 |
| 86 | 105.290 | 103.047 | 94.169 | 81.529 | 73.870 | 79.126 | 94.640 | 108.924 | 113.950 | 112.604 |
| 87 | 95.135 | 93.283 | 84.163 | 69.637 | 61.000 | 67.211 | 84.163 | 98.378 | 103.036 | 101.219 |
| 88 | 85.267 | 83.668 | 74.238 | 57.780 | 48.131 | 55.319 | 73.766 | 87.924 | 92.328 | 90.373 |
| 89 | 75.388 | 74.054 | 64.324 | 45.911 | 35.261 | 43.427 | 63.358 | 77.458 | 81.621 | 79.551 |
| 90 | 65.509 | 64.427 | 54.387 | 34.042 | 22.392 | 31.535 | 52.950 | 66.992 | 70.902 | 68.717 |
| 91 | 60.494 | 59.218 | 49.913 | 32.329 | 22.289 | 29.994 | 48.384 | 61.035 | 65.049 | 63.427 |
| 92 | 55.480 | 53.996 | 45.428 | 30.604 | 22.185 | 28.441 | 43.807 | 55.054 | 59.183 | 58.125 |
| 93 | 50.466 | 48.775 | 40.943 | 28.890 | 22.082 | 26.889 | 39.229 | 49.085 | 53.318 | 52.835 |
| 94 | 45.762 | 43.749 | 36.561 | 27.176 | 21.978 | 25.359 | 34.767 | 43.370 | 47.809 | 48.016 |
| 95 | 42.047 | 40.034 | 33.743 | 26.268 | 22.151 | 24.635 | 32.018 | 39.333 | 43.485 | 43.979 |
| 96 | 38.792 | 36.619 | 31.064 | 25.371 | 22.312 | 23.933 | 29.442 | 35.687 | 39.701 | 40.644 |
| 97 | 36.377 | 34.433 | 29.902 | 25.256 | 22.737 | 24.037 | 28.522 | 33.605 | 36.906 | 37.872 |
| 98 | 33.950 | 32.237 | 28.752 | 25.152 | 23.163 | 24.140 | 27.613 | 31.524 | 34.123 | 35.089 |
| 99 | 31.512 | 30.063 | 27.602 | 25.049 | 23.588 | 24.255 | 26.716 | 29.454 | 31.340 | 32.306 |
| 100 | 30.546 | 28.740 | 26.739 | 24.980 | 24.025 | 24.393 | 26.084 | 28.234 | 30.247 | 31.811 |
| 101 | 30.604 | 29.132 | 27.452 | 25.946 | 25.129 | 25.440 | 26.854 | 28.671 | 30.316 | 31.524 |
| 102 | 30.661 | 29.534 | 28.165 | 26.923 | 26.233 | 26.475 | 27.636 | 29.109 | 30.408 | 31.236 |
| 103 | 30.730 | 29.937 | 28.890 | 27.889 | 27.337 | 27.521 | 28.418 | 29.557 | 30.500 | 30.983 |
| 104 | 30.719 | 30.224 | 29.523 | 28.833 | 28.430 | 28.533 | 29.120 | 29.879 | 30.500 | 30.776 |
| 105 | 30.696 | 30.385 | 29.845 | 29.293 | 28.982 | 29.051 | 29.500 | 30.063 | 30.477 | 30.592 |
| 106 | 30.581 | 30.408 | 30.075 | 29.730 | 29.523 | 29.523 | 29.787 | 30.121 | 30.351 | 30.431 |
| 107 | 30.454 | 30.305 | 29.983 | 29.695 | 29.500 | 29.511 | 29.741 | 30.029 | 30.213 | 30.259 |
| 108 | 30.328 | 30.201 | 29.902 | 29.649 | 29.488 | 29.488 | 29.707 | 29.948 | 30.086 | 30.098 |
| 109 | 30.316 | 30.109 | 29.822 | 29.615 | 29.465 | 29.465 | 29.661 | 29.868 | 30.075 | 30.811 |
| 110 | 31.121 | 30.535 | 29.937 | 29.615 | 29.454 | 29.500 | 29.845 | 30.362 | 30.995 | 31.811 |
| 111 | 31.926 | 31.248 | 30.592 | 30.236 | 30.075 | 30.178 | 30.604 | 31.190 | 31.915 | 32.823 |
| 112 | 32.720 | 31.972 | 31.248 | 30.857 | 30.707 | 30.868 | 31.351 | 32.018 | 32.823 | 33.824 |
| 113 | 33.525 | 32.685 | 31.903 | 31.478 | 31.328 | 31.547 | 32.110 | 32.846 | 33.755 | 34.859 |
| 114 | 34.364 | 33.410 | 32.570 | 32.099 | 31.949 | 32.225 | 32.881 | 33.697 | 34.709 | 35.905 |
| 115 | 35.215 | 34.134 | 33.283 | 32.789 | 32.639 | 32.973 | 33.674 | 34.571 | 35.687 | 36.987 |
| 116 | 36.078 | 34.882 | 34.008 | 33.479 | 33.318 | 33.709 | 34.502 | 35.480 | 36.699 | 38.068 |
| 117 | 36.941 | 35.629 | 34.778 | 34.238 | 34.054 | 34.502 | 35.342 | 36.389 | 37.700 | 39.149 |
| 118 | 37.792 | 36.389 | 35.549 | 34.985 | 34.790 | 35.296 | 36.193 | 37.286 | 38.689 | 40.115 |
| 119 | 38.470 | 37.136 | 36.308 | 35.733 | 35.526 | 36.090 | 37.033 | 38.194 | 39.494 | 40.897 |
| 120 | 38.976 | 37.688 | 36.964 | 36.458 | 36.262 | 36.849 | 37.780 | 38.873 | 40.126 | 41.667 |
| 121 | 39.482 | 38.206 | 37.447 | 36.929 | 36.757 | 37.366 | 38.355 | 39.505 | 40.770 | 42.426 |
| 122 | 39.954 | 38.723 | 37.930 | 37.412 | 37.240 | 37.872 | 38.942 | 40.149 | 41.414 | 43.209 |
| 123 | 40.517 | 39.241 | 38.413 | 37.884 | 37.734 | 38.390 | 39.517 | 40.782 | 42.139 | 44.002 |
| 124 | 41.127 | 39.908 | 38.976 | 38.378 | 38.217 | 38.919 | 40.161 | 41.529 | 42.921 | 44.830 |
| 125 | 41.840 | 40.586 | 39.632 | 39.022 | 38.884 | 39.609 | 40.908 | 42.300 | 43.795 | 45.670 |
| 126 | 42.599 | 41.403 | 40.368 | 39.701 | 39.551 | 40.310 | 41.713 | 43.186 | 44.715 | 46.498 |
| 127 | 43.381 | 42.231 | 41.219 | 40.540 | 40.402 | 41.184 | 42.599 | 44.071 | 45.624 | 47.349 |
| 128 | 44.186 | 43.047 | 42.070 | 41.368 | 41.242 | 42.047 | 43.496 | 44.957 | 46.532 | 48.395 |
| 129 | 45.221 | 43.864 | 42.921 | 42.208 | 42.093 | 42.921 | 44.382 | 45.831 | 47.636 | 49.534 |
| 130 | 46.360 | 44.991 | 43.933 | 43.082 | 42.932 | 43.818 | 45.394 | 46.981 | 48.809 | 50.673 |
| 131 | 47.498 | 46.118 | 45.129 | 44.290 | 44.175 | 45.026 | 46.578 | 48.142 | 49.982 | 51.823 |
| 132 | 48.637 | 47.257 | 46.314 | 45.497 | 45.417 | 46.222 | 47.763 | 49.292 | 51.167 | 53.007 |
| 133 | 49.787 | 48.395 | 47.510 | 46.705 | 46.659 | 47.418 | 48.936 | 50.466 | 52.363 | 54.203 |
| 134 | 50.937 | 49.591 | 48.706 | 47.924 | 47.889 | 48.625 | 50.143 | 51.696 | 53.559 | 55.411 |
| 135 | 52.099 | 50.788 | 49.925 | 49.166 | 49.154 | 49.867 | 51.363 | 52.927 | 54.778 | 56.618 |
| 136 | 53.272 | 52.018 | 51.156 | 50.408 | 50.408 | 51.110 | 52.605 | 54.192 | 56.009 | 57.826 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 137 | 54.433 | 53.249 | 52.409 | 51.673 | 51.673 | 52.386 | 53.881 | 55.457 | 57.239 | 59.034 |
| 138 | 55.583 | 54.491 | 53.651 | 52.950 | 52.950 | 53.663 | 55.146 | 56.722 | 58.459 | 59.908 |
| 139 | 56.400 | 55.733 | 54.905 | 54.215 | 54.215 | 54.939 | 56.423 | 57.976 | 59.333 | 60.690 |
| 140 | 57.124 | 56.515 | 55.917 | 55.422 | 55.491 | 56.158 | 57.458 | 58.758 | 60.103 | 61.460 |
| 141 | 57.872 | 57.274 | 56.641 | 56.181 | 56.250 | 56.906 | 58.206 | 59.517 | 60.874 | 62.231 |
| 142 | 58.631 | 58.033 | 57.354 | 56.940 | 57.009 | 57.654 | 58.942 | 60.276 | 61.633 | 63.001 |
| 143 | 59.390 | 58.792 | 58.079 | 57.688 | 57.757 | 58.413 | 59.678 | 61.023 | 62.380 | 63.760 |
| 144 | 60.149 | 59.551 | 58.804 | 58.447 | 58.516 | 59.160 | 60.391 | 61.759 | 63.128 | 64.531 |
| 145 | 60.908 | 60.310 | 59.528 | 59.206 | 59.275 | 59.908 | 61.104 | 62.484 | 63.875 | 65.290 |
| 146 | 61.656 | 61.046 | 60.241 | 59.965 | 60.034 | 60.667 | 61.805 | 63.220 | 64.611 | 66.038 |
| 147 | 62.403 | 61.782 | 60.966 | 60.713 | 60.793 | 61.414 | 62.507 | 63.944 | 65.336 | 66.785 |
| 148 | 63.151 | 62.507 | 61.702 | 61.472 | 61.552 | 62.162 | 63.208 | 64.669 | 66.049 | 66.797 |
| 149 | 63.024 | 63.231 | 62.426 | 62.219 | 62.300 | 62.909 | 63.910 | 65.382 | 65.911 | 66.107 |
| 150 | 62.231 | 62.553 | 62.553 | 62.829 | 63.059 | 63.507 | 64.013 | 64.761 | 65.118 | 65.382 |
| 151 | 61.426 | 61.644 | 61.702 | 61.966 | 62.219 | 62.668 | 63.185 | 63.921 | 64.324 | 64.623 |
| 152 | 60.598 | 60.736 | 60.851 | 61.104 | 61.380 | 61.828 | 62.346 | 63.082 | 63.507 | 63.829 |
| 153 | 59.747 | 59.839 | 60.000 | 60.253 | 60.540 | 60.989 | 61.495 | 62.219 | 62.691 | 63.024 |
| 154 | 58.884 | 58.942 | 59.149 | 59.390 | 59.701 | 60.149 | 60.655 | 61.345 | 61.840 | 62.196 |
| 155 | 58.010 | 58.056 | 58.298 | 58.528 | 58.861 | 59.310 | 59.816 | 60.471 | 60.989 | 61.368 |
| 156 | 57.113 | 57.182 | 57.446 | 57.677 | 58.010 | 58.459 | 58.965 | 59.586 | 60.126 | 60.517 |
| 157 | 56.204 | 56.308 | 56.595 | 56.814 | 57.170 | 57.619 | 58.114 | 58.689 | 59.252 | 59.655 |
| 158 | 55.284 | 55.445 | 55.744 | 55.963 | 56.331 | 56.768 | 57.262 | 57.803 | 58.367 | 58.769 |
| 159 | 54.514 | 54.594 | 54.893 | 55.112 | 55.491 | 55.917 | 56.411 | 56.917 | 57.608 | 58.528 |
| 160 | 54.433 | 54.284 | 54.284 | 54.330 | 54.652 | 55.135 | 55.779 | 56.538 | 57.469 | 58.367 |
| 161 | 54.376 | 54.284 | 54.284 | 54.341 | 54.663 | 55.123 | 55.744 | 56.446 | 57.331 | 58.194 |
| 162 | 54.330 | 54.284 | 54.284 | 54.364 | 54.675 | 55.112 | 55.698 | 56.354 | 57.170 | 58.033 |
| 163 | 54.295 | 54.284 | 54.295 | 54.387 | 54.686 | 55.100 | 55.652 | 56.262 | 57.021 | 57.849 |
| 164 | 54.272 | 54.272 | 54.307 | 54.410 | 54.698 | 55.089 | 55.606 | 56.170 | 56.860 | 57.654 |
| 165 | 54.272 | 54.284 | 54.318 | 54.433 | 54.709 | 55.089 | 55.549 | 56.078 | 56.710 | 57.446 |
| 166 | 54.272 | 54.284 | 54.330 | 54.468 | 54.721 | 55.077 | 55.503 | 55.997 | 56.561 | 57.216 |
| 167 | 54.272 | 54.284 | 54.353 | 54.491 | 54.732 | 55.066 | 55.457 | 55.917 | 56.411 | 57.009 |
| 168 | 54.272 | 54.295 | 54.376 | 54.514 | 54.744 | 55.054 | 55.411 | 55.825 | 56.262 | 56.802 |
| 169 | 54.272 | 54.318 | 54.399 | 54.548 | 54.755 | 55.054 | 55.365 | 55.733 | 56.135 | 56.595 |
| 170 | 54.261 | 54.330 | 54.422 | 54.571 | 54.767 | 55.043 | 55.307 | 55.629 | 55.997 | 56.365 |
| 171 | 54.238 | 54.318 | 54.410 | 54.560 | 54.744 | 54.997 | 55.238 | 55.514 | 55.836 | 56.158 |
| 172 | 54.238 | 54.307 | 54.410 | 54.548 | 54.732 | 54.939 | 55.158 | 55.399 | 55.675 | 55.963 |
| 173 | 54.238 | 54.307 | 54.410 | 54.548 | 54.709 | 54.893 | 55.089 | 55.296 | 55.514 | 55.756 |
| 174 | 54.238 | 54.318 | 54.422 | 54.537 | 54.686 | 54.847 | 55.008 | 55.181 | 55.365 | 55.560 |
| 175 | 54.261 | 54.330 | 54.433 | 54.537 | 54.663 | 54.801 | 54.939 | 55.077 | 55.227 | 55.376 |
| 176 | 54.284 | 54.364 | 54.445 | 54.537 | 54.640 | 54.744 | 54.859 | 54.974 | 55.089 | 55.204 |
| 177 | 54.330 | 54.399 | 54.456 | 54.537 | 54.617 | 54.698 | 54.778 | 54.870 | 54.951 | 55.031 |
| 178 | 54.387 | 54.433 | 54.491 | 54.548 | 54.594 | 54.652 | 54.709 | 54.755 | 54.813 | 54.870 |
| 179 | 54.468 | 54.491 | 54.514 | 54.548 | 54.571 | 54.606 | 54.629 | 54.652 | 54.686 | 54.709 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Angles **Horizontal Angles**

| | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3225.215 | 3225.802 | 3226.400 | 3226.998 | 3227.596 | 3228.171 | 3228.746 | 3229.287 | 3229.804 | 3230.287 |
| 2 | 3225.066 | 3227.481 | 3229.827 | 3232.093 | 3233.611 | 3233.473 | 3233.392 | 3233.358 | 3233.404 | 3233.519 |
| 3 | 3228.757 | 3228.539 | 3228.286 | 3226.756 | 3224.732 | 3223.019 | 3224.560 | 3227.274 | 3229.873 | 3232.288 |
| 4 | 3224.755 | 3220.937 | 3219.189 | 3222.743 | 3228.274 | 3237.786 | 3246.377 | 3251.713 | 3255.807 | 3259.281 |
| 5 | 3214.117 | 3217.786 | 3228.332 | 3241.753 | 3249.689 | 3255.393 | 3258.165 | 3261.017 | 3264.847 | 3268.113 |
| 6 | 3213.082 | 3231.851 | 3243.881 | 3250.678 | 3255.543 | 3261.914 | 3268.378 | 3274.933 | 3283.145 | 3291.011 |
| 7 | 3228.228 | 3241.155 | 3246.986 | 3255.888 | 3264.697 | 3277.199 | 3290.724 | 3302.823 | 3311.253 | 3315.071 |

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8 | 3233.105 | 3241.903 | 3252.794 | 3265.618 | 3283.996 | 3300.683 | 3308.240 | 3303.915 | 3297.647 | 3292.656 |
| 9 | 3233.323 | 3245.192 | 3262.087 | 3284.674 | 3297.164 | 3291.609 | 3282.351 | 3272.564 | 3261.466 | 3249.045 |
| 10 | 3234.496 | 3252.265 | 3277.946 | 3286.112 | 3274.381 | 3261.029 | 3242.271 | 3220.902 | 3199.626 | 3178.257 |
| 11 | 3236.958 | 3264.870 | 3274.611 | 3259.361 | 3239.798 | 3212.599 | 3182.915 | 3146.711 | 3120.868 | 3104.422 |
| 12 | 3243.916 | 3264.559 | 3249.229 | 3224.387 | 3188.413 | 3145.434 | 3107.263 | 3087.068 | 3078.615 | 3072.864 |
| 13 | 3249.194 | 3242.995 | 3217.809 | 3175.980 | 3121.306 | 3081.662 | 3066.010 | 3058.063 | 3053.830 | 3052.025 |
| 14 | 3239.557 | 3218.591 | 3175.129 | 3113.554 | 3067.735 | 3047.643 | 3040.938 | 3039.443 | 3037.005 | 3036.867 |
| 15 | 3218.418 | 3182.421 | 3123.652 | 3059.753 | 3034.451 | 3028.218 | 3022.353 | 3025.320 | 3039.006 | 3055.728 |
| 16 | 3195.060 | 3141.202 | 3066.803 | 3025.803 | 3016.004 | 3008.552 | 3020.559 | 3043.951 | 3072.197 | 3100.892 |
| 17 | 3161.202 | 3095.302 | 3025.849 | 3001.329 | 2995.107 | 3012.853 | 3045.021 | 3081.007 | 3101.352 | 3104.744 |
| 18 | 3122.628 | 3041.674 | 2992.232 | 2987.655 | 2993.796 | 3034.417 | 3076.441 | 3084.825 | 3081.352 | 3060.742 |
| 19 | 3080.225 | 2999.236 | 2973.808 | 2972.094 | 3007.839 | 3059.063 | 3068.172 | 3043.457 | 3000.087 | 2958.949 |
| 20 | 3029.288 | 2964.044 | 2957.822 | 2979.121 | 3030.334 | 3050.150 | 3014.486 | 2950.599 | 2900.881 | 2877.098 |
| 21 | 2981.985 | 2943.365 | 2946.378 | 2991.151 | 3034.659 | 3005.297 | 2923.756 | 2863.998 | 2843.596 | 2828.380 |
| 22 | 2942.342 | 2924.538 | 2949.794 | 3006.252 | 3003.813 | 2920.168 | 2845.815 | 2814.855 | 2786.218 | 2766.885 |
| 23 | 2910.668 | 2910.530 | 2957.753 | 2996.361 | 2933.440 | 2841.825 | 2796.270 | 2758.398 | 2730.198 | 2730.014 |
| 24 | 2891.405 | 2912.083 | 2967.448 | 2948.897 | 2852.336 | 2791.969 | 2741.469 | 2710.336 | 2722.596 | 2752.107 |
| 25 | 2871.899 | 2907.437 | 2958.385 | 2875.142 | 2788.012 | 2734.844 | 2693.085 | 2713.016 | 2765.643 | 2807.334 |
| 26 | 2852.451 | 2908.426 | 2913.601 | 2801.744 | 2733.936 | 2686.886 | 2694.085 | 2756.742 | 2806.724 | 2820.939 |
| 27 | 2847.000 | 2906.448 | 2846.735 | 2746.115 | 2682.573 | 2668.669 | 2727.955 | 2786.287 | 2781.077 | 2734.890 |
| 28 | 2841.974 | 2887.644 | 2777.087 | 2688.944 | 2642.182 | 2689.393 | 2760.019 | 2751.647 | 2675.063 | 2614.155 |
| 29 | 2835.798 | 2841.675 | 2720.572 | 2644.448 | 2643.746 | 2720.480 | 2734.614 | 2652.590 | 2563.011 | 2509.762 |
| 30 | 2832.152 | 2782.446 | 2664.436 | 2604.126 | 2669.750 | 2714.787 | 2647.128 | 2544.713 | 2464.184 | 2428.210 |
| 31 | 2823.170 | 2720.664 | 2616.294 | 2597.927 | 2683.988 | 2651.003 | 2536.685 | 2447.888 | 2396.203 | 2388.969 |
| 32 | 2793.728 | 2664.574 | 2576.892 | 2612.591 | 2661.504 | 2551.521 | 2439.285 | 2382.655 | 2371.683 | 2395.996 |
| 33 | 2745.931 | 2613.085 | 2551.843 | 2627.875 | 2590.774 | 2447.451 | 2367.440 | 2354.248 | 2382.805 | 2418.434 |
| 34 | 2689.934 | 2567.070 | 2557.490 | 2610.659 | 2499.170 | 2366.842 | 2333.558 | 2358.757 | 2396.272 | 2379.239 |
| 35 | 2630.589 | 2528.784 | 2572.200 | 2557.226 | 2402.322 | 2311.396 | 2331.454 | 2368.153 | 2348.521 | 2291.695 |
| 36 | 2571.487 | 2500.918 | 2571.349 | 2476.973 | 2325.991 | 2294.433 | 2341.643 | 2323.392 | 2261.621 | 2192.305 |
| 37 | 2512.384 | 2491.890 | 2540.308 | 2384.610 | 2275.364 | 2293.973 | 2314.674 | 2232.765 | 2162.449 | 2114.629 |
| 38 | 2462.954 | 2486.933 | 2473.811 | 2305.841 | 2258.090 | 2291.937 | 2232.075 | 2139.873 | 2092.755 | 2083.968 |
| 39 | 2422.482 | 2476.801 | 2390.441 | 2248.464 | 2255.755 | 2254.065 | 2135.112 | 2070.224 | 2066.855 | 2074.192 |
| 40 | 2391.327 | 2443.736 | 2303.231 | 2222.127 | 2248.970 | 2168.786 | 2059.437 | 2045.210 | 2044.440 | 2016.010 |
| 41 | 2373.420 | 2387.393 | 2222.990 | 2210.707 | 2211.604 | 2077.125 | 2020.679 | 2018.413 | 1985.406 | 1931.283 |
| 42 | 2360.654 | 2316.491 | 2166.843 | 2191.972 | 2132.352 | 2018.218 | 1996.309 | 1961.496 | 1901.611 | 1862.301 |
| 43 | 2341.252 | 2236.848 | 2135.837 | 2160.161 | 2038.459 | 1985.234 | 1952.272 | 1886.131 | 1834.378 | 1820.795 |
| 44 | 2307.923 | 2156.929 | 2120.402 | 2097.757 | 1974.986 | 1951.398 | 1891.145 | 1815.919 | 1800.220 | 1808.880 |
| 45 | 2248.176 | 2087.188 | 2094.399 | 2009.972 | 1934.538 | 1905.798 | 1825.522 | 1774.895 | 1775.712 | 1769.916 |
| 46 | 2180.345 | 2044.026 | 2054.733 | 1935.895 | 1892.767 | 1845.372 | 1770.732 | 1751.767 | 1724.234 | 1643.338 |
| 47 | 2106.900 | 2020.840 | 1990.489 | 1877.747 | 1843.647 | 1779.967 | 1738.047 | 1703.878 | 1603.533 | 1561.015 |
| 48 | 2035.182 | 1993.790 | 1908.592 | 1831.238 | 1792.216 | 1721.428 | 1692.780 | 1608.663 | 1541.211 | 1557.875 |
| 49 | 1973.434 | 1955.343 | 1839.587 | 1785.591 | 1729.870 | 1679.692 | 1621.509 | 1540.118 | 1542.418 | 1554.736 |
| 50 | 1919.403 | 1904.705 | 1781.014 | 1742.153 | 1674.102 | 1617.369 | 1547.421 | 1516.587 | 1518.244 | 1470.550 |
| 51 | 1882.554 | 1839.806 | 1733.838 | 1689.157 | 1615.782 | 1555.564 | 1508.169 | 1490.515 | 1430.515 | 1341.292 |
| 52 | 1847.201 | 1771.031 | 1686.247 | 1628.203 | 1545.776 | 1498.543 | 1472.091 | 1421.407 | 1317.037 | 1297.509 |
| 53 | 1808.420 | 1705.534 | 1640.992 | 1567.593 | 1494.655 | 1450.826 | 1412.540 | 1322.304 | 1279.234 | 1314.852 |
| 54 | 1762.452 | 1646.627 | 1595.759 | 1503.879 | 1450.193 | 1387.951 | 1331.471 | 1275.393 | 1284.501 | 1214.979 |
| 55 | 1657.886 | 1595.115 | 1541.648 | 1442.269 | 1399.854 | 1332.966 | 1258.429 | 1265.548 | 1196.980 | 1109.218 |
| 56 | 1558.634 | 1530.365 | 1477.968 | 1402.097 | 1334.070 | 1262.098 | 1215.359 | 1184.168 | 1107.297 | 1074.922 |
| 57 | 1470.860 | 1452.574 | 1405.892 | 1357.060 | 1273.495 | 1205.111 | 1172.541 | 1100.143 | 1059.281 | 1041.409 |
| 58 | 1383.190 | 1377.278 | 1330.666 | 1296.773 | 1215.692 | 1156.831 | 1092.380 | 1040.822 | 1023.468 | 968.609 |
| 59 | 1271.425 | 1302.880 | 1273.622 | 1232.851 | 1160.764 | 1104.560 | 1032.852 | 1002.513 | 955.072 | 906.493 |
| 60 | 1152.760 | 1206.054 | 1213.346 | 1168.815 | 1112.990 | 1041.386 | 973.750 | 937.925 | 890.576 | 849.691 |
| 61 | 1015.061 | 1100.259 | 1143.766 | 1109.425 | 1066.607 | 991.127 | 925.021 | 881.387 | 835.073 | 811.473 |
| 62 | 877.016 | 969.437 | 1043.088 | 1053.232 | 1018.430 | 935.636 | 866.413 | 824.849 | 773.981 | 741.135 |
| 63 | 741.779 | 840.996 | 932.508 | 987.528 | 974.693 | 881.042 | 826.298 | 753.590 | 716.661 | 671.704 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 64 | 666.977 | 711.623 | 808.207 | 904.687 | 920.294 | 826.022 | 778.696 | 689.128 | 663.930 | 628.703 |
| 65 | 636.328 | 611.578 | 685.390 | 811.427 | 865.458 | 794.809 | 720.479 | 649.588 | 593.269 | 575.638 |
| 66 | 605.126 | 580.618 | 564.011 | 701.802 | 787.241 | 768.368 | 653.866 | 604.103 | 546.460 | 517.260 |
| 67 | 575.212 | 551.958 | 528.715 | 586.920 | 696.948 | 730.197 | 610.715 | 532.970 | 488.082 | 457.973 |
| 68 | 533.752 | 526.162 | 506.817 | 489.313 | 591.003 | 669.634 | 599.801 | 489.520 | 433.879 | 414.339 |
| 69 | 490.038 | 491.418 | 485.541 | 462.585 | 487.852 | 604.586 | 565.069 | 459.503 | 399.158 | 381.919 |
| 70 | 435.271 | 454.305 | 457.651 | 438.422 | 408.600 | 508.634 | 549.106 | 415.604 | 365.035 | 355.432 |
| 71 | 381.597 | 407.220 | 424.874 | 417.916 | 389.348 | 409.647 | 505.656 | 393.178 | 341.884 | 334.811 |
| 72 | 328.210 | 360.688 | 385.012 | 390.004 | 370.636 | 337.663 | 430.256 | 401.792 | 321.505 | 314.397 |
| 73 | 293.443 | 314.708 | 344.897 | 358.836 | 347.083 | 316.042 | 350.820 | 408.600 | 302.977 | 294.317 |
| 74 | 277.388 | 286.358 | 306.048 | 325.059 | 321.528 | 296.100 | 282.736 | 384.725 | 279.780 | 275.444 |
| 75 | 261.344 | 269.487 | 278.503 | 291.580 | 294.121 | 277.365 | 264.380 | 316.283 | 289.797 | 257.181 |
| 76 | 245.301 | 252.615 | 258.848 | 263.621 | 267.900 | 258.170 | 245.519 | 254.731 | 300.516 | 238.113 |
| 77 | 230.948 | 235.996 | 239.205 | 242.264 | 243.127 | 237.779 | 227.037 | 223.691 | 276.778 | 218.297 |
| 78 | 216.940 | 220.148 | 220.298 | 220.758 | 221.919 | 218.745 | 210.660 | 204.875 | 227.739 | 204.105 |
| 79 | 204.277 | 204.887 | 202.506 | 200.585 | 201.034 | 199.205 | 193.892 | 186.934 | 184.668 | 202.748 |
| 80 | 191.523 | 190.166 | 186.347 | 181.908 | 181.023 | 179.781 | 176.652 | 169.982 | 166.808 | 190.741 |
| 81 | 178.676 | 175.422 | 170.591 | 165.784 | 162.587 | 160.873 | 157.595 | 153.329 | 149.131 | 154.858 |
| 82 | 164.565 | 160.643 | 154.858 | 149.729 | 146.106 | 143.104 | 139.367 | 136.238 | 131.293 | 127.394 |
| 83 | 149.890 | 145.681 | 139.792 | 133.881 | 129.614 | 126.371 | 122.507 | 119.183 | 113.823 | 111.017 |
| 84 | 135.203 | 130.718 | 125.094 | 119.355 | 114.053 | 109.683 | 106.727 | 102.771 | 98.021 | 94.364 |
| 85 | 120.919 | 115.779 | 110.442 | 104.864 | 99.551 | 95.008 | 91.121 | 86.843 | 82.553 | 78.228 |
| 86 | 108.165 | 102.794 | 97.113 | 90.983 | 85.094 | 80.989 | 77.193 | 71.615 | 67.625 | 63.220 |
| 87 | 96.319 | 90.603 | 84.818 | 78.907 | 72.961 | 68.154 | 63.427 | 58.459 | 53.835 | 48.809 |
| 88 | 85.520 | 79.965 | 74.548 | 68.844 | 62.714 | 57.446 | 52.421 | 46.889 | 41.564 | 36.607 |
| 89 | 74.732 | 69.350 | 64.312 | 59.206 | 53.617 | 48.476 | 44.175 | 38.436 | 32.973 | 27.383 |
| 90 | 63.956 | 58.758 | 54.100 | 49.603 | 44.543 | 39.528 | 35.998 | 30.822 | 26.153 | 21.921 |
| 91 | 59.252 | 54.525 | 50.143 | 45.911 | 41.288 | 36.665 | 33.088 | 28.591 | 24.255 | 20.391 |
| 92 | 54.560 | 50.304 | 46.187 | 42.242 | 38.033 | 33.824 | 30.190 | 26.613 | 22.772 | 19.632 |
| 93 | 49.867 | 46.084 | 42.254 | 38.769 | 35.238 | 31.650 | 28.303 | 25.532 | 22.139 | 19.379 |
| 94 | 45.808 | 42.714 | 39.425 | 36.262 | 33.191 | 30.282 | 27.418 | 24.899 | 21.875 | 19.436 |
| 95 | 42.288 | 39.747 | 37.159 | 34.617 | 32.053 | 29.339 | 26.578 | 24.646 | 21.932 | 19.747 |
| 96 | 39.689 | 37.849 | 35.606 | 33.260 | 30.937 | 28.545 | 26.325 | 24.520 | 22.128 | 20.690 |
| 97 | 37.320 | 35.940 | 34.054 | 31.903 | 30.167 | 28.223 | 26.095 | 24.405 | 22.346 | 22.162 |
| 98 | 34.939 | 34.019 | 32.754 | 31.271 | 29.684 | 27.901 | 25.969 | 24.347 | 23.462 | 24.221 |
| 99 | 33.122 | 33.042 | 32.076 | 30.707 | 29.212 | 27.671 | 25.934 | 24.612 | 24.819 | 26.222 |
| 100 | 32.536 | 32.329 | 31.397 | 30.144 | 28.844 | 27.475 | 25.934 | 25.946 | 26.693 | 28.200 |
| 101 | 31.961 | 31.627 | 30.753 | 29.718 | 28.533 | 27.314 | 26.912 | 27.510 | 28.833 | 30.351 |
| 102 | 31.397 | 31.029 | 30.282 | 29.373 | 28.269 | 27.464 | 28.338 | 29.511 | 31.248 | 32.708 |
| 103 | 30.983 | 30.581 | 29.948 | 29.109 | 28.004 | 28.959 | 29.914 | 31.719 | 33.686 | 35.503 |
| 104 | 30.638 | 30.328 | 29.707 | 28.856 | 29.281 | 30.512 | 31.811 | 33.835 | 35.894 | 38.229 |
| 105 | 30.466 | 30.132 | 29.465 | 29.580 | 30.868 | 32.271 | 33.973 | 35.894 | 37.976 | 40.598 |
| 106 | 30.293 | 29.948 | 29.914 | 31.052 | 32.455 | 34.226 | 36.170 | 38.033 | 40.161 | 42.806 |
| 107 | 30.121 | 30.316 | 31.305 | 32.524 | 34.157 | 36.320 | 38.332 | 40.287 | 42.817 | 45.210 |
| 108 | 30.592 | 31.547 | 32.674 | 34.077 | 35.894 | 38.367 | 40.483 | 42.645 | 45.486 | 47.165 |
| 109 | 31.696 | 32.766 | 34.042 | 35.675 | 37.677 | 40.149 | 42.541 | 45.003 | 48.016 | 49.016 |
| 110 | 32.789 | 33.973 | 35.445 | 37.355 | 39.459 | 41.782 | 44.485 | 47.291 | 50.374 | 50.799 |
| 111 | 33.870 | 35.238 | 36.860 | 38.988 | 41.127 | 43.404 | 46.210 | 49.453 | 52.513 | 52.524 |
| 112 | 34.985 | 36.492 | 38.286 | 40.586 | 42.622 | 45.037 | 47.797 | 51.443 | 54.479 | 54.100 |
| 113 | 36.101 | 37.769 | 39.701 | 41.851 | 44.060 | 46.601 | 49.430 | 53.076 | 55.618 | 55.457 |
| 114 | 37.251 | 39.022 | 41.046 | 43.024 | 45.405 | 48.085 | 51.179 | 54.594 | 56.480 | 56.515 |
| 115 | 38.390 | 40.253 | 42.116 | 44.175 | 46.659 | 49.511 | 52.823 | 56.055 | 57.285 | 57.585 |
| 116 | 39.528 | 41.230 | 43.151 | 45.313 | 47.832 | 50.868 | 54.318 | 57.527 | 58.079 | 58.677 |
| 117 | 40.552 | 42.104 | 44.140 | 46.429 | 48.982 | 52.145 | 55.629 | 58.631 | 58.815 | 59.712 |
| 118 | 41.437 | 42.990 | 45.060 | 47.533 | 50.120 | 53.398 | 56.756 | 59.137 | 59.528 | 60.460 |
| 119 | 42.300 | 43.876 | 45.980 | 48.591 | 51.363 | 54.629 | 57.780 | 59.655 | 60.149 | 61.069 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 120 | 43.163 | 44.842 | 46.923 | 49.580 | 52.651 | 55.825 | 58.792 | 60.172 | 60.724 | 61.506 |
| 121 | 44.071 | 45.819 | 47.889 | 50.535 | 53.858 | 56.998 | 59.666 | 60.713 | 61.322 | 61.943 |
| 122 | 44.991 | 46.831 | 48.832 | 51.604 | 54.962 | 58.033 | 60.230 | 61.288 | 61.794 | 62.392 |
| 123 | 45.957 | 47.843 | 49.879 | 52.697 | 55.882 | 58.988 | 60.793 | 61.909 | 62.231 | 62.737 |
| 124 | 46.912 | 48.855 | 51.121 | 53.835 | 56.779 | 59.862 | 61.311 | 62.415 | 62.691 | 63.116 |
| 125 | 47.855 | 49.948 | 52.363 | 54.951 | 57.677 | 60.333 | 61.713 | 62.921 | 63.059 | 63.542 |
| 126 | 48.798 | 51.167 | 53.594 | 56.078 | 58.597 | 60.678 | 62.070 | 63.381 | 63.358 | 63.772 |
| 127 | 49.879 | 52.363 | 54.790 | 57.170 | 59.540 | 61.173 | 62.507 | 63.519 | 63.450 | 63.887 |
| 128 | 50.937 | 53.513 | 55.963 | 58.263 | 60.356 | 61.713 | 62.898 | 63.519 | 63.438 | 64.002 |
| 129 | 51.961 | 54.629 | 57.101 | 59.390 | 61.058 | 62.311 | 63.312 | 63.484 | 63.369 | 64.013 |
| 130 | 52.973 | 55.721 | 58.206 | 60.529 | 61.805 | 63.001 | 63.921 | 63.565 | 63.346 | 63.944 |
| 131 | 53.996 | 56.791 | 59.298 | 61.311 | 62.587 | 63.726 | 64.554 | 63.657 | 63.243 | 63.933 |
| 132 | 55.043 | 57.803 | 60.379 | 62.024 | 63.358 | 64.439 | 64.761 | 63.772 | 63.220 | 63.990 |
| 133 | 56.158 | 58.792 | 61.161 | 62.714 | 64.082 | 65.221 | 65.037 | 64.002 | 63.323 | 64.117 |
| 134 | 57.308 | 59.770 | 61.759 | 63.358 | 64.773 | 66.038 | 65.336 | 64.266 | 63.645 | 64.347 |
| 135 | 58.470 | 60.471 | 62.346 | 63.967 | 65.428 | 66.728 | 65.509 | 64.496 | 64.025 | 64.680 |
| 136 | 59.609 | 61.081 | 62.909 | 64.542 | 66.084 | 66.785 | 65.681 | 64.727 | 64.485 | 65.060 |
| 137 | 60.356 | 61.713 | 63.450 | 65.106 | 66.751 | 66.739 | 65.762 | 64.899 | 64.899 | 65.497 |
| 138 | 61.127 | 62.369 | 63.956 | 65.635 | 67.360 | 66.555 | 65.785 | 65.060 | 65.256 | 65.900 |
| 139 | 61.897 | 63.070 | 64.496 | 66.164 | 67.142 | 66.337 | 65.681 | 65.106 | 65.566 | 66.233 |
| 140 | 62.668 | 63.806 | 65.083 | 66.682 | 66.797 | 66.107 | 65.509 | 65.164 | 65.842 | 66.509 |
| 141 | 63.438 | 64.554 | 65.693 | 66.992 | 66.394 | 65.808 | 65.256 | 65.210 | 65.969 | 66.682 |
| 142 | 64.209 | 65.313 | 66.360 | 66.578 | 65.969 | 65.440 | 64.957 | 65.187 | 65.992 | 66.797 |
| 143 | 64.968 | 66.061 | 67.061 | 66.141 | 65.543 | 65.026 | 64.588 | 65.118 | 65.946 | 66.739 |
| 144 | 65.727 | 66.808 | 66.739 | 65.750 | 65.106 | 64.588 | 64.151 | 65.014 | 65.842 | 66.647 |
| 145 | 66.498 | 67.349 | 66.406 | 65.359 | 64.669 | 64.128 | 63.990 | 64.853 | 65.647 | 66.475 |
| 146 | 67.245 | 66.900 | 66.026 | 65.014 | 64.220 | 63.668 | 63.864 | 64.680 | 65.451 | 66.199 |
| 147 | 67.061 | 66.429 | 65.612 | 64.680 | 63.818 | 63.197 | 63.737 | 64.496 | 65.244 | 65.911 |
| 148 | 66.463 | 65.923 | 65.152 | 64.335 | 63.427 | 62.898 | 63.634 | 64.358 | 65.049 | 65.658 |
| 149 | 65.854 | 65.382 | 64.680 | 63.956 | 63.082 | 62.886 | 63.542 | 64.220 | 64.876 | 65.428 |
| 150 | 65.221 | 64.830 | 64.209 | 63.519 | 62.748 | 62.921 | 63.473 | 64.105 | 64.727 | 65.221 |
| 151 | 64.554 | 64.220 | 63.726 | 63.047 | 62.610 | 63.001 | 63.473 | 64.025 | 64.588 | 65.037 |
| 152 | 63.852 | 63.588 | 63.185 | 62.541 | 62.656 | 63.082 | 63.484 | 63.979 | 64.508 | 64.865 |
| 153 | 63.128 | 62.955 | 62.599 | 62.196 | 62.656 | 63.139 | 63.553 | 63.990 | 64.450 | 64.750 |
| 154 | 62.392 | 62.277 | 61.978 | 62.208 | 62.645 | 63.139 | 63.599 | 64.025 | 64.404 | 64.657 |
| 155 | 61.633 | 61.564 | 61.564 | 62.150 | 62.656 | 63.105 | 63.588 | 64.036 | 64.370 | 64.588 |
| 156 | 60.816 | 60.816 | 61.483 | 62.070 | 62.622 | 63.070 | 63.507 | 63.990 | 64.301 | 64.519 |
| 157 | 59.965 | 60.667 | 61.357 | 61.966 | 62.518 | 63.036 | 63.473 | 63.887 | 64.186 | 64.416 |
| 158 | 59.643 | 60.517 | 61.207 | 61.840 | 62.403 | 62.921 | 63.404 | 63.783 | 64.013 | 64.266 |
| 159 | 59.448 | 60.322 | 61.035 | 61.679 | 62.254 | 62.760 | 63.266 | 63.645 | 63.887 | 64.071 |
| 160 | 59.252 | 60.092 | 60.839 | 61.472 | 62.058 | 62.587 | 63.059 | 63.427 | 63.703 | 63.921 |
| 161 | 59.034 | 59.850 | 60.609 | 61.265 | 61.828 | 62.369 | 62.829 | 63.162 | 63.450 | 63.691 |
| 162 | 58.804 | 59.609 | 60.345 | 61.012 | 61.587 | 62.104 | 62.553 | 62.886 | 63.162 | 63.392 |
| 163 | 58.597 | 59.344 | 60.057 | 60.713 | 61.311 | 61.805 | 62.208 | 62.564 | 62.852 | 63.082 |
| 164 | 58.378 | 59.057 | 59.770 | 60.391 | 60.977 | 61.472 | 61.840 | 62.185 | 62.484 | 62.725 |
| 165 | 58.160 | 58.792 | 59.448 | 60.069 | 60.598 | 61.058 | 61.460 | 61.794 | 62.058 | 62.300 |
| 166 | 57.918 | 58.539 | 59.103 | 59.724 | 60.207 | 60.632 | 61.012 | 61.345 | 61.621 | 61.840 |
| 167 | 57.665 | 58.275 | 58.792 | 59.287 | 59.781 | 60.195 | 60.540 | 60.862 | 61.127 | 61.345 |
| 168 | 57.366 | 57.964 | 58.459 | 58.884 | 59.310 | 59.724 | 60.080 | 60.356 | 60.609 | 60.805 |
| 169 | 57.078 | 57.596 | 58.079 | 58.493 | 58.861 | 59.206 | 59.551 | 59.850 | 60.080 | 60.253 |
| 170 | 56.791 | 57.216 | 57.677 | 58.091 | 58.436 | 58.735 | 59.011 | 59.264 | 59.494 | 59.678 |
| 171 | 56.503 | 56.871 | 57.251 | 57.631 | 57.976 | 58.263 | 58.516 | 58.723 | 58.907 | 59.057 |
| 172 | 56.239 | 56.549 | 56.860 | 57.159 | 57.469 | 57.757 | 57.999 | 58.194 | 58.355 | 58.482 |
| 173 | 55.997 | 56.239 | 56.492 | 56.733 | 56.975 | 57.205 | 57.423 | 57.608 | 57.769 | 57.884 |
| 174 | 55.767 | 55.963 | 56.158 | 56.354 | 56.538 | 56.710 | 56.871 | 57.009 | 57.136 | 57.239 |
| 175 | 55.526 | 55.687 | 55.848 | 55.997 | 56.135 | 56.262 | 56.388 | 56.492 | 56.572 | 56.641 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 176 | 55.307 | 55.434 | 55.537 | 55.652 | 55.767 | 55.859 | 55.951 | 56.020 | 56.089 | 56.135 |
| 177 | 55.112 | 55.192 | 55.273 | 55.342 | 55.411 | 55.468 | 55.537 | 55.583 | 55.629 | 55.664 |
| 178 | 54.916 | 54.962 | 55.020 | 55.066 | 55.100 | 55.146 | 55.169 | 55.204 | 55.227 | 55.238 |
| 179 | 54.732 | 54.755 | 54.778 | 54.801 | 54.813 | 54.836 | 54.847 | 54.859 | 54.870 | 54.870 |
| 180 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 | 54.790 |

Vert. Horizontal Angles
Angles

| | 350 | 355 | 360 |
|----|------------|------------|------------|
| 0 | 3229.482 | 3229.482 | 3229.482 |
| 1 | 3230.736 | 3231.138 | 3231.495 |
| 2 | 3233.714 | 3234.025 | 3234.450 |
| 3 | 3234.450 | 3236.279 | 3237.717 |
| 4 | 3262.144 | 3264.398 | 3266.055 |
| 5 | 3270.862 | 3273.070 | 3274.772 |
| 6 | 3297.486 | 3302.478 | 3305.859 |
| 7 | 3318.211 | 3320.821 | 3323.076 |
| 8 | 3289.597 | 3288.516 | 3289.447 |
| 9 | 3239.867 | 3234.991 | 3234.450 |
| 10 | 3161.328 | 3151.231 | 3148.125 |
| 11 | 3097.901 | 3094.969 | 3095.463 |
| 12 | 3069.299 | 3068.298 | 3069.805 |
| 13 | 3050.967 | 3051.576 | 3053.807 |
| 14 | 3043.675 | 3049.460 | 3054.060 |
| 15 | 3073.865 | 3088.390 | 3097.798 |
| 16 | 3113.853 | 3121.720 | 3127.711 |
| 17 | 3104.365 | 3104.250 | 3107.137 |
| 18 | 3033.738 | 3012.864 | 3007.091 |
| 19 | 2928.127 | 2908.851 | 2904.239 |
| 20 | 2867.621 | 2862.595 | 2863.262 |
| 21 | 2811.025 | 2797.570 | 2794.913 |
| 22 | 2753.222 | 2745.275 | 2745.459 |
| 23 | 2740.089 | 2752.164 | 2760.065 |
| 24 | 2784.125 | 2812.567 | 2828.679 |
| 25 | 2834.591 | 2850.025 | 2860.962 |
| 26 | 2812.670 | 2788.702 | 2782.089 |
| 27 | 2692.797 | 2665.793 | 2658.743 |
| 28 | 2582.229 | 2558.813 | 2551.291 |
| 29 | 2481.758 | 2463.402 | 2457.790 |
| 30 | 2415.317 | 2409.602 | 2408.854 |
| 31 | 2395.191 | 2410.752 | 2421.286 |
| 32 | 2422.896 | 2443.149 | 2455.306 |
| 33 | 2426.462 | 2418.561 | 2416.744 |
| 34 | 2353.846 | 2338.216 | 2332.903 |
| 35 | 2260.137 | 2241.092 | 2232.409 |
| 36 | 2164.968 | 2154.468 | 2152.800 |
| 37 | 2107.062 | 2108.212 | 2110.983 |
| 38 | 2096.975 | 2110.270 | 2120.621 |
| 39 | 2066.567 | 2057.758 | 2048.764 |
| 40 | 1976.585 | 1962.048 | 1952.985 |
| 41 | 1901.232 | 1894.274 | 1889.880 |
| 42 | 1845.706 | 1847.695 | 1847.155 |
| 43 | 1829.961 | 1839.967 | 1851.479 |
| 44 | 1810.329 | 1807.845 | 1806.971 |
| 45 | 1703.142 | 1675.505 | 1654.137 |
| 46 | 1585.201 | 1580.394 | 1579.301 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-----|----------|----------|----------|
| 47 | 1560.693 | 1575.472 | 1580.348 |
| 48 | 1585.707 | 1599.865 | 1619.773 |
| 49 | 1545.661 | 1513.793 | 1497.324 |
| 50 | 1392.586 | 1369.412 | 1357.865 |
| 51 | 1297.865 | 1303.650 | 1299.050 |
| 52 | 1321.729 | 1342.109 | 1369.147 |
| 53 | 1290.493 | 1254.128 | 1240.430 |
| 54 | 1160.350 | 1139.683 | 1142.857 |
| 55 | 1093.818 | 1096.716 | 1103.766 |
| 56 | 1079.097 | 1062.283 | 1056.061 |
| 57 | 1003.560 | 988.229 | 997.384 |
| 58 | 948.908 | 941.950 | 955.751 |
| 59 | 886.930 | 848.287 | 844.573 |
| 60 | 833.003 | 835.844 | 835.039 |
| 61 | 781.502 | 750.255 | 740.640 |
| 62 | 693.889 | 685.482 | 689.944 |
| 63 | 666.793 | 654.465 | 647.541 |
| 64 | 575.397 | 563.482 | 565.161 |
| 65 | 555.305 | 526.449 | 520.400 |
| 66 | 478.146 | 470.417 | 471.303 |
| 67 | 438.974 | 425.334 | 432.016 |
| 68 | 404.782 | 398.342 | 400.584 |
| 69 | 378.169 | 370.004 | 370.326 |
| 70 | 355.168 | 348.946 | 349.831 |
| 71 | 334.087 | 330.199 | 330.360 |
| 72 | 311.902 | 308.992 | 309.130 |
| 73 | 290.223 | 289.372 | 288.360 |
| 74 | 270.269 | 269.326 | 268.958 |
| 75 | 251.419 | 249.383 | 248.199 |
| 76 | 232.420 | 228.728 | 228.291 |
| 77 | 212.995 | 209.545 | 208.648 |
| 78 | 194.214 | 190.108 | 188.326 |
| 79 | 176.227 | 172.650 | 169.384 |
| 80 | 158.999 | 153.973 | 150.166 |
| 81 | 140.770 | 134.870 | 131.742 |
| 82 | 125.646 | 117.826 | 114.168 |
| 83 | 114.398 | 101.414 | 96.538 |
| 84 | 91.684 | 84.887 | 79.586 |
| 85 | 73.847 | 69.614 | 62.472 |
| 86 | 58.470 | 54.100 | 45.555 |
| 87 | 44.382 | 38.781 | 28.763 |
| 88 | 31.765 | 26.199 | 13.536 |
| 89 | 22.588 | 18.309 | 4.232 |
| 90 | 18.217 | 15.124 | 3.025 |
| 91 | 17.217 | 14.480 | 3.611 |
| 92 | 16.883 | 14.399 | 4.393 |
| 93 | 17.010 | 15.216 | 5.785 |
| 94 | 17.700 | 16.573 | 7.959 |
| 95 | 19.091 | 18.033 | 10.799 |
| 96 | 21.069 | 19.436 | 13.709 |
| 97 | 23.220 | 21.599 | 16.320 |
| 98 | 25.210 | 23.841 | 19.356 |
| 99 | 27.176 | 25.658 | 22.082 |
| 100 | 29.189 | 27.487 | 24.543 |
| 101 | 31.547 | 30.121 | 27.429 |
| 102 | 34.008 | 33.111 | 30.581 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-----|--------|--------|--------|
| 103 | 36.274 | 36.147 | 33.732 |
| 104 | 38.424 | 38.631 | 36.515 |
| 105 | 40.218 | 40.644 | 38.884 |
| 106 | 42.116 | 42.656 | 41.265 |
| 107 | 44.301 | 44.911 | 43.772 |
| 108 | 46.774 | 47.360 | 46.371 |
| 109 | 49.085 | 49.729 | 48.821 |
| 110 | 51.351 | 52.030 | 51.328 |
| 111 | 53.617 | 54.295 | 53.766 |
| 112 | 55.710 | 56.423 | 56.078 |
| 113 | 57.435 | 58.160 | 58.148 |
| 114 | 58.861 | 59.505 | 59.666 |
| 115 | 59.931 | 60.563 | 60.839 |
| 116 | 60.759 | 61.541 | 61.909 |
| 117 | 61.587 | 62.426 | 62.875 |
| 118 | 62.185 | 63.105 | 63.530 |
| 119 | 62.714 | 63.680 | 64.128 |
| 120 | 62.944 | 63.990 | 64.669 |
| 121 | 63.162 | 64.140 | 64.911 |
| 122 | 63.415 | 64.312 | 65.072 |
| 123 | 63.760 | 64.669 | 65.302 |
| 124 | 64.163 | 65.037 | 65.762 |
| 125 | 64.485 | 65.463 | 66.302 |
| 126 | 64.773 | 65.727 | 66.613 |
| 127 | 64.934 | 65.842 | 66.647 |
| 128 | 65.026 | 65.842 | 66.624 |
| 129 | 65.083 | 65.842 | 66.544 |
| 130 | 64.991 | 65.785 | 66.475 |
| 131 | 64.968 | 65.681 | 66.406 |
| 132 | 64.968 | 65.624 | 66.314 |
| 133 | 64.968 | 65.612 | 66.337 |
| 134 | 65.187 | 65.693 | 66.406 |
| 135 | 65.474 | 65.923 | 66.624 |
| 136 | 65.785 | 66.176 | 66.854 |
| 137 | 66.118 | 66.475 | 67.119 |
| 138 | 66.509 | 66.820 | 67.452 |
| 139 | 66.843 | 67.188 | 67.774 |
| 140 | 67.096 | 67.475 | 68.073 |
| 141 | 67.245 | 67.648 | 68.292 |
| 142 | 67.303 | 67.694 | 68.280 |
| 143 | 67.303 | 67.694 | 68.246 |
| 144 | 67.176 | 67.590 | 68.131 |
| 145 | 66.992 | 67.418 | 67.958 |
| 146 | 66.728 | 67.153 | 67.694 |
| 147 | 66.383 | 66.808 | 67.291 |
| 148 | 66.095 | 66.452 | 66.946 |
| 149 | 65.831 | 66.164 | 66.647 |
| 150 | 65.601 | 65.923 | 66.394 |
| 151 | 65.394 | 65.716 | 66.199 |
| 152 | 65.210 | 65.509 | 65.980 |
| 153 | 65.049 | 65.325 | 65.808 |
| 154 | 64.922 | 65.175 | 65.658 |
| 155 | 64.830 | 65.060 | 65.543 |
| 156 | 64.738 | 64.945 | 65.394 |
| 157 | 64.623 | 64.807 | 65.221 |
| 158 | 64.485 | 64.657 | 65.060 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|------------|--------|--------|--------|
| 159 | 64.266 | 64.450 | 64.853 |
| 160 | 64.094 | 64.232 | 64.588 |
| 161 | 63.875 | 64.025 | 64.381 |
| 162 | 63.588 | 63.737 | 64.105 |
| 163 | 63.266 | 63.415 | 63.772 |
| 164 | 62.909 | 63.047 | 63.404 |
| 165 | 62.484 | 62.622 | 62.978 |
| 166 | 62.001 | 62.127 | 62.449 |
| 167 | 61.506 | 61.610 | 61.920 |
| 168 | 60.954 | 61.046 | 61.368 |
| 169 | 60.391 | 60.471 | 60.782 |
| 170 | 59.816 | 59.896 | 60.195 |
| 171 | 59.172 | 59.241 | 59.563 |
| 172 | 58.574 | 58.631 | 58.919 |
| 173 | 57.964 | 58.022 | 58.298 |
| 174 | 57.320 | 57.366 | 57.642 |
| 175 | 56.687 | 56.722 | 56.975 |
| 176 | 56.170 | 56.193 | 56.446 |
| 177 | 55.687 | 55.698 | 55.951 |
| 178 | 55.250 | 55.261 | 55.514 |
| 179 | 54.882 | 54.882 | 55.135 |
| 180 | 54.790 | 54.790 | 54.790 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1179.95 | N.A. | 14.40 |
| 0-30 | 2481.04 | N.A. | 30.20 |
| 0-40 | 4021.87 | N.A. | 49.00 |
| 0-60 | 6838.46 | N.A. | 83.40 |
| 0-80 | 7804.23 | N.A. | 95.10 |
| 0-90 | 7919.56 | N.A. | 96.50 |
| 10-90 | 7611.06 | N.A. | 92.80 |
| 20-40 | 2841.92 | N.A. | 34.60 |
| 20-50 | 4389.46 | N.A. | 53.50 |
| 40-70 | 3488.16 | N.A. | 42.50 |
| 60-80 | 965.77 | N.A. | 11.80 |
| 70-80 | 294.20 | N.A. | 3.60 |
| 80-90 | 115.33 | N.A. | 1.40 |
| 90-110 | 64.29 | N.A. | 0.80 |
| 90-120 | 106.00 | N.A. | 1.30 |
| 90-130 | 151.40 | N.A. | 1.80 |
| 90-150 | 234.84 | N.A. | 2.90 |
| 90-180 | 284.01 | N.A. | 3.50 |
| 110-180 | 219.72 | N.A. | 2.70 |
| 0-180 | 8203.57 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 308.50 |
| 10-20 | 871.46 |
| 20-30 | 1301.08 |
| 30-40 | 1540.84 |
| 40-50 | 1547.55 |
| 50-60 | 1269.04 |
| 60-70 | 671.58 |
| 70-80 | 294.20 |
| 80-90 | 115.33 |
| 90-100 | 32.77 |
| 100-110 | 31.52 |
| 110-120 | 41.71 |
| 120-130 | 45.40 |
| 130-140 | 44.59 |
| 140-150 | 38.85 |
| 150-160 | 27.66 |
| 160-170 | 16.22 |
| 170-180 | 5.29 |

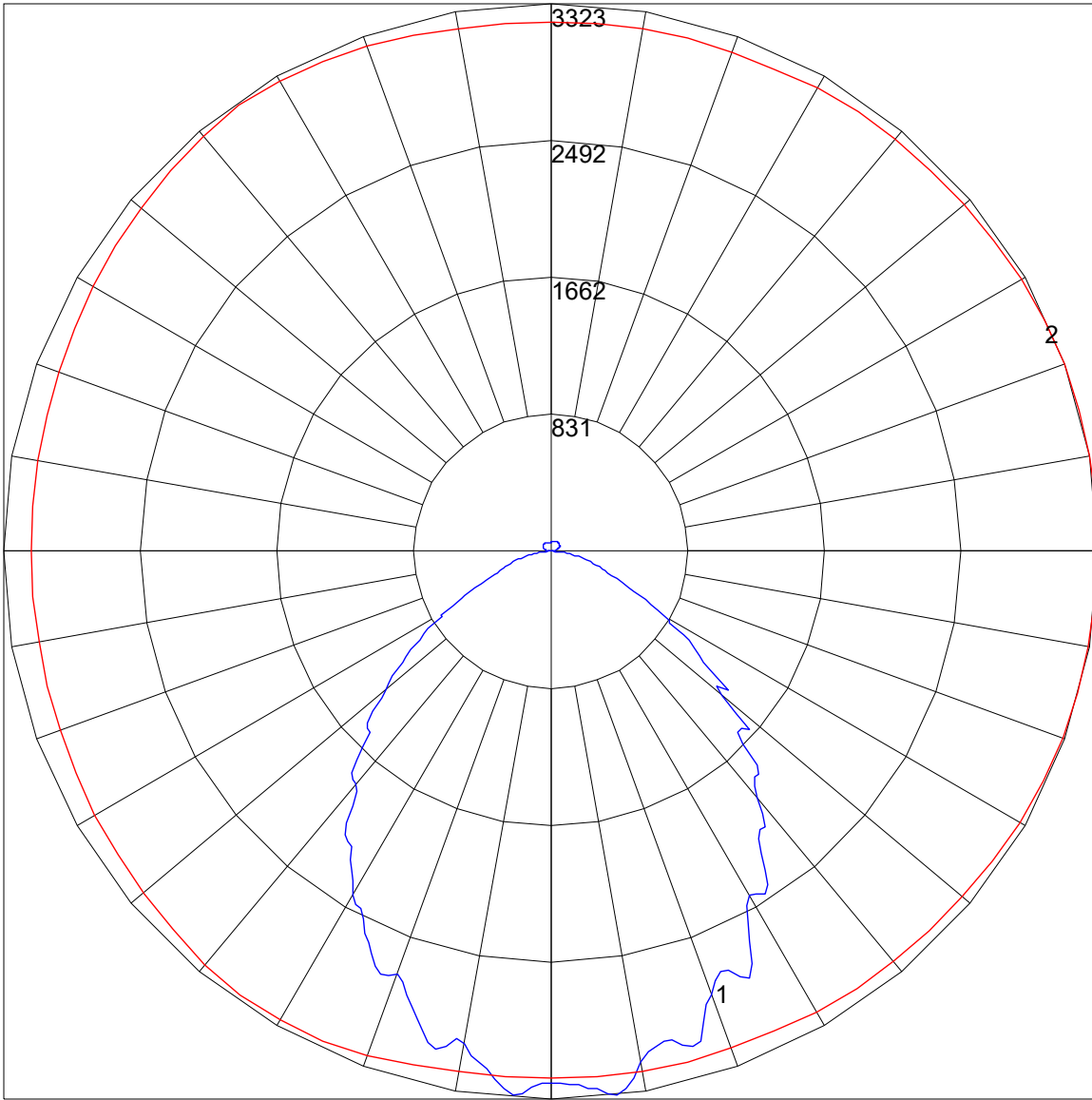
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48HWCB-40.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| | RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 109 | 105 | 101 | 97 | 106 | 102 | 99 | 96 | 97 | 94 | 92 | 93 | 91 | 88 | 89 | 87 | 85 | 83 | 83 |
| 2 | 100 | 93 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 82 | 77 | 83 | 79 | 75 | 79 | 76 | 73 | 71 | 71 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 68 | 77 | 71 | 66 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 |
| 4 | 84 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | 53 |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 49 | 57 | 52 | 48 | 46 | 46 |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 47 | 43 | 40 | 40 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | 36 |
| 8 | 62 | 49 | 41 | 36 | 61 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | 32 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | 29 |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | 26 |

POLAR GRAPH



Maximum Candela = 3323.076 Located At Horizontal Angle = 0, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)