

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F45A61 - 3200K - 31 INCH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] :Fabbian

[_EULUMDAT_ITYP] 1

[_EULUMDAT_HDIST] 5

[_EULUMD_VDIST] 5

[TEST]

[LUMINAIRE] OLYMPIC POWER-SOSPENSIONE D.802 3500K LED STRIP - WHITE

[LUMCAT] F45A2101

[_EULUM_FILENAME] F45 A07 01.ltd

[TESTLAB]

[ISSUEDATE] 2020-01-14

[_EULUM_AREALENGTH] 802

[_EULUM_AREAWIDTH] 0

[_EULUM_C0_LUM] 0

[_EULUM_C90_LUM] 0

[_EULUM_C180_LUM] 0

[_EULUM_C270_LUM] 0

[_EULUM_DOWN_FLUX] 52.42

[_EULUM_EFFICIENCY] 100

[_EULUM_CONV] 1

[_EULUM_TILT] 0

[_EULUM_LAMP_1_NUM] 1

[_EULUM_LAMP_1_TYPE] LED SMD2835 6406 lm

[_EULUM_LAMP_1_FLUX] 4475

[_EULUM_LAMP_1_COLOR] 3195

[_EULUM_LAMP_1_CRG] 90

[_EULUM_LAMP_1_WATTS] 48

[LAMP] LED SMD2835 6406 lm

[_EULUM_DR_0] 0

[_EULUM_DR_1] 0

[_EULUM_DR_2] 50

[_EULUM_DR_3] 55

[_EULUM_DR_4] 60

[_EULUM_DR_5] 65

[_EULUM_DR_6] 70

[_EULUM_DR_7] 75

[_EULUM_DR_8] 80

[_EULUM_DR_9] 85

[_CONVERT] Luminaire test position and photometric web converted from original test data (LDT to IES Reorientation)

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CHARACTERISTICS

| | |
|---------------------------------|-------------------|
| Lumens Per Lamp | 4475 (1 lamp) |
| Total Lamp Lumens | 4475 |
| Luminaire Lumens | 4562 |
| Total Luminaire Efficiency | 102 % |
| Luminaire Efficacy Rating (LER) | 95 |
| Total Luminaire Watts | 48 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.80 m (Diameter) |
| Luminous Width (90-270) | 0.80 m (Diameter) |
| Luminous Height | 0.00 m |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 931 | 930 | 931 |
| 55 | 1258 | 1259 | 1258 |
| 65 | 1836 | 1835 | 1836 |
| 75 | 3094 | 3104 | 3106 |
| 85 | 9114 | 9139 | 9140 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>7.5</u> | <u>10.0</u> | <u>12.5</u> | <u>15.0</u> | <u>17.5</u> | <u>20.0</u> | <u>22.5</u> |
|--------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.523 | 273.512 | 273.512 | 273.512 | 273.512 | 273.512 | 273.456 | 273.401 | 273.377 |
| 5.0 | 270.335 | 270.313 | 270.290 | 270.290 | 270.290 | 270.290 | 270.290 | 270.179 | 270.066 | 270.022 |
| 7.5 | 273.110 | 273.064 | 273.020 | 273.042 | 273.064 | 273.008 | 272.953 | 272.908 | 272.864 | 272.908 |
| 10.0 | 275.884 | 275.817 | 275.749 | 275.795 | 275.839 | 275.727 | 275.615 | 275.638 | 275.660 | 275.795 |
| 12.5 | 278.569 | 278.491 | 278.412 | 278.502 | 278.591 | 278.547 | 278.502 | 278.491 | 278.480 | 278.592 |
| 15.0 | 281.254 | 281.165 | 281.075 | 281.210 | 281.343 | 281.366 | 281.388 | 281.344 | 281.299 | 281.388 |
| 17.5 | 284.566 | 284.421 | 284.275 | 284.421 | 284.566 | 284.510 | 284.454 | 284.532 | 284.610 | 284.566 |
| 20.0 | 287.877 | 287.675 | 287.474 | 287.631 | 287.788 | 287.653 | 287.519 | 287.721 | 287.921 | 287.743 |
| 22.5 | 292.196 | 292.150 | 292.106 | 292.229 | 292.352 | 292.241 | 292.128 | 292.576 | 293.023 | 292.900 |
| 25.0 | 296.514 | 296.627 | 296.738 | 296.827 | 296.916 | 296.827 | 296.738 | 297.431 | 298.124 | 298.057 |
| 27.5 | 300.385 | 300.396 | 300.407 | 300.418 | 300.429 | 300.485 | 300.542 | 300.822 | 301.100 | 301.122 |
| 30.0 | 304.255 | 304.166 | 304.076 | 304.009 | 303.942 | 304.144 | 304.345 | 304.211 | 304.076 | 304.189 |
| 32.5 | 306.179 | 306.157 | 306.135 | 306.068 | 306.001 | 306.124 | 306.248 | 306.225 | 306.203 | 306.214 |
| 35.0 | 308.104 | 308.149 | 308.193 | 308.126 | 308.059 | 308.104 | 308.149 | 308.238 | 308.328 | 308.238 |
| 37.5 | 313.810 | 313.865 | 313.921 | 313.876 | 313.832 | 313.899 | 313.967 | 313.989 | 314.011 | 313.943 |
| 40.0 | 319.515 | 319.582 | 319.650 | 319.628 | 319.604 | 319.695 | 319.784 | 319.739 | 319.694 | 319.650 |
| 42.5 | 326.071 | 326.149 | 326.228 | 326.182 | 326.138 | 326.127 | 326.116 | 326.138 | 326.160 | 326.082 |
| 45.0 | 332.627 | 332.716 | 332.806 | 332.738 | 332.671 | 332.560 | 332.447 | 332.538 | 332.627 | 332.516 |
| 47.5 | 344.755 | 344.866 | 344.979 | 344.922 | 344.866 | 344.754 | 344.642 | 344.686 | 344.732 | 344.721 |
| 50.0 | 356.881 | 357.016 | 357.150 | 357.105 | 357.060 | 356.949 | 356.836 | 356.836 | 356.836 | 356.927 |
| 52.5 | 360.842 | 360.887 | 360.932 | 360.943 | 360.954 | 360.909 | 360.864 | 360.785 | 360.707 | 360.752 |
| 55.0 | 364.802 | 364.758 | 364.713 | 364.780 | 364.847 | 364.869 | 364.891 | 364.735 | 364.578 | 364.578 |
| 57.5 | 372.611 | 372.600 | 372.589 | 372.700 | 372.813 | 372.813 | 372.813 | 372.746 | 372.678 | 372.644 |
| 60.0 | 380.420 | 380.442 | 380.464 | 380.621 | 380.777 | 380.755 | 380.733 | 380.755 | 380.777 | 380.711 |
| 62.5 | 386.260 | 386.271 | 386.282 | 386.382 | 386.484 | 386.462 | 386.440 | 386.462 | 386.484 | 386.427 |
| 65.0 | 392.099 | 392.099 | 392.099 | 392.145 | 392.189 | 392.167 | 392.145 | 392.167 | 392.189 | 392.145 |
| 67.5 | 397.112 | 397.493 | 397.873 | 397.839 | 397.806 | 397.771 | 397.738 | 397.760 | 397.782 | 397.480 |
| 70.0 | 402.124 | 402.885 | 403.645 | 403.534 | 403.421 | 403.377 | 403.332 | 403.354 | 403.376 | 402.817 |
| 72.5 | 403.445 | 403.802 | 404.160 | 404.160 | 404.160 | 404.160 | 404.160 | 404.138 | 404.115 | 403.813 |
| 75.0 | 404.764 | 404.720 | 404.675 | 404.787 | 404.898 | 404.944 | 404.988 | 404.920 | 404.853 | 404.809 |
| 77.5 | 402.326 | 402.259 | 402.191 | 402.314 | 402.437 | 402.381 | 402.326 | 402.337 | 402.348 | 402.281 |
| 80.0 | 399.887 | 399.797 | 399.707 | 399.841 | 399.976 | 399.819 | 399.663 | 399.752 | 399.841 | 399.752 |
| 82.5 | 400.671 | 400.614 | 400.558 | 400.669 | 400.782 | 400.736 | 400.692 | 400.703 | 400.714 | 400.849 |
| 85.0 | 401.453 | 401.431 | 401.408 | 401.497 | 401.586 | 401.653 | 401.721 | 401.653 | 401.586 | 401.944 |
| 87.5 | 400.625 | 400.669 | 400.714 | 400.725 | 400.736 | 400.793 | 400.849 | 400.747 | 400.647 | 400.837 |
| 90.0 | 399.796 | 399.909 | 400.020 | 399.954 | 399.887 | 399.932 | 399.976 | 399.841 | 399.707 | 399.730 |
| 92.5 | 400.647 | 400.702 | 400.758 | 400.782 | 400.804 | 400.838 | 400.871 | 400.758 | 400.647 | 400.691 |
| 95.0 | 401.497 | 401.497 | 401.497 | 401.609 | 401.721 | 401.744 | 401.766 | 401.677 | 401.586 | 401.653 |
| 97.5 | 400.647 | 400.725 | 400.804 | 400.815 | 400.826 | 400.915 | 401.005 | 400.938 | 400.871 | 400.837 |
| 100.0 | 399.796 | 399.954 | 400.110 | 400.021 | 399.931 | 400.087 | 400.244 | 400.200 | 400.154 | 400.021 |
| 102.5 | 402.392 | 402.392 | 402.393 | 402.348 | 402.303 | 402.370 | 402.437 | 402.403 | 402.370 | 402.415 |
| 105.0 | 404.988 | 404.831 | 404.675 | 404.675 | 404.675 | 404.653 | 404.629 | 404.607 | 404.585 | 404.809 |
| 107.5 | 404.294 | 404.227 | 404.160 | 404.060 | 403.960 | 404.049 | 404.138 | 403.500 | 402.863 | 403.063 |
| 110.0 | 403.600 | 403.623 | 403.645 | 403.445 | 403.243 | 403.445 | 403.645 | 402.392 | 401.139 | 401.318 |
| 112.5 | 397.850 | 397.861 | 397.873 | 397.706 | 397.538 | 397.649 | 397.760 | 397.145 | 396.530 | 396.653 |
| 115.0 | 392.099 | 392.099 | 392.099 | 391.966 | 391.832 | 391.854 | 391.876 | 391.899 | 391.921 | 391.988 |
| 117.5 | 386.372 | 386.383 | 386.394 | 386.305 | 386.216 | 386.238 | 386.260 | 386.316 | 386.372 | 386.349 |
| 120.0 | 380.644 | 380.666 | 380.688 | 380.644 | 380.599 | 380.622 | 380.644 | 380.733 | 380.823 | 380.711 |
| 122.5 | 372.746 | 372.746 | 372.746 | 372.768 | 372.791 | 372.813 | 372.835 | 372.813 | 372.791 | 372.757 |
| 125.0 | 364.847 | 364.825 | 364.802 | 364.892 | 364.982 | 365.004 | 365.026 | 364.892 | 364.758 | 364.803 |
| 127.5 | 360.887 | 360.909 | 360.931 | 360.976 | 361.021 | 361.043 | 361.065 | 360.898 | 360.730 | 360.842 |
| 130.0 | 356.927 | 356.994 | 357.060 | 357.060 | 357.060 | 357.083 | 357.105 | 356.905 | 356.703 | 356.881 |
| 132.5 | 344.777 | 344.833 | 344.888 | 344.910 | 344.933 | 344.910 | 344.888 | 344.821 | 344.755 | 344.844 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 135.0 | 332.627 | 332.672 | 332.716 | 332.762 | 332.806 | 332.738 | 332.671 | 332.738 | 332.806 | 332.806 |
| 137.5 | 326.027 | 326.116 | 326.206 | 326.160 | 326.116 | 326.127 | 326.138 | 326.206 | 326.273 | 326.239 |
| 140.0 | 319.426 | 319.560 | 319.694 | 319.560 | 319.426 | 319.515 | 319.604 | 319.672 | 319.739 | 319.672 |
| 142.5 | 313.854 | 313.888 | 313.921 | 313.910 | 313.899 | 313.899 | 313.899 | 313.899 | 313.899 | 313.865 |
| 145.0 | 308.282 | 308.216 | 308.149 | 308.262 | 308.373 | 308.284 | 308.193 | 308.126 | 308.059 | 308.059 |
| 147.5 | 306.336 | 306.348 | 306.359 | 306.281 | 306.203 | 306.214 | 306.225 | 306.179 | 306.135 | 306.146 |
| 150.0 | 304.389 | 304.480 | 304.569 | 304.300 | 304.031 | 304.144 | 304.255 | 304.233 | 304.211 | 304.233 |
| 152.5 | 300.609 | 300.631 | 300.654 | 300.474 | 300.295 | 300.340 | 300.385 | 300.440 | 300.496 | 300.474 |
| 155.0 | 296.827 | 296.783 | 296.738 | 296.649 | 296.558 | 296.536 | 296.514 | 296.649 | 296.782 | 296.715 |
| 157.5 | 292.330 | 292.307 | 292.285 | 292.185 | 292.083 | 292.139 | 292.196 | 292.263 | 292.330 | 292.207 |
| 160.0 | 287.832 | 287.832 | 287.832 | 287.721 | 287.608 | 287.743 | 287.877 | 287.877 | 287.877 | 287.699 |
| 162.5 | 284.521 | 284.498 | 284.476 | 284.419 | 284.364 | 284.476 | 284.588 | 284.621 | 284.655 | 284.577 |
| 165.0 | 281.209 | 281.165 | 281.119 | 281.119 | 281.119 | 281.210 | 281.299 | 281.366 | 281.432 | 281.456 |
| 167.5 | 278.502 | 278.480 | 278.458 | 278.401 | 278.345 | 278.412 | 278.480 | 278.558 | 278.636 | 278.658 |
| 170.0 | 275.795 | 275.795 | 275.795 | 275.683 | 275.571 | 275.616 | 275.660 | 275.749 | 275.839 | 275.862 |
| 172.5 | 272.975 | 272.931 | 272.886 | 272.819 | 272.751 | 272.797 | 272.841 | 272.930 | 273.020 | 272.975 |
| 175.0 | 270.156 | 270.066 | 269.977 | 269.955 | 269.932 | 269.977 | 270.021 | 270.112 | 270.201 | 270.090 |
| 177.5 | 273.468 | 273.423 | 273.379 | 273.366 | 273.355 | 273.377 | 273.401 | 273.445 | 273.490 | 273.434 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | <u>25.0</u> | <u>27.5</u> | <u>30.0</u> | <u>32.5</u> | <u>35.0</u> | <u>37.5</u> | <u>40.0</u> | <u>42.5</u> | <u>45.0</u> | <u>47.5</u> |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.355 | 273.355 | 273.355 | 273.377 | 273.401 | 273.445 | 273.490 | 273.423 | 273.355 | 273.445 |
| 5.0 | 269.977 | 269.977 | 269.977 | 270.022 | 270.066 | 270.156 | 270.245 | 270.112 | 269.977 | 270.157 |
| 7.5 | 272.953 | 272.864 | 272.775 | 272.841 | 272.908 | 272.908 | 272.908 | 272.931 | 272.953 | 272.987 |
| 10.0 | 275.929 | 275.751 | 275.571 | 275.660 | 275.749 | 275.660 | 275.571 | 275.751 | 275.929 | 275.818 |
| 12.5 | 278.703 | 278.547 | 278.390 | 278.412 | 278.434 | 278.390 | 278.345 | 278.502 | 278.659 | 278.525 |
| 15.0 | 281.478 | 281.343 | 281.209 | 281.165 | 281.119 | 281.119 | 281.119 | 281.254 | 281.388 | 281.232 |
| 17.5 | 284.521 | 284.443 | 284.364 | 284.397 | 284.432 | 284.408 | 284.386 | 284.465 | 284.543 | 284.499 |
| 20.0 | 287.564 | 287.542 | 287.519 | 287.631 | 287.743 | 287.699 | 287.653 | 287.675 | 287.697 | 287.765 |
| 22.5 | 292.778 | 292.487 | 292.196 | 292.498 | 292.800 | 292.856 | 292.912 | 292.889 | 292.867 | 292.609 |
| 25.0 | 297.990 | 297.431 | 296.871 | 297.364 | 297.857 | 298.013 | 298.170 | 298.102 | 298.035 | 297.453 |
| 27.5 | 301.146 | 300.888 | 300.631 | 300.911 | 301.191 | 301.302 | 301.415 | 301.291 | 301.168 | 300.966 |
| 30.0 | 304.300 | 304.345 | 304.389 | 304.457 | 304.524 | 304.591 | 304.658 | 304.480 | 304.300 | 304.480 |
| 32.5 | 306.225 | 306.314 | 306.403 | 306.336 | 306.270 | 306.303 | 306.337 | 306.303 | 306.270 | 306.392 |
| 35.0 | 308.149 | 308.284 | 308.417 | 308.216 | 308.015 | 308.015 | 308.015 | 308.127 | 308.238 | 308.306 |
| 37.5 | 313.877 | 313.910 | 313.943 | 313.854 | 313.765 | 313.821 | 313.877 | 313.854 | 313.832 | 313.877 |
| 40.0 | 319.604 | 319.537 | 319.470 | 319.493 | 319.515 | 319.628 | 319.739 | 319.582 | 319.426 | 319.448 |
| 42.5 | 326.004 | 326.060 | 326.116 | 325.736 | 325.356 | 325.825 | 326.295 | 326.116 | 325.937 | 326.015 |
| 45.0 | 332.403 | 332.583 | 332.762 | 331.979 | 331.195 | 332.023 | 332.851 | 332.649 | 332.447 | 332.582 |
| 47.5 | 344.710 | 344.732 | 344.755 | 344.441 | 344.128 | 344.542 | 344.955 | 344.777 | 344.597 | 344.699 |
| 50.0 | 357.016 | 356.881 | 356.747 | 356.903 | 357.060 | 357.060 | 357.060 | 356.903 | 356.747 | 356.814 |
| 52.5 | 360.798 | 360.785 | 360.774 | 360.796 | 360.820 | 360.898 | 360.976 | 360.898 | 360.820 | 360.809 |
| 55.0 | 364.578 | 364.691 | 364.802 | 364.691 | 364.578 | 364.735 | 364.891 | 364.891 | 364.891 | 364.802 |
| 57.5 | 372.611 | 372.611 | 372.611 | 372.611 | 372.611 | 372.700 | 372.790 | 372.824 | 372.857 | 372.779 |
| 60.0 | 380.644 | 380.533 | 380.420 | 380.533 | 380.644 | 380.666 | 380.688 | 380.755 | 380.823 | 380.755 |
| 62.5 | 386.372 | 386.271 | 386.171 | 386.316 | 386.462 | 386.372 | 386.282 | 386.349 | 386.416 | 386.427 |
| 65.0 | 392.099 | 392.010 | 391.921 | 392.101 | 392.279 | 392.077 | 391.876 | 391.943 | 392.010 | 392.099 |
| 67.5 | 397.178 | 397.458 | 397.738 | 397.504 | 397.269 | 397.111 | 396.955 | 396.989 | 397.022 | 397.111 |
| 70.0 | 402.257 | 402.907 | 403.556 | 402.907 | 402.257 | 402.146 | 402.034 | 402.034 | 402.034 | 402.124 |
| 72.5 | 403.511 | 404.138 | 404.764 | 404.484 | 404.205 | 404.126 | 404.047 | 404.025 | 404.003 | 404.104 |
| 75.0 | 404.764 | 405.368 | 405.972 | 406.062 | 406.152 | 406.106 | 406.061 | 406.017 | 405.972 | 406.084 |
| 77.5 | 402.213 | 402.526 | 402.839 | 402.863 | 402.885 | 402.952 | 403.019 | 402.918 | 402.817 | 402.850 |
| 80.0 | 399.663 | 399.685 | 399.707 | 399.663 | 399.618 | 399.797 | 399.976 | 399.819 | 399.663 | 399.618 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 82.5 | 400.984 | 400.815 | 400.647 | 400.826 | 401.005 | 401.151 | 401.296 | 401.195 | 401.095 | 401.049 |
| 85.0 | 402.303 | 401.944 | 401.586 | 401.990 | 402.392 | 402.504 | 402.616 | 402.572 | 402.526 | 402.482 |
| 87.5 | 401.027 | 400.804 | 400.580 | 400.826 | 401.073 | 401.151 | 401.229 | 401.162 | 401.095 | 401.140 |
| 90.0 | 399.752 | 399.663 | 399.572 | 399.663 | 399.752 | 399.797 | 399.841 | 399.752 | 399.663 | 399.797 |
| 92.5 | 400.736 | 400.703 | 400.669 | 400.636 | 400.603 | 400.669 | 400.736 | 400.669 | 400.603 | 400.703 |
| 95.0 | 401.721 | 401.744 | 401.766 | 401.609 | 401.453 | 401.542 | 401.631 | 401.587 | 401.542 | 401.609 |
| 97.5 | 400.804 | 400.815 | 400.827 | 400.849 | 400.871 | 400.916 | 400.960 | 400.904 | 400.849 | 400.860 |
| 100.0 | 399.887 | 399.887 | 399.887 | 400.089 | 400.289 | 400.289 | 400.289 | 400.222 | 400.154 | 400.110 |
| 102.5 | 402.461 | 402.359 | 402.259 | 402.404 | 402.550 | 402.583 | 402.616 | 402.572 | 402.526 | 402.504 |
| 105.0 | 405.033 | 404.831 | 404.629 | 404.720 | 404.809 | 404.876 | 404.942 | 404.920 | 404.898 | 404.898 |
| 107.5 | 403.265 | 403.097 | 402.930 | 402.941 | 402.952 | 403.063 | 403.176 | 403.086 | 402.997 | 403.041 |
| 110.0 | 401.497 | 401.364 | 401.229 | 401.162 | 401.095 | 401.251 | 401.408 | 401.251 | 401.095 | 401.184 |
| 112.5 | 396.776 | 396.687 | 396.598 | 396.563 | 396.530 | 396.574 | 396.620 | 396.485 | 396.352 | 396.385 |
| 115.0 | 392.055 | 392.010 | 391.965 | 391.965 | 391.965 | 391.899 | 391.832 | 391.721 | 391.608 | 391.586 |
| 117.5 | 386.327 | 386.338 | 386.349 | 386.327 | 386.305 | 386.316 | 386.327 | 386.260 | 386.193 | 386.136 |
| 120.0 | 380.599 | 380.666 | 380.733 | 380.690 | 380.644 | 380.733 | 380.823 | 380.801 | 380.777 | 380.688 |
| 122.5 | 372.724 | 372.802 | 372.880 | 372.757 | 372.635 | 372.700 | 372.768 | 372.801 | 372.835 | 372.824 |
| 125.0 | 364.847 | 364.936 | 365.026 | 364.825 | 364.623 | 364.669 | 364.713 | 364.802 | 364.891 | 364.958 |
| 127.5 | 360.954 | 360.998 | 361.043 | 360.942 | 360.842 | 360.842 | 360.842 | 360.864 | 360.887 | 360.876 |
| 130.0 | 357.060 | 357.060 | 357.060 | 357.060 | 357.060 | 357.016 | 356.971 | 356.927 | 356.881 | 356.792 |
| 132.5 | 344.933 | 344.843 | 344.754 | 344.788 | 344.821 | 344.844 | 344.866 | 344.855 | 344.844 | 344.710 |
| 135.0 | 332.806 | 332.627 | 332.447 | 332.515 | 332.582 | 332.672 | 332.762 | 332.784 | 332.806 | 332.627 |
| 137.5 | 326.206 | 326.093 | 325.982 | 325.971 | 325.960 | 326.116 | 326.273 | 326.184 | 326.093 | 326.093 |
| 140.0 | 319.604 | 319.560 | 319.515 | 319.426 | 319.337 | 319.560 | 319.784 | 319.582 | 319.381 | 319.560 |
| 142.5 | 313.832 | 313.821 | 313.810 | 313.754 | 313.698 | 313.821 | 313.945 | 313.865 | 313.787 | 313.832 |
| 145.0 | 308.059 | 308.082 | 308.104 | 308.082 | 308.059 | 308.082 | 308.104 | 308.149 | 308.193 | 308.104 |
| 147.5 | 306.157 | 306.135 | 306.113 | 306.057 | 306.001 | 306.034 | 306.068 | 306.201 | 306.336 | 306.236 |
| 150.0 | 304.255 | 304.189 | 304.122 | 304.032 | 303.942 | 303.987 | 304.031 | 304.255 | 304.479 | 304.367 |
| 152.5 | 300.451 | 300.396 | 300.340 | 300.351 | 300.362 | 300.418 | 300.474 | 300.507 | 300.542 | 300.542 |
| 155.0 | 296.647 | 296.603 | 296.558 | 296.671 | 296.782 | 296.849 | 296.916 | 296.760 | 296.603 | 296.716 |
| 157.5 | 292.083 | 292.139 | 292.196 | 292.185 | 292.174 | 292.229 | 292.285 | 292.263 | 292.241 | 292.241 |
| 160.0 | 287.519 | 287.675 | 287.832 | 287.699 | 287.564 | 287.609 | 287.653 | 287.766 | 287.877 | 287.766 |
| 162.5 | 284.499 | 284.487 | 284.476 | 284.499 | 284.521 | 284.488 | 284.454 | 284.499 | 284.543 | 284.499 |
| 165.0 | 281.478 | 281.299 | 281.119 | 281.299 | 281.478 | 281.366 | 281.254 | 281.232 | 281.209 | 281.232 |
| 167.5 | 278.681 | 278.536 | 278.390 | 278.323 | 278.256 | 278.412 | 278.569 | 278.536 | 278.502 | 278.558 |
| 170.0 | 275.884 | 275.773 | 275.660 | 275.347 | 275.034 | 275.460 | 275.884 | 275.840 | 275.795 | 275.884 |
| 172.5 | 272.931 | 272.875 | 272.819 | 272.707 | 272.595 | 272.773 | 272.953 | 272.942 | 272.931 | 273.031 |
| 175.0 | 269.977 | 269.977 | 269.977 | 270.066 | 270.156 | 270.088 | 270.021 | 270.044 | 270.066 | 270.179 |
| 177.5 | 273.379 | 273.379 | 273.379 | 273.423 | 273.468 | 273.434 | 273.401 | 273.412 | 273.423 | 273.479 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

**Vert.
Angles**

Horizontal Angles

| | <u>50.0</u> | <u>52.5</u> | <u>55.0</u> | <u>57.5</u> | <u>60.0</u> | <u>62.5</u> | <u>65.0</u> | <u>67.5</u> | <u>70.0</u> | <u>72.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.445 | 273.355 | 273.355 | 273.355 | 273.445 | 273.535 | 273.434 | 273.333 | 273.366 |
| 5.0 | 270.335 | 270.157 | 269.977 | 269.977 | 269.977 | 270.157 | 270.335 | 270.134 | 269.932 | 269.999 |
| 7.5 | 273.020 | 272.942 | 272.864 | 272.919 | 272.975 | 272.975 | 272.975 | 272.875 | 272.773 | 272.897 |
| 10.0 | 275.705 | 275.727 | 275.749 | 275.862 | 275.973 | 275.795 | 275.615 | 275.615 | 275.615 | 275.795 |
| 12.5 | 278.390 | 278.423 | 278.458 | 278.513 | 278.569 | 278.469 | 278.367 | 278.356 | 278.345 | 278.480 |
| 15.0 | 281.075 | 281.121 | 281.165 | 281.165 | 281.165 | 281.143 | 281.119 | 281.097 | 281.075 | 281.165 |
| 17.5 | 284.454 | 284.454 | 284.454 | 284.488 | 284.521 | 284.476 | 284.432 | 284.364 | 284.297 | 284.397 |
| 20.0 | 287.832 | 287.788 | 287.743 | 287.810 | 287.877 | 287.810 | 287.743 | 287.631 | 287.519 | 287.631 |
| 22.5 | 292.352 | 292.565 | 292.778 | 292.889 | 293.001 | 292.923 | 292.845 | 292.520 | 292.196 | 292.474 |
| 25.0 | 296.871 | 297.342 | 297.811 | 297.968 | 298.124 | 298.035 | 297.946 | 297.409 | 296.871 | 297.319 |
| 27.5 | 300.765 | 300.955 | 301.146 | 301.190 | 301.235 | 301.269 | 301.302 | 300.955 | 300.609 | 300.833 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30.0 | 304.658 | 304.569 | 304.479 | 304.413 | 304.345 | 304.502 | 304.658 | 304.502 | 304.345 | 304.345 |
| 32.5 | 306.516 | 306.470 | 306.426 | 306.348 | 306.270 | 306.370 | 306.470 | 306.392 | 306.314 | 306.325 |
| 35.0 | 308.373 | 308.373 | 308.373 | 308.284 | 308.193 | 308.238 | 308.282 | 308.282 | 308.282 | 308.306 |
| 37.5 | 313.921 | 313.932 | 313.945 | 313.932 | 313.921 | 313.967 | 314.011 | 314.000 | 313.989 | 314.156 |
| 40.0 | 319.470 | 319.493 | 319.515 | 319.582 | 319.650 | 319.695 | 319.739 | 319.717 | 319.694 | 320.008 |
| 42.5 | 326.093 | 326.049 | 326.004 | 326.105 | 326.206 | 326.251 | 326.295 | 325.926 | 325.556 | 326.015 |
| 45.0 | 332.716 | 332.605 | 332.493 | 332.627 | 332.762 | 332.807 | 332.851 | 332.136 | 331.419 | 332.023 |
| 47.5 | 344.799 | 345.034 | 345.270 | 345.292 | 345.314 | 345.359 | 345.403 | 345.023 | 344.642 | 344.955 |
| 50.0 | 356.881 | 357.463 | 358.045 | 357.956 | 357.866 | 357.911 | 357.955 | 357.911 | 357.866 | 357.889 |
| 52.5 | 360.798 | 361.100 | 361.402 | 361.334 | 361.267 | 361.356 | 361.446 | 361.402 | 361.356 | 361.356 |
| 55.0 | 364.713 | 364.736 | 364.758 | 364.713 | 364.667 | 364.802 | 364.936 | 364.892 | 364.847 | 364.825 |
| 57.5 | 372.700 | 372.746 | 372.791 | 372.711 | 372.633 | 372.711 | 372.791 | 372.757 | 372.724 | 372.768 |
| 60.0 | 380.688 | 380.755 | 380.823 | 380.711 | 380.599 | 380.622 | 380.644 | 380.622 | 380.599 | 380.711 |
| 62.5 | 386.438 | 386.449 | 386.462 | 386.360 | 386.260 | 386.316 | 386.372 | 386.305 | 386.238 | 386.305 |
| 65.0 | 392.189 | 392.145 | 392.099 | 392.010 | 391.921 | 392.010 | 392.099 | 391.988 | 391.876 | 391.899 |
| 67.5 | 397.202 | 397.134 | 397.067 | 397.078 | 397.089 | 397.100 | 397.112 | 397.033 | 396.955 | 396.978 |
| 70.0 | 402.213 | 402.124 | 402.034 | 402.146 | 402.257 | 402.191 | 402.124 | 402.079 | 402.034 | 402.057 |
| 72.5 | 404.205 | 404.138 | 404.071 | 404.160 | 404.249 | 404.205 | 404.160 | 404.149 | 404.138 | 404.138 |
| 75.0 | 406.196 | 406.152 | 406.106 | 406.174 | 406.241 | 406.219 | 406.196 | 406.219 | 406.241 | 406.219 |
| 77.5 | 402.885 | 402.918 | 402.952 | 402.985 | 403.019 | 403.321 | 403.623 | 403.612 | 403.601 | 403.645 |
| 80.0 | 399.572 | 399.685 | 399.796 | 399.796 | 399.796 | 400.423 | 401.049 | 401.005 | 400.960 | 401.073 |
| 82.5 | 401.005 | 401.084 | 401.162 | 401.106 | 401.049 | 401.430 | 401.811 | 401.755 | 401.699 | 401.777 |
| 85.0 | 402.437 | 402.482 | 402.526 | 402.415 | 402.303 | 402.437 | 402.572 | 402.504 | 402.437 | 402.482 |
| 87.5 | 401.184 | 401.173 | 401.162 | 401.151 | 401.140 | 401.184 | 401.229 | 401.129 | 401.027 | 401.140 |
| 90.0 | 399.931 | 399.863 | 399.796 | 399.887 | 399.976 | 399.932 | 399.887 | 399.752 | 399.618 | 399.797 |
| 92.5 | 400.804 | 400.782 | 400.758 | 400.714 | 400.669 | 400.736 | 400.804 | 400.680 | 400.558 | 400.680 |
| 95.0 | 401.677 | 401.699 | 401.721 | 401.542 | 401.362 | 401.542 | 401.721 | 401.609 | 401.497 | 401.564 |
| 97.5 | 400.871 | 400.938 | 401.005 | 400.882 | 400.758 | 400.804 | 400.849 | 400.849 | 400.849 | 400.860 |
| 100.0 | 400.065 | 400.178 | 400.289 | 400.222 | 400.154 | 400.065 | 399.976 | 400.089 | 400.200 | 400.156 |
| 102.5 | 402.482 | 402.572 | 402.661 | 402.594 | 402.526 | 402.515 | 402.504 | 402.515 | 402.526 | 402.482 |
| 105.0 | 404.898 | 404.966 | 405.033 | 404.966 | 404.898 | 404.966 | 405.033 | 404.944 | 404.853 | 404.809 |
| 107.5 | 403.086 | 403.108 | 403.132 | 403.097 | 403.065 | 403.097 | 403.132 | 403.097 | 403.063 | 403.097 |
| 110.0 | 401.273 | 401.251 | 401.229 | 401.229 | 401.229 | 401.229 | 401.229 | 401.251 | 401.273 | 401.386 |
| 112.5 | 396.418 | 396.429 | 396.441 | 396.430 | 396.419 | 396.474 | 396.530 | 396.519 | 396.507 | 396.585 |
| 115.0 | 391.563 | 391.608 | 391.652 | 391.630 | 391.608 | 391.721 | 391.832 | 391.786 | 391.741 | 391.786 |
| 117.5 | 386.081 | 386.136 | 386.193 | 386.136 | 386.081 | 386.193 | 386.305 | 386.249 | 386.193 | 386.238 |
| 120.0 | 380.599 | 380.666 | 380.733 | 380.644 | 380.554 | 380.666 | 380.777 | 380.711 | 380.644 | 380.690 |
| 122.5 | 372.813 | 372.824 | 372.835 | 372.857 | 372.880 | 372.790 | 372.700 | 372.835 | 372.969 | 372.958 |
| 125.0 | 365.026 | 364.982 | 364.936 | 365.071 | 365.205 | 364.914 | 364.623 | 364.960 | 365.295 | 365.227 |
| 127.5 | 360.865 | 360.943 | 361.021 | 361.010 | 361.000 | 360.909 | 360.820 | 360.954 | 361.089 | 361.111 |
| 130.0 | 356.703 | 356.905 | 357.105 | 356.949 | 356.792 | 356.905 | 357.016 | 356.949 | 356.881 | 356.994 |
| 132.5 | 344.575 | 344.721 | 344.866 | 344.833 | 344.799 | 344.810 | 344.822 | 344.766 | 344.710 | 344.766 |
| 135.0 | 332.447 | 332.538 | 332.627 | 332.716 | 332.806 | 332.716 | 332.627 | 332.583 | 332.538 | 332.538 |
| 137.5 | 326.093 | 326.082 | 326.071 | 326.184 | 326.295 | 326.251 | 326.206 | 326.138 | 326.071 | 326.049 |
| 140.0 | 319.739 | 319.628 | 319.515 | 319.650 | 319.784 | 319.784 | 319.784 | 319.695 | 319.604 | 319.560 |
| 142.5 | 313.877 | 313.821 | 313.765 | 313.877 | 313.989 | 314.000 | 314.012 | 313.921 | 313.832 | 313.843 |
| 145.0 | 308.015 | 308.015 | 308.015 | 308.104 | 308.193 | 308.216 | 308.238 | 308.149 | 308.059 | 308.126 |
| 147.5 | 306.135 | 306.146 | 306.157 | 306.157 | 306.157 | 306.168 | 306.181 | 306.192 | 306.203 | 306.203 |
| 150.0 | 304.255 | 304.278 | 304.300 | 304.211 | 304.122 | 304.122 | 304.122 | 304.234 | 304.345 | 304.278 |
| 152.5 | 300.542 | 300.553 | 300.564 | 300.463 | 300.363 | 300.407 | 300.452 | 300.463 | 300.474 | 300.463 |
| 155.0 | 296.827 | 296.827 | 296.827 | 296.716 | 296.603 | 296.693 | 296.782 | 296.693 | 296.603 | 296.649 |
| 157.5 | 292.241 | 292.296 | 292.352 | 292.285 | 292.218 | 292.252 | 292.285 | 292.207 | 292.128 | 292.150 |
| 160.0 | 287.653 | 287.766 | 287.877 | 287.855 | 287.832 | 287.810 | 287.788 | 287.721 | 287.653 | 287.653 |
| 162.5 | 284.454 | 284.476 | 284.499 | 284.476 | 284.454 | 284.454 | 284.454 | 284.476 | 284.499 | 284.532 |
| 165.0 | 281.254 | 281.187 | 281.119 | 281.097 | 281.075 | 281.097 | 281.119 | 281.232 | 281.343 | 281.410 |
| 167.5 | 278.614 | 278.536 | 278.458 | 278.469 | 278.480 | 278.412 | 278.345 | 278.423 | 278.502 | 278.591 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 170.0 | 275.973 | 275.884 | 275.795 | 275.840 | 275.884 | 275.727 | 275.571 | 275.616 | 275.660 | 275.773 |
| 172.5 | 273.132 | 273.031 | 272.931 | 272.997 | 273.064 | 273.009 | 272.953 | 272.942 | 272.931 | 272.942 |
| 175.0 | 270.290 | 270.179 | 270.066 | 270.156 | 270.245 | 270.290 | 270.335 | 270.268 | 270.201 | 270.112 |
| 177.5 | 273.535 | 273.479 | 273.423 | 273.468 | 273.512 | 273.535 | 273.557 | 273.524 | 273.490 | 273.445 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 75.0 | 77.5 | 80.0 | 82.5 | 85.0 | 87.5 | 90.0 | 92.5 | 95.0 | 97.5 |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.401 | 273.412 | 273.423 | 273.412 | 273.401 | 273.377 | 273.355 | 273.412 | 273.468 | 273.501 |
| 5.0 | 270.066 | 270.090 | 270.112 | 270.090 | 270.066 | 270.022 | 269.977 | 270.090 | 270.201 | 270.268 |
| 7.5 | 273.020 | 273.020 | 273.020 | 272.953 | 272.886 | 272.853 | 272.819 | 272.908 | 272.998 | 273.053 |
| 10.0 | 275.973 | 275.951 | 275.929 | 275.818 | 275.705 | 275.683 | 275.660 | 275.727 | 275.795 | 275.840 |
| 12.5 | 278.614 | 278.580 | 278.547 | 278.514 | 278.480 | 278.423 | 278.368 | 278.502 | 278.636 | 278.558 |
| 15.0 | 281.254 | 281.210 | 281.165 | 281.210 | 281.254 | 281.165 | 281.075 | 281.277 | 281.478 | 281.277 |
| 17.5 | 284.499 | 284.476 | 284.454 | 284.476 | 284.499 | 284.443 | 284.386 | 284.487 | 284.588 | 284.454 |
| 20.0 | 287.743 | 287.743 | 287.743 | 287.743 | 287.743 | 287.721 | 287.697 | 287.697 | 287.697 | 287.631 |
| 22.5 | 292.754 | 292.754 | 292.754 | 292.520 | 292.285 | 292.252 | 292.218 | 292.240 | 292.263 | 292.509 |
| 25.0 | 297.766 | 297.766 | 297.766 | 297.297 | 296.827 | 296.783 | 296.738 | 296.783 | 296.827 | 297.387 |
| 27.5 | 301.056 | 301.056 | 301.056 | 300.822 | 300.587 | 300.609 | 300.631 | 300.642 | 300.653 | 300.911 |
| 30.0 | 304.345 | 304.345 | 304.345 | 304.345 | 304.345 | 304.435 | 304.524 | 304.502 | 304.479 | 304.435 |
| 32.5 | 306.337 | 306.325 | 306.314 | 306.236 | 306.157 | 306.236 | 306.314 | 306.381 | 306.448 | 306.425 |
| 35.0 | 308.328 | 308.306 | 308.282 | 308.126 | 307.969 | 308.037 | 308.104 | 308.260 | 308.417 | 308.417 |
| 37.5 | 314.325 | 314.145 | 313.967 | 313.810 | 313.654 | 313.776 | 313.899 | 313.910 | 313.921 | 313.989 |
| 40.0 | 320.321 | 319.986 | 319.650 | 319.493 | 319.337 | 319.515 | 319.694 | 319.560 | 319.426 | 319.560 |
| 42.5 | 326.475 | 326.049 | 325.624 | 325.803 | 325.982 | 326.105 | 326.228 | 326.160 | 326.094 | 325.780 |
| 45.0 | 332.627 | 332.112 | 331.598 | 332.112 | 332.627 | 332.694 | 332.762 | 332.762 | 332.762 | 332.001 |
| 47.5 | 345.270 | 344.799 | 344.329 | 344.542 | 344.755 | 344.553 | 344.351 | 344.542 | 344.733 | 344.441 |
| 50.0 | 357.911 | 357.485 | 357.060 | 356.971 | 356.881 | 356.412 | 355.941 | 356.323 | 356.703 | 356.881 |
| 52.5 | 361.356 | 361.087 | 360.820 | 360.853 | 360.887 | 360.585 | 360.283 | 360.529 | 360.776 | 360.898 |
| 55.0 | 364.802 | 364.691 | 364.578 | 364.735 | 364.891 | 364.758 | 364.623 | 364.736 | 364.847 | 364.914 |
| 57.5 | 372.813 | 372.678 | 372.544 | 372.622 | 372.700 | 372.689 | 372.678 | 372.678 | 372.678 | 372.791 |
| 60.0 | 380.823 | 380.666 | 380.510 | 380.510 | 380.510 | 380.622 | 380.733 | 380.622 | 380.510 | 380.666 |
| 62.5 | 386.372 | 386.282 | 386.193 | 386.238 | 386.283 | 386.338 | 386.394 | 386.338 | 386.283 | 386.405 |
| 65.0 | 391.921 | 391.899 | 391.876 | 391.966 | 392.055 | 392.055 | 392.055 | 392.055 | 392.055 | 392.145 |
| 67.5 | 397.000 | 396.978 | 396.955 | 397.011 | 397.067 | 397.034 | 397.000 | 397.034 | 397.067 | 397.156 |
| 70.0 | 402.079 | 402.057 | 402.034 | 402.057 | 402.079 | 402.012 | 401.944 | 402.012 | 402.079 | 402.168 |
| 72.5 | 404.138 | 404.071 | 404.003 | 404.003 | 404.003 | 404.049 | 404.093 | 404.093 | 404.093 | 404.082 |
| 75.0 | 406.196 | 406.084 | 405.972 | 405.950 | 405.928 | 406.084 | 406.241 | 406.174 | 406.106 | 405.995 |
| 77.5 | 403.690 | 403.656 | 403.623 | 403.589 | 403.556 | 403.734 | 403.914 | 403.758 | 403.601 | 403.556 |
| 80.0 | 401.184 | 401.229 | 401.273 | 401.229 | 401.184 | 401.386 | 401.586 | 401.340 | 401.095 | 401.117 |
| 82.5 | 401.855 | 401.844 | 401.833 | 401.833 | 401.833 | 401.955 | 402.079 | 401.900 | 401.722 | 401.799 |
| 85.0 | 402.526 | 402.459 | 402.392 | 402.437 | 402.481 | 402.526 | 402.572 | 402.461 | 402.348 | 402.482 |
| 87.5 | 401.251 | 401.151 | 401.049 | 401.139 | 401.229 | 401.162 | 401.095 | 401.084 | 401.073 | 401.162 |
| 90.0 | 399.976 | 399.841 | 399.707 | 399.841 | 399.976 | 399.797 | 399.618 | 399.707 | 399.796 | 399.841 |
| 92.5 | 400.804 | 400.747 | 400.692 | 400.782 | 400.871 | 400.760 | 400.647 | 400.725 | 400.804 | 400.714 |
| 95.0 | 401.631 | 401.655 | 401.677 | 401.722 | 401.766 | 401.722 | 401.677 | 401.744 | 401.810 | 401.586 |
| 97.5 | 400.871 | 400.849 | 400.827 | 400.905 | 400.984 | 400.927 | 400.871 | 400.904 | 400.938 | 400.826 |
| 100.0 | 400.110 | 400.043 | 399.976 | 400.089 | 400.200 | 400.132 | 400.065 | 400.065 | 400.065 | 400.065 |
| 102.5 | 402.437 | 402.415 | 402.393 | 402.472 | 402.550 | 402.470 | 402.392 | 402.392 | 402.392 | 402.459 |
| 105.0 | 404.764 | 404.787 | 404.809 | 404.855 | 404.898 | 404.809 | 404.719 | 404.719 | 404.719 | 404.853 |
| 107.5 | 403.130 | 403.119 | 403.108 | 403.154 | 403.198 | 403.152 | 403.108 | 403.108 | 403.108 | 403.165 |
| 110.0 | 401.497 | 401.453 | 401.408 | 401.453 | 401.497 | 401.497 | 401.497 | 401.497 | 401.497 | 401.475 |
| 112.5 | 396.665 | 396.574 | 396.485 | 396.519 | 396.552 | 396.552 | 396.552 | 396.609 | 396.665 | 396.587 |
| 115.0 | 391.832 | 391.697 | 391.563 | 391.586 | 391.608 | 391.608 | 391.608 | 391.721 | 391.832 | 391.697 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 117.5 | 386.283 | 386.204 | 386.125 | 386.215 | 386.305 | 386.238 | 386.171 | 386.305 | 386.440 | 386.282 |
| 120.0 | 380.733 | 380.711 | 380.688 | 380.845 | 381.001 | 380.868 | 380.733 | 380.890 | 381.046 | 380.868 |
| 122.5 | 372.947 | 372.891 | 372.835 | 372.902 | 372.969 | 372.958 | 372.947 | 373.059 | 373.171 | 373.081 |
| 125.0 | 365.160 | 365.071 | 364.982 | 364.960 | 364.936 | 365.049 | 365.160 | 365.227 | 365.295 | 365.295 |
| 127.5 | 361.133 | 361.076 | 361.021 | 361.021 | 361.021 | 360.987 | 360.954 | 361.032 | 361.111 | 361.078 |
| 130.0 | 357.105 | 357.083 | 357.060 | 357.083 | 357.105 | 356.927 | 356.747 | 356.837 | 356.927 | 356.859 |
| 132.5 | 344.822 | 344.888 | 344.955 | 344.586 | 344.217 | 344.117 | 344.016 | 344.128 | 344.240 | 344.464 |
| 135.0 | 332.538 | 332.694 | 332.851 | 332.090 | 331.329 | 331.307 | 331.285 | 331.419 | 331.552 | 332.067 |
| 137.5 | 326.027 | 326.160 | 326.295 | 325.825 | 325.355 | 325.422 | 325.489 | 325.523 | 325.556 | 325.814 |
| 140.0 | 319.515 | 319.628 | 319.739 | 319.560 | 319.381 | 319.537 | 319.694 | 319.628 | 319.560 | 319.560 |
| 142.5 | 313.854 | 313.967 | 314.078 | 313.967 | 313.854 | 313.932 | 314.011 | 313.899 | 313.788 | 313.866 |
| 145.0 | 308.193 | 308.306 | 308.417 | 308.373 | 308.328 | 308.328 | 308.328 | 308.171 | 308.015 | 308.171 |
| 147.5 | 306.203 | 306.258 | 306.314 | 306.314 | 306.314 | 306.359 | 306.403 | 306.214 | 306.023 | 306.090 |
| 150.0 | 304.211 | 304.211 | 304.211 | 304.256 | 304.300 | 304.389 | 304.479 | 304.255 | 304.031 | 304.009 |
| 152.5 | 300.452 | 300.474 | 300.496 | 300.542 | 300.586 | 300.597 | 300.609 | 300.451 | 300.295 | 300.273 |
| 155.0 | 296.693 | 296.738 | 296.782 | 296.827 | 296.871 | 296.805 | 296.738 | 296.649 | 296.558 | 296.536 |
| 157.5 | 292.174 | 292.229 | 292.285 | 292.263 | 292.240 | 292.252 | 292.263 | 292.174 | 292.083 | 292.039 |
| 160.0 | 287.653 | 287.721 | 287.788 | 287.699 | 287.608 | 287.699 | 287.788 | 287.699 | 287.608 | 287.541 |
| 162.5 | 284.566 | 284.521 | 284.477 | 284.476 | 284.476 | 284.465 | 284.454 | 284.408 | 284.364 | 284.375 |
| 165.0 | 281.478 | 281.321 | 281.165 | 281.254 | 281.343 | 281.232 | 281.119 | 281.119 | 281.119 | 281.210 |
| 167.5 | 278.681 | 278.591 | 278.502 | 278.469 | 278.434 | 278.434 | 278.434 | 278.445 | 278.458 | 278.469 |
| 170.0 | 275.884 | 275.862 | 275.839 | 275.682 | 275.526 | 275.638 | 275.749 | 275.773 | 275.795 | 275.727 |
| 172.5 | 272.953 | 272.964 | 272.975 | 272.930 | 272.886 | 272.897 | 272.908 | 272.942 | 272.975 | 272.919 |
| 175.0 | 270.021 | 270.066 | 270.112 | 270.179 | 270.245 | 270.156 | 270.066 | 270.112 | 270.156 | 270.112 |
| 177.5 | 273.401 | 273.423 | 273.446 | 273.479 | 273.512 | 273.468 | 273.423 | 273.445 | 273.468 | 273.445 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <u>100.0</u> | <u>102.5</u> | <u>105.0</u> | <u>107.5</u> | <u>110.0</u> | <u>112.5</u> | <u>115.0</u> | <u>117.5</u> | <u>120.0</u> | <u>122.5</u> |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.434 | 273.333 | 273.377 | 273.423 | 273.401 | 273.377 | 273.366 | 273.355 | 273.445 |
| 5.0 | 270.335 | 270.134 | 269.932 | 270.022 | 270.112 | 270.066 | 270.021 | 269.999 | 269.977 | 270.157 |
| 7.5 | 273.110 | 272.975 | 272.841 | 272.830 | 272.819 | 272.830 | 272.841 | 272.908 | 272.975 | 272.953 |
| 10.0 | 275.884 | 275.817 | 275.749 | 275.638 | 275.526 | 275.593 | 275.660 | 275.817 | 275.973 | 275.749 |
| 12.5 | 278.480 | 278.536 | 278.591 | 278.535 | 278.480 | 278.502 | 278.525 | 278.525 | 278.525 | 278.412 |
| 15.0 | 281.075 | 281.254 | 281.432 | 281.432 | 281.432 | 281.410 | 281.388 | 281.232 | 281.075 | 281.075 |
| 17.5 | 284.320 | 284.432 | 284.543 | 284.588 | 284.632 | 284.577 | 284.521 | 284.443 | 284.364 | 284.353 |
| 20.0 | 287.564 | 287.609 | 287.653 | 287.743 | 287.832 | 287.743 | 287.653 | 287.653 | 287.653 | 287.631 |
| 22.5 | 292.756 | 292.800 | 292.845 | 292.598 | 292.352 | 292.531 | 292.710 | 292.789 | 292.867 | 292.789 |
| 25.0 | 297.946 | 297.991 | 298.035 | 297.453 | 296.871 | 297.319 | 297.766 | 297.924 | 298.080 | 297.946 |
| 27.5 | 301.168 | 301.157 | 301.146 | 300.944 | 300.742 | 300.933 | 301.122 | 301.157 | 301.191 | 301.213 |
| 30.0 | 304.389 | 304.322 | 304.255 | 304.435 | 304.613 | 304.546 | 304.479 | 304.389 | 304.300 | 304.480 |
| 32.5 | 306.403 | 306.347 | 306.292 | 306.303 | 306.314 | 306.314 | 306.314 | 306.236 | 306.157 | 306.337 |
| 35.0 | 308.417 | 308.373 | 308.328 | 308.171 | 308.015 | 308.082 | 308.149 | 308.082 | 308.015 | 308.194 |
| 37.5 | 314.056 | 314.178 | 314.302 | 314.078 | 313.854 | 313.888 | 313.921 | 313.810 | 313.698 | 313.799 |
| 40.0 | 319.694 | 319.985 | 320.276 | 319.985 | 319.694 | 319.694 | 319.694 | 319.537 | 319.381 | 319.404 |
| 42.5 | 325.467 | 325.937 | 326.407 | 325.971 | 325.534 | 325.869 | 326.206 | 326.071 | 325.937 | 326.004 |
| 45.0 | 331.239 | 331.889 | 332.538 | 331.956 | 331.374 | 332.045 | 332.716 | 332.605 | 332.493 | 332.605 |
| 47.5 | 344.150 | 344.732 | 345.314 | 344.933 | 344.553 | 344.922 | 345.292 | 345.246 | 345.202 | 345.190 |
| 50.0 | 357.060 | 357.575 | 358.089 | 357.911 | 357.731 | 357.798 | 357.866 | 357.889 | 357.911 | 357.776 |
| 52.5 | 361.021 | 361.289 | 361.558 | 361.424 | 361.289 | 361.311 | 361.334 | 361.334 | 361.334 | 361.256 |
| 55.0 | 364.982 | 365.004 | 365.026 | 364.936 | 364.847 | 364.825 | 364.802 | 364.780 | 364.758 | 364.736 |
| 57.5 | 372.902 | 372.880 | 372.857 | 372.757 | 372.656 | 372.678 | 372.700 | 372.656 | 372.611 | 372.645 |
| 60.0 | 380.823 | 380.755 | 380.688 | 380.577 | 380.464 | 380.532 | 380.599 | 380.532 | 380.464 | 380.555 |
| 62.5 | 386.529 | 386.405 | 386.282 | 386.316 | 386.349 | 386.338 | 386.327 | 386.338 | 386.349 | 386.316 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65.0 | 392.234 | 392.055 | 391.876 | 392.055 | 392.234 | 392.145 | 392.055 | 392.145 | 392.234 | 392.077 |
| 67.5 | 397.246 | 397.145 | 397.045 | 397.145 | 397.246 | 397.224 | 397.202 | 397.191 | 397.180 | 397.078 |
| 70.0 | 402.257 | 402.235 | 402.213 | 402.235 | 402.257 | 402.303 | 402.348 | 402.237 | 402.124 | 402.079 |
| 72.5 | 404.071 | 404.160 | 404.249 | 404.182 | 404.115 | 404.216 | 404.316 | 404.171 | 404.027 | 404.049 |
| 75.0 | 405.883 | 406.084 | 406.285 | 406.128 | 405.972 | 406.128 | 406.285 | 406.106 | 405.928 | 406.017 |
| 77.5 | 403.511 | 403.623 | 403.734 | 403.567 | 403.399 | 403.489 | 403.578 | 403.165 | 402.750 | 402.806 |
| 80.0 | 401.139 | 401.162 | 401.184 | 401.005 | 400.826 | 400.849 | 400.871 | 400.222 | 399.572 | 399.596 |
| 82.5 | 401.877 | 401.877 | 401.879 | 401.744 | 401.609 | 401.609 | 401.609 | 401.273 | 400.938 | 401.005 |
| 85.0 | 402.616 | 402.594 | 402.572 | 402.482 | 402.392 | 402.370 | 402.348 | 402.326 | 402.303 | 402.415 |
| 87.5 | 401.251 | 401.262 | 401.275 | 401.195 | 401.117 | 401.095 | 401.073 | 401.060 | 401.049 | 401.151 |
| 90.0 | 399.887 | 399.932 | 399.976 | 399.909 | 399.841 | 399.819 | 399.796 | 399.796 | 399.796 | 399.887 |
| 92.5 | 400.625 | 400.736 | 400.849 | 400.815 | 400.782 | 400.725 | 400.669 | 400.647 | 400.625 | 400.725 |
| 95.0 | 401.362 | 401.542 | 401.721 | 401.721 | 401.721 | 401.631 | 401.542 | 401.498 | 401.453 | 401.566 |
| 97.5 | 400.714 | 400.848 | 400.982 | 400.915 | 400.849 | 400.793 | 400.736 | 400.747 | 400.760 | 400.849 |
| 100.0 | 400.065 | 400.154 | 400.244 | 400.110 | 399.976 | 399.954 | 399.931 | 399.998 | 400.065 | 400.132 |
| 102.5 | 402.526 | 402.481 | 402.437 | 402.470 | 402.504 | 402.437 | 402.370 | 402.359 | 402.348 | 402.381 |
| 105.0 | 404.988 | 404.809 | 404.629 | 404.831 | 405.033 | 404.922 | 404.809 | 404.720 | 404.629 | 404.629 |
| 107.5 | 403.221 | 403.076 | 402.930 | 403.063 | 403.198 | 403.086 | 402.974 | 402.929 | 402.885 | 402.918 |
| 110.0 | 401.453 | 401.342 | 401.229 | 401.296 | 401.362 | 401.251 | 401.139 | 401.139 | 401.139 | 401.206 |
| 112.5 | 396.509 | 396.463 | 396.419 | 396.463 | 396.507 | 396.485 | 396.463 | 396.474 | 396.485 | 396.440 |
| 115.0 | 391.563 | 391.586 | 391.608 | 391.630 | 391.652 | 391.719 | 391.786 | 391.810 | 391.832 | 391.675 |
| 117.5 | 386.125 | 386.160 | 386.193 | 386.125 | 386.058 | 386.103 | 386.149 | 386.238 | 386.327 | 386.204 |
| 120.0 | 380.688 | 380.733 | 380.777 | 380.621 | 380.464 | 380.488 | 380.510 | 380.666 | 380.823 | 380.733 |
| 122.5 | 372.991 | 372.913 | 372.835 | 372.779 | 372.724 | 372.700 | 372.678 | 372.779 | 372.880 | 372.880 |
| 125.0 | 365.295 | 365.093 | 364.891 | 364.936 | 364.982 | 364.914 | 364.847 | 364.892 | 364.936 | 365.026 |
| 127.5 | 361.043 | 360.920 | 360.798 | 360.898 | 361.000 | 360.987 | 360.976 | 361.010 | 361.043 | 361.021 |
| 130.0 | 356.792 | 356.748 | 356.703 | 356.859 | 357.016 | 357.061 | 357.105 | 357.128 | 357.150 | 357.016 |
| 132.5 | 344.688 | 344.677 | 344.666 | 344.721 | 344.777 | 344.844 | 344.911 | 344.933 | 344.957 | 344.810 |
| 135.0 | 332.582 | 332.605 | 332.627 | 332.583 | 332.538 | 332.627 | 332.716 | 332.740 | 332.762 | 332.605 |
| 137.5 | 326.071 | 326.082 | 326.094 | 326.071 | 326.049 | 326.094 | 326.138 | 326.138 | 326.138 | 326.127 |
| 140.0 | 319.560 | 319.560 | 319.560 | 319.560 | 319.560 | 319.560 | 319.560 | 319.538 | 319.515 | 319.650 |
| 142.5 | 313.945 | 313.956 | 313.967 | 313.910 | 313.855 | 313.855 | 313.855 | 313.854 | 313.854 | 313.943 |
| 145.0 | 308.328 | 308.351 | 308.373 | 308.262 | 308.149 | 308.149 | 308.149 | 308.171 | 308.193 | 308.238 |
| 147.5 | 306.157 | 306.214 | 306.270 | 306.247 | 306.225 | 306.181 | 306.135 | 306.101 | 306.068 | 306.135 |
| 150.0 | 303.987 | 304.076 | 304.166 | 304.233 | 304.300 | 304.211 | 304.122 | 304.032 | 303.942 | 304.032 |
| 152.5 | 300.251 | 300.296 | 300.340 | 300.440 | 300.542 | 300.452 | 300.363 | 300.318 | 300.273 | 300.396 |
| 155.0 | 296.514 | 296.514 | 296.514 | 296.649 | 296.782 | 296.693 | 296.603 | 296.603 | 296.603 | 296.760 |
| 157.5 | 291.994 | 292.095 | 292.196 | 292.241 | 292.285 | 292.196 | 292.106 | 292.150 | 292.196 | 292.307 |
| 160.0 | 287.474 | 287.675 | 287.877 | 287.833 | 287.788 | 287.699 | 287.608 | 287.699 | 287.788 | 287.855 |
| 162.5 | 284.386 | 284.499 | 284.610 | 284.510 | 284.410 | 284.421 | 284.432 | 284.532 | 284.633 | 284.554 |
| 165.0 | 281.299 | 281.321 | 281.343 | 281.187 | 281.030 | 281.143 | 281.254 | 281.366 | 281.478 | 281.254 |
| 167.5 | 278.480 | 278.491 | 278.502 | 278.491 | 278.480 | 278.547 | 278.614 | 278.647 | 278.681 | 278.547 |
| 170.0 | 275.660 | 275.660 | 275.660 | 275.795 | 275.929 | 275.951 | 275.973 | 275.929 | 275.884 | 275.840 |
| 172.5 | 272.864 | 272.886 | 272.908 | 272.953 | 272.998 | 273.031 | 273.064 | 273.031 | 272.998 | 273.031 |
| 175.0 | 270.066 | 270.112 | 270.156 | 270.112 | 270.066 | 270.112 | 270.156 | 270.134 | 270.112 | 270.224 |
| 177.5 | 273.423 | 273.445 | 273.468 | 273.445 | 273.423 | 273.445 | 273.468 | 273.457 | 273.446 | 273.501 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <u>125.0</u> | <u>127.5</u> | <u>130.0</u> | <u>132.5</u> | <u>135.0</u> | <u>137.5</u> | <u>140.0</u> | <u>142.5</u> | <u>145.0</u> | <u>147.5</u> |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.546 | 273.557 | 273.501 | 273.445 | 273.388 | 273.333 | 273.377 | 273.423 | 273.456 |
| 5.0 | 270.335 | 270.357 | 270.379 | 270.268 | 270.156 | 270.044 | 269.932 | 270.022 | 270.112 | 270.179 |
| 7.5 | 272.931 | 273.009 | 273.088 | 273.042 | 272.997 | 272.886 | 272.773 | 272.897 | 273.020 | 272.998 |
| 10.0 | 275.526 | 275.660 | 275.795 | 275.817 | 275.839 | 275.727 | 275.615 | 275.773 | 275.929 | 275.818 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12.5 | 278.301 | 278.423 | 278.547 | 278.603 | 278.658 | 278.569 | 278.480 | 278.591 | 278.703 | 278.580 |
| 15.0 | 281.075 | 281.188 | 281.299 | 281.388 | 281.478 | 281.410 | 281.343 | 281.410 | 281.478 | 281.343 |
| 17.5 | 284.342 | 284.432 | 284.521 | 284.610 | 284.699 | 284.610 | 284.521 | 284.565 | 284.610 | 284.510 |
| 20.0 | 287.608 | 287.675 | 287.743 | 287.832 | 287.921 | 287.810 | 287.697 | 287.721 | 287.743 | 287.675 |
| 22.5 | 292.710 | 292.487 | 292.263 | 292.654 | 293.045 | 292.945 | 292.844 | 292.844 | 292.845 | 292.463 |
| 25.0 | 297.811 | 297.297 | 296.782 | 297.476 | 298.170 | 298.080 | 297.990 | 297.968 | 297.946 | 297.253 |
| 27.5 | 301.235 | 300.978 | 300.720 | 301.045 | 301.369 | 301.257 | 301.146 | 301.168 | 301.191 | 300.809 |
| 30.0 | 304.658 | 304.658 | 304.658 | 304.614 | 304.569 | 304.435 | 304.300 | 304.367 | 304.435 | 304.367 |
| 32.5 | 306.516 | 306.459 | 306.404 | 306.359 | 306.314 | 306.247 | 306.179 | 306.203 | 306.225 | 306.225 |
| 35.0 | 308.373 | 308.262 | 308.149 | 308.104 | 308.059 | 308.059 | 308.059 | 308.037 | 308.015 | 308.082 |
| 37.5 | 313.899 | 313.832 | 313.765 | 313.754 | 313.743 | 313.809 | 313.876 | 313.865 | 313.854 | 313.821 |
| 40.0 | 319.426 | 319.404 | 319.381 | 319.404 | 319.426 | 319.560 | 319.694 | 319.694 | 319.694 | 319.560 |
| 42.5 | 326.071 | 326.015 | 325.960 | 325.993 | 326.027 | 326.149 | 326.273 | 325.869 | 325.467 | 325.702 |
| 45.0 | 332.716 | 332.627 | 332.538 | 332.583 | 332.627 | 332.740 | 332.851 | 332.045 | 331.239 | 331.843 |
| 47.5 | 345.179 | 344.966 | 344.755 | 344.732 | 344.710 | 344.788 | 344.866 | 344.486 | 344.106 | 344.441 |
| 50.0 | 357.642 | 357.307 | 356.971 | 356.881 | 356.792 | 356.837 | 356.881 | 356.927 | 356.971 | 357.038 |
| 52.5 | 361.178 | 361.087 | 360.998 | 360.943 | 360.887 | 360.831 | 360.774 | 360.820 | 360.865 | 360.865 |
| 55.0 | 364.713 | 364.869 | 365.026 | 365.004 | 364.982 | 364.825 | 364.667 | 364.713 | 364.758 | 364.691 |
| 57.5 | 372.678 | 372.700 | 372.724 | 372.791 | 372.858 | 372.724 | 372.589 | 372.622 | 372.656 | 372.689 |
| 60.0 | 380.644 | 380.533 | 380.420 | 380.577 | 380.733 | 380.622 | 380.510 | 380.532 | 380.554 | 380.688 |
| 62.5 | 386.283 | 386.216 | 386.149 | 386.216 | 386.283 | 386.305 | 386.327 | 386.338 | 386.349 | 386.451 |
| 65.0 | 391.921 | 391.899 | 391.876 | 391.854 | 391.832 | 391.988 | 392.145 | 392.145 | 392.145 | 392.212 |
| 67.5 | 396.978 | 397.022 | 397.067 | 397.011 | 396.956 | 397.022 | 397.089 | 397.167 | 397.247 | 397.604 |
| 70.0 | 402.034 | 402.146 | 402.257 | 402.168 | 402.079 | 402.057 | 402.034 | 402.191 | 402.348 | 402.997 |
| 72.5 | 404.071 | 404.138 | 404.205 | 404.115 | 404.025 | 403.992 | 403.958 | 404.036 | 404.116 | 404.496 |
| 75.0 | 406.106 | 406.130 | 406.152 | 406.062 | 405.972 | 405.928 | 405.883 | 405.883 | 405.883 | 405.995 |
| 77.5 | 402.863 | 402.941 | 403.019 | 402.963 | 402.907 | 402.907 | 402.907 | 402.874 | 402.839 | 402.896 |
| 80.0 | 399.618 | 399.752 | 399.887 | 399.865 | 399.841 | 399.887 | 399.931 | 399.863 | 399.796 | 399.796 |
| 82.5 | 401.073 | 401.106 | 401.140 | 401.206 | 401.273 | 401.284 | 401.296 | 401.262 | 401.229 | 400.949 |
| 85.0 | 402.526 | 402.459 | 402.392 | 402.548 | 402.705 | 402.683 | 402.661 | 402.661 | 402.661 | 402.102 |
| 87.5 | 401.251 | 401.128 | 401.005 | 401.084 | 401.162 | 401.184 | 401.207 | 401.195 | 401.184 | 400.971 |
| 90.0 | 399.976 | 399.797 | 399.618 | 399.618 | 399.618 | 399.685 | 399.752 | 399.730 | 399.707 | 399.841 |
| 92.5 | 400.827 | 400.703 | 400.580 | 400.614 | 400.647 | 400.636 | 400.625 | 400.669 | 400.714 | 400.782 |
| 95.0 | 401.677 | 401.609 | 401.542 | 401.609 | 401.677 | 401.587 | 401.497 | 401.609 | 401.721 | 401.721 |
| 97.5 | 400.938 | 400.905 | 400.871 | 400.860 | 400.849 | 400.849 | 400.849 | 400.849 | 400.849 | 400.826 |
| 100.0 | 400.200 | 400.200 | 400.200 | 400.110 | 400.020 | 400.110 | 400.200 | 400.089 | 399.976 | 399.932 |
| 102.5 | 402.415 | 402.493 | 402.572 | 402.504 | 402.437 | 402.481 | 402.526 | 402.448 | 402.370 | 402.359 |
| 105.0 | 404.629 | 404.786 | 404.942 | 404.898 | 404.853 | 404.853 | 404.853 | 404.809 | 404.764 | 404.787 |
| 107.5 | 402.952 | 402.985 | 403.019 | 403.019 | 403.019 | 403.074 | 403.130 | 403.097 | 403.063 | 403.030 |
| 110.0 | 401.273 | 401.184 | 401.095 | 401.140 | 401.184 | 401.296 | 401.408 | 401.386 | 401.362 | 401.273 |
| 112.5 | 396.396 | 396.429 | 396.463 | 396.496 | 396.530 | 396.598 | 396.665 | 396.676 | 396.687 | 396.698 |
| 115.0 | 391.517 | 391.675 | 391.832 | 391.854 | 391.876 | 391.899 | 391.921 | 391.966 | 392.010 | 392.123 |
| 117.5 | 386.081 | 386.125 | 386.171 | 386.171 | 386.171 | 386.193 | 386.216 | 386.238 | 386.260 | 386.316 |
| 120.0 | 380.644 | 380.577 | 380.510 | 380.488 | 380.464 | 380.488 | 380.510 | 380.510 | 380.510 | 380.510 |
| 122.5 | 372.880 | 372.880 | 372.880 | 372.735 | 372.589 | 372.611 | 372.635 | 372.700 | 372.768 | 372.678 |
| 125.0 | 365.115 | 365.182 | 365.249 | 364.982 | 364.713 | 364.736 | 364.758 | 364.892 | 365.026 | 364.847 |
| 127.5 | 360.998 | 361.043 | 361.089 | 360.931 | 360.774 | 360.831 | 360.887 | 360.920 | 360.954 | 360.820 |
| 130.0 | 356.881 | 356.905 | 356.927 | 356.881 | 356.836 | 356.927 | 357.016 | 356.949 | 356.881 | 356.792 |
| 132.5 | 344.664 | 344.721 | 344.777 | 344.755 | 344.732 | 344.810 | 344.889 | 344.799 | 344.710 | 344.721 |
| 135.0 | 332.447 | 332.538 | 332.627 | 332.627 | 332.627 | 332.694 | 332.762 | 332.651 | 332.538 | 332.651 |
| 137.5 | 326.116 | 326.160 | 326.206 | 326.173 | 326.138 | 326.138 | 326.138 | 326.071 | 326.004 | 326.038 |
| 140.0 | 319.784 | 319.784 | 319.784 | 319.717 | 319.650 | 319.582 | 319.515 | 319.493 | 319.470 | 319.426 |
| 142.5 | 314.034 | 314.011 | 313.989 | 314.011 | 314.034 | 313.956 | 313.877 | 313.832 | 313.787 | 313.821 |
| 145.0 | 308.282 | 308.238 | 308.193 | 308.306 | 308.417 | 308.328 | 308.238 | 308.171 | 308.104 | 308.216 |
| 147.5 | 306.203 | 306.225 | 306.247 | 306.303 | 306.359 | 306.303 | 306.247 | 306.157 | 306.068 | 306.190 |
| 150.0 | 304.122 | 304.211 | 304.300 | 304.300 | 304.300 | 304.278 | 304.255 | 304.144 | 304.031 | 304.166 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 152.5 | 300.520 | 300.575 | 300.631 | 300.531 | 300.429 | 300.407 | 300.385 | 300.396 | 300.407 | 300.474 |
| 155.0 | 296.916 | 296.940 | 296.962 | 296.760 | 296.558 | 296.536 | 296.514 | 296.649 | 296.782 | 296.782 |
| 157.5 | 292.419 | 292.385 | 292.352 | 292.274 | 292.196 | 292.185 | 292.174 | 292.207 | 292.240 | 292.240 |
| 160.0 | 287.921 | 287.832 | 287.743 | 287.788 | 287.832 | 287.832 | 287.832 | 287.765 | 287.697 | 287.697 |
| 162.5 | 284.476 | 284.476 | 284.476 | 284.476 | 284.476 | 284.465 | 284.454 | 284.454 | 284.454 | 284.487 |
| 165.0 | 281.030 | 281.119 | 281.209 | 281.165 | 281.119 | 281.097 | 281.075 | 281.143 | 281.209 | 281.276 |
| 167.5 | 278.412 | 278.491 | 278.569 | 278.524 | 278.480 | 278.401 | 278.323 | 278.178 | 278.032 | 278.323 |
| 170.0 | 275.795 | 275.862 | 275.929 | 275.884 | 275.839 | 275.705 | 275.571 | 275.213 | 274.854 | 275.369 |
| 172.5 | 273.066 | 273.066 | 273.066 | 272.975 | 272.886 | 272.852 | 272.819 | 272.651 | 272.484 | 272.773 |
| 175.0 | 270.335 | 270.268 | 270.201 | 270.066 | 269.932 | 269.999 | 270.066 | 270.090 | 270.112 | 270.179 |
| 177.5 | 273.557 | 273.524 | 273.490 | 273.423 | 273.355 | 273.390 | 273.423 | 273.434 | 273.446 | 273.479 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | <u>150.0</u> | <u>152.5</u> | <u>155.0</u> | <u>157.5</u> | <u>160.0</u> | <u>162.5</u> | <u>165.0</u> | <u>167.5</u> | <u>170.0</u> | <u>172.5</u> |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.490 | 273.479 | 273.468 | 273.423 | 273.377 | 273.423 | 273.468 | 273.423 | 273.377 | 273.355 |
| 5.0 | 270.245 | 270.223 | 270.201 | 270.112 | 270.021 | 270.112 | 270.201 | 270.112 | 270.021 | 269.977 |
| 7.5 | 272.975 | 272.931 | 272.886 | 272.897 | 272.908 | 272.919 | 272.931 | 272.897 | 272.864 | 272.908 |
| 10.0 | 275.705 | 275.638 | 275.571 | 275.683 | 275.795 | 275.727 | 275.660 | 275.683 | 275.705 | 275.840 |
| 12.5 | 278.458 | 278.423 | 278.390 | 278.480 | 278.569 | 278.491 | 278.412 | 278.502 | 278.592 | 278.558 |
| 15.0 | 281.209 | 281.209 | 281.209 | 281.276 | 281.343 | 281.254 | 281.165 | 281.321 | 281.478 | 281.277 |
| 17.5 | 284.408 | 284.454 | 284.499 | 284.543 | 284.588 | 284.521 | 284.454 | 284.532 | 284.610 | 284.488 |
| 20.0 | 287.608 | 287.699 | 287.788 | 287.810 | 287.832 | 287.788 | 287.743 | 287.743 | 287.743 | 287.699 |
| 22.5 | 292.083 | 292.520 | 292.956 | 292.956 | 292.956 | 292.554 | 292.150 | 292.185 | 292.218 | 292.185 |
| 25.0 | 296.558 | 297.342 | 298.124 | 298.102 | 298.080 | 297.320 | 296.558 | 296.625 | 296.693 | 296.671 |
| 27.5 | 300.429 | 300.787 | 301.146 | 301.100 | 301.056 | 300.731 | 300.407 | 300.396 | 300.385 | 300.429 |
| 30.0 | 304.300 | 304.233 | 304.166 | 304.098 | 304.031 | 304.144 | 304.255 | 304.166 | 304.076 | 304.189 |
| 32.5 | 306.225 | 306.214 | 306.203 | 306.146 | 306.090 | 306.203 | 306.314 | 306.247 | 306.179 | 306.203 |
| 35.0 | 308.149 | 308.194 | 308.238 | 308.194 | 308.149 | 308.262 | 308.373 | 308.328 | 308.282 | 308.216 |
| 37.5 | 313.788 | 313.843 | 313.899 | 313.854 | 313.810 | 313.921 | 314.034 | 314.011 | 313.989 | 313.943 |
| 40.0 | 319.426 | 319.493 | 319.560 | 319.515 | 319.470 | 319.582 | 319.694 | 319.694 | 319.694 | 319.672 |
| 42.5 | 325.937 | 326.004 | 326.071 | 326.104 | 326.138 | 326.206 | 326.273 | 326.273 | 326.273 | 326.217 |
| 45.0 | 332.447 | 332.515 | 332.582 | 332.694 | 332.806 | 332.829 | 332.851 | 332.851 | 332.851 | 332.762 |
| 47.5 | 344.777 | 344.721 | 344.664 | 344.799 | 344.933 | 344.955 | 344.979 | 344.966 | 344.955 | 344.855 |
| 50.0 | 357.105 | 356.927 | 356.747 | 356.903 | 357.060 | 357.083 | 357.105 | 357.083 | 357.060 | 356.949 |
| 52.5 | 360.865 | 360.853 | 360.842 | 360.942 | 361.043 | 361.009 | 360.976 | 360.909 | 360.842 | 360.785 |
| 55.0 | 364.623 | 364.780 | 364.936 | 364.982 | 365.026 | 364.936 | 364.847 | 364.736 | 364.623 | 364.623 |
| 57.5 | 372.724 | 372.779 | 372.835 | 372.779 | 372.724 | 372.711 | 372.700 | 372.667 | 372.635 | 372.600 |
| 60.0 | 380.823 | 380.779 | 380.733 | 380.577 | 380.420 | 380.488 | 380.554 | 380.599 | 380.644 | 380.577 |
| 62.5 | 386.551 | 386.529 | 386.507 | 386.349 | 386.193 | 386.193 | 386.193 | 386.260 | 386.327 | 386.271 |
| 65.0 | 392.279 | 392.279 | 392.279 | 392.123 | 391.965 | 391.899 | 391.832 | 391.921 | 392.010 | 391.966 |
| 67.5 | 397.962 | 397.571 | 397.180 | 397.493 | 397.806 | 397.682 | 397.560 | 397.604 | 397.649 | 397.626 |
| 70.0 | 403.645 | 402.863 | 402.079 | 402.863 | 403.645 | 403.467 | 403.287 | 403.287 | 403.287 | 403.287 |
| 72.5 | 404.876 | 404.127 | 403.377 | 403.769 | 404.160 | 404.138 | 404.115 | 404.058 | 404.003 | 404.036 |
| 75.0 | 406.106 | 405.391 | 404.675 | 404.675 | 404.675 | 404.809 | 404.942 | 404.831 | 404.719 | 404.786 |
| 77.5 | 402.952 | 402.572 | 402.191 | 402.157 | 402.124 | 402.213 | 402.303 | 402.314 | 402.325 | 402.359 |
| 80.0 | 399.796 | 399.752 | 399.707 | 399.640 | 399.572 | 399.618 | 399.663 | 399.797 | 399.931 | 399.931 |
| 82.5 | 400.669 | 400.871 | 401.073 | 400.837 | 400.602 | 400.591 | 400.580 | 400.725 | 400.871 | 400.837 |
| 85.0 | 401.542 | 401.990 | 402.437 | 402.035 | 401.631 | 401.564 | 401.497 | 401.653 | 401.810 | 401.744 |
| 87.5 | 400.760 | 400.994 | 401.229 | 401.016 | 400.804 | 400.680 | 400.558 | 400.636 | 400.714 | 400.758 |
| 90.0 | 399.976 | 399.998 | 400.020 | 399.998 | 399.976 | 399.797 | 399.618 | 399.618 | 399.618 | 399.774 |
| 92.5 | 400.849 | 400.871 | 400.893 | 400.893 | 400.893 | 400.691 | 400.491 | 400.535 | 400.580 | 400.692 |
| 95.0 | 401.721 | 401.744 | 401.766 | 401.788 | 401.810 | 401.586 | 401.362 | 401.453 | 401.542 | 401.609 |
| 97.5 | 400.804 | 400.815 | 400.827 | 400.893 | 400.960 | 400.849 | 400.736 | 400.647 | 400.558 | 400.725 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 100.0 | 399.887 | 399.887 | 399.887 | 399.999 | 400.110 | 400.110 | 400.110 | 399.841 | 399.572 | 399.841 |
| 102.5 | 402.348 | 402.337 | 402.326 | 402.415 | 402.504 | 402.437 | 402.370 | 402.270 | 402.168 | 402.359 |
| 105.0 | 404.809 | 404.787 | 404.764 | 404.831 | 404.898 | 404.764 | 404.629 | 404.697 | 404.764 | 404.876 |
| 107.5 | 402.997 | 403.052 | 403.108 | 403.063 | 403.019 | 403.556 | 404.093 | 404.093 | 404.093 | 404.127 |
| 110.0 | 401.184 | 401.318 | 401.453 | 401.296 | 401.139 | 402.348 | 403.556 | 403.489 | 403.421 | 403.377 |
| 112.5 | 396.709 | 396.676 | 396.643 | 396.530 | 396.418 | 397.123 | 397.828 | 397.760 | 397.693 | 397.660 |
| 115.0 | 392.234 | 392.034 | 391.832 | 391.764 | 391.697 | 391.899 | 392.099 | 392.032 | 391.965 | 391.943 |
| 117.5 | 386.372 | 386.338 | 386.305 | 386.249 | 386.193 | 386.293 | 386.394 | 386.394 | 386.394 | 386.383 |
| 120.0 | 380.510 | 380.644 | 380.777 | 380.733 | 380.688 | 380.688 | 380.688 | 380.755 | 380.823 | 380.823 |
| 122.5 | 372.589 | 372.722 | 372.857 | 372.779 | 372.700 | 372.711 | 372.724 | 372.746 | 372.768 | 372.846 |
| 125.0 | 364.667 | 364.802 | 364.936 | 364.825 | 364.713 | 364.736 | 364.758 | 364.736 | 364.713 | 364.869 |
| 127.5 | 360.685 | 360.842 | 360.998 | 360.864 | 360.730 | 360.730 | 360.730 | 360.776 | 360.820 | 360.865 |
| 130.0 | 356.703 | 356.881 | 357.060 | 356.903 | 356.747 | 356.725 | 356.703 | 356.816 | 356.927 | 356.859 |
| 132.5 | 344.733 | 344.788 | 344.844 | 344.766 | 344.688 | 344.688 | 344.688 | 344.688 | 344.688 | 344.755 |
| 135.0 | 332.762 | 332.694 | 332.627 | 332.627 | 332.627 | 332.649 | 332.671 | 332.560 | 332.447 | 332.649 |
| 137.5 | 326.071 | 326.060 | 326.049 | 326.082 | 326.116 | 326.149 | 326.182 | 326.093 | 326.004 | 326.105 |
| 140.0 | 319.381 | 319.426 | 319.470 | 319.537 | 319.604 | 319.650 | 319.694 | 319.628 | 319.560 | 319.560 |
| 142.5 | 313.854 | 313.899 | 313.943 | 313.978 | 314.011 | 313.921 | 313.832 | 313.888 | 313.945 | 313.967 |
| 145.0 | 308.328 | 308.373 | 308.417 | 308.417 | 308.417 | 308.193 | 307.969 | 308.149 | 308.328 | 308.373 |
| 147.5 | 306.314 | 306.269 | 306.225 | 306.292 | 306.359 | 306.336 | 306.314 | 306.225 | 306.135 | 306.303 |
| 150.0 | 304.300 | 304.166 | 304.031 | 304.166 | 304.300 | 304.480 | 304.658 | 304.300 | 303.942 | 304.233 |
| 152.5 | 300.542 | 300.496 | 300.451 | 300.474 | 300.496 | 300.598 | 300.698 | 300.496 | 300.295 | 300.474 |
| 155.0 | 296.782 | 296.827 | 296.871 | 296.782 | 296.693 | 296.716 | 296.738 | 296.693 | 296.647 | 296.715 |
| 157.5 | 292.240 | 292.240 | 292.240 | 292.240 | 292.241 | 292.196 | 292.152 | 292.106 | 292.061 | 292.196 |
| 160.0 | 287.697 | 287.653 | 287.608 | 287.699 | 287.788 | 287.677 | 287.564 | 287.519 | 287.474 | 287.675 |
| 162.5 | 284.521 | 284.443 | 284.364 | 284.454 | 284.544 | 284.454 | 284.364 | 284.375 | 284.386 | 284.465 |
| 165.0 | 281.343 | 281.232 | 281.119 | 281.210 | 281.299 | 281.232 | 281.165 | 281.232 | 281.299 | 281.254 |
| 167.5 | 278.614 | 278.491 | 278.367 | 278.480 | 278.592 | 278.580 | 278.569 | 278.547 | 278.525 | 278.480 |
| 170.0 | 275.884 | 275.749 | 275.615 | 275.749 | 275.884 | 275.929 | 275.973 | 275.862 | 275.749 | 275.705 |
| 172.5 | 273.064 | 272.997 | 272.930 | 272.930 | 272.931 | 272.986 | 273.042 | 272.997 | 272.953 | 272.875 |
| 175.0 | 270.245 | 270.245 | 270.245 | 270.112 | 269.977 | 270.044 | 270.112 | 270.134 | 270.156 | 270.044 |
| 177.5 | 273.512 | 273.512 | 273.512 | 273.445 | 273.379 | 273.412 | 273.446 | 273.457 | 273.468 | 273.412 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

**Vert.
Angles**

Horizontal Angles

| | 175.0 | 177.5 | 180.0 | 182.5 | 185.0 | 187.5 | 190.0 | 192.5 | 195.0 | 197.5 |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.333 | 273.333 | 273.333 | 273.401 | 273.468 | 273.468 | 273.468 | 273.434 | 273.401 | 273.401 |
| 5.0 | 269.932 | 269.932 | 269.932 | 270.066 | 270.201 | 270.201 | 270.201 | 270.134 | 270.066 | 270.066 |
| 7.5 | 272.953 | 272.908 | 272.864 | 272.931 | 272.998 | 272.975 | 272.953 | 272.908 | 272.864 | 272.886 |
| 10.0 | 275.973 | 275.884 | 275.795 | 275.795 | 275.795 | 275.751 | 275.705 | 275.683 | 275.660 | 275.705 |
| 12.5 | 278.525 | 278.502 | 278.480 | 278.558 | 278.636 | 278.547 | 278.458 | 278.423 | 278.390 | 278.458 |
| 15.0 | 281.075 | 281.121 | 281.165 | 281.321 | 281.478 | 281.343 | 281.209 | 281.165 | 281.119 | 281.210 |
| 17.5 | 284.364 | 284.410 | 284.454 | 284.566 | 284.677 | 284.510 | 284.341 | 284.419 | 284.499 | 284.543 |
| 20.0 | 287.653 | 287.699 | 287.743 | 287.810 | 287.877 | 287.675 | 287.474 | 287.675 | 287.877 | 287.877 |
| 22.5 | 292.150 | 292.150 | 292.150 | 292.229 | 292.308 | 292.196 | 292.083 | 292.240 | 292.397 | 292.632 |
| 25.0 | 296.647 | 296.603 | 296.558 | 296.649 | 296.738 | 296.716 | 296.693 | 296.805 | 296.916 | 297.387 |
| 27.5 | 300.474 | 300.362 | 300.251 | 300.362 | 300.474 | 300.396 | 300.318 | 300.474 | 300.631 | 300.822 |
| 30.0 | 304.300 | 304.122 | 303.942 | 304.076 | 304.211 | 304.076 | 303.942 | 304.144 | 304.345 | 304.256 |
| 32.5 | 306.225 | 306.101 | 305.979 | 306.079 | 306.181 | 306.179 | 306.179 | 306.247 | 306.314 | 306.269 |
| 35.0 | 308.149 | 308.082 | 308.015 | 308.082 | 308.149 | 308.284 | 308.417 | 308.350 | 308.282 | 308.282 |
| 37.5 | 313.899 | 313.799 | 313.698 | 313.765 | 313.832 | 313.956 | 314.078 | 314.056 | 314.034 | 313.943 |
| 40.0 | 319.650 | 319.515 | 319.381 | 319.448 | 319.515 | 319.628 | 319.739 | 319.762 | 319.784 | 319.606 |
| 42.5 | 326.160 | 326.049 | 325.937 | 326.038 | 326.138 | 326.138 | 326.138 | 326.149 | 326.162 | 326.071 |
| 45.0 | 332.671 | 332.582 | 332.493 | 332.627 | 332.762 | 332.651 | 332.538 | 332.538 | 332.538 | 332.538 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 47.5 | 344.754 | 344.699 | 344.642 | 344.721 | 344.799 | 344.799 | 344.799 | 344.732 | 344.666 | 344.744 |
| 50.0 | 356.836 | 356.814 | 356.792 | 356.814 | 356.836 | 356.949 | 357.060 | 356.927 | 356.792 | 356.949 |
| 52.5 | 360.730 | 360.798 | 360.865 | 360.864 | 360.864 | 360.887 | 360.909 | 360.909 | 360.909 | 360.976 |
| 55.0 | 364.623 | 364.780 | 364.936 | 364.914 | 364.891 | 364.825 | 364.758 | 364.892 | 365.026 | 365.004 |
| 57.5 | 372.567 | 372.645 | 372.724 | 372.735 | 372.746 | 372.700 | 372.656 | 372.700 | 372.746 | 372.824 |
| 60.0 | 380.510 | 380.510 | 380.510 | 380.555 | 380.599 | 380.577 | 380.554 | 380.510 | 380.464 | 380.644 |
| 62.5 | 386.216 | 386.227 | 386.238 | 386.227 | 386.216 | 386.215 | 386.215 | 386.204 | 386.193 | 386.282 |
| 65.0 | 391.921 | 391.943 | 391.965 | 391.899 | 391.832 | 391.854 | 391.876 | 391.899 | 391.921 | 391.921 |
| 67.5 | 397.604 | 397.391 | 397.178 | 397.402 | 397.627 | 397.682 | 397.738 | 397.704 | 397.671 | 397.693 |
| 70.0 | 403.287 | 402.839 | 402.392 | 402.907 | 403.421 | 403.511 | 403.600 | 403.511 | 403.421 | 403.467 |
| 72.5 | 404.071 | 403.858 | 403.645 | 403.869 | 404.093 | 404.171 | 404.249 | 404.160 | 404.071 | 404.071 |
| 75.0 | 404.853 | 404.876 | 404.898 | 404.831 | 404.764 | 404.831 | 404.898 | 404.809 | 404.719 | 404.675 |
| 77.5 | 402.392 | 402.415 | 402.437 | 402.303 | 402.168 | 402.191 | 402.213 | 402.213 | 402.213 | 402.224 |
| 80.0 | 399.931 | 399.954 | 399.976 | 399.774 | 399.572 | 399.550 | 399.528 | 399.618 | 399.707 | 399.774 |
| 82.5 | 400.804 | 400.782 | 400.760 | 400.625 | 400.491 | 400.569 | 400.647 | 400.669 | 400.692 | 400.669 |
| 85.0 | 401.677 | 401.609 | 401.542 | 401.475 | 401.408 | 401.587 | 401.766 | 401.722 | 401.677 | 401.566 |
| 87.5 | 400.804 | 400.760 | 400.714 | 400.669 | 400.625 | 400.692 | 400.760 | 400.703 | 400.647 | 400.647 |
| 90.0 | 399.931 | 399.909 | 399.887 | 399.865 | 399.841 | 399.797 | 399.752 | 399.685 | 399.618 | 399.730 |
| 92.5 | 400.804 | 400.736 | 400.671 | 400.658 | 400.647 | 400.658 | 400.669 | 400.647 | 400.625 | 400.658 |
| 95.0 | 401.677 | 401.566 | 401.453 | 401.453 | 401.453 | 401.520 | 401.586 | 401.609 | 401.631 | 401.587 |
| 97.5 | 400.894 | 400.725 | 400.558 | 400.692 | 400.827 | 400.771 | 400.714 | 400.815 | 400.916 | 400.804 |
| 100.0 | 400.110 | 399.887 | 399.663 | 399.932 | 400.200 | 400.021 | 399.841 | 400.021 | 400.200 | 400.021 |
| 102.5 | 402.550 | 402.381 | 402.213 | 402.381 | 402.550 | 402.426 | 402.303 | 402.448 | 402.594 | 402.515 |
| 105.0 | 404.988 | 404.876 | 404.764 | 404.831 | 404.898 | 404.831 | 404.764 | 404.876 | 404.988 | 405.011 |
| 107.5 | 404.160 | 404.182 | 404.205 | 404.160 | 404.116 | 404.060 | 404.003 | 404.149 | 404.294 | 403.780 |
| 110.0 | 403.332 | 403.489 | 403.645 | 403.489 | 403.332 | 403.288 | 403.243 | 403.421 | 403.600 | 402.548 |
| 112.5 | 397.627 | 397.749 | 397.873 | 397.817 | 397.760 | 397.716 | 397.671 | 397.760 | 397.850 | 397.178 |
| 115.0 | 391.921 | 392.010 | 392.099 | 392.145 | 392.189 | 392.145 | 392.099 | 392.099 | 392.099 | 391.808 |
| 117.5 | 386.372 | 386.316 | 386.260 | 386.371 | 386.484 | 386.449 | 386.416 | 386.383 | 386.349 | 386.193 |
| 120.0 | 380.823 | 380.622 | 380.420 | 380.599 | 380.777 | 380.755 | 380.733 | 380.666 | 380.599 | 380.577 |
| 122.5 | 372.924 | 372.813 | 372.702 | 372.711 | 372.722 | 372.711 | 372.700 | 372.656 | 372.611 | 372.644 |
| 125.0 | 365.026 | 365.004 | 364.982 | 364.825 | 364.667 | 364.667 | 364.667 | 364.645 | 364.623 | 364.713 |
| 127.5 | 360.909 | 360.876 | 360.843 | 360.820 | 360.798 | 360.809 | 360.820 | 360.842 | 360.865 | 360.887 |
| 130.0 | 356.792 | 356.748 | 356.703 | 356.816 | 356.927 | 356.949 | 356.971 | 357.038 | 357.105 | 357.061 |
| 132.5 | 344.822 | 344.721 | 344.620 | 344.677 | 344.733 | 344.810 | 344.888 | 344.832 | 344.777 | 344.754 |
| 135.0 | 332.851 | 332.694 | 332.538 | 332.538 | 332.538 | 332.672 | 332.806 | 332.627 | 332.447 | 332.447 |
| 137.5 | 326.206 | 326.160 | 326.116 | 326.127 | 326.138 | 326.116 | 326.093 | 326.026 | 325.959 | 325.926 |
| 140.0 | 319.560 | 319.628 | 319.694 | 319.717 | 319.739 | 319.560 | 319.381 | 319.426 | 319.470 | 319.404 |
| 142.5 | 313.989 | 313.932 | 313.876 | 313.921 | 313.967 | 313.854 | 313.743 | 313.787 | 313.832 | 313.854 |
| 145.0 | 308.417 | 308.238 | 308.059 | 308.126 | 308.193 | 308.149 | 308.104 | 308.149 | 308.193 | 308.306 |
| 147.5 | 306.470 | 306.359 | 306.247 | 306.325 | 306.403 | 306.258 | 306.113 | 306.270 | 306.426 | 306.370 |
| 150.0 | 304.524 | 304.480 | 304.435 | 304.524 | 304.613 | 304.367 | 304.122 | 304.391 | 304.658 | 304.435 |
| 152.5 | 300.653 | 300.564 | 300.474 | 300.553 | 300.631 | 300.531 | 300.430 | 300.520 | 300.609 | 300.553 |
| 155.0 | 296.782 | 296.649 | 296.514 | 296.581 | 296.647 | 296.693 | 296.738 | 296.649 | 296.558 | 296.671 |
| 157.5 | 292.330 | 292.161 | 291.994 | 292.128 | 292.263 | 292.285 | 292.308 | 292.161 | 292.016 | 292.172 |
| 160.0 | 287.877 | 287.675 | 287.474 | 287.675 | 287.877 | 287.877 | 287.877 | 287.675 | 287.474 | 287.675 |
| 162.5 | 284.543 | 284.465 | 284.386 | 284.510 | 284.633 | 284.644 | 284.655 | 284.565 | 284.476 | 284.510 |
| 165.0 | 281.209 | 281.254 | 281.299 | 281.344 | 281.388 | 281.410 | 281.432 | 281.456 | 281.478 | 281.343 |
| 167.5 | 278.434 | 278.445 | 278.458 | 278.525 | 278.592 | 278.636 | 278.681 | 278.669 | 278.658 | 278.580 |
| 170.0 | 275.660 | 275.638 | 275.615 | 275.705 | 275.795 | 275.862 | 275.929 | 275.884 | 275.839 | 275.817 |
| 172.5 | 272.797 | 272.830 | 272.864 | 272.942 | 273.020 | 273.088 | 273.155 | 273.064 | 272.975 | 273.009 |
| 175.0 | 269.932 | 270.022 | 270.112 | 270.179 | 270.245 | 270.312 | 270.379 | 270.246 | 270.112 | 270.201 |
| 177.5 | 273.355 | 273.401 | 273.446 | 273.479 | 273.512 | 273.546 | 273.579 | 273.512 | 273.446 | 273.490 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

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CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 200.0 | 202.5 | 205.0 | 207.5 | 210.0 | 212.5 | 215.0 | 217.5 | 220.0 | 222.5 |
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.401 | 273.412 | 273.423 | 273.479 | 273.535 | 273.501 | 273.468 | 273.423 | 273.377 | 273.366 |
| 5.0 | 270.066 | 270.090 | 270.112 | 270.224 | 270.335 | 270.268 | 270.201 | 270.112 | 270.021 | 269.999 |
| 7.5 | 272.908 | 272.919 | 272.931 | 273.042 | 273.155 | 273.099 | 273.042 | 272.930 | 272.819 | 272.875 |
| 10.0 | 275.749 | 275.749 | 275.749 | 275.862 | 275.973 | 275.929 | 275.884 | 275.749 | 275.615 | 275.749 |
| 12.5 | 278.525 | 278.469 | 278.412 | 278.547 | 278.681 | 278.647 | 278.614 | 278.569 | 278.524 | 278.513 |
| 15.0 | 281.299 | 281.188 | 281.075 | 281.232 | 281.388 | 281.366 | 281.343 | 281.388 | 281.432 | 281.276 |
| 17.5 | 284.588 | 284.532 | 284.477 | 284.566 | 284.655 | 284.621 | 284.588 | 284.543 | 284.499 | 284.397 |
| 20.0 | 287.877 | 287.877 | 287.877 | 287.899 | 287.921 | 287.877 | 287.832 | 287.699 | 287.564 | 287.519 |
| 22.5 | 292.867 | 292.856 | 292.845 | 292.542 | 292.240 | 292.553 | 292.867 | 292.800 | 292.732 | 292.765 |
| 25.0 | 297.857 | 297.835 | 297.811 | 297.185 | 296.558 | 297.229 | 297.901 | 297.901 | 297.901 | 298.013 |
| 27.5 | 301.011 | 300.966 | 300.922 | 300.720 | 300.518 | 300.877 | 301.235 | 301.246 | 301.257 | 301.224 |
| 30.0 | 304.166 | 304.098 | 304.031 | 304.255 | 304.479 | 304.524 | 304.569 | 304.591 | 304.613 | 304.435 |
| 32.5 | 306.225 | 306.123 | 306.023 | 306.123 | 306.225 | 306.325 | 306.426 | 306.403 | 306.381 | 306.336 |
| 35.0 | 308.282 | 308.149 | 308.015 | 307.993 | 307.969 | 308.126 | 308.282 | 308.216 | 308.149 | 308.238 |
| 37.5 | 313.854 | 313.821 | 313.788 | 313.787 | 313.787 | 313.821 | 313.854 | 313.877 | 313.899 | 313.888 |
| 40.0 | 319.426 | 319.493 | 319.560 | 319.582 | 319.604 | 319.515 | 319.426 | 319.538 | 319.650 | 319.538 |
| 42.5 | 325.982 | 326.016 | 326.049 | 326.105 | 326.160 | 325.836 | 325.512 | 325.825 | 326.138 | 326.093 |
| 45.0 | 332.538 | 332.538 | 332.538 | 332.627 | 332.716 | 332.158 | 331.598 | 332.112 | 332.627 | 332.649 |
| 47.5 | 344.822 | 344.766 | 344.710 | 344.766 | 344.822 | 344.531 | 344.240 | 344.553 | 344.866 | 344.777 |
| 50.0 | 357.105 | 356.994 | 356.881 | 356.905 | 356.927 | 356.905 | 356.881 | 356.994 | 357.105 | 356.905 |
| 52.5 | 361.043 | 360.998 | 360.954 | 360.865 | 360.776 | 360.820 | 360.865 | 360.865 | 360.865 | 360.763 |
| 55.0 | 364.982 | 365.004 | 365.026 | 364.825 | 364.623 | 364.736 | 364.847 | 364.736 | 364.623 | 364.623 |
| 57.5 | 372.902 | 372.869 | 372.835 | 372.768 | 372.700 | 372.700 | 372.700 | 372.622 | 372.544 | 372.544 |
| 60.0 | 380.823 | 380.733 | 380.644 | 380.711 | 380.777 | 380.666 | 380.554 | 380.510 | 380.464 | 380.464 |
| 62.5 | 386.372 | 386.349 | 386.327 | 386.427 | 386.529 | 386.462 | 386.394 | 386.349 | 386.305 | 386.260 |
| 65.0 | 391.921 | 391.966 | 392.010 | 392.145 | 392.279 | 392.257 | 392.234 | 392.190 | 392.145 | 392.055 |
| 67.5 | 397.716 | 397.414 | 397.112 | 397.526 | 397.940 | 397.526 | 397.112 | 397.089 | 397.067 | 397.022 |
| 70.0 | 403.511 | 402.863 | 402.213 | 402.907 | 403.600 | 402.795 | 401.990 | 401.990 | 401.990 | 401.990 |
| 72.5 | 404.071 | 403.791 | 403.512 | 404.160 | 404.809 | 404.484 | 404.160 | 404.104 | 404.049 | 404.014 |
| 75.0 | 404.629 | 404.720 | 404.809 | 405.413 | 406.017 | 406.174 | 406.330 | 406.219 | 406.106 | 406.039 |
| 77.5 | 402.235 | 402.303 | 402.370 | 402.605 | 402.841 | 402.997 | 403.154 | 403.030 | 402.907 | 402.941 |
| 80.0 | 399.841 | 399.887 | 399.931 | 399.797 | 399.663 | 399.819 | 399.976 | 399.841 | 399.707 | 399.841 |
| 82.5 | 400.647 | 400.904 | 401.162 | 400.916 | 400.671 | 400.927 | 401.184 | 401.173 | 401.162 | 401.229 |
| 85.0 | 401.453 | 401.922 | 402.392 | 402.035 | 401.677 | 402.035 | 402.392 | 402.504 | 402.616 | 402.616 |
| 87.5 | 400.647 | 400.927 | 401.206 | 401.005 | 400.804 | 401.005 | 401.206 | 401.217 | 401.229 | 401.273 |
| 90.0 | 399.841 | 399.931 | 400.020 | 399.976 | 399.931 | 399.976 | 400.020 | 399.931 | 399.841 | 399.931 |
| 92.5 | 400.692 | 400.771 | 400.849 | 400.815 | 400.782 | 400.736 | 400.691 | 400.669 | 400.647 | 400.782 |
| 95.0 | 401.542 | 401.609 | 401.677 | 401.655 | 401.631 | 401.497 | 401.362 | 401.408 | 401.453 | 401.631 |
| 97.5 | 400.692 | 400.703 | 400.714 | 400.782 | 400.849 | 400.725 | 400.602 | 400.725 | 400.849 | 400.849 |
| 100.0 | 399.841 | 399.797 | 399.752 | 399.909 | 400.065 | 399.954 | 399.841 | 400.043 | 400.244 | 400.065 |
| 102.5 | 402.437 | 402.381 | 402.326 | 402.392 | 402.459 | 402.381 | 402.303 | 402.403 | 402.504 | 402.381 |
| 105.0 | 405.033 | 404.966 | 404.898 | 404.876 | 404.853 | 404.809 | 404.764 | 404.764 | 404.764 | 404.697 |
| 107.5 | 403.265 | 403.130 | 402.997 | 403.097 | 403.198 | 403.130 | 403.063 | 403.007 | 402.952 | 402.974 |
| 110.0 | 401.497 | 401.296 | 401.095 | 401.318 | 401.542 | 401.453 | 401.362 | 401.251 | 401.139 | 401.251 |
| 112.5 | 396.507 | 396.507 | 396.509 | 396.676 | 396.843 | 396.765 | 396.687 | 396.596 | 396.507 | 396.541 |
| 115.0 | 391.517 | 391.719 | 391.921 | 392.034 | 392.145 | 392.077 | 392.010 | 391.943 | 391.876 | 391.832 |
| 117.5 | 386.036 | 386.182 | 386.327 | 386.405 | 386.484 | 386.383 | 386.282 | 386.238 | 386.193 | 386.193 |
| 120.0 | 380.554 | 380.644 | 380.733 | 380.779 | 380.823 | 380.688 | 380.554 | 380.532 | 380.510 | 380.555 |
| 122.5 | 372.678 | 372.735 | 372.791 | 372.768 | 372.746 | 372.746 | 372.746 | 372.711 | 372.678 | 372.656 |
| 125.0 | 364.802 | 364.825 | 364.847 | 364.758 | 364.667 | 364.802 | 364.936 | 364.892 | 364.847 | 364.758 |
| 127.5 | 360.909 | 360.876 | 360.842 | 360.809 | 360.774 | 360.798 | 360.820 | 360.798 | 360.776 | 360.763 |
| 130.0 | 357.016 | 356.927 | 356.836 | 356.859 | 356.881 | 356.792 | 356.703 | 356.703 | 356.703 | 356.770 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 132.5 | 344.732 | 344.710 | 344.688 | 344.721 | 344.755 | 344.732 | 344.710 | 344.666 | 344.620 | 344.688 |
| 135.0 | 332.447 | 332.493 | 332.538 | 332.583 | 332.627 | 332.672 | 332.716 | 332.627 | 332.538 | 332.605 |
| 137.5 | 325.893 | 325.993 | 326.094 | 326.105 | 326.116 | 326.171 | 326.228 | 326.171 | 326.116 | 326.116 |
| 140.0 | 319.337 | 319.493 | 319.650 | 319.628 | 319.604 | 319.672 | 319.739 | 319.717 | 319.694 | 319.628 |
| 142.5 | 313.877 | 313.910 | 313.945 | 313.888 | 313.832 | 313.943 | 314.056 | 313.978 | 313.899 | 313.865 |
| 145.0 | 308.417 | 308.328 | 308.238 | 308.149 | 308.059 | 308.216 | 308.373 | 308.238 | 308.104 | 308.104 |
| 147.5 | 306.314 | 306.270 | 306.225 | 306.101 | 305.979 | 306.057 | 306.135 | 306.101 | 306.068 | 306.236 |
| 150.0 | 304.211 | 304.211 | 304.211 | 304.054 | 303.898 | 303.898 | 303.898 | 303.965 | 304.031 | 304.367 |
| 152.5 | 300.496 | 300.507 | 300.520 | 300.363 | 300.207 | 300.296 | 300.385 | 300.351 | 300.318 | 300.463 |
| 155.0 | 296.782 | 296.805 | 296.827 | 296.671 | 296.514 | 296.693 | 296.871 | 296.738 | 296.603 | 296.559 |
| 157.5 | 292.330 | 292.285 | 292.241 | 292.163 | 292.084 | 292.174 | 292.263 | 292.229 | 292.196 | 292.196 |
| 160.0 | 287.877 | 287.766 | 287.653 | 287.653 | 287.653 | 287.653 | 287.653 | 287.721 | 287.788 | 287.833 |
| 162.5 | 284.543 | 284.465 | 284.386 | 284.408 | 284.432 | 284.476 | 284.521 | 284.510 | 284.499 | 284.577 |
| 165.0 | 281.209 | 281.165 | 281.119 | 281.165 | 281.209 | 281.299 | 281.388 | 281.299 | 281.209 | 281.321 |
| 167.5 | 278.502 | 278.469 | 278.434 | 278.491 | 278.547 | 278.345 | 278.145 | 278.289 | 278.434 | 278.535 |
| 170.0 | 275.795 | 275.773 | 275.749 | 275.817 | 275.884 | 275.392 | 274.900 | 275.280 | 275.660 | 275.749 |
| 172.5 | 273.042 | 272.986 | 272.931 | 272.986 | 273.042 | 272.740 | 272.438 | 272.684 | 272.931 | 272.953 |
| 175.0 | 270.290 | 270.201 | 270.112 | 270.157 | 270.201 | 270.090 | 269.977 | 270.090 | 270.201 | 270.157 |
| 177.5 | 273.535 | 273.490 | 273.446 | 273.468 | 273.490 | 273.434 | 273.379 | 273.434 | 273.490 | 273.468 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>227.5</u> | <u>230.0</u> | <u>232.5</u> | <u>235.0</u> | <u>237.5</u> | <u>240.0</u> | <u>242.5</u> | <u>245.0</u> | <u>247.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.355 | 273.445 | 273.535 | 273.445 | 273.355 | 273.401 | 273.445 | 273.467 | 273.490 | 273.512 |
| 5.0 | 269.977 | 270.157 | 270.335 | 270.157 | 269.977 | 270.066 | 270.156 | 270.201 | 270.245 | 270.290 |
| 7.5 | 272.931 | 272.953 | 272.975 | 272.964 | 272.953 | 272.897 | 272.841 | 272.953 | 273.064 | 273.088 |
| 10.0 | 275.884 | 275.749 | 275.615 | 275.773 | 275.929 | 275.727 | 275.526 | 275.705 | 275.884 | 275.884 |
| 12.5 | 278.502 | 278.445 | 278.390 | 278.469 | 278.547 | 278.491 | 278.434 | 278.558 | 278.681 | 278.636 |
| 15.0 | 281.119 | 281.143 | 281.165 | 281.165 | 281.165 | 281.254 | 281.343 | 281.410 | 281.478 | 281.388 |
| 17.5 | 284.297 | 284.386 | 284.477 | 284.488 | 284.499 | 284.521 | 284.543 | 284.610 | 284.677 | 284.610 |
| 20.0 | 287.474 | 287.631 | 287.788 | 287.810 | 287.832 | 287.788 | 287.743 | 287.810 | 287.877 | 287.833 |
| 22.5 | 292.800 | 292.576 | 292.352 | 292.632 | 292.911 | 292.844 | 292.778 | 292.833 | 292.889 | 292.576 |
| 25.0 | 298.124 | 297.520 | 296.916 | 297.453 | 297.990 | 297.901 | 297.811 | 297.857 | 297.901 | 297.320 |
| 27.5 | 301.190 | 300.977 | 300.765 | 300.966 | 301.168 | 301.202 | 301.235 | 301.257 | 301.280 | 300.989 |
| 30.0 | 304.255 | 304.435 | 304.613 | 304.480 | 304.345 | 304.502 | 304.658 | 304.658 | 304.658 | 304.658 |
| 32.5 | 306.292 | 306.325 | 306.359 | 306.348 | 306.337 | 306.415 | 306.494 | 306.426 | 306.359 | 306.426 |
| 35.0 | 308.328 | 308.216 | 308.104 | 308.216 | 308.328 | 308.328 | 308.328 | 308.193 | 308.059 | 308.193 |
| 37.5 | 313.877 | 313.810 | 313.743 | 313.899 | 314.056 | 314.056 | 314.056 | 313.967 | 313.876 | 313.876 |
| 40.0 | 319.426 | 319.404 | 319.381 | 319.582 | 319.784 | 319.784 | 319.784 | 319.739 | 319.694 | 319.560 |
| 42.5 | 326.049 | 326.082 | 326.116 | 326.184 | 326.251 | 326.273 | 326.295 | 326.206 | 326.116 | 325.713 |
| 45.0 | 332.671 | 332.762 | 332.851 | 332.784 | 332.716 | 332.762 | 332.806 | 332.672 | 332.538 | 331.867 |
| 47.5 | 344.688 | 344.755 | 344.822 | 345.057 | 345.292 | 345.314 | 345.336 | 345.314 | 345.292 | 344.855 |
| 50.0 | 356.703 | 356.748 | 356.792 | 357.329 | 357.866 | 357.866 | 357.866 | 357.956 | 358.045 | 357.844 |
| 52.5 | 360.663 | 360.674 | 360.685 | 361.009 | 361.334 | 361.300 | 361.267 | 361.391 | 361.514 | 361.312 |
| 55.0 | 364.623 | 364.601 | 364.578 | 364.691 | 364.802 | 364.735 | 364.667 | 364.825 | 364.982 | 364.780 |
| 57.5 | 372.544 | 372.589 | 372.633 | 372.633 | 372.633 | 372.600 | 372.566 | 372.689 | 372.813 | 372.735 |
| 60.0 | 380.464 | 380.577 | 380.688 | 380.577 | 380.464 | 380.464 | 380.464 | 380.555 | 380.644 | 380.690 |
| 62.5 | 386.215 | 386.349 | 386.484 | 386.360 | 386.238 | 386.271 | 386.305 | 386.360 | 386.416 | 386.416 |
| 65.0 | 391.965 | 392.123 | 392.279 | 392.145 | 392.010 | 392.077 | 392.145 | 392.167 | 392.189 | 392.145 |
| 67.5 | 396.978 | 397.145 | 397.314 | 397.167 | 397.022 | 397.078 | 397.134 | 397.112 | 397.089 | 397.134 |
| 70.0 | 401.990 | 402.170 | 402.348 | 402.191 | 402.034 | 402.079 | 402.124 | 402.057 | 401.990 | 402.124 |
| 72.5 | 403.981 | 404.049 | 404.116 | 404.127 | 404.138 | 404.093 | 404.049 | 404.036 | 404.025 | 404.082 |
| 75.0 | 405.972 | 405.928 | 405.883 | 406.062 | 406.241 | 406.106 | 405.972 | 406.017 | 406.061 | 406.039 |
| 77.5 | 402.974 | 402.896 | 402.817 | 402.885 | 402.952 | 402.930 | 402.907 | 403.265 | 403.623 | 403.534 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 80.0 | 399.976 | 399.865 | 399.752 | 399.708 | 399.663 | 399.752 | 399.841 | 400.513 | 401.184 | 401.027 |
| 82.5 | 401.296 | 401.206 | 401.117 | 401.140 | 401.162 | 401.129 | 401.095 | 401.442 | 401.788 | 401.732 |
| 85.0 | 402.616 | 402.548 | 402.481 | 402.572 | 402.661 | 402.504 | 402.348 | 402.370 | 402.392 | 402.437 |
| 87.5 | 401.318 | 401.273 | 401.229 | 401.195 | 401.162 | 401.117 | 401.073 | 401.038 | 401.005 | 401.027 |
| 90.0 | 400.020 | 399.998 | 399.976 | 399.819 | 399.663 | 399.730 | 399.796 | 399.707 | 399.618 | 399.618 |
| 92.5 | 400.915 | 400.860 | 400.804 | 400.703 | 400.603 | 400.625 | 400.647 | 400.602 | 400.558 | 400.591 |
| 95.0 | 401.810 | 401.721 | 401.631 | 401.587 | 401.542 | 401.520 | 401.497 | 401.497 | 401.497 | 401.564 |
| 97.5 | 400.849 | 400.815 | 400.782 | 400.793 | 400.804 | 400.758 | 400.714 | 400.703 | 400.692 | 400.725 |
| 100.0 | 399.887 | 399.909 | 399.931 | 399.998 | 400.065 | 399.998 | 399.931 | 399.909 | 399.887 | 399.887 |
| 102.5 | 402.259 | 402.303 | 402.348 | 402.381 | 402.415 | 402.448 | 402.482 | 402.459 | 402.437 | 402.370 |
| 105.0 | 404.629 | 404.697 | 404.764 | 404.764 | 404.764 | 404.898 | 405.033 | 405.011 | 404.988 | 404.853 |
| 107.5 | 402.996 | 403.030 | 403.063 | 403.041 | 403.019 | 403.108 | 403.198 | 403.165 | 403.130 | 403.097 |
| 110.0 | 401.362 | 401.362 | 401.362 | 401.318 | 401.273 | 401.318 | 401.362 | 401.318 | 401.273 | 401.340 |
| 112.5 | 396.574 | 396.574 | 396.574 | 396.552 | 396.530 | 396.574 | 396.620 | 396.552 | 396.485 | 396.563 |
| 115.0 | 391.786 | 391.786 | 391.786 | 391.786 | 391.786 | 391.832 | 391.876 | 391.786 | 391.697 | 391.786 |
| 117.5 | 386.193 | 386.238 | 386.282 | 386.238 | 386.193 | 386.260 | 386.327 | 386.215 | 386.103 | 386.171 |
| 120.0 | 380.599 | 380.688 | 380.777 | 380.688 | 380.599 | 380.688 | 380.777 | 380.644 | 380.510 | 380.555 |
| 122.5 | 372.633 | 372.746 | 372.857 | 372.801 | 372.746 | 372.813 | 372.880 | 372.779 | 372.678 | 372.791 |
| 125.0 | 364.667 | 364.802 | 364.936 | 364.914 | 364.891 | 364.936 | 364.982 | 364.914 | 364.847 | 365.027 |
| 127.5 | 360.752 | 360.887 | 361.021 | 360.965 | 360.909 | 360.954 | 361.000 | 360.909 | 360.820 | 360.965 |
| 130.0 | 356.836 | 356.971 | 357.105 | 357.016 | 356.927 | 356.972 | 357.016 | 356.905 | 356.792 | 356.905 |
| 132.5 | 344.754 | 344.855 | 344.955 | 344.888 | 344.822 | 344.810 | 344.799 | 344.743 | 344.688 | 344.732 |
| 135.0 | 332.671 | 332.738 | 332.806 | 332.762 | 332.716 | 332.649 | 332.582 | 332.582 | 332.582 | 332.560 |
| 137.5 | 326.116 | 326.116 | 326.116 | 326.116 | 326.116 | 326.138 | 326.160 | 326.160 | 326.160 | 326.071 |
| 140.0 | 319.560 | 319.493 | 319.426 | 319.471 | 319.515 | 319.628 | 319.739 | 319.739 | 319.739 | 319.582 |
| 142.5 | 313.832 | 313.810 | 313.788 | 313.877 | 313.967 | 314.011 | 314.056 | 314.023 | 313.989 | 313.945 |
| 145.0 | 308.104 | 308.127 | 308.149 | 308.284 | 308.417 | 308.395 | 308.373 | 308.306 | 308.238 | 308.306 |
| 147.5 | 306.403 | 306.281 | 306.157 | 306.179 | 306.203 | 306.247 | 306.292 | 306.292 | 306.292 | 306.292 |
| 150.0 | 304.702 | 304.435 | 304.166 | 304.076 | 303.987 | 304.100 | 304.211 | 304.278 | 304.345 | 304.278 |
| 152.5 | 300.609 | 300.553 | 300.496 | 300.385 | 300.273 | 300.318 | 300.363 | 300.396 | 300.430 | 300.485 |
| 155.0 | 296.514 | 296.671 | 296.827 | 296.693 | 296.558 | 296.536 | 296.514 | 296.514 | 296.514 | 296.693 |
| 157.5 | 292.196 | 292.252 | 292.308 | 292.185 | 292.061 | 292.061 | 292.061 | 292.117 | 292.174 | 292.185 |
| 160.0 | 287.877 | 287.833 | 287.788 | 287.677 | 287.564 | 287.586 | 287.608 | 287.721 | 287.832 | 287.675 |
| 162.5 | 284.655 | 284.599 | 284.544 | 284.510 | 284.477 | 284.432 | 284.386 | 284.487 | 284.588 | 284.499 |
| 165.0 | 281.432 | 281.366 | 281.299 | 281.344 | 281.388 | 281.277 | 281.165 | 281.254 | 281.343 | 281.321 |
| 167.5 | 278.636 | 278.569 | 278.503 | 278.514 | 278.525 | 278.469 | 278.412 | 278.434 | 278.458 | 278.547 |
| 170.0 | 275.839 | 275.773 | 275.705 | 275.683 | 275.660 | 275.660 | 275.660 | 275.616 | 275.571 | 275.773 |
| 172.5 | 272.975 | 272.919 | 272.864 | 272.864 | 272.864 | 272.886 | 272.908 | 272.908 | 272.908 | 272.930 |
| 175.0 | 270.112 | 270.066 | 270.021 | 270.044 | 270.066 | 270.112 | 270.156 | 270.201 | 270.245 | 270.088 |
| 177.5 | 273.446 | 273.423 | 273.401 | 273.412 | 273.423 | 273.445 | 273.468 | 273.490 | 273.512 | 273.434 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

Vert. Horizontal Angles
Angles

| | <u>250.0</u> | <u>252.5</u> | <u>255.0</u> | <u>257.5</u> | <u>260.0</u> | <u>262.5</u> | <u>265.0</u> | <u>267.5</u> | <u>270.0</u> | <u>272.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.512 | 273.490 | 273.456 | 273.423 | 273.490 | 273.557 | 273.445 | 273.333 | 273.333 |
| 5.0 | 270.335 | 270.290 | 270.245 | 270.179 | 270.112 | 270.246 | 270.379 | 270.156 | 269.932 | 269.932 |
| 7.5 | 273.110 | 273.064 | 273.020 | 272.931 | 272.842 | 272.975 | 273.110 | 273.020 | 272.931 | 272.931 |
| 10.0 | 275.884 | 275.840 | 275.795 | 275.683 | 275.571 | 275.705 | 275.839 | 275.884 | 275.929 | 275.929 |
| 12.5 | 278.592 | 278.547 | 278.502 | 278.458 | 278.412 | 278.536 | 278.658 | 278.603 | 278.547 | 278.514 |
| 15.0 | 281.299 | 281.254 | 281.209 | 281.232 | 281.254 | 281.366 | 281.478 | 281.321 | 281.165 | 281.097 |
| 17.5 | 284.544 | 284.543 | 284.543 | 284.499 | 284.454 | 284.521 | 284.588 | 284.521 | 284.454 | 284.454 |
| 20.0 | 287.788 | 287.833 | 287.877 | 287.766 | 287.653 | 287.675 | 287.697 | 287.721 | 287.743 | 287.810 |
| 22.5 | 292.263 | 292.543 | 292.822 | 292.833 | 292.845 | 292.498 | 292.150 | 292.185 | 292.218 | 292.307 |
| 25.0 | 296.738 | 297.253 | 297.766 | 297.901 | 298.035 | 297.320 | 296.603 | 296.649 | 296.693 | 296.805 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 27.5 | 300.698 | 300.900 | 301.100 | 301.179 | 301.257 | 300.866 | 300.474 | 300.542 | 300.609 | 300.597 |
| 30.0 | 304.658 | 304.547 | 304.435 | 304.457 | 304.479 | 304.413 | 304.345 | 304.435 | 304.524 | 304.389 |
| 32.5 | 306.494 | 306.426 | 306.359 | 306.325 | 306.292 | 306.325 | 306.359 | 306.392 | 306.426 | 306.336 |
| 35.0 | 308.328 | 308.306 | 308.282 | 308.193 | 308.104 | 308.238 | 308.373 | 308.351 | 308.328 | 308.284 |
| 37.5 | 313.877 | 314.156 | 314.436 | 314.123 | 313.810 | 313.932 | 314.056 | 314.011 | 313.967 | 313.932 |
| 40.0 | 319.426 | 320.008 | 320.589 | 320.052 | 319.515 | 319.628 | 319.739 | 319.672 | 319.604 | 319.582 |
| 42.5 | 325.311 | 326.004 | 326.697 | 326.082 | 325.467 | 325.882 | 326.295 | 326.171 | 326.049 | 326.060 |
| 45.0 | 331.195 | 332.001 | 332.806 | 332.112 | 331.419 | 332.136 | 332.851 | 332.672 | 332.493 | 332.538 |
| 47.5 | 344.419 | 344.844 | 345.268 | 344.732 | 344.195 | 344.586 | 344.979 | 344.553 | 344.128 | 344.430 |
| 50.0 | 357.642 | 357.687 | 357.731 | 357.351 | 356.971 | 357.038 | 357.105 | 356.434 | 355.763 | 356.323 |
| 52.5 | 361.111 | 361.144 | 361.178 | 361.087 | 360.998 | 360.987 | 360.976 | 360.618 | 360.261 | 360.596 |
| 55.0 | 364.578 | 364.601 | 364.623 | 364.825 | 365.026 | 364.936 | 364.847 | 364.803 | 364.758 | 364.871 |
| 57.5 | 372.656 | 372.689 | 372.724 | 372.790 | 372.857 | 372.768 | 372.678 | 372.667 | 372.656 | 372.746 |
| 60.0 | 380.733 | 380.779 | 380.823 | 380.755 | 380.688 | 380.599 | 380.510 | 380.532 | 380.554 | 380.621 |
| 62.5 | 386.416 | 386.473 | 386.529 | 386.451 | 386.372 | 386.360 | 386.349 | 386.327 | 386.305 | 386.316 |
| 65.0 | 392.099 | 392.167 | 392.234 | 392.145 | 392.055 | 392.123 | 392.189 | 392.123 | 392.055 | 392.010 |
| 67.5 | 397.178 | 397.189 | 397.202 | 397.134 | 397.067 | 397.178 | 397.291 | 397.246 | 397.202 | 397.180 |
| 70.0 | 402.257 | 402.213 | 402.168 | 402.124 | 402.079 | 402.235 | 402.392 | 402.370 | 402.348 | 402.348 |
| 72.5 | 404.138 | 404.171 | 404.205 | 404.182 | 404.160 | 404.216 | 404.272 | 404.272 | 404.272 | 404.216 |
| 75.0 | 406.017 | 406.130 | 406.241 | 406.241 | 406.241 | 406.197 | 406.152 | 406.174 | 406.196 | 406.084 |
| 77.5 | 403.445 | 403.545 | 403.645 | 403.679 | 403.712 | 403.669 | 403.623 | 403.690 | 403.758 | 403.600 |
| 80.0 | 400.871 | 400.960 | 401.049 | 401.117 | 401.184 | 401.140 | 401.095 | 401.207 | 401.318 | 401.117 |
| 82.5 | 401.677 | 401.699 | 401.721 | 401.788 | 401.855 | 401.822 | 401.788 | 401.822 | 401.855 | 401.799 |
| 85.0 | 402.481 | 402.437 | 402.392 | 402.459 | 402.526 | 402.504 | 402.481 | 402.437 | 402.392 | 402.482 |
| 87.5 | 401.049 | 401.128 | 401.206 | 401.162 | 401.117 | 401.139 | 401.162 | 401.095 | 401.027 | 401.062 |
| 90.0 | 399.618 | 399.819 | 400.020 | 399.863 | 399.707 | 399.774 | 399.841 | 399.752 | 399.663 | 399.641 |
| 92.5 | 400.625 | 400.714 | 400.804 | 400.702 | 400.602 | 400.680 | 400.760 | 400.736 | 400.714 | 400.658 |
| 95.0 | 401.631 | 401.609 | 401.586 | 401.542 | 401.497 | 401.587 | 401.677 | 401.722 | 401.766 | 401.677 |
| 97.5 | 400.760 | 400.747 | 400.736 | 400.793 | 400.849 | 400.815 | 400.782 | 400.860 | 400.938 | 400.893 |
| 100.0 | 399.887 | 399.887 | 399.887 | 400.043 | 400.200 | 400.043 | 399.887 | 399.999 | 400.110 | 400.110 |
| 102.5 | 402.303 | 402.359 | 402.415 | 402.426 | 402.437 | 402.370 | 402.303 | 402.437 | 402.572 | 402.482 |
| 105.0 | 404.719 | 404.831 | 404.942 | 404.809 | 404.675 | 404.697 | 404.719 | 404.876 | 405.033 | 404.855 |
| 107.5 | 403.063 | 403.085 | 403.108 | 403.074 | 403.041 | 403.030 | 403.019 | 403.141 | 403.265 | 403.097 |
| 110.0 | 401.408 | 401.340 | 401.273 | 401.340 | 401.408 | 401.364 | 401.318 | 401.408 | 401.497 | 401.340 |
| 112.5 | 396.642 | 396.518 | 396.396 | 396.429 | 396.463 | 396.530 | 396.598 | 396.552 | 396.507 | 396.474 |
| 115.0 | 391.876 | 391.697 | 391.517 | 391.517 | 391.517 | 391.697 | 391.876 | 391.697 | 391.517 | 391.608 |
| 117.5 | 386.238 | 386.160 | 386.081 | 386.092 | 386.103 | 386.282 | 386.462 | 386.271 | 386.081 | 386.204 |
| 120.0 | 380.599 | 380.622 | 380.644 | 380.666 | 380.688 | 380.868 | 381.046 | 380.846 | 380.644 | 380.801 |
| 122.5 | 372.902 | 372.902 | 372.902 | 372.846 | 372.790 | 372.969 | 373.148 | 373.048 | 372.947 | 372.991 |
| 125.0 | 365.205 | 365.183 | 365.160 | 365.026 | 364.891 | 365.071 | 365.249 | 365.249 | 365.249 | 365.182 |
| 127.5 | 361.111 | 361.032 | 360.954 | 360.931 | 360.909 | 360.943 | 360.976 | 361.076 | 361.178 | 361.144 |
| 130.0 | 357.016 | 356.881 | 356.747 | 356.837 | 356.927 | 356.816 | 356.703 | 356.905 | 357.105 | 357.105 |
| 132.5 | 344.777 | 344.710 | 344.642 | 344.721 | 344.799 | 344.375 | 343.949 | 344.128 | 344.307 | 344.251 |
| 135.0 | 332.538 | 332.538 | 332.538 | 332.605 | 332.671 | 331.934 | 331.195 | 331.352 | 331.508 | 331.397 |
| 137.5 | 325.982 | 326.071 | 326.162 | 326.171 | 326.182 | 325.825 | 325.467 | 325.445 | 325.423 | 325.467 |
| 140.0 | 319.426 | 319.606 | 319.784 | 319.739 | 319.694 | 319.717 | 319.739 | 319.538 | 319.337 | 319.538 |
| 142.5 | 313.899 | 313.978 | 314.056 | 313.956 | 313.854 | 313.899 | 313.945 | 313.854 | 313.765 | 313.821 |
| 145.0 | 308.373 | 308.351 | 308.328 | 308.171 | 308.015 | 308.082 | 308.149 | 308.171 | 308.193 | 308.104 |
| 147.5 | 306.292 | 306.281 | 306.270 | 306.179 | 306.090 | 306.101 | 306.113 | 306.203 | 306.292 | 306.124 |
| 150.0 | 304.211 | 304.211 | 304.211 | 304.189 | 304.166 | 304.122 | 304.076 | 304.233 | 304.389 | 304.144 |
| 152.5 | 300.542 | 300.542 | 300.542 | 300.474 | 300.407 | 300.396 | 300.385 | 300.463 | 300.542 | 300.385 |
| 155.0 | 296.871 | 296.871 | 296.871 | 296.760 | 296.647 | 296.671 | 296.693 | 296.693 | 296.693 | 296.625 |
| 157.5 | 292.196 | 292.251 | 292.307 | 292.207 | 292.106 | 292.094 | 292.083 | 292.139 | 292.196 | 292.185 |
| 160.0 | 287.519 | 287.631 | 287.743 | 287.653 | 287.564 | 287.519 | 287.474 | 287.586 | 287.697 | 287.743 |
| 162.5 | 284.410 | 284.410 | 284.410 | 284.375 | 284.342 | 284.397 | 284.454 | 284.430 | 284.408 | 284.499 |
| 165.0 | 281.299 | 281.188 | 281.075 | 281.097 | 281.119 | 281.276 | 281.432 | 281.276 | 281.119 | 281.254 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 167.5 | 278.636 | 278.536 | 278.436 | 278.412 | 278.390 | 278.513 | 278.636 | 278.591 | 278.547 | 278.591 |
| 170.0 | 275.973 | 275.884 | 275.795 | 275.727 | 275.660 | 275.749 | 275.839 | 275.906 | 275.973 | 275.929 |
| 172.5 | 272.953 | 272.975 | 272.998 | 272.964 | 272.931 | 272.919 | 272.908 | 273.008 | 273.110 | 273.053 |
| 175.0 | 269.932 | 270.066 | 270.201 | 270.201 | 270.201 | 270.090 | 269.977 | 270.112 | 270.245 | 270.179 |
| 177.5 | 273.355 | 273.423 | 273.490 | 273.490 | 273.490 | 273.434 | 273.379 | 273.445 | 273.512 | 273.479 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

**Vert.
Angles**

Horizontal Angles

| | <u>275.0</u> | <u>277.5</u> | <u>280.0</u> | <u>282.5</u> | <u>285.0</u> | <u>287.5</u> | <u>290.0</u> | <u>292.5</u> | <u>295.0</u> | <u>297.5</u> |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.333 | 273.377 | 273.423 | 273.412 | 273.401 | 273.434 | 273.468 | 273.501 | 273.535 | 273.434 |
| 5.0 | 269.932 | 270.022 | 270.112 | 270.090 | 270.066 | 270.134 | 270.201 | 270.268 | 270.335 | 270.134 |
| 7.5 | 272.931 | 272.920 | 272.909 | 272.953 | 272.998 | 272.998 | 272.998 | 273.077 | 273.155 | 273.031 |
| 10.0 | 275.929 | 275.818 | 275.705 | 275.818 | 275.929 | 275.862 | 275.795 | 275.884 | 275.973 | 275.929 |
| 12.5 | 278.480 | 278.469 | 278.458 | 278.558 | 278.659 | 278.547 | 278.436 | 278.513 | 278.591 | 278.536 |
| 15.0 | 281.030 | 281.119 | 281.209 | 281.299 | 281.388 | 281.232 | 281.075 | 281.143 | 281.209 | 281.143 |
| 17.5 | 284.454 | 284.397 | 284.341 | 284.476 | 284.610 | 284.532 | 284.454 | 284.408 | 284.364 | 284.375 |
| 20.0 | 287.877 | 287.675 | 287.474 | 287.653 | 287.832 | 287.832 | 287.832 | 287.675 | 287.519 | 287.608 |
| 22.5 | 292.397 | 292.542 | 292.687 | 292.811 | 292.934 | 292.643 | 292.352 | 292.498 | 292.643 | 292.721 |
| 25.0 | 296.916 | 297.409 | 297.901 | 297.968 | 298.035 | 297.453 | 296.871 | 297.319 | 297.766 | 297.833 |
| 27.5 | 300.586 | 300.855 | 301.124 | 301.168 | 301.213 | 300.933 | 300.653 | 300.844 | 301.033 | 301.078 |
| 30.0 | 304.255 | 304.300 | 304.345 | 304.367 | 304.389 | 304.413 | 304.435 | 304.367 | 304.300 | 304.323 |
| 32.5 | 306.247 | 306.236 | 306.225 | 306.270 | 306.314 | 306.303 | 306.292 | 306.325 | 306.359 | 306.270 |
| 35.0 | 308.238 | 308.171 | 308.104 | 308.171 | 308.238 | 308.194 | 308.149 | 308.284 | 308.417 | 308.216 |
| 37.5 | 313.899 | 313.899 | 313.899 | 314.056 | 314.212 | 314.067 | 313.921 | 313.978 | 314.034 | 313.877 |
| 40.0 | 319.560 | 319.628 | 319.694 | 319.941 | 320.186 | 319.941 | 319.694 | 319.672 | 319.650 | 319.538 |
| 42.5 | 326.071 | 325.836 | 325.602 | 325.982 | 326.362 | 325.915 | 325.467 | 325.825 | 326.184 | 326.149 |
| 45.0 | 332.582 | 332.045 | 331.508 | 332.023 | 332.538 | 331.889 | 331.239 | 331.978 | 332.716 | 332.762 |
| 47.5 | 344.732 | 344.464 | 344.195 | 344.744 | 345.292 | 344.911 | 344.531 | 344.933 | 345.336 | 345.325 |
| 50.0 | 356.881 | 356.881 | 356.881 | 357.463 | 358.045 | 357.934 | 357.822 | 357.889 | 357.955 | 357.889 |
| 52.5 | 360.932 | 360.842 | 360.752 | 361.133 | 361.514 | 361.424 | 361.334 | 361.413 | 361.491 | 361.356 |
| 55.0 | 364.982 | 364.803 | 364.623 | 364.803 | 364.982 | 364.914 | 364.847 | 364.936 | 365.026 | 364.825 |
| 57.5 | 372.835 | 372.678 | 372.522 | 372.700 | 372.880 | 372.757 | 372.635 | 372.689 | 372.746 | 372.678 |
| 60.0 | 380.688 | 380.555 | 380.420 | 380.599 | 380.777 | 380.599 | 380.420 | 380.442 | 380.464 | 380.532 |
| 62.5 | 386.327 | 386.327 | 386.327 | 386.416 | 386.506 | 386.394 | 386.283 | 386.260 | 386.238 | 386.338 |
| 65.0 | 391.965 | 392.099 | 392.234 | 392.234 | 392.234 | 392.190 | 392.145 | 392.077 | 392.010 | 392.145 |
| 67.5 | 397.156 | 397.178 | 397.202 | 397.246 | 397.291 | 397.280 | 397.269 | 397.235 | 397.202 | 397.213 |
| 70.0 | 402.348 | 402.259 | 402.168 | 402.259 | 402.348 | 402.370 | 402.392 | 402.392 | 402.392 | 402.281 |
| 72.5 | 404.160 | 404.182 | 404.205 | 404.171 | 404.138 | 404.182 | 404.227 | 404.182 | 404.138 | 404.149 |
| 75.0 | 405.972 | 406.106 | 406.241 | 406.084 | 405.928 | 405.995 | 406.061 | 405.972 | 405.883 | 406.017 |
| 77.5 | 403.443 | 403.545 | 403.645 | 403.567 | 403.489 | 403.500 | 403.511 | 403.500 | 403.489 | 403.198 |
| 80.0 | 400.915 | 400.982 | 401.049 | 401.049 | 401.049 | 401.005 | 400.960 | 401.027 | 401.095 | 400.380 |
| 82.5 | 401.744 | 401.766 | 401.788 | 401.810 | 401.833 | 401.833 | 401.833 | 401.844 | 401.855 | 401.497 |
| 85.0 | 402.572 | 402.550 | 402.526 | 402.572 | 402.616 | 402.661 | 402.705 | 402.661 | 402.616 | 402.616 |
| 87.5 | 401.095 | 401.151 | 401.207 | 401.173 | 401.140 | 401.218 | 401.296 | 401.273 | 401.251 | 401.229 |
| 90.0 | 399.618 | 399.752 | 399.887 | 399.776 | 399.663 | 399.776 | 399.887 | 399.887 | 399.887 | 399.841 |
| 92.5 | 400.602 | 400.636 | 400.671 | 400.614 | 400.558 | 400.625 | 400.692 | 400.771 | 400.849 | 400.815 |
| 95.0 | 401.586 | 401.520 | 401.453 | 401.453 | 401.453 | 401.475 | 401.497 | 401.653 | 401.810 | 401.788 |
| 97.5 | 400.849 | 400.860 | 400.871 | 400.804 | 400.736 | 400.747 | 400.758 | 400.804 | 400.849 | 400.849 |
| 100.0 | 400.110 | 400.200 | 400.289 | 400.154 | 400.020 | 400.020 | 400.020 | 399.954 | 399.887 | 399.909 |
| 102.5 | 402.393 | 402.504 | 402.616 | 402.537 | 402.459 | 402.414 | 402.370 | 402.381 | 402.393 | 402.404 |
| 105.0 | 404.675 | 404.809 | 404.942 | 404.920 | 404.898 | 404.809 | 404.719 | 404.809 | 404.898 | 404.898 |
| 107.5 | 402.930 | 403.074 | 403.220 | 403.119 | 403.019 | 402.974 | 402.929 | 403.019 | 403.108 | 403.086 |
| 110.0 | 401.184 | 401.340 | 401.497 | 401.318 | 401.139 | 401.139 | 401.139 | 401.229 | 401.318 | 401.275 |
| 112.5 | 396.441 | 396.519 | 396.598 | 396.541 | 396.485 | 396.440 | 396.396 | 396.496 | 396.598 | 396.496 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 115.0 | 391.697 | 391.697 | 391.697 | 391.764 | 391.832 | 391.742 | 391.652 | 391.764 | 391.876 | 391.719 |
| 117.5 | 386.327 | 386.249 | 386.171 | 386.216 | 386.260 | 386.249 | 386.238 | 386.271 | 386.305 | 386.249 |
| 120.0 | 380.957 | 380.801 | 380.644 | 380.666 | 380.688 | 380.755 | 380.823 | 380.779 | 380.733 | 380.779 |
| 122.5 | 373.037 | 372.980 | 372.926 | 372.891 | 372.857 | 372.924 | 372.991 | 372.846 | 372.700 | 372.790 |
| 125.0 | 365.115 | 365.160 | 365.205 | 365.116 | 365.026 | 365.093 | 365.160 | 364.914 | 364.667 | 364.802 |
| 127.5 | 361.111 | 361.089 | 361.067 | 361.054 | 361.043 | 361.032 | 361.021 | 360.864 | 360.707 | 360.820 |
| 130.0 | 357.105 | 357.016 | 356.927 | 356.994 | 357.060 | 356.971 | 356.881 | 356.814 | 356.747 | 356.837 |
| 132.5 | 344.195 | 344.542 | 344.889 | 344.855 | 344.821 | 344.799 | 344.777 | 344.710 | 344.642 | 344.732 |
| 135.0 | 331.285 | 332.068 | 332.851 | 332.716 | 332.582 | 332.627 | 332.671 | 332.605 | 332.538 | 332.627 |
| 137.5 | 325.512 | 325.893 | 326.273 | 326.171 | 326.071 | 326.104 | 326.138 | 326.071 | 326.004 | 326.127 |
| 140.0 | 319.739 | 319.717 | 319.694 | 319.628 | 319.560 | 319.582 | 319.604 | 319.537 | 319.470 | 319.628 |
| 142.5 | 313.877 | 313.899 | 313.921 | 313.877 | 313.832 | 313.888 | 313.943 | 313.932 | 313.921 | 313.989 |
| 145.0 | 308.015 | 308.082 | 308.149 | 308.127 | 308.104 | 308.193 | 308.282 | 308.328 | 308.373 | 308.351 |
| 147.5 | 305.957 | 306.023 | 306.090 | 306.057 | 306.023 | 306.079 | 306.135 | 306.179 | 306.225 | 306.270 |
| 150.0 | 303.898 | 303.965 | 304.031 | 303.987 | 303.942 | 303.965 | 303.987 | 304.032 | 304.076 | 304.189 |
| 152.5 | 300.229 | 300.362 | 300.496 | 300.362 | 300.229 | 300.273 | 300.318 | 300.362 | 300.407 | 300.463 |
| 155.0 | 296.558 | 296.760 | 296.962 | 296.738 | 296.514 | 296.581 | 296.647 | 296.693 | 296.738 | 296.738 |
| 157.5 | 292.174 | 292.252 | 292.330 | 292.174 | 292.017 | 292.128 | 292.240 | 292.252 | 292.263 | 292.241 |
| 160.0 | 287.788 | 287.743 | 287.697 | 287.608 | 287.519 | 287.675 | 287.832 | 287.810 | 287.788 | 287.743 |
| 162.5 | 284.588 | 284.543 | 284.499 | 284.465 | 284.432 | 284.532 | 284.632 | 284.532 | 284.432 | 284.443 |
| 165.0 | 281.388 | 281.344 | 281.299 | 281.321 | 281.343 | 281.388 | 281.432 | 281.254 | 281.075 | 281.143 |
| 167.5 | 278.636 | 278.536 | 278.436 | 278.502 | 278.569 | 278.547 | 278.524 | 278.491 | 278.458 | 278.458 |
| 170.0 | 275.884 | 275.727 | 275.571 | 275.683 | 275.795 | 275.705 | 275.615 | 275.727 | 275.839 | 275.773 |
| 172.5 | 272.998 | 272.897 | 272.797 | 272.919 | 273.042 | 272.997 | 272.953 | 273.031 | 273.110 | 273.053 |
| 175.0 | 270.112 | 270.066 | 270.021 | 270.156 | 270.290 | 270.290 | 270.290 | 270.335 | 270.379 | 270.335 |
| 177.5 | 273.446 | 273.423 | 273.401 | 273.468 | 273.535 | 273.535 | 273.535 | 273.557 | 273.579 | 273.557 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

**Vert.
Angles**

Horizontal Angles

| | <u>300.0</u> | <u>302.5</u> | <u>305.0</u> | <u>307.5</u> | <u>310.0</u> | <u>312.5</u> | <u>315.0</u> | <u>317.5</u> | <u>320.0</u> | <u>322.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.333 | 273.412 | 273.490 | 273.479 | 273.468 | 273.456 | 273.445 | 273.501 | 273.557 | 273.546 |
| 5.0 | 269.932 | 270.088 | 270.245 | 270.223 | 270.201 | 270.179 | 270.156 | 270.268 | 270.379 | 270.357 |
| 7.5 | 272.908 | 272.997 | 273.088 | 273.064 | 273.042 | 272.997 | 272.953 | 273.053 | 273.155 | 273.077 |
| 10.0 | 275.884 | 275.907 | 275.929 | 275.907 | 275.884 | 275.817 | 275.749 | 275.840 | 275.929 | 275.795 |
| 12.5 | 278.480 | 278.569 | 278.659 | 278.558 | 278.458 | 278.469 | 278.480 | 278.524 | 278.569 | 278.469 |
| 15.0 | 281.075 | 281.232 | 281.388 | 281.210 | 281.030 | 281.119 | 281.209 | 281.209 | 281.209 | 281.143 |
| 17.5 | 284.386 | 284.476 | 284.566 | 284.465 | 284.364 | 284.408 | 284.454 | 284.476 | 284.499 | 284.476 |
| 20.0 | 287.697 | 287.721 | 287.743 | 287.721 | 287.697 | 287.697 | 287.697 | 287.743 | 287.788 | 287.810 |
| 22.5 | 292.800 | 292.867 | 292.934 | 292.553 | 292.172 | 292.531 | 292.889 | 292.889 | 292.889 | 292.934 |
| 25.0 | 297.901 | 298.013 | 298.124 | 297.386 | 296.647 | 297.364 | 298.080 | 298.035 | 297.990 | 298.057 |
| 27.5 | 301.124 | 301.213 | 301.302 | 300.899 | 300.496 | 300.866 | 301.235 | 301.235 | 301.235 | 301.224 |
| 30.0 | 304.345 | 304.413 | 304.479 | 304.413 | 304.345 | 304.367 | 304.389 | 304.435 | 304.479 | 304.389 |
| 32.5 | 306.181 | 306.247 | 306.314 | 306.281 | 306.248 | 306.314 | 306.381 | 306.414 | 306.448 | 306.403 |
| 35.0 | 308.015 | 308.082 | 308.149 | 308.149 | 308.149 | 308.262 | 308.373 | 308.395 | 308.417 | 308.417 |
| 37.5 | 313.721 | 313.788 | 313.855 | 313.832 | 313.810 | 313.865 | 313.921 | 313.943 | 313.967 | 314.034 |
| 40.0 | 319.426 | 319.493 | 319.560 | 319.515 | 319.470 | 319.470 | 319.470 | 319.493 | 319.515 | 319.650 |
| 42.5 | 326.116 | 326.138 | 326.162 | 326.149 | 326.138 | 326.127 | 326.116 | 326.116 | 326.116 | 325.858 |
| 45.0 | 332.806 | 332.784 | 332.762 | 332.784 | 332.806 | 332.784 | 332.762 | 332.740 | 332.716 | 332.068 |
| 47.5 | 345.314 | 345.325 | 345.337 | 345.057 | 344.777 | 344.788 | 344.799 | 344.821 | 344.844 | 344.542 |
| 50.0 | 357.822 | 357.867 | 357.911 | 357.329 | 356.747 | 356.792 | 356.836 | 356.903 | 356.971 | 357.016 |
| 52.5 | 361.223 | 361.334 | 361.447 | 361.076 | 360.707 | 360.796 | 360.887 | 360.909 | 360.931 | 360.931 |
| 55.0 | 364.623 | 364.803 | 364.982 | 364.825 | 364.667 | 364.802 | 364.936 | 364.914 | 364.891 | 364.847 |
| 57.5 | 372.611 | 372.656 | 372.702 | 372.724 | 372.746 | 372.790 | 372.835 | 372.846 | 372.857 | 372.824 |
| 60.0 | 380.599 | 380.510 | 380.420 | 380.622 | 380.823 | 380.779 | 380.733 | 380.779 | 380.823 | 380.801 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 62.5 | 386.440 | 386.327 | 386.216 | 386.294 | 386.372 | 386.349 | 386.327 | 386.416 | 386.506 | 386.462 |
| 65.0 | 392.279 | 392.145 | 392.010 | 391.966 | 391.921 | 391.921 | 391.921 | 392.055 | 392.189 | 392.123 |
| 67.5 | 397.224 | 397.202 | 397.180 | 397.134 | 397.089 | 397.045 | 397.000 | 397.045 | 397.089 | 397.078 |
| 70.0 | 402.168 | 402.259 | 402.348 | 402.303 | 402.257 | 402.168 | 402.079 | 402.035 | 401.990 | 402.035 |
| 72.5 | 404.160 | 404.182 | 404.205 | 404.171 | 404.138 | 404.071 | 404.003 | 403.992 | 403.981 | 403.981 |
| 75.0 | 406.152 | 406.106 | 406.061 | 406.039 | 406.017 | 405.973 | 405.928 | 405.950 | 405.972 | 405.928 |
| 77.5 | 402.908 | 402.963 | 403.019 | 402.941 | 402.863 | 402.896 | 402.930 | 402.839 | 402.750 | 402.761 |
| 80.0 | 399.663 | 399.819 | 399.976 | 399.841 | 399.707 | 399.819 | 399.931 | 399.730 | 399.528 | 399.596 |
| 82.5 | 401.140 | 401.218 | 401.296 | 401.151 | 401.005 | 401.128 | 401.251 | 401.162 | 401.073 | 401.027 |
| 85.0 | 402.616 | 402.616 | 402.616 | 402.459 | 402.303 | 402.437 | 402.572 | 402.594 | 402.616 | 402.459 |
| 87.5 | 401.206 | 401.206 | 401.206 | 401.128 | 401.049 | 401.117 | 401.184 | 401.195 | 401.206 | 401.173 |
| 90.0 | 399.796 | 399.796 | 399.796 | 399.796 | 399.796 | 399.796 | 399.796 | 399.796 | 399.796 | 399.887 |
| 92.5 | 400.782 | 400.758 | 400.736 | 400.680 | 400.625 | 400.703 | 400.782 | 400.782 | 400.782 | 400.815 |
| 95.0 | 401.766 | 401.722 | 401.677 | 401.566 | 401.453 | 401.609 | 401.766 | 401.766 | 401.766 | 401.744 |
| 97.5 | 400.849 | 400.815 | 400.782 | 400.749 | 400.714 | 400.827 | 400.938 | 400.916 | 400.893 | 400.849 |
| 100.0 | 399.931 | 399.909 | 399.887 | 399.932 | 399.976 | 400.043 | 400.110 | 400.065 | 400.020 | 399.954 |
| 102.5 | 402.415 | 402.337 | 402.259 | 402.314 | 402.370 | 402.472 | 402.572 | 402.470 | 402.370 | 402.403 |
| 105.0 | 404.898 | 404.764 | 404.629 | 404.697 | 404.764 | 404.898 | 405.033 | 404.876 | 404.719 | 404.853 |
| 107.5 | 403.065 | 403.030 | 402.996 | 403.041 | 403.086 | 403.097 | 403.108 | 403.041 | 402.974 | 403.041 |
| 110.0 | 401.229 | 401.296 | 401.362 | 401.386 | 401.408 | 401.296 | 401.184 | 401.207 | 401.229 | 401.229 |
| 112.5 | 396.396 | 396.485 | 396.574 | 396.563 | 396.552 | 396.552 | 396.552 | 396.463 | 396.374 | 396.474 |
| 115.0 | 391.563 | 391.675 | 391.786 | 391.742 | 391.697 | 391.810 | 391.921 | 391.719 | 391.517 | 391.719 |
| 117.5 | 386.193 | 386.249 | 386.305 | 386.238 | 386.171 | 386.227 | 386.283 | 386.227 | 386.171 | 386.271 |
| 120.0 | 380.823 | 380.823 | 380.823 | 380.733 | 380.644 | 380.644 | 380.644 | 380.733 | 380.823 | 380.823 |
| 122.5 | 372.880 | 372.913 | 372.947 | 372.947 | 372.947 | 372.869 | 372.791 | 372.802 | 372.813 | 372.857 |
| 125.0 | 364.936 | 365.004 | 365.071 | 365.160 | 365.249 | 365.093 | 364.936 | 364.869 | 364.802 | 364.892 |
| 127.5 | 360.932 | 360.954 | 360.976 | 361.021 | 361.065 | 360.954 | 360.842 | 360.842 | 360.842 | 360.853 |
| 130.0 | 356.927 | 356.905 | 356.881 | 356.881 | 356.881 | 356.814 | 356.747 | 356.814 | 356.881 | 356.814 |
| 132.5 | 344.822 | 344.799 | 344.777 | 344.799 | 344.822 | 344.777 | 344.732 | 344.777 | 344.822 | 344.799 |
| 135.0 | 332.716 | 332.694 | 332.671 | 332.716 | 332.762 | 332.740 | 332.716 | 332.740 | 332.762 | 332.784 |
| 137.5 | 326.251 | 326.127 | 326.004 | 326.049 | 326.094 | 326.116 | 326.138 | 326.173 | 326.206 | 326.217 |
| 140.0 | 319.784 | 319.560 | 319.337 | 319.382 | 319.426 | 319.493 | 319.560 | 319.606 | 319.650 | 319.650 |
| 142.5 | 314.056 | 313.967 | 313.877 | 313.877 | 313.877 | 313.899 | 313.921 | 313.943 | 313.967 | 313.932 |
| 145.0 | 308.328 | 308.373 | 308.417 | 308.373 | 308.328 | 308.306 | 308.282 | 308.282 | 308.282 | 308.216 |
| 147.5 | 306.314 | 306.269 | 306.225 | 306.190 | 306.157 | 306.269 | 306.381 | 306.236 | 306.090 | 306.124 |
| 150.0 | 304.300 | 304.166 | 304.031 | 304.009 | 303.987 | 304.233 | 304.479 | 304.189 | 303.898 | 304.032 |
| 152.5 | 300.520 | 300.463 | 300.407 | 300.429 | 300.452 | 300.564 | 300.675 | 300.529 | 300.385 | 300.463 |
| 155.0 | 296.738 | 296.760 | 296.782 | 296.849 | 296.916 | 296.894 | 296.871 | 296.871 | 296.871 | 296.894 |
| 157.5 | 292.218 | 292.229 | 292.240 | 292.296 | 292.352 | 292.330 | 292.307 | 292.296 | 292.285 | 292.274 |
| 160.0 | 287.697 | 287.697 | 287.697 | 287.743 | 287.788 | 287.766 | 287.743 | 287.721 | 287.697 | 287.653 |
| 162.5 | 284.454 | 284.521 | 284.588 | 284.510 | 284.432 | 284.488 | 284.543 | 284.565 | 284.588 | 284.476 |
| 165.0 | 281.209 | 281.343 | 281.478 | 281.277 | 281.075 | 281.210 | 281.343 | 281.410 | 281.478 | 281.299 |
| 167.5 | 278.458 | 278.525 | 278.592 | 278.480 | 278.368 | 278.480 | 278.591 | 278.591 | 278.592 | 278.356 |
| 170.0 | 275.705 | 275.705 | 275.705 | 275.683 | 275.660 | 275.749 | 275.839 | 275.773 | 275.705 | 275.414 |
| 172.5 | 272.998 | 272.942 | 272.886 | 272.942 | 272.998 | 273.020 | 273.042 | 273.008 | 272.975 | 272.830 |
| 175.0 | 270.290 | 270.179 | 270.066 | 270.201 | 270.335 | 270.290 | 270.245 | 270.245 | 270.245 | 270.245 |
| 177.5 | 273.535 | 273.479 | 273.423 | 273.490 | 273.557 | 273.535 | 273.512 | 273.512 | 273.512 | 273.512 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

Vert. Angles **Horizontal Angles**

| | <u>325.0</u> | <u>327.5</u> | <u>330.0</u> | <u>332.5</u> | <u>335.0</u> | <u>337.5</u> | <u>340.0</u> | <u>342.5</u> | <u>345.0</u> | <u>347.5</u> |
|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.535 | 273.512 | 273.490 | 273.490 | 273.490 | 273.490 | 273.490 | 273.479 | 273.468 | 273.512 |
| 5.0 | 270.335 | 270.290 | 270.245 | 270.245 | 270.245 | 270.245 | 270.245 | 270.223 | 270.201 | 270.290 |
| 7.5 | 272.998 | 272.986 | 272.975 | 272.964 | 272.953 | 272.941 | 272.930 | 272.953 | 272.975 | 272.986 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10.0 | 275.660 | 275.683 | 275.705 | 275.683 | 275.660 | 275.638 | 275.615 | 275.682 | 275.749 | 275.682 |
| 12.5 | 278.368 | 278.458 | 278.547 | 278.525 | 278.502 | 278.412 | 278.323 | 278.367 | 278.412 | 278.434 |
| 15.0 | 281.075 | 281.232 | 281.388 | 281.366 | 281.343 | 281.187 | 281.030 | 281.053 | 281.075 | 281.188 |
| 17.5 | 284.454 | 284.443 | 284.432 | 284.432 | 284.432 | 284.454 | 284.476 | 284.408 | 284.342 | 284.397 |
| 20.0 | 287.832 | 287.653 | 287.474 | 287.497 | 287.519 | 287.721 | 287.921 | 287.765 | 287.608 | 287.608 |
| 22.5 | 292.978 | 292.531 | 292.083 | 292.396 | 292.710 | 292.789 | 292.867 | 292.520 | 292.174 | 292.207 |
| 25.0 | 298.124 | 297.409 | 296.693 | 297.297 | 297.901 | 297.857 | 297.811 | 297.275 | 296.738 | 296.805 |
| 27.5 | 301.213 | 300.944 | 300.676 | 300.809 | 300.944 | 300.933 | 300.922 | 300.809 | 300.698 | 300.564 |
| 30.0 | 304.300 | 304.480 | 304.658 | 304.323 | 303.987 | 304.009 | 304.031 | 304.345 | 304.658 | 304.323 |
| 32.5 | 306.359 | 306.336 | 306.314 | 306.236 | 306.157 | 306.146 | 306.135 | 306.336 | 306.538 | 306.303 |
| 35.0 | 308.417 | 308.193 | 307.969 | 308.149 | 308.328 | 308.284 | 308.238 | 308.328 | 308.417 | 308.284 |
| 37.5 | 314.101 | 313.910 | 313.720 | 313.876 | 314.034 | 313.910 | 313.788 | 313.910 | 314.034 | 313.910 |
| 40.0 | 319.784 | 319.628 | 319.470 | 319.604 | 319.739 | 319.538 | 319.337 | 319.493 | 319.650 | 319.538 |
| 42.5 | 325.602 | 325.803 | 326.004 | 326.082 | 326.160 | 326.060 | 325.960 | 326.082 | 326.206 | 326.127 |
| 45.0 | 331.419 | 331.979 | 332.538 | 332.560 | 332.582 | 332.582 | 332.582 | 332.672 | 332.762 | 332.716 |
| 47.5 | 344.240 | 344.486 | 344.733 | 344.777 | 344.821 | 344.777 | 344.732 | 344.821 | 344.911 | 344.866 |
| 50.0 | 357.060 | 356.994 | 356.927 | 356.994 | 357.060 | 356.971 | 356.881 | 356.971 | 357.060 | 357.016 |
| 52.5 | 360.931 | 360.842 | 360.752 | 360.809 | 360.864 | 360.864 | 360.865 | 360.864 | 360.864 | 360.875 |
| 55.0 | 364.802 | 364.691 | 364.578 | 364.623 | 364.667 | 364.758 | 364.847 | 364.758 | 364.667 | 364.735 |
| 57.5 | 372.790 | 372.733 | 372.678 | 372.667 | 372.656 | 372.633 | 372.611 | 372.622 | 372.633 | 372.700 |
| 60.0 | 380.777 | 380.777 | 380.777 | 380.711 | 380.644 | 380.510 | 380.375 | 380.488 | 380.599 | 380.666 |
| 62.5 | 386.416 | 386.449 | 386.484 | 386.416 | 386.351 | 386.271 | 386.193 | 386.204 | 386.216 | 386.316 |
| 65.0 | 392.055 | 392.123 | 392.189 | 392.123 | 392.055 | 392.034 | 392.010 | 391.921 | 391.832 | 391.966 |
| 67.5 | 397.067 | 397.458 | 397.850 | 397.458 | 397.067 | 397.447 | 397.828 | 397.716 | 397.604 | 397.693 |
| 70.0 | 402.079 | 402.795 | 403.511 | 402.795 | 402.079 | 402.863 | 403.645 | 403.511 | 403.376 | 403.421 |
| 72.5 | 403.981 | 404.451 | 404.920 | 404.138 | 403.354 | 403.847 | 404.340 | 404.171 | 404.003 | 404.127 |
| 75.0 | 405.883 | 406.106 | 406.330 | 405.480 | 404.629 | 404.831 | 405.033 | 404.831 | 404.629 | 404.831 |
| 77.5 | 402.774 | 402.941 | 403.108 | 402.639 | 402.168 | 402.325 | 402.482 | 402.337 | 402.191 | 402.281 |
| 80.0 | 399.663 | 399.776 | 399.887 | 399.797 | 399.707 | 399.819 | 399.931 | 399.841 | 399.752 | 399.730 |
| 82.5 | 400.984 | 400.893 | 400.804 | 400.982 | 401.162 | 400.927 | 400.692 | 400.636 | 400.580 | 400.602 |
| 85.0 | 402.303 | 402.012 | 401.721 | 402.168 | 402.616 | 402.035 | 401.453 | 401.431 | 401.408 | 401.475 |
| 87.5 | 401.140 | 400.938 | 400.736 | 400.927 | 401.117 | 400.838 | 400.558 | 400.536 | 400.513 | 400.535 |
| 90.0 | 399.976 | 399.865 | 399.752 | 399.685 | 399.618 | 399.641 | 399.663 | 399.641 | 399.618 | 399.596 |
| 92.5 | 400.849 | 400.782 | 400.714 | 400.703 | 400.692 | 400.682 | 400.671 | 400.692 | 400.714 | 400.702 |
| 95.0 | 401.721 | 401.699 | 401.677 | 401.722 | 401.766 | 401.722 | 401.677 | 401.744 | 401.810 | 401.810 |
| 97.5 | 400.804 | 400.849 | 400.894 | 400.804 | 400.714 | 400.838 | 400.960 | 400.938 | 400.915 | 400.859 |
| 100.0 | 399.887 | 399.999 | 400.110 | 399.887 | 399.663 | 399.954 | 400.244 | 400.132 | 400.020 | 399.909 |
| 102.5 | 402.437 | 402.404 | 402.370 | 402.303 | 402.237 | 402.381 | 402.526 | 402.426 | 402.325 | 402.347 |
| 105.0 | 404.988 | 404.809 | 404.629 | 404.720 | 404.809 | 404.809 | 404.809 | 404.720 | 404.629 | 404.786 |
| 107.5 | 403.108 | 403.041 | 402.974 | 402.963 | 402.952 | 403.041 | 403.132 | 403.634 | 404.138 | 404.193 |
| 110.0 | 401.229 | 401.275 | 401.318 | 401.207 | 401.095 | 401.275 | 401.453 | 402.550 | 403.645 | 403.601 |
| 112.5 | 396.576 | 396.665 | 396.754 | 396.665 | 396.576 | 396.519 | 396.463 | 397.191 | 397.917 | 397.828 |
| 115.0 | 391.921 | 392.055 | 392.189 | 392.123 | 392.055 | 391.764 | 391.473 | 391.832 | 392.189 | 392.055 |
| 117.5 | 386.372 | 386.416 | 386.462 | 386.427 | 386.394 | 386.249 | 386.103 | 386.204 | 386.305 | 386.249 |
| 120.0 | 380.823 | 380.779 | 380.733 | 380.733 | 380.733 | 380.733 | 380.733 | 380.577 | 380.420 | 380.442 |
| 122.5 | 372.902 | 372.813 | 372.724 | 372.711 | 372.700 | 372.779 | 372.858 | 372.757 | 372.656 | 372.667 |
| 125.0 | 364.982 | 364.847 | 364.713 | 364.691 | 364.667 | 364.825 | 364.982 | 364.936 | 364.891 | 364.891 |
| 127.5 | 360.865 | 360.798 | 360.730 | 360.785 | 360.842 | 360.853 | 360.865 | 360.842 | 360.820 | 360.875 |
| 130.0 | 356.747 | 356.747 | 356.747 | 356.881 | 357.016 | 356.881 | 356.747 | 356.747 | 356.747 | 356.859 |
| 132.5 | 344.777 | 344.754 | 344.732 | 344.766 | 344.799 | 344.766 | 344.732 | 344.675 | 344.620 | 344.664 |
| 135.0 | 332.806 | 332.762 | 332.716 | 332.649 | 332.582 | 332.649 | 332.716 | 332.605 | 332.493 | 332.471 |
| 137.5 | 326.228 | 326.184 | 326.138 | 326.060 | 325.982 | 326.026 | 326.071 | 326.060 | 326.049 | 325.982 |
| 140.0 | 319.650 | 319.606 | 319.560 | 319.471 | 319.381 | 319.404 | 319.426 | 319.515 | 319.604 | 319.493 |
| 142.5 | 313.899 | 313.934 | 313.967 | 313.877 | 313.787 | 313.776 | 313.765 | 313.821 | 313.877 | 313.888 |
| 145.0 | 308.149 | 308.262 | 308.373 | 308.284 | 308.193 | 308.149 | 308.104 | 308.127 | 308.149 | 308.284 |
| 147.5 | 306.157 | 306.203 | 306.248 | 306.214 | 306.179 | 306.135 | 306.090 | 306.157 | 306.225 | 306.225 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 150.0 | 304.166 | 304.144 | 304.122 | 304.144 | 304.166 | 304.122 | 304.076 | 304.189 | 304.300 | 304.166 |
| 152.5 | 300.542 | 300.463 | 300.385 | 300.463 | 300.542 | 300.531 | 300.520 | 300.507 | 300.496 | 300.429 |
| 155.0 | 296.916 | 296.782 | 296.647 | 296.782 | 296.916 | 296.940 | 296.962 | 296.827 | 296.693 | 296.693 |
| 157.5 | 292.263 | 292.161 | 292.061 | 292.161 | 292.263 | 292.307 | 292.352 | 292.307 | 292.263 | 292.218 |
| 160.0 | 287.608 | 287.541 | 287.474 | 287.541 | 287.608 | 287.675 | 287.743 | 287.788 | 287.832 | 287.743 |
| 162.5 | 284.364 | 284.419 | 284.476 | 284.487 | 284.499 | 284.499 | 284.499 | 284.554 | 284.610 | 284.499 |
| 165.0 | 281.119 | 281.299 | 281.478 | 281.434 | 281.388 | 281.321 | 281.254 | 281.321 | 281.388 | 281.254 |
| 167.5 | 278.121 | 278.334 | 278.547 | 278.547 | 278.547 | 278.514 | 278.480 | 278.514 | 278.547 | 278.434 |
| 170.0 | 275.123 | 275.369 | 275.615 | 275.660 | 275.705 | 275.705 | 275.705 | 275.705 | 275.705 | 275.616 |
| 172.5 | 272.684 | 272.808 | 272.930 | 272.919 | 272.909 | 272.964 | 273.020 | 272.953 | 272.886 | 272.875 |
| 175.0 | 270.245 | 270.245 | 270.245 | 270.179 | 270.112 | 270.224 | 270.335 | 270.201 | 270.066 | 270.134 |
| 177.5 | 273.512 | 273.512 | 273.512 | 273.479 | 273.446 | 273.501 | 273.557 | 273.490 | 273.423 | 273.457 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

Vert. Angles **Horizontal Angles**

| | <u>350.0</u> | <u>352.5</u> | <u>355.0</u> | <u>357.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 276.734 | 276.734 | 276.734 | 276.734 | 276.734 |
| 2.5 | 273.557 | 273.490 | 273.423 | 273.479 | 273.535 |
| 5.0 | 270.379 | 270.246 | 270.112 | 270.224 | 270.335 |
| 7.5 | 272.997 | 272.953 | 272.909 | 273.009 | 273.110 |
| 10.0 | 275.615 | 275.660 | 275.705 | 275.795 | 275.884 |
| 12.5 | 278.458 | 278.502 | 278.547 | 278.558 | 278.569 |
| 15.0 | 281.299 | 281.344 | 281.388 | 281.321 | 281.254 |
| 17.5 | 284.454 | 284.543 | 284.633 | 284.599 | 284.566 |
| 20.0 | 287.608 | 287.743 | 287.877 | 287.877 | 287.877 |
| 22.5 | 292.240 | 292.285 | 292.330 | 292.263 | 292.196 |
| 25.0 | 296.871 | 296.827 | 296.782 | 296.649 | 296.514 |
| 27.5 | 300.429 | 300.385 | 300.340 | 300.362 | 300.385 |
| 30.0 | 303.987 | 303.943 | 303.898 | 304.076 | 304.255 |
| 32.5 | 306.068 | 306.057 | 306.046 | 306.112 | 306.179 |
| 35.0 | 308.149 | 308.171 | 308.193 | 308.149 | 308.104 |
| 37.5 | 313.788 | 313.799 | 313.810 | 313.810 | 313.810 |
| 40.0 | 319.426 | 319.426 | 319.426 | 319.471 | 319.515 |
| 42.5 | 326.049 | 326.071 | 326.094 | 326.082 | 326.071 |
| 45.0 | 332.671 | 332.716 | 332.762 | 332.694 | 332.627 |
| 47.5 | 344.821 | 344.810 | 344.799 | 344.777 | 344.755 |
| 50.0 | 356.971 | 356.903 | 356.836 | 356.859 | 356.881 |
| 52.5 | 360.887 | 360.875 | 360.864 | 360.853 | 360.842 |
| 55.0 | 364.802 | 364.847 | 364.891 | 364.847 | 364.802 |
| 57.5 | 372.768 | 372.735 | 372.700 | 372.656 | 372.611 |
| 60.0 | 380.733 | 380.622 | 380.510 | 380.466 | 380.420 |
| 62.5 | 386.416 | 386.338 | 386.260 | 386.260 | 386.260 |
| 65.0 | 392.099 | 392.055 | 392.010 | 392.055 | 392.099 |
| 67.5 | 397.784 | 397.749 | 397.716 | 397.414 | 397.112 |
| 70.0 | 403.467 | 403.445 | 403.421 | 402.774 | 402.124 |
| 72.5 | 404.251 | 404.171 | 404.093 | 403.769 | 403.445 |
| 75.0 | 405.033 | 404.898 | 404.764 | 404.764 | 404.764 |
| 77.5 | 402.370 | 402.337 | 402.303 | 402.314 | 402.326 |
| 80.0 | 399.707 | 399.774 | 399.841 | 399.865 | 399.887 |
| 82.5 | 400.625 | 400.647 | 400.669 | 400.669 | 400.671 |
| 85.0 | 401.542 | 401.520 | 401.497 | 401.475 | 401.453 |
| 87.5 | 400.558 | 400.569 | 400.580 | 400.602 | 400.625 |
| 90.0 | 399.572 | 399.618 | 399.663 | 399.730 | 399.796 |
| 92.5 | 400.691 | 400.636 | 400.580 | 400.613 | 400.647 |
| 95.0 | 401.810 | 401.653 | 401.497 | 401.497 | 401.497 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 97.5 | 400.804 | 400.758 | 400.714 | 400.680 | 400.647 |
| 100.0 | 399.796 | 399.863 | 399.931 | 399.863 | 399.796 |
| 102.5 | 402.370 | 402.381 | 402.392 | 402.392 | 402.392 |
| 105.0 | 404.942 | 404.898 | 404.853 | 404.920 | 404.988 |
| 107.5 | 404.249 | 404.171 | 404.093 | 404.193 | 404.294 |
| 110.0 | 403.556 | 403.445 | 403.332 | 403.467 | 403.600 |
| 112.5 | 397.738 | 397.706 | 397.671 | 397.760 | 397.850 |
| 115.0 | 391.921 | 391.966 | 392.010 | 392.055 | 392.099 |
| 117.5 | 386.193 | 386.215 | 386.238 | 386.305 | 386.372 |
| 120.0 | 380.464 | 380.464 | 380.464 | 380.555 | 380.644 |
| 122.5 | 372.678 | 372.667 | 372.656 | 372.700 | 372.746 |
| 125.0 | 364.891 | 364.869 | 364.847 | 364.847 | 364.847 |
| 127.5 | 360.931 | 360.942 | 360.954 | 360.920 | 360.887 |
| 130.0 | 356.971 | 357.016 | 357.060 | 356.994 | 356.927 |
| 132.5 | 344.710 | 344.765 | 344.821 | 344.799 | 344.777 |
| 135.0 | 332.447 | 332.515 | 332.582 | 332.605 | 332.627 |
| 137.5 | 325.915 | 326.049 | 326.184 | 326.105 | 326.027 |
| 140.0 | 319.381 | 319.582 | 319.784 | 319.606 | 319.426 |
| 142.5 | 313.899 | 313.932 | 313.967 | 313.910 | 313.854 |
| 145.0 | 308.417 | 308.284 | 308.149 | 308.216 | 308.282 |
| 147.5 | 306.225 | 306.314 | 306.404 | 306.370 | 306.336 |
| 150.0 | 304.031 | 304.345 | 304.658 | 304.524 | 304.389 |
| 152.5 | 300.362 | 300.474 | 300.587 | 300.598 | 300.609 |
| 155.0 | 296.693 | 296.603 | 296.514 | 296.671 | 296.827 |
| 157.5 | 292.174 | 292.139 | 292.106 | 292.218 | 292.330 |
| 160.0 | 287.653 | 287.675 | 287.697 | 287.765 | 287.832 |
| 162.5 | 284.386 | 284.465 | 284.543 | 284.532 | 284.521 |
| 165.0 | 281.119 | 281.254 | 281.388 | 281.299 | 281.209 |
| 167.5 | 278.323 | 278.434 | 278.547 | 278.525 | 278.502 |
| 170.0 | 275.526 | 275.616 | 275.705 | 275.751 | 275.795 |
| 172.5 | 272.864 | 272.942 | 273.020 | 272.998 | 272.975 |
| 175.0 | 270.201 | 270.268 | 270.335 | 270.246 | 270.156 |
| 177.5 | 273.490 | 273.524 | 273.557 | 273.512 | 273.468 |
| 180.0 | 275.913 | 275.913 | 275.913 | 275.913 | 275.913 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|--------|
| 0-20 | 106.03 | 2.40 | 2.30 |
| 0-30 | 243.60 | 5.40 | 5.30 |
| 0-40 | 438.59 | 9.80 | 9.60 |
| 0-60 | 1028.07 | 23.00 | 22.50 |
| 0-80 | 1844.02 | 41.20 | 40.40 |
| 0-90 | 2281.64 | 51.00 | 50.00 |
| 10-90 | 2255.58 | 50.40 | 49.40 |
| 20-40 | 332.56 | 7.40 | 7.30 |
| 20-50 | 592.72 | 13.20 | 13.00 |
| 40-70 | 978.54 | 21.90 | 21.50 |
| 60-80 | 815.94 | 18.20 | 17.90 |
| 70-80 | 426.88 | 9.50 | 9.40 |
| 80-90 | 437.63 | 9.80 | 9.60 |
| 90-110 | 863.44 | 19.30 | 18.90 |
| 90-120 | 1252.19 | 28.00 | 27.50 |
| 90-130 | 1581.53 | 35.30 | 34.70 |
| 90-150 | 2036.63 | 45.50 | 44.60 |
| 90-180 | 2280.05 | 51.00 | 50.00 |
| 110-180 | 1416.61 | 31.70 | 31.10 |
| 0-180 | 4561.69 | 101.90 | 100.00 |

Total Luminaire Efficiency = 101.90%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 26.06 |
| 10-20 | 79.97 |
| 20-30 | 137.57 |
| 30-40 | 194.99 |
| 40-50 | 260.16 |
| 50-60 | 329.32 |
| 60-70 | 389.06 |
| 70-80 | 426.88 |
| 80-90 | 437.63 |
| 90-100 | 437.26 |
| 100-110 | 426.17 |
| 110-120 | 388.76 |
| 120-130 | 329.34 |
| 130-140 | 260.14 |
| 140-150 | 194.97 |
| 150-160 | 137.39 |
| 160-170 | 79.97 |
| 170-180 | 26.06 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45A61 - 3200K - 31 INCH.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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 85 | 85 | 85 | 71 | 71 | 71 | 57 | 57 | 57 | 51 |
| 1 | 95 | 88 | 82 | 77 | 87 | 81 | 76 | 71 | 67 | 63 | 60 | 54 | 52 | 49 | 43 | 41 | 39 | 33 |
| 2 | 84 | 74 | 66 | 59 | 77 | 68 | 61 | 55 | 56 | 51 | 46 | 45 | 41 | 37 | 35 | 32 | 29 | 24 |
| 3 | 76 | 64 | 55 | 47 | 69 | 58 | 50 | 44 | 48 | 42 | 36 | 38 | 33 | 29 | 30 | 26 | 23 | 18 |
| 4 | 69 | 56 | 46 | 39 | 62 | 51 | 42 | 36 | 42 | 35 | 30 | 33 | 28 | 24 | 26 | 22 | 18 | 14 |
| 5 | 63 | 49 | 39 | 32 | 57 | 45 | 36 | 30 | 37 | 30 | 25 | 29 | 24 | 20 | 23 | 18 | 15 | 12 |
| 6 | 57 | 43 | 34 | 27 | 52 | 40 | 31 | 25 | 33 | 26 | 21 | 26 | 21 | 17 | 20 | 16 | 13 | 10 |
| 7 | 53 | 39 | 30 | 24 | 48 | 36 | 28 | 22 | 29 | 23 | 18 | 24 | 18 | 15 | 18 | 14 | 11 | 8 |
| 8 | 49 | 35 | 26 | 20 | 45 | 32 | 24 | 19 | 27 | 20 | 16 | 22 | 16 | 13 | 17 | 13 | 10 | 7 |
| 9 | 45 | 32 | 24 | 18 | 41 | 29 | 22 | 17 | 24 | 18 | 14 | 20 | 15 | 11 | 15 | 11 | 9 | 6 |
| 10 | 42 | 29 | 21 | 16 | 39 | 27 | 20 | 15 | 22 | 16 | 12 | 18 | 13 | 10 | 14 | 10 | 8 | 5 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45A61 - 3200K - 31 INCH.IES

UGR TABLE - CORRECTED

Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 8.5 | 9.5 | 9.4 | 10.4 | 11.7 | 8.5 | 9.5 | 9.4 | 10.4 | 11.7 |
| | 3H | 12.3 | 13.3 | 13.3 | 14.2 | 15.5 | 12.3 | 13.3 | 13.3 | 14.2 | 15.5 |
| | 4H | 14.3 | 15.2 | 15.3 | 16.2 | 17.5 | 14.3 | 15.2 | 15.3 | 16.2 | 17.5 |
| | 6H | 16.5 | 17.3 | 17.4 | 18.3 | 19.6 | 16.5 | 17.3 | 17.4 | 18.3 | 19.6 |
| | 8H | 17.6 | 18.4 | 18.6 | 19.4 | 20.7 | 17.6 | 18.4 | 18.6 | 19.4 | 20.7 |
| | 12H | 18.9 | 19.7 | 19.9 | 20.7 | 22.0 | 19.0 | 19.7 | 19.9 | 20.7 | 22.0 |

UGR Viewed Endwise

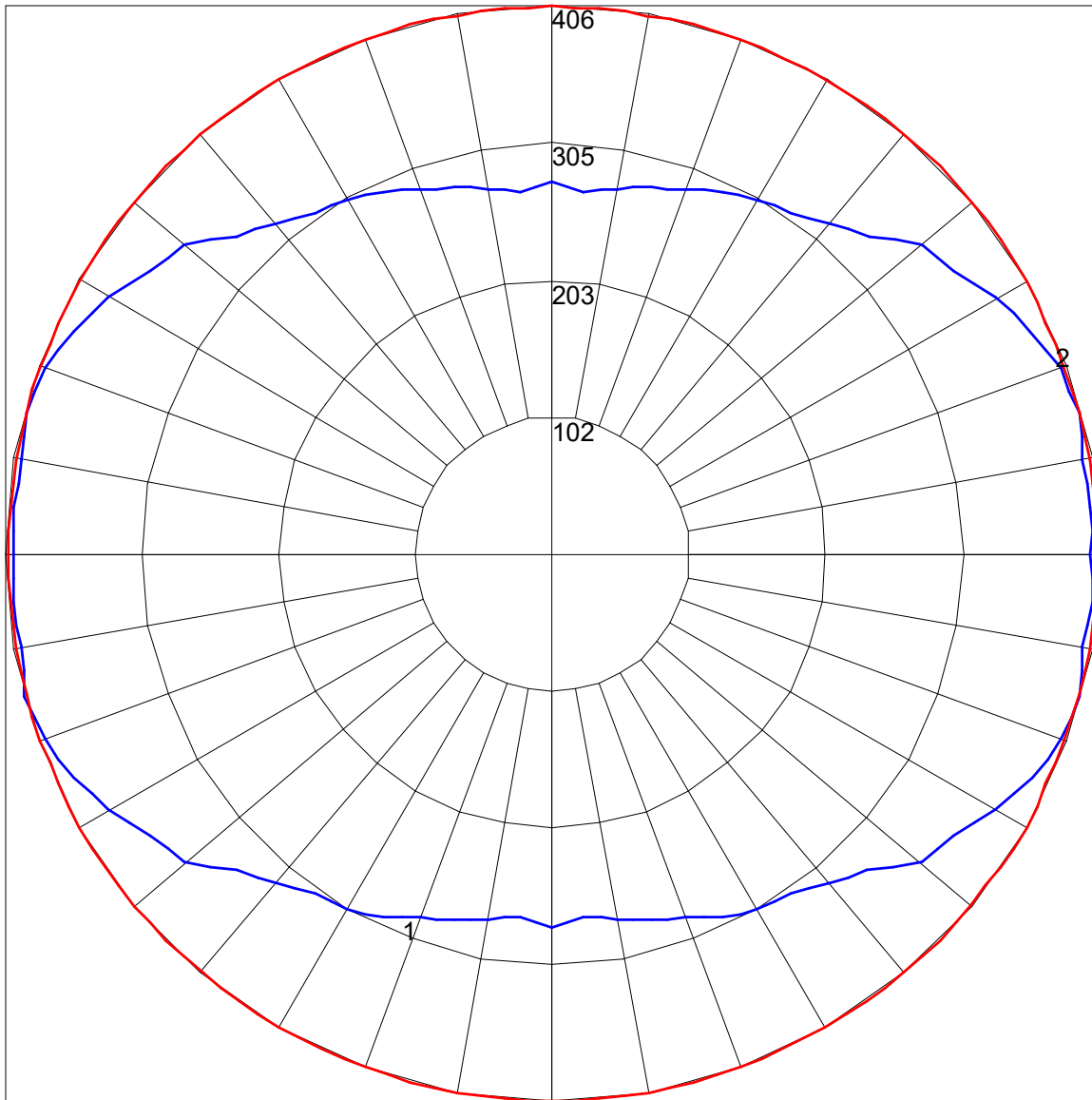
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 9.6 | 10.5 | 10.6 | 11.5 | 12.8 | 9.6 | 10.5 | 10.6 | 11.5 | 12.8 |
| | 3H | 13.7 | 14.4 | 14.6 | 15.4 | 16.7 | 13.6 | 14.4 | 14.6 | 15.4 | 16.7 |
| | 4H | 15.8 | 16.5 | 16.8 | 17.5 | 18.8 | 15.8 | 16.5 | 16.8 | 17.5 | 18.8 |
| | 6H | 18.1 | 18.7 | 19.1 | 19.7 | 21.1 | 18.1 | 18.7 | 19.1 | 19.8 | 21.1 |
| | 8H | 19.3 | 19.9 | 20.3 | 21.0 | 22.3 | 19.3 | 20.0 | 20.3 | 21.0 | 22.3 |
| | 12H | 20.8 | 21.3 | 21.8 | 22.4 | 23.7 | 20.8 | 21.3 | 21.8 | 22.4 | 23.7 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 16.6 | 17.2 | 17.6 | 18.3 | 19.6 | 16.6 | 17.2 | 17.6 | 18.3 | 19.6 |
| | 6H | 19.2 | 19.7 | 20.2 | 20.8 | 22.1 | 19.2 | 19.7 | 20.2 | 20.8 | 22.1 |
| | 8H | 20.6 | 21.1 | 21.6 | 22.1 | 23.5 | 20.6 | 21.1 | 21.6 | 22.1 | 23.5 |
| | 12H | 22.3 | 22.7 | 23.3 | 23.7 | 25.1 | 22.3 | 22.7 | 23.3 | 23.7 | 25.1 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 16.9 | 17.4 | 17.9 | 18.5 | 19.8 | 16.9 | 17.4 | 17.9 | 18.5 | 19.8 |
| | 6H | 19.5 | 20.0 | 20.5 | 21.0 | 22.4 | 19.5 | 20.0 | 20.6 | 21.0 | 22.4 |
| | 8H | 21.1 | 21.5 | 22.1 | 22.5 | 23.9 | 21.1 | 21.5 | 22.1 | 22.6 | 23.9 |

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 406.33 Located At Horizontal Angle = 215, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (215 - 35) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)