



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE]

[MANUFAC] Prudential Ltg

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1844 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| Total Luminaire Watts | 20 |
| Ballast Factor | 1.00 |
| CIE Type | Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 3.88 ft (Diameter) |
| Luminous Width (90-270) | 3.88 ft (Diameter) |
| Luminous Height | 0.50 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

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> |
|--------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 8.641 | 11.062 | 13.483 | 15.904 | 18.326 | 20.747 | 23.168 | 25.589 | 28.010 | 30.431 |
| 92.5 | 15.955 | 18.758 | 21.561 | 24.364 | 27.167 | 29.971 | 32.774 | 35.577 | 38.380 | 41.183 |
| 95.0 | 31.781 | 34.076 | 36.370 | 38.665 | 40.960 | 43.254 | 45.549 | 47.844 | 50.138 | 52.433 |
| 97.5 | 49.131 | 50.951 | 52.772 | 54.592 | 56.413 | 58.233 | 60.053 | 61.874 | 63.695 | 65.515 |
| 100.0 | 64.618 | 66.343 | 68.068 | 69.793 | 71.518 | 73.243 | 74.968 | 76.693 | 78.418 | 80.143 |
| 102.5 | 84.576 | 85.866 | 87.155 | 88.444 | 89.734 | 91.023 | 92.312 | 93.602 | 94.891 | 96.180 |
| 105.0 | 101.956 | 103.287 | 104.618 | 105.949 | 107.281 | 108.612 | 109.943 | 111.275 | 112.606 | 113.937 |
| 107.5 | 121.454 | 122.603 | 123.751 | 124.900 | 126.049 | 127.197 | 128.346 | 129.495 | 130.643 | 131.792 |
| 110.0 | 143.524 | 144.455 | 145.385 | 146.316 | 147.247 | 148.178 | 149.108 | 150.039 | 150.970 | 151.901 |
| 112.5 | 163.460 | 164.568 | 165.676 | 166.785 | 167.893 | 169.002 | 170.110 | 171.218 | 172.327 | 173.435 |
| 115.0 | 185.755 | 186.674 | 187.592 | 188.510 | 189.428 | 190.347 | 191.265 | 192.183 | 193.101 | 194.019 |
| 117.5 | 209.559 | 210.224 | 210.888 | 211.552 | 212.217 | 212.881 | 213.545 | 214.210 | 214.874 | 215.538 |
| 120.0 | 229.978 | 231.019 | 232.060 | 233.102 | 234.143 | 235.184 | 236.226 | 237.267 | 238.308 | 239.350 |
| 122.5 | 251.844 | 253.220 | 254.596 | 255.973 | 257.349 | 258.726 | 260.102 | 261.479 | 262.855 | 264.232 |
| 125.0 | 277.759 | 278.796 | 279.833 | 280.870 | 281.907 | 282.944 | 283.982 | 285.019 | 286.056 | 287.093 |
| 127.5 | 301.562 | 302.321 | 303.080 | 303.839 | 304.598 | 305.358 | 306.116 | 306.875 | 307.635 | 308.394 |
| 130.0 | 326.505 | 326.877 | 327.248 | 327.621 | 327.993 | 328.364 | 328.736 | 329.109 | 329.480 | 329.852 |
| 132.5 | 346.365 | 347.126 | 347.886 | 348.647 | 349.408 | 350.169 | 350.929 | 351.690 | 352.451 | 353.211 |
| 135.0 | 369.354 | 370.256 | 371.157 | 372.059 | 372.960 | 373.862 | 374.763 | 375.665 | 376.566 | 377.467 |
| 137.5 | 393.000 | 394.004 | 395.009 | 396.013 | 397.018 | 398.022 | 399.027 | 400.031 | 401.036 | 402.040 |
| 140.0 | 416.962 | 417.979 | 418.996 | 420.013 | 421.030 | 422.047 | 423.064 | 424.081 | 425.098 | 426.116 |
| 142.5 | 441.754 | 442.523 | 443.293 | 444.063 | 444.833 | 445.603 | 446.373 | 447.143 | 447.913 | 448.683 |
| 145.0 | 464.049 | 464.681 | 465.313 | 465.944 | 466.576 | 467.208 | 467.839 | 468.471 | 469.103 | 469.734 |
| 147.5 | 482.839 | 483.443 | 484.047 | 484.651 | 485.255 | 485.859 | 486.463 | 487.067 | 487.671 | 488.275 |
| 150.0 | 501.877 | 502.214 | 502.551 | 502.888 | 503.225 | 503.561 | 503.898 | 504.235 | 504.572 | 504.909 |
| 152.5 | 518.292 | 518.703 | 519.115 | 519.526 | 519.937 | 520.349 | 520.760 | 521.172 | 521.583 | 521.994 |
| 155.0 | 534.330 | 534.816 | 535.302 | 535.787 | 536.273 | 536.759 | 537.245 | 537.731 | 538.217 | 538.703 |
| 157.5 | 551.001 | 551.424 | 551.848 | 552.272 | 552.696 | 553.120 | 553.544 | 553.968 | 554.392 | 554.816 |
| 160.0 | 565.854 | 566.166 | 566.478 | 566.789 | 567.101 | 567.413 | 567.724 | 568.036 | 568.347 | 568.659 |
| 162.5 | 579.457 | 579.690 | 579.924 | 580.158 | 580.391 | 580.625 | 580.859 | 581.093 | 581.326 | 581.560 |
| 165.0 | 591.717 | 591.856 | 591.995 | 592.134 | 592.273 | 592.412 | 592.551 | 592.690 | 592.829 | 592.968 |
| 167.5 | 602.257 | 602.346 | 602.435 | 602.524 | 602.613 | 602.702 | 602.790 | 602.879 | 602.968 | 603.057 |
| 170.0 | 610.589 | 610.691 | 610.792 | 610.893 | 610.995 | 611.096 | 611.197 | 611.299 | 611.400 | 611.502 |
| 172.5 | 617.413 | 617.519 | 617.626 | 617.732 | 617.838 | 617.945 | 618.051 | 618.158 | 618.264 | 618.370 |
| 175.0 | 621.914 | 622.015 | 622.115 | 622.216 | 622.316 | 622.417 | 622.517 | 622.618 | 622.718 | 622.819 |
| 177.5 | 625.187 | 625.251 | 625.316 | 625.380 | 625.445 | 625.509 | 625.574 | 625.638 | 625.703 | 625.767 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

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> |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 32.906 | 35.381 | 37.856 | 40.331 | 42.805 | 45.280 | 47.755 | 50.230 | 52.705 | 53.698 |
| 92.5 | 45.062 | 48.941 | 52.820 | 56.699 | 60.578 | 64.457 | 68.336 | 72.215 | 76.094 | 78.874 |
| 95.0 | 56.564 | 60.695 | 64.826 | 68.957 | 73.089 | 77.220 | 81.351 | 85.482 | 89.613 | 92.883 |
| 97.5 | 69.713 | 73.911 | 78.109 | 82.307 | 86.506 | 90.704 | 94.902 | 99.100 | 103.298 | 106.707 |
| 100.0 | 84.373 | 88.604 | 92.835 | 97.066 | 101.297 | 105.527 | 109.758 | 113.989 | 118.220 | 121.670 |
| 102.5 | 100.352 | 104.524 | 108.697 | 112.869 | 117.041 | 121.213 | 125.385 | 129.557 | 133.729 | 137.263 |
| 105.0 | 117.959 | 121.981 | 126.004 | 130.026 | 134.048 | 138.070 | 142.092 | 146.114 | 150.136 | 153.723 |
| 107.5 | 135.769 | 139.747 | 143.725 | 147.703 | 151.681 | 155.658 | 159.636 | 163.614 | 167.592 | 171.149 |
| 110.0 | 155.725 | 159.550 | 163.374 | 167.199 | 171.023 | 174.848 | 178.672 | 182.497 | 186.321 | 189.817 |
| 112.5 | 176.867 | 180.300 | 183.732 | 187.165 | 190.597 | 194.029 | 197.462 | 200.894 | 204.326 | 207.814 |
| 115.0 | 197.314 | 200.609 | 203.904 | 207.199 | 210.494 | 213.789 | 217.084 | 220.379 | 223.674 | 227.199 |
| 117.5 | 218.750 | 221.961 | 225.172 | 228.383 | 231.594 | 234.806 | 238.017 | 241.228 | 244.439 | 247.862 |
| 120.0 | 242.393 | 245.435 | 248.478 | 251.521 | 254.564 | 257.607 | 260.649 | 263.692 | 266.735 | 269.934 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 122.5 | 266.947 | 269.662 | 272.378 | 275.093 | 277.808 | 280.523 | 283.239 | 285.954 | 288.669 | 291.754 |
| 125.0 | 289.774 | 292.455 | 295.136 | 297.816 | 300.498 | 303.178 | 305.859 | 308.540 | 311.221 | 314.127 |
| 127.5 | 311.348 | 314.302 | 317.256 | 320.209 | 323.164 | 326.117 | 329.072 | 332.025 | 334.980 | 337.609 |
| 130.0 | 333.119 | 336.385 | 339.652 | 342.918 | 346.185 | 349.451 | 352.718 | 355.984 | 359.251 | 361.570 |
| 132.5 | 356.522 | 359.833 | 363.144 | 366.455 | 369.766 | 373.077 | 376.388 | 379.699 | 383.009 | 385.112 |
| 135.0 | 380.448 | 383.429 | 386.410 | 389.391 | 392.371 | 395.352 | 398.333 | 401.314 | 404.295 | 406.276 |
| 137.5 | 404.562 | 407.084 | 409.606 | 412.127 | 414.649 | 417.171 | 419.692 | 422.214 | 424.736 | 426.734 |
| 140.0 | 428.074 | 430.033 | 431.992 | 433.950 | 435.909 | 437.868 | 439.827 | 441.785 | 443.744 | 445.816 |
| 142.5 | 450.302 | 451.922 | 453.541 | 455.160 | 456.780 | 458.399 | 460.019 | 461.638 | 463.258 | 465.244 |
| 145.0 | 471.094 | 472.454 | 473.814 | 475.173 | 476.533 | 477.893 | 479.253 | 480.612 | 481.972 | 483.882 |
| 147.5 | 489.608 | 490.941 | 492.274 | 493.607 | 494.940 | 496.273 | 497.606 | 498.938 | 500.271 | 501.960 |
| 150.0 | 506.368 | 507.827 | 509.287 | 510.746 | 512.206 | 513.665 | 515.124 | 516.584 | 518.043 | 519.580 |
| 152.5 | 523.369 | 524.744 | 526.119 | 527.493 | 528.868 | 530.243 | 531.618 | 532.992 | 534.367 | 535.699 |
| 155.0 | 539.867 | 541.030 | 542.194 | 543.358 | 544.521 | 545.685 | 546.849 | 548.012 | 549.176 | 550.376 |
| 157.5 | 555.782 | 556.749 | 557.716 | 558.683 | 559.650 | 560.617 | 561.583 | 562.550 | 563.517 | 564.483 |
| 160.0 | 569.510 | 570.362 | 571.213 | 572.064 | 572.915 | 573.766 | 574.617 | 575.469 | 576.320 | 577.127 |
| 162.5 | 582.292 | 583.023 | 583.754 | 584.486 | 585.217 | 585.948 | 586.680 | 587.411 | 588.143 | 588.766 |
| 165.0 | 593.540 | 594.111 | 594.682 | 595.254 | 595.825 | 596.396 | 596.968 | 597.539 | 598.110 | 598.555 |
| 167.5 | 603.455 | 603.853 | 604.251 | 604.648 | 605.046 | 605.444 | 605.842 | 606.240 | 606.638 | 606.982 |
| 170.0 | 611.759 | 612.018 | 612.276 | 612.534 | 612.792 | 613.050 | 613.308 | 613.566 | 613.824 | 614.079 |
| 172.5 | 618.490 | 618.608 | 618.727 | 618.846 | 618.965 | 619.084 | 619.203 | 619.322 | 619.441 | 619.669 |
| 175.0 | 622.920 | 623.022 | 623.123 | 623.225 | 623.326 | 623.427 | 623.529 | 623.630 | 623.731 | 623.812 |
| 177.5 | 625.775 | 625.782 | 625.790 | 625.797 | 625.805 | 625.812 | 625.820 | 625.828 | 625.835 | 625.926 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

**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> |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 54.692 | 55.685 | 56.679 | 57.673 | 58.666 | 59.660 | 60.653 | 61.647 | 61.449 | 61.252 |
| 92.5 | 81.655 | 84.436 | 87.216 | 89.997 | 92.777 | 95.558 | 98.338 | 101.119 | 101.824 | 102.530 |
| 95.0 | 96.153 | 99.422 | 102.692 | 105.962 | 109.232 | 112.502 | 115.772 | 119.042 | 120.121 | 121.200 |
| 97.5 | 110.116 | 113.525 | 116.934 | 120.343 | 123.751 | 127.161 | 130.569 | 133.978 | 135.118 | 136.259 |
| 100.0 | 125.121 | 128.572 | 132.023 | 135.474 | 138.924 | 142.375 | 145.826 | 149.277 | 150.452 | 151.626 |
| 102.5 | 140.797 | 144.331 | 147.864 | 151.398 | 154.932 | 158.466 | 161.999 | 165.533 | 166.856 | 168.179 |
| 105.0 | 157.310 | 160.896 | 164.482 | 168.069 | 171.656 | 175.242 | 178.829 | 182.415 | 183.659 | 184.903 |
| 107.5 | 174.706 | 178.263 | 181.820 | 185.378 | 188.935 | 192.492 | 196.049 | 199.606 | 200.846 | 202.084 |
| 110.0 | 193.313 | 196.809 | 200.305 | 203.801 | 207.297 | 210.793 | 214.289 | 217.785 | 219.019 | 220.252 |
| 112.5 | 211.302 | 214.789 | 218.277 | 221.765 | 225.253 | 228.740 | 232.228 | 235.715 | 237.025 | 238.334 |
| 115.0 | 230.725 | 234.250 | 237.775 | 241.301 | 244.826 | 248.352 | 251.877 | 255.402 | 256.667 | 257.931 |
| 117.5 | 251.284 | 254.706 | 258.129 | 261.551 | 264.973 | 268.395 | 271.818 | 275.240 | 276.442 | 277.645 |
| 120.0 | 273.132 | 276.331 | 279.530 | 282.728 | 285.927 | 289.125 | 292.324 | 295.523 | 296.753 | 297.982 |
| 122.5 | 294.838 | 297.923 | 301.008 | 304.092 | 307.177 | 310.262 | 313.347 | 316.431 | 317.699 | 318.968 |
| 125.0 | 317.034 | 319.940 | 322.846 | 325.752 | 328.658 | 331.565 | 334.471 | 337.377 | 338.555 | 339.733 |
| 127.5 | 340.239 | 342.869 | 345.499 | 348.129 | 350.758 | 353.388 | 356.018 | 358.648 | 359.785 | 360.923 |
| 130.0 | 363.889 | 366.208 | 368.527 | 370.846 | 373.165 | 375.484 | 377.803 | 380.122 | 381.191 | 382.261 |
| 132.5 | 387.215 | 389.318 | 391.421 | 393.524 | 395.626 | 397.729 | 399.832 | 401.935 | 403.001 | 404.066 |
| 135.0 | 408.257 | 410.239 | 412.220 | 414.202 | 416.183 | 418.164 | 420.145 | 422.127 | 423.166 | 424.205 |
| 137.5 | 428.732 | 430.730 | 432.728 | 434.726 | 436.724 | 438.722 | 440.721 | 442.719 | 443.689 | 444.659 |
| 140.0 | 447.888 | 449.960 | 452.031 | 454.103 | 456.175 | 458.247 | 460.319 | 462.390 | 463.269 | 464.148 |
| 142.5 | 467.230 | 469.217 | 471.203 | 473.189 | 475.176 | 477.162 | 479.149 | 481.135 | 481.925 | 482.715 |
| 145.0 | 485.792 | 487.702 | 489.612 | 491.522 | 493.433 | 495.343 | 497.253 | 499.163 | 499.933 | 500.703 |
| 147.5 | 503.648 | 505.336 | 507.024 | 508.712 | 510.400 | 512.088 | 513.776 | 515.465 | 516.150 | 516.835 |
| 150.0 | 521.116 | 522.653 | 524.189 | 525.726 | 527.262 | 528.799 | 530.335 | 531.872 | 532.378 | 532.885 |
| 152.5 | 537.032 | 538.364 | 539.696 | 541.028 | 542.360 | 543.692 | 545.024 | 546.356 | 546.854 | 547.353 |
| 155.0 | 551.575 | 552.775 | 553.975 | 555.174 | 556.374 | 557.574 | 558.774 | 559.973 | 560.342 | 560.711 |
| 157.5 | 565.449 | 566.415 | 567.381 | 568.347 | 569.313 | 570.279 | 571.245 | 572.211 | 572.557 | 572.903 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 160.0 | 577.933 | 578.740 | 579.547 | 580.354 | 581.161 | 581.967 | 582.774 | 583.581 | 583.857 | 584.134 |
| 162.5 | 589.389 | 590.013 | 590.636 | 591.259 | 591.882 | 592.506 | 593.129 | 593.752 | 593.953 | 594.153 |
| 165.0 | 598.999 | 599.442 | 599.887 | 600.331 | 600.775 | 601.219 | 601.663 | 602.107 | 602.255 | 602.403 |
| 167.5 | 607.325 | 607.669 | 608.012 | 608.356 | 608.699 | 609.043 | 609.386 | 609.730 | 609.841 | 609.952 |
| 170.0 | 614.333 | 614.588 | 614.843 | 615.097 | 615.352 | 615.607 | 615.861 | 616.116 | 616.160 | 616.205 |
| 172.5 | 619.897 | 620.125 | 620.353 | 620.580 | 620.808 | 621.036 | 621.264 | 621.492 | 621.449 | 621.406 |
| 175.0 | 623.892 | 623.973 | 624.053 | 624.134 | 624.214 | 624.294 | 624.375 | 624.455 | 624.461 | 624.467 |
| 177.5 | 626.016 | 626.106 | 626.197 | 626.287 | 626.378 | 626.468 | 626.559 | 626.649 | 626.603 | 626.556 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

**Vert.
Angles**

Horizontal Angles

| | <u>75.0</u> | <u>77.5</u> | <u>80.0</u> | <u>82.5</u> | <u>85.0</u> | <u>87.5</u> | <u>90.0</u> | <u>92.5</u> | <u>95.0</u> | <u>97.5</u> |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 90.0 | 61.054 | 60.856 | 60.659 | 60.461 | 60.263 | 60.065 | 59.868 | 60.065 | 60.263 | 60.461 |
| 92.5 | 103.235 | 103.940 | 104.646 | 105.351 | 106.057 | 106.762 | 107.468 | 106.762 | 106.057 | 105.351 |
| 95.0 | 122.279 | 123.358 | 124.437 | 125.516 | 126.595 | 127.674 | 128.753 | 127.674 | 126.595 | 125.516 |
| 97.5 | 137.399 | 138.539 | 139.679 | 140.820 | 141.960 | 143.100 | 144.240 | 143.100 | 141.960 | 140.820 |
| 100.0 | 152.801 | 153.975 | 155.150 | 156.324 | 157.499 | 158.673 | 159.848 | 158.673 | 157.499 | 156.324 |
| 102.5 | 169.502 | 170.825 | 172.147 | 173.470 | 174.793 | 176.116 | 177.439 | 176.116 | 174.793 | 173.470 |
| 105.0 | 186.148 | 187.392 | 188.636 | 189.880 | 191.124 | 192.368 | 193.612 | 192.368 | 191.124 | 189.880 |
| 107.5 | 203.324 | 204.563 | 205.802 | 207.041 | 208.280 | 209.519 | 210.758 | 209.519 | 208.280 | 207.041 |
| 110.0 | 221.485 | 222.718 | 223.952 | 225.185 | 226.418 | 227.651 | 228.884 | 227.651 | 226.418 | 225.185 |
| 112.5 | 239.644 | 240.953 | 242.263 | 243.572 | 244.882 | 246.191 | 247.500 | 246.191 | 244.882 | 243.572 |
| 115.0 | 259.195 | 260.459 | 261.724 | 262.988 | 264.252 | 265.516 | 266.780 | 265.516 | 264.252 | 262.988 |
| 117.5 | 278.847 | 280.049 | 281.251 | 282.453 | 283.656 | 284.858 | 286.060 | 284.858 | 283.656 | 282.453 |
| 120.0 | 299.212 | 300.442 | 301.672 | 302.902 | 304.132 | 305.362 | 306.591 | 305.362 | 304.132 | 302.902 |
| 122.5 | 320.236 | 321.505 | 322.773 | 324.042 | 325.310 | 326.578 | 327.847 | 326.578 | 325.310 | 324.042 |
| 125.0 | 340.911 | 342.089 | 343.267 | 344.445 | 345.623 | 346.801 | 347.979 | 346.801 | 345.623 | 344.445 |
| 127.5 | 362.061 | 363.198 | 364.336 | 365.474 | 366.611 | 367.749 | 368.887 | 367.749 | 366.611 | 365.474 |
| 130.0 | 383.331 | 384.401 | 385.471 | 386.541 | 387.610 | 388.680 | 389.750 | 388.680 | 387.610 | 386.541 |
| 132.5 | 405.132 | 406.197 | 407.263 | 408.329 | 409.394 | 410.460 | 411.526 | 410.460 | 409.394 | 408.329 |
| 135.0 | 425.244 | 426.282 | 427.321 | 428.360 | 429.399 | 430.438 | 431.476 | 430.438 | 429.399 | 428.360 |
| 137.5 | 445.629 | 446.599 | 447.569 | 448.540 | 449.510 | 450.480 | 451.450 | 450.480 | 449.510 | 448.540 |
| 140.0 | 465.027 | 465.906 | 466.785 | 467.664 | 468.542 | 469.421 | 470.300 | 469.421 | 468.542 | 467.664 |
| 142.5 | 483.505 | 484.295 | 485.085 | 485.875 | 486.665 | 487.455 | 488.245 | 487.455 | 486.665 | 485.875 |
| 145.0 | 501.473 | 502.243 | 503.013 | 503.782 | 504.553 | 505.322 | 506.092 | 505.322 | 504.553 | 503.782 |
| 147.5 | 517.520 | 518.206 | 518.891 | 519.576 | 520.262 | 520.947 | 521.632 | 520.947 | 520.262 | 519.576 |
| 150.0 | 533.392 | 533.899 | 534.406 | 534.913 | 535.420 | 535.927 | 536.433 | 535.927 | 535.420 | 534.913 |
| 152.5 | 547.851 | 548.350 | 548.848 | 549.347 | 549.845 | 550.344 | 550.842 | 550.344 | 549.845 | 549.347 |
| 155.0 | 561.079 | 561.448 | 561.816 | 562.185 | 562.553 | 562.922 | 563.291 | 562.922 | 562.553 | 562.185 |
| 157.5 | 573.248 | 573.595 | 573.941 | 574.287 | 574.632 | 574.979 | 575.325 | 574.979 | 574.632 | 574.287 |
| 160.0 | 584.410 | 584.687 | 584.963 | 585.240 | 585.516 | 585.793 | 586.069 | 585.793 | 585.516 | 585.240 |
| 162.5 | 594.353 | 594.553 | 594.754 | 594.954 | 595.154 | 595.354 | 595.554 | 595.354 | 595.154 | 594.954 |
| 165.0 | 602.552 | 602.700 | 602.848 | 602.996 | 603.145 | 603.293 | 603.441 | 603.293 | 603.145 | 602.996 |
| 167.5 | 610.064 | 610.175 | 610.287 | 610.398 | 610.510 | 610.621 | 610.732 | 610.621 | 610.510 | 610.398 |
| 170.0 | 616.249 | 616.294 | 616.338 | 616.382 | 616.427 | 616.471 | 616.516 | 616.471 | 616.427 | 616.382 |
| 172.5 | 621.364 | 621.321 | 621.278 | 621.236 | 621.193 | 621.150 | 621.107 | 621.150 | 621.193 | 621.236 |
| 175.0 | 624.473 | 624.479 | 624.485 | 624.490 | 624.496 | 624.502 | 624.508 | 624.502 | 624.496 | 624.490 |
| 177.5 | 626.509 | 626.462 | 626.415 | 626.368 | 626.321 | 626.274 | 626.227 | 626.274 | 626.321 | 626.368 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

**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> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 90.0 | 60.659 | 60.856 | 61.054 | 61.252 | 61.449 | 61.647 | 60.653 | 59.660 | 58.666 | 57.673 |
| 92.5 | 104.646 | 103.940 | 103.235 | 102.530 | 101.824 | 101.119 | 98.338 | 95.558 | 92.777 | 89.997 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 95.0 | 124.437 | 123.358 | 122.279 | 121.200 | 120.121 | 119.042 | 115.772 | 112.502 | 109.232 | 105.962 |
| 97.5 | 139.679 | 138.539 | 137.399 | 136.259 | 135.118 | 133.978 | 130.569 | 127.161 | 123.751 | 120.343 |
| 100.0 | 155.150 | 153.975 | 152.801 | 151.626 | 150.452 | 149.277 | 145.826 | 142.375 | 138.924 | 135.474 |
| 102.5 | 172.147 | 170.825 | 169.502 | 168.179 | 166.856 | 165.533 | 161.999 | 158.466 | 154.932 | 151.398 |
| 105.0 | 188.636 | 187.392 | 186.148 | 184.903 | 183.659 | 182.415 | 178.829 | 175.242 | 171.656 | 168.069 |
| 107.5 | 205.802 | 204.563 | 203.324 | 202.084 | 200.846 | 199.606 | 196.049 | 192.492 | 188.935 | 185.378 |
| 110.0 | 223.952 | 222.718 | 221.485 | 220.252 | 219.019 | 217.785 | 214.289 | 210.793 | 207.297 | 203.801 |
| 112.5 | 242.263 | 240.953 | 239.644 | 238.334 | 237.025 | 235.715 | 232.228 | 228.740 | 225.253 | 221.765 |
| 115.0 | 261.724 | 260.459 | 259.195 | 257.931 | 256.667 | 255.402 | 251.877 | 248.352 | 244.826 | 241.301 |
| 117.5 | 281.251 | 280.049 | 278.847 | 277.645 | 276.442 | 275.240 | 271.818 | 268.395 | 264.973 | 261.551 |
| 120.0 | 301.672 | 300.442 | 299.212 | 297.982 | 296.753 | 295.523 | 292.324 | 289.125 | 285.927 | 282.728 |
| 122.5 | 322.773 | 321.505 | 320.236 | 318.968 | 317.699 | 316.431 | 313.347 | 310.262 | 307.177 | 304.092 |
| 125.0 | 343.267 | 342.089 | 340.911 | 339.733 | 338.555 | 337.377 | 334.471 | 331.565 | 328.658 | 325.752 |
| 127.5 | 364.336 | 363.198 | 362.061 | 360.923 | 359.785 | 358.648 | 356.018 | 353.388 | 350.758 | 348.129 |
| 130.0 | 385.471 | 384.401 | 383.331 | 382.261 | 381.191 | 380.122 | 377.803 | 375.484 | 373.165 | 370.846 |
| 132.5 | 407.263 | 406.197 | 405.132 | 404.066 | 403.001 | 401.935 | 399.832 | 397.729 | 395.626 | 393.524 |
| 135.0 | 427.321 | 426.282 | 425.244 | 424.205 | 423.166 | 422.127 | 420.145 | 418.164 | 416.183 | 414.202 |
| 137.5 | 447.569 | 446.599 | 445.629 | 444.659 | 443.689 | 442.719 | 440.721 | 438.722 | 436.724 | 434.726 |
| 140.0 | 466.785 | 465.906 | 465.027 | 464.148 | 463.269 | 462.390 | 460.319 | 458.247 | 456.175 | 454.103 |
| 142.5 | 485.085 | 484.295 | 483.505 | 482.715 | 481.925 | 481.135 | 479.149 | 477.162 | 475.176 | 473.189 |
| 145.0 | 503.013 | 502.243 | 501.473 | 500.703 | 499.933 | 499.163 | 497.253 | 495.343 | 493.433 | 491.522 |
| 147.5 | 518.891 | 518.206 | 517.520 | 516.835 | 516.150 | 515.465 | 513.776 | 512.088 | 510.400 | 508.712 |
| 150.0 | 534.406 | 533.899 | 533.392 | 532.885 | 532.378 | 531.872 | 530.335 | 528.799 | 527.262 | 525.726 |
| 152.5 | 548.848 | 548.350 | 547.851 | 547.353 | 546.854 | 546.356 | 545.024 | 543.692 | 542.360 | 541.028 |
| 155.0 | 561.816 | 561.448 | 561.079 | 560.711 | 560.342 | 559.973 | 558.774 | 557.574 | 556.374 | 555.174 |
| 157.5 | 573.941 | 573.595 | 573.248 | 572.903 | 572.557 | 572.211 | 571.245 | 570.279 | 569.313 | 568.347 |
| 160.0 | 584.963 | 584.687 | 584.410 | 584.134 | 583.857 | 583.581 | 582.774 | 581.967 | 581.161 | 580.354 |
| 162.5 | 594.754 | 594.553 | 594.353 | 594.153 | 593.953 | 593.752 | 593.129 | 592.506 | 591.882 | 591.259 |
| 165.0 | 602.848 | 602.700 | 602.552 | 602.403 | 602.255 | 602.107 | 601.663 | 601.219 | 600.775 | 600.331 |
| 167.5 | 610.287 | 610.175 | 610.064 | 609.952 | 609.841 | 609.730 | 609.386 | 609.043 | 608.699 | 608.356 |
| 170.0 | 616.338 | 616.294 | 616.249 | 616.205 | 616.160 | 616.116 | 615.861 | 615.607 | 615.352 | 615.097 |
| 172.5 | 621.278 | 621.321 | 621.364 | 621.406 | 621.449 | 621.492 | 621.264 | 621.036 | 620.808 | 620.580 |
| 175.0 | 624.485 | 624.479 | 624.473 | 624.467 | 624.461 | 624.455 | 624.375 | 624.294 | 624.214 | 624.134 |
| 177.5 | 626.415 | 626.462 | 626.509 | 626.556 | 626.603 | 626.649 | 626.559 | 626.468 | 626.378 | 626.287 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

Vert. Angles **Horizontal Angles**

| | 125.0 | 127.5 | 130.0 | 132.5 | 135.0 | 137.5 | 140.0 | 142.5 | 145.0 | 147.5 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0 | 56.679 | 55.685 | 54.692 | 53.698 | 52.705 | 50.230 | 47.755 | 45.280 | 42.805 | 40.331 |
| 92.5 | 87.216 | 84.436 | 81.655 | 78.874 | 76.094 | 72.215 | 68.336 | 64.457 | 60.578 | 56.699 |
| 95.0 | 102.692 | 99.422 | 96.153 | 92.883 | 89.613 | 85.482 | 81.351 | 77.220 | 73.089 | 68.957 |
| 97.5 | 116.934 | 113.525 | 110.116 | 106.707 | 103.298 | 99.100 | 94.902 | 90.704 | 86.506 | 82.307 |
| 100.0 | 132.023 | 128.572 | 125.121 | 121.670 | 118.220 | 113.989 | 109.758 | 105.527 | 101.297 | 97.066 |
| 102.5 | 147.864 | 144.331 | 140.797 | 137.263 | 133.729 | 129.557 | 125.385 | 121.213 | 117.041 | 112.869 |
| 105.0 | 164.482 | 160.896 | 157.310 | 153.723 | 150.136 | 146.114 | 142.092 | 138.070 | 134.048 | 130.026 |
| 107.5 | 181.820 | 178.263 | 174.706 | 171.149 | 167.592 | 163.614 | 159.636 | 155.658 | 151.681 | 147.703 |
| 110.0 | 200.305 | 196.809 | 193.313 | 189.817 | 186.321 | 182.497 | 178.672 | 174.848 | 171.023 | 167.199 |
| 112.5 | 218.277 | 214.789 | 211.302 | 207.814 | 204.326 | 200.894 | 197.462 | 194.029 | 190.597 | 187.165 |
| 115.0 | 237.775 | 234.250 | 230.725 | 227.199 | 223.674 | 220.379 | 217.084 | 213.789 | 210.494 | 207.199 |
| 117.5 | 258.129 | 254.706 | 251.284 | 247.862 | 244.439 | 241.228 | 238.017 | 234.806 | 231.594 | 228.383 |
| 120.0 | 279.530 | 276.331 | 273.132 | 269.934 | 266.735 | 263.692 | 260.649 | 257.607 | 254.564 | 251.521 |
| 122.5 | 301.008 | 297.923 | 294.838 | 291.754 | 288.669 | 285.954 | 283.239 | 280.523 | 277.808 | 275.093 |
| 125.0 | 322.846 | 319.940 | 317.034 | 314.127 | 311.221 | 308.540 | 305.859 | 303.178 | 300.498 | 297.816 |
| 127.5 | 345.499 | 342.869 | 340.239 | 337.609 | 334.980 | 332.025 | 329.072 | 326.117 | 323.164 | 320.209 |
| 130.0 | 368.527 | 366.208 | 363.889 | 361.570 | 359.251 | 355.984 | 352.718 | 349.451 | 346.185 | 342.918 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 132.5 | 391.421 | 389.318 | 387.215 | 385.112 | 383.009 | 379.699 | 376.388 | 373.077 | 369.766 | 366.455 |
| 135.0 | 412.220 | 410.239 | 408.257 | 406.276 | 404.295 | 401.314 | 398.333 | 395.352 | 392.371 | 389.391 |
| 137.5 | 432.728 | 430.730 | 428.732 | 426.734 | 424.736 | 422.214 | 419.692 | 417.171 | 414.649 | 412.127 |
| 140.0 | 452.031 | 449.960 | 447.888 | 445.816 | 443.744 | 441.785 | 439.827 | 437.868 | 435.909 | 433.950 |
| 142.5 | 471.203 | 469.217 | 467.230 | 465.244 | 463.258 | 461.638 | 460.019 | 458.399 | 456.780 | 455.160 |
| 145.0 | 489.612 | 487.702 | 485.792 | 483.882 | 481.972 | 480.612 | 479.253 | 477.893 | 476.533 | 475.173 |
| 147.5 | 507.024 | 505.336 | 503.648 | 501.960 | 500.271 | 498.938 | 497.606 | 496.273 | 494.940 | 493.607 |
| 150.0 | 524.189 | 522.653 | 521.116 | 519.580 | 518.043 | 516.584 | 515.124 | 513.665 | 512.206 | 510.746 |
| 152.5 | 539.696 | 538.364 | 537.032 | 535.699 | 534.367 | 532.992 | 531.618 | 530.243 | 528.868 | 527.493 |
| 155.0 | 553.975 | 552.775 | 551.575 | 550.376 | 549.176 | 548.012 | 546.849 | 545.685 | 544.521 | 543.358 |
| 157.5 | 567.381 | 566.415 | 565.449 | 564.483 | 563.517 | 562.550 | 561.583 | 560.617 | 559.650 | 558.683 |
| 160.0 | 579.547 | 578.740 | 577.933 | 577.127 | 576.320 | 575.469 | 574.617 | 573.766 | 572.915 | 572.064 |
| 162.5 | 590.636 | 590.013 | 589.389 | 588.766 | 588.143 | 587.411 | 586.680 | 585.948 | 585.217 | 584.486 |
| 165.0 | 599.887 | 599.442 | 598.999 | 598.555 | 598.110 | 597.539 | 596.968 | 596.396 | 595.825 | 595.254 |
| 167.5 | 608.012 | 607.669 | 607.325 | 606.982 | 606.638 | 606.240 | 605.842 | 605.444 | 605.046 | 604.648 |
| 170.0 | 614.843 | 614.588 | 614.333 | 614.079 | 613.824 | 613.566 | 613.308 | 613.050 | 612.792 | 612.534 |
| 172.5 | 620.353 | 620.125 | 619.897 | 619.669 | 619.441 | 619.322 | 619.203 | 619.084 | 618.965 | 618.846 |
| 175.0 | 624.053 | 623.973 | 623.892 | 623.812 | 623.731 | 623.630 | 623.529 | 623.427 | 623.326 | 623.225 |
| 177.5 | 626.197 | 626.106 | 626.016 | 625.926 | 625.835 | 625.828 | 625.820 | 625.812 | 625.805 | 625.797 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 150.0 | 152.5 | 155.0 | 157.5 | 160.0 | 162.5 | 165.0 | 167.5 | 170.0 | 172.5 |
| 90.0 | 37.856 | 35.381 | 32.906 | 30.431 | 28.010 | 25.589 | 23.168 | 20.747 | 18.326 | 15.904 |
| 92.5 | 52.820 | 48.941 | 45.062 | 41.183 | 38.380 | 35.577 | 32.774 | 29.971 | 27.167 | 24.364 |
| 95.0 | 64.826 | 60.695 | 56.564 | 52.433 | 50.138 | 47.844 | 45.549 | 43.254 | 40.960 | 38.665 |
| 97.5 | 78.109 | 73.911 | 69.713 | 65.515 | 63.695 | 61.874 | 60.053 | 58.233 | 56.413 | 54.592 |
| 100.0 | 92.835 | 88.604 | 84.373 | 80.143 | 78.418 | 76.693 | 74.968 | 73.243 | 71.518 | 69.793 |
| 102.5 | 108.697 | 104.524 | 100.352 | 96.180 | 94.891 | 93.602 | 92.312 | 91.023 | 89.734 | 88.444 |
| 105.0 | 126.004 | 121.981 | 117.959 | 113.937 | 112.606 | 111.275 | 109.943 | 108.612 | 107.281 | 105.949 |
| 107.5 | 143.725 | 139.747 | 135.769 | 131.792 | 130.643 | 129.495 | 128.346 | 127.197 | 126.049 | 124.900 |
| 110.0 | 163.374 | 159.550 | 155.725 | 151.901 | 150.970 | 150.039 | 149.108 | 148.178 | 147.247 | 146.316 |
| 112.5 | 183.732 | 180.300 | 176.867 | 173.435 | 172.327 | 171.218 | 170.110 | 169.002 | 167.893 | 166.785 |
| 115.0 | 203.904 | 200.609 | 197.314 | 194.019 | 193.101 | 192.183 | 191.265 | 190.347 | 189.428 | 188.510 |
| 117.5 | 225.172 | 221.961 | 218.750 | 215.538 | 214.874 | 214.210 | 213.545 | 212.881 | 212.217 | 211.552 |
| 120.0 | 248.478 | 245.435 | 242.393 | 239.350 | 238.308 | 237.267 | 236.226 | 235.184 | 234.143 | 233.102 |
| 122.5 | 272.378 | 269.662 | 266.947 | 264.232 | 262.855 | 261.479 | 260.102 | 258.726 | 257.349 | 255.973 |
| 125.0 | 295.136 | 292.455 | 289.774 | 287.093 | 286.056 | 285.019 | 283.982 | 282.944 | 281.907 | 280.870 |
| 127.5 | 317.256 | 314.302 | 311.348 | 308.394 | 307.635 | 306.875 | 306.116 | 305.358 | 304.598 | 303.839 |
| 130.0 | 339.652 | 336.385 | 333.119 | 329.852 | 329.480 | 329.109 | 328.736 | 328.364 | 327.993 | 327.621 |
| 132.5 | 363.144 | 359.833 | 356.522 | 353.211 | 352.451 | 351.690 | 350.929 | 350.169 | 349.408 | 348.647 |
| 135.0 | 386.410 | 383.429 | 380.448 | 377.467 | 376.566 | 375.665 | 374.763 | 373.862 | 372.960 | 372.059 |
| 137.5 | 409.606 | 407.084 | 404.562 | 402.040 | 401.036 | 400.031 | 399.027 | 398.022 | 397.018 | 396.013 |
| 140.0 | 431.992 | 430.033 | 428.074 | 426.116 | 425.098 | 424.081 | 423.064 | 422.047 | 421.030 | 420.013 |
| 142.5 | 453.541 | 451.922 | 450.302 | 448.683 | 447.913 | 447.143 | 446.373 | 445.603 | 444.833 | 444.063 |
| 145.0 | 473.814 | 472.454 | 471.094 | 469.734 | 469.103 | 468.471 | 467.839 | 467.208 | 466.576 | 465.944 |
| 147.5 | 492.274 | 490.941 | 489.608 | 488.275 | 487.671 | 487.067 | 486.463 | 485.859 | 485.255 | 484.651 |
| 150.0 | 509.287 | 507.827 | 506.368 | 504.909 | 504.572 | 504.235 | 503.898 | 503.561 | 503.225 | 502.888 |
| 152.5 | 526.119 | 524.744 | 523.369 | 521.994 | 521.583 | 521.172 | 520.760 | 520.349 | 519.937 | 519.526 |
| 155.0 | 542.194 | 541.030 | 539.867 | 538.703 | 538.217 | 537.731 | 537.245 | 536.759 | 536.273 | 535.787 |
| 157.5 | 557.716 | 556.749 | 555.782 | 554.816 | 554.392 | 553.968 | 553.544 | 553.120 | 552.696 | 552.272 |
| 160.0 | 571.213 | 570.362 | 569.510 | 568.659 | 568.347 | 568.036 | 567.724 | 567.413 | 567.101 | 566.789 |
| 162.5 | 583.754 | 583.023 | 582.292 | 581.560 | 581.326 | 581.093 | 580.859 | 580.625 | 580.391 | 580.158 |
| 165.0 | 594.682 | 594.111 | 593.540 | 592.968 | 592.829 | 592.690 | 592.551 | 592.412 | 592.273 | 592.134 |
| 167.5 | 604.251 | 603.853 | 603.455 | 603.057 | 602.968 | 602.879 | 602.790 | 602.702 | 602.613 | 602.524 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 170.0 | 612.276 | 612.018 | 611.759 | 611.502 | 611.400 | 611.299 | 611.197 | 611.096 | 610.995 | 610.893 |
| 172.5 | 618.727 | 618.608 | 618.490 | 618.370 | 618.264 | 618.158 | 618.051 | 617.945 | 617.838 | 617.732 |
| 175.0 | 623.123 | 623.022 | 622.920 | 622.819 | 622.718 | 622.618 | 622.517 | 622.417 | 622.316 | 622.216 |
| 177.5 | 625.790 | 625.782 | 625.775 | 625.767 | 625.703 | 625.638 | 625.574 | 625.509 | 625.445 | 625.380 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 175.0 | 177.5 | 180.0 | 182.5 | 185.0 | 187.5 | 190.0 | 192.5 | 195.0 | 197.5 |
| 90.0 | 13.483 | 11.062 | 8.641 | 11.062 | 13.483 | 15.904 | 18.326 | 20.747 | 23.168 | 25.589 |
| 92.5 | 21.561 | 18.758 | 15.955 | 18.758 | 21.561 | 24.364 | 27.167 | 29.971 | 32.774 | 35.577 |
| 95.0 | 36.370 | 34.076 | 31.781 | 34.076 | 36.370 | 38.665 | 40.960 | 43.254 | 45.549 | 47.844 |
| 97.5 | 52.772 | 50.951 | 49.131 | 50.951 | 52.772 | 54.592 | 56.413 | 58.233 | 60.053 | 61.874 |
| 100.0 | 68.068 | 66.343 | 64.618 | 66.343 | 68.068 | 69.793 | 71.518 | 73.243 | 74.968 | 76.693 |
| 102.5 | 87.155 | 85.866 | 84.576 | 85.866 | 87.155 | 88.444 | 89.734 | 91.023 | 92.312 | 93.602 |
| 105.0 | 104.618 | 103.287 | 101.956 | 103.287 | 104.618 | 105.949 | 107.281 | 108.612 | 109.943 | 111.275 |
| 107.5 | 123.751 | 122.603 | 121.454 | 122.603 | 123.751 | 124.900 | 126.049 | 127.197 | 128.346 | 129.495 |
| 110.0 | 145.385 | 144.455 | 143.524 | 144.455 | 145.385 | 146.316 | 147.247 | 148.178 | 149.108 | 150.039 |
| 112.5 | 165.676 | 164.568 | 163.460 | 164.568 | 165.676 | 166.785 | 167.893 | 169.002 | 170.110 | 171.218 |
| 115.0 | 187.592 | 186.674 | 185.755 | 186.674 | 187.592 | 188.510 | 189.428 | 190.347 | 191.265 | 192.183 |
| 117.5 | 210.888 | 210.224 | 209.559 | 210.224 | 210.888 | 211.552 | 212.217 | 212.881 | 213.545 | 214.210 |
| 120.0 | 232.060 | 231.019 | 229.978 | 231.019 | 232.060 | 233.102 | 234.143 | 235.184 | 236.226 | 237.267 |
| 122.5 | 254.596 | 253.220 | 251.844 | 253.220 | 254.596 | 255.973 | 257.349 | 258.726 | 260.102 | 261.479 |
| 125.0 | 279.833 | 278.796 | 277.759 | 278.796 | 279.833 | 280.870 | 281.907 | 282.944 | 283.982 | 285.019 |
| 127.5 | 303.080 | 302.321 | 301.562 | 302.321 | 303.080 | 303.839 | 304.598 | 305.358 | 306.116 | 306.875 |
| 130.0 | 327.248 | 326.877 | 326.505 | 326.877 | 327.248 | 327.621 | 327.993 | 328.364 | 328.736 | 329.109 |
| 132.5 | 347.886 | 347.126 | 346.365 | 347.126 | 347.886 | 348.647 | 349.408 | 350.169 | 350.929 | 351.690 |
| 135.0 | 371.157 | 370.256 | 369.354 | 370.256 | 371.157 | 372.059 | 372.960 | 373.862 | 374.763 | 375.665 |
| 137.5 | 395.009 | 394.004 | 393.000 | 394.004 | 395.009 | 396.013 | 397.018 | 398.022 | 399.027 | 400.031 |
| 140.0 | 418.996 | 417.979 | 416.962 | 417.979 | 418.996 | 420.013 | 421.030 | 422.047 | 423.064 | 424.081 |
| 142.5 | 443.293 | 442.523 | 441.754 | 442.523 | 443.293 | 444.063 | 444.833 | 445.603 | 446.373 | 447.143 |
| 145.0 | 465.313 | 464.681 | 464.049 | 464.681 | 465.313 | 465.944 | 466.576 | 467.208 | 467.839 | 468.471 |
| 147.5 | 484.047 | 483.443 | 482.839 | 483.443 | 484.047 | 484.651 | 485.255 | 485.859 | 486.463 | 487.067 |
| 150.0 | 502.551 | 502.214 | 501.877 | 502.214 | 502.551 | 502.888 | 503.225 | 503.561 | 503.898 | 504.235 |
| 152.5 | 519.115 | 518.703 | 518.292 | 518.703 | 519.115 | 519.526 | 519.937 | 520.349 | 520.760 | 521.172 |
| 155.0 | 535.302 | 534.816 | 534.330 | 534.816 | 535.302 | 535.787 | 536.273 | 536.759 | 537.245 | 537.731 |
| 157.5 | 551.848 | 551.424 | 551.001 | 551.424 | 551.848 | 552.272 | 552.696 | 553.120 | 553.544 | 553.968 |
| 160.0 | 566.478 | 566.166 | 565.854 | 566.166 | 566.478 | 566.789 | 567.101 | 567.413 | 567.724 | 568.036 |
| 162.5 | 579.924 | 579.690 | 579.457 | 579.690 | 579.924 | 580.158 | 580.391 | 580.625 | 580.859 | 581.093 |
| 165.0 | 591.995 | 591.856 | 591.717 | 591.856 | 591.995 | 592.134 | 592.273 | 592.412 | 592.551 | 592.690 |
| 167.5 | 602.435 | 602.346 | 602.257 | 602.346 | 602.435 | 602.524 | 602.613 | 602.702 | 602.790 | 602.879 |
| 170.0 | 610.792 | 610.691 | 610.589 | 610.691 | 610.792 | 610.893 | 610.995 | 611.096 | 611.197 | 611.299 |
| 172.5 | 617.626 | 617.519 | 617.413 | 617.519 | 617.626 | 617.732 | 617.838 | 617.945 | 618.051 | 618.158 |
| 175.0 | 622.115 | 622.015 | 621.914 | 622.015 | 622.115 | 622.216 | 622.316 | 622.417 | 622.517 | 622.618 |
| 177.5 | 625.316 | 625.251 | 625.187 | 625.251 | 625.316 | 625.380 | 625.445 | 625.509 | 625.574 | 625.638 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 200.0 | 202.5 | 205.0 | 207.5 | 210.0 | 212.5 | 215.0 | 217.5 | 220.0 | 222.5 |
| 90.0 | 28.010 | 30.431 | 32.906 | 35.381 | 37.856 | 40.331 | 42.805 | 45.280 | 47.755 | 50.230 |
| 92.5 | 38.380 | 41.183 | 45.062 | 48.941 | 52.820 | 56.699 | 60.578 | 64.457 | 68.336 | 72.215 |
| 95.0 | 50.138 | 52.433 | 56.564 | 60.695 | 64.826 | 68.957 | 73.089 | 77.220 | 81.351 | 85.482 |
| 97.5 | 63.695 | 65.515 | 69.713 | 73.911 | 78.109 | 82.307 | 86.506 | 90.704 | 94.902 | 99.100 |
| 100.0 | 78.418 | 80.143 | 84.373 | 88.604 | 92.835 | 97.066 | 101.297 | 105.527 | 109.758 | 113.989 |
| 102.5 | 94.891 | 96.180 | 100.352 | 104.524 | 108.697 | 112.869 | 117.041 | 121.213 | 125.385 | 129.557 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 105.0 | 112.606 | 113.937 | 117.959 | 121.981 | 126.004 | 130.026 | 134.048 | 138.070 | 142.092 | 146.114 |
| 107.5 | 130.643 | 131.792 | 135.769 | 139.747 | 143.725 | 147.703 | 151.681 | 155.658 | 159.636 | 163.614 |
| 110.0 | 150.970 | 151.901 | 155.725 | 159.550 | 163.374 | 167.199 | 171.023 | 174.848 | 178.672 | 182.497 |
| 112.5 | 172.327 | 173.435 | 176.867 | 180.300 | 183.732 | 187.165 | 190.597 | 194.029 | 197.462 | 200.894 |
| 115.0 | 193.101 | 194.019 | 197.314 | 200.609 | 203.904 | 207.199 | 210.494 | 213.789 | 217.084 | 220.379 |
| 117.5 | 214.874 | 215.538 | 218.750 | 221.961 | 225.172 | 228.383 | 231.594 | 234.806 | 238.017 | 241.228 |
| 120.0 | 238.308 | 239.350 | 242.393 | 245.435 | 248.478 | 251.521 | 254.564 | 257.607 | 260.649 | 263.692 |
| 122.5 | 262.855 | 264.232 | 266.947 | 269.662 | 272.378 | 275.093 | 277.808 | 280.523 | 283.239 | 285.954 |
| 125.0 | 286.056 | 287.093 | 289.774 | 292.455 | 295.136 | 297.816 | 300.498 | 303.178 | 305.859 | 308.540 |
| 127.5 | 307.635 | 308.394 | 311.348 | 314.302 | 317.256 | 320.209 | 323.164 | 326.117 | 329.072 | 332.025 |
| 130.0 | 329.480 | 329.852 | 333.119 | 336.385 | 339.652 | 342.918 | 346.185 | 349.451 | 352.718 | 355.984 |
| 132.5 | 352.451 | 353.211 | 356.522 | 359.833 | 363.144 | 366.455 | 369.766 | 373.077 | 376.388 | 379.699 |
| 135.0 | 376.566 | 377.467 | 380.448 | 383.429 | 386.410 | 389.391 | 392.371 | 395.352 | 398.333 | 401.314 |
| 137.5 | 401.036 | 402.040 | 404.562 | 407.084 | 409.606 | 412.127 | 414.649 | 417.171 | 419.692 | 422.214 |
| 140.0 | 425.098 | 426.116 | 428.074 | 430.033 | 431.992 | 433.950 | 435.909 | 437.868 | 439.827 | 441.785 |
| 142.5 | 447.913 | 448.683 | 450.302 | 451.922 | 453.541 | 455.160 | 456.780 | 458.399 | 460.019 | 461.638 |
| 145.0 | 469.103 | 469.734 | 471.094 | 472.454 | 473.814 | 475.173 | 476.533 | 477.893 | 479.253 | 480.612 |
| 147.5 | 487.671 | 488.275 | 489.608 | 490.941 | 492.274 | 493.607 | 494.940 | 496.273 | 497.606 | 498.938 |
| 150.0 | 504.572 | 504.909 | 506.368 | 507.827 | 509.287 | 510.746 | 512.206 | 513.665 | 515.124 | 516.584 |
| 152.5 | 521.583 | 521.994 | 523.369 | 524.744 | 526.119 | 527.493 | 528.868 | 530.243 | 531.618 | 532.992 |
| 155.0 | 538.217 | 538.703 | 539.867 | 541.030 | 542.194 | 543.358 | 544.521 | 545.685 | 546.849 | 548.012 |
| 157.5 | 554.392 | 554.816 | 555.782 | 556.749 | 557.716 | 558.683 | 559.650 | 560.617 | 561.583 | 562.550 |
| 160.0 | 568.347 | 568.659 | 569.510 | 570.362 | 571.213 | 572.064 | 572.915 | 573.766 | 574.617 | 575.469 |
| 162.5 | 581.326 | 581.560 | 582.292 | 583.023 | 583.754 | 584.486 | 585.217 | 585.948 | 586.680 | 587.411 |
| 165.0 | 592.829 | 592.968 | 593.540 | 594.111 | 594.682 | 595.254 | 595.825 | 596.396 | 596.968 | 597.539 |
| 167.5 | 602.968 | 603.057 | 603.455 | 603.853 | 604.251 | 604.648 | 605.046 | 605.444 | 605.842 | 606.240 |
| 170.0 | 611.400 | 611.502 | 611.759 | 612.018 | 612.276 | 612.534 | 612.792 | 613.050 | 613.308 | 613.566 |
| 172.5 | 618.264 | 618.370 | 618.490 | 618.608 | 618.727 | 618.846 | 618.965 | 619.084 | 619.203 | 619.322 |
| 175.0 | 622.718 | 622.819 | 622.920 | 623.022 | 623.123 | 623.225 | 623.326 | 623.427 | 623.529 | 623.630 |
| 177.5 | 625.703 | 625.767 | 625.775 | 625.782 | 625.790 | 625.797 | 625.805 | 625.812 | 625.820 | 625.828 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

**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> |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0 | 52.705 | 53.698 | 54.692 | 55.685 | 56.679 | 57.673 | 58.666 | 59.660 | 60.653 | 61.647 |
| 92.5 | 76.094 | 78.874 | 81.655 | 84.436 | 87.216 | 89.997 | 92.777 | 95.558 | 98.338 | 101.119 |
| 95.0 | 89.613 | 92.883 | 96.153 | 99.422 | 102.692 | 105.962 | 109.232 | 112.502 | 115.772 | 119.042 |
| 97.5 | 103.298 | 106.707 | 110.116 | 113.525 | 116.934 | 120.343 | 123.751 | 127.161 | 130.569 | 133.978 |
| 100.0 | 118.220 | 121.670 | 125.121 | 128.572 | 132.023 | 135.474 | 138.924 | 142.375 | 145.826 | 149.277 |
| 102.5 | 133.729 | 137.263 | 140.797 | 144.331 | 147.864 | 151.398 | 154.932 | 158.466 | 161.999 | 165.533 |
| 105.0 | 150.136 | 153.723 | 157.310 | 160.896 | 164.482 | 168.069 | 171.656 | 175.242 | 178.829 | 182.415 |
| 107.5 | 167.592 | 171.149 | 174.706 | 178.263 | 181.820 | 185.378 | 188.935 | 192.492 | 196.049 | 199.606 |
| 110.0 | 186.321 | 189.817 | 193.313 | 196.809 | 200.305 | 203.801 | 207.297 | 210.793 | 214.289 | 217.785 |
| 112.5 | 204.326 | 207.814 | 211.302 | 214.789 | 218.277 | 221.765 | 225.253 | 228.740 | 232.228 | 235.715 |
| 115.0 | 223.674 | 227.199 | 230.725 | 234.250 | 237.775 | 241.301 | 244.826 | 248.352 | 251.877 | 255.402 |
| 117.5 | 244.439 | 247.862 | 251.284 | 254.706 | 258.129 | 261.551 | 264.973 | 268.395 | 271.818 | 275.240 |
| 120.0 | 266.735 | 269.934 | 273.132 | 276.331 | 279.530 | 282.728 | 285.927 | 289.125 | 292.324 | 295.523 |
| 122.5 | 288.669 | 291.754 | 294.838 | 297.923 | 301.008 | 304.092 | 307.177 | 310.262 | 313.347 | 316.431 |
| 125.0 | 311.221 | 314.127 | 317.034 | 319.940 | 322.846 | 325.752 | 328.658 | 331.565 | 334.471 | 337.377 |
| 127.5 | 334.980 | 337.609 | 340.239 | 342.869 | 345.499 | 348.129 | 350.758 | 353.388 | 356.018 | 358.648 |
| 130.0 | 359.251 | 361.570 | 363.889 | 366.208 | 368.527 | 370.846 | 373.165 | 375.484 | 377.803 | 380.122 |
| 132.5 | 383.009 | 385.112 | 387.215 | 389.318 | 391.421 | 393.524 | 395.626 | 397.729 | 399.832 | 401.935 |
| 135.0 | 404.295 | 406.276 | 408.257 | 410.239 | 412.220 | 414.202 | 416.183 | 418.164 | 420.145 | 422.127 |
| 137.5 | 424.736 | 426.734 | 428.732 | 430.730 | 432.728 | 434.726 | 436.724 | 438.722 | 440.721 | 442.719 |
| 140.0 | 443.744 | 445.816 | 447.888 | 449.960 | 452.031 | 454.103 | 456.175 | 458.247 | 460.319 | 462.390 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 142.5 | 463.258 | 465.244 | 467.230 | 469.217 | 471.203 | 473.189 | 475.176 | 477.162 | 479.149 | 481.135 |
| 145.0 | 481.972 | 483.882 | 485.792 | 487.702 | 489.612 | 491.522 | 493.433 | 495.343 | 497.253 | 499.163 |
| 147.5 | 500.271 | 501.960 | 503.648 | 505.336 | 507.024 | 508.712 | 510.400 | 512.088 | 513.776 | 515.465 |
| 150.0 | 518.043 | 519.580 | 521.116 | 522.653 | 524.189 | 525.726 | 527.262 | 528.799 | 530.335 | 531.872 |
| 152.5 | 534.367 | 535.699 | 537.032 | 538.364 | 539.696 | 541.028 | 542.360 | 543.692 | 545.024 | 546.356 |
| 155.0 | 549.176 | 550.376 | 551.575 | 552.775 | 553.975 | 555.174 | 556.374 | 557.574 | 558.774 | 559.973 |
| 157.5 | 563.517 | 564.483 | 565.449 | 566.415 | 567.381 | 568.347 | 569.313 | 570.279 | 571.245 | 572.211 |
| 160.0 | 576.320 | 577.127 | 577.933 | 578.740 | 579.547 | 580.354 | 581.161 | 581.967 | 582.774 | 583.581 |
| 162.5 | 588.143 | 588.766 | 589.389 | 590.013 | 590.636 | 591.259 | 591.882 | 592.506 | 593.129 | 593.752 |
| 165.0 | 598.110 | 598.555 | 598.999 | 599.442 | 599.887 | 600.331 | 600.775 | 601.219 | 601.663 | 602.107 |
| 167.5 | 606.638 | 606.982 | 607.325 | 607.669 | 608.012 | 608.356 | 608.699 | 609.043 | 609.386 | 609.730 |
| 170.0 | 613.824 | 614.079 | 614.333 | 614.588 | 614.843 | 615.097 | 615.352 | 615.607 | 615.861 | 616.116 |
| 172.5 | 619.441 | 619.669 | 619.897 | 620.125 | 620.353 | 620.580 | 620.808 | 621.036 | 621.264 | 621.492 |
| 175.0 | 623.731 | 623.812 | 623.892 | 623.973 | 624.053 | 624.134 | 624.214 | 624.294 | 624.375 | 624.455 |
| 177.5 | 625.835 | 625.926 | 626.016 | 626.106 | 626.197 | 626.287 | 626.378 | 626.468 | 626.559 | 626.649 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

Vert. Angles **Horizontal 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> |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 90.0 | 61.449 | 61.252 | 61.054 | 60.856 | 60.659 | 60.461 | 60.263 | 60.065 | 59.868 | 60.065 |
| 92.5 | 101.824 | 102.530 | 103.235 | 103.940 | 104.646 | 105.351 | 106.057 | 106.762 | 107.468 | 106.762 |
| 95.0 | 120.121 | 121.200 | 122.279 | 123.358 | 124.437 | 125.516 | 126.595 | 127.674 | 128.753 | 127.674 |
| 97.5 | 135.118 | 136.259 | 137.399 | 138.539 | 139.679 | 140.820 | 141.960 | 143.100 | 144.240 | 143.100 |
| 100.0 | 150.452 | 151.626 | 152.801 | 153.975 | 155.150 | 156.324 | 157.499 | 158.673 | 159.848 | 158.673 |
| 102.5 | 166.856 | 168.179 | 169.502 | 170.825 | 172.147 | 173.470 | 174.793 | 176.116 | 177.439 | 176.116 |
| 105.0 | 183.659 | 184.903 | 186.148 | 187.392 | 188.636 | 189.880 | 191.124 | 192.368 | 193.612 | 192.368 |
| 107.5 | 200.846 | 202.084 | 203.324 | 204.563 | 205.802 | 207.041 | 208.280 | 209.519 | 210.758 | 209.519 |
| 110.0 | 219.019 | 220.252 | 221.485 | 222.718 | 223.952 | 225.185 | 226.418 | 227.651 | 228.884 | 227.651 |
| 112.5 | 237.025 | 238.334 | 239.644 | 240.953 | 242.263 | 243.572 | 244.882 | 246.191 | 247.500 | 246.191 |
| 115.0 | 256.667 | 257.931 | 259.195 | 260.459 | 261.724 | 262.988 | 264.252 | 265.516 | 266.780 | 265.516 |
| 117.5 | 276.442 | 277.645 | 278.847 | 280.049 | 281.251 | 282.453 | 283.656 | 284.858 | 286.060 | 284.858 |
| 120.0 | 296.753 | 297.982 | 299.212 | 300.442 | 301.672 | 302.902 | 304.132 | 305.362 | 306.591 | 305.362 |
| 122.5 | 317.699 | 318.968 | 320.236 | 321.505 | 322.773 | 324.042 | 325.310 | 326.578 | 327.847 | 326.578 |
| 125.0 | 338.555 | 339.733 | 340.911 | 342.089 | 343.267 | 344.445 | 345.623 | 346.801 | 347.979 | 346.801 |
| 127.5 | 359.785 | 360.923 | 362.061 | 363.198 | 364.336 | 365.474 | 366.611 | 367.749 | 368.887 | 367.749 |
| 130.0 | 381.191 | 382.261 | 383.331 | 384.401 | 385.471 | 386.541 | 387.610 | 388.680 | 389.750 | 388.680 |
| 132.5 | 403.001 | 404.066 | 405.132 | 406.197 | 407.263 | 408.329 | 409.394 | 410.460 | 411.526 | 410.460 |
| 135.0 | 423.166 | 424.205 | 425.244 | 426.282 | 427.321 | 428.360 | 429.399 | 430.438 | 431.476 | 430.438 |
| 137.5 | 443.689 | 444.659 | 445.629 | 446.599 | 447.569 | 448.540 | 449.510 | 450.480 | 451.450 | 450.480 |
| 140.0 | 463.269 | 464.148 | 465.027 | 465.906 | 466.785 | 467.664 | 468.542 | 469.421 | 470.300 | 469.421 |
| 142.5 | 481.925 | 482.715 | 483.505 | 484.295 | 485.085 | 485.875 | 486.665 | 487.455 | 488.245 | 487.455 |
| 145.0 | 499.933 | 500.703 | 501.473 | 502.243 | 503.013 | 503.782 | 504.553 | 505.322 | 506.092 | 505.322 |
| 147.5 | 516.150 | 516.835 | 517.520 | 518.206 | 518.891 | 519.576 | 520.262 | 520.947 | 521.632 | 520.947 |
| 150.0 | 532.378 | 532.885 | 533.392 | 533.899 | 534.406 | 534.913 | 535.420 | 535.927 | 536.433 | 535.927 |
| 152.5 | 546.854 | 547.353 | 547.851 | 548.350 | 548.848 | 549.347 | 549.845 | 550.344 | 550.842 | 550.344 |
| 155.0 | 560.342 | 560.711 | 561.079 | 561.448 | 561.816 | 562.185 | 562.553 | 562.922 | 563.291 | 562.922 |
| 157.5 | 572.557 | 572.903 | 573.248 | 573.595 | 573.941 | 574.287 | 574.632 | 574.979 | 575.325 | 574.979 |
| 160.0 | 583.857 | 584.134 | 584.410 | 584.687 | 584.963 | 585.240 | 585.516 | 585.793 | 586.069 | 585.793 |
| 162.5 | 593.953 | 594.153 | 594.353 | 594.553 | 594.754 | 594.954 | 595.154 | 595.354 | 595.554 | 595.354 |
| 165.0 | 602.255 | 602.403 | 602.552 | 602.700 | 602.848 | 602.996 | 603.145 | 603.293 | 603.441 | 603.293 |
| 167.5 | 609.841 | 609.952 | 610.064 | 610.175 | 610.287 | 610.398 | 610.510 | 610.621 | 610.732 | 610.621 |
| 170.0 | 616.160 | 616.205 | 616.249 | 616.294 | 616.338 | 616.382 | 616.427 | 616.471 | 616.516 | 616.471 |
| 172.5 | 621.449 | 621.406 | 621.364 | 621.321 | 621.278 | 621.236 | 621.193 | 621.150 | 621.107 | 621.150 |
| 175.0 | 624.461 | 624.467 | 624.473 | 624.479 | 624.485 | 624.490 | 624.496 | 624.502 | 624.508 | 624.502 |
| 177.5 | 626.603 | 626.556 | 626.509 | 626.462 | 626.415 | 626.368 | 626.321 | 626.274 | 626.227 | 626.274 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

180.0 626.340 626.340 626.340 626.340 626.340 626.340 626.340 626.340 626.340 626.340

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> |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0 | 60.263 | 60.461 | 60.659 | 60.856 | 61.054 | 61.252 | 61.449 | 61.647 | 60.653 | 59.660 |
| 92.5 | 106.057 | 105.351 | 104.646 | 103.940 | 103.235 | 102.530 | 101.824 | 101.119 | 98.338 | 95.558 |
| 95.0 | 126.595 | 125.516 | 124.437 | 123.358 | 122.279 | 121.200 | 120.121 | 119.042 | 115.772 | 112.502 |
| 97.5 | 141.960 | 140.820 | 139.679 | 138.539 | 137.399 | 136.259 | 135.118 | 133.978 | 130.569 | 127.161 |
| 100.0 | 157.499 | 156.324 | 155.150 | 153.975 | 152.801 | 151.626 | 150.452 | 149.277 | 145.826 | 142.375 |
| 102.5 | 174.793 | 173.470 | 172.147 | 170.825 | 169.502 | 168.179 | 166.856 | 165.533 | 161.999 | 158.466 |
| 105.0 | 191.124 | 189.880 | 188.636 | 187.392 | 186.148 | 184.903 | 183.659 | 182.415 | 178.829 | 175.242 |
| 107.5 | 208.280 | 207.041 | 205.802 | 204.563 | 203.324 | 202.084 | 200.846 | 199.606 | 196.049 | 192.492 |
| 110.0 | 226.418 | 225.185 | 223.952 | 222.718 | 221.485 | 220.252 | 219.019 | 217.785 | 214.289 | 210.793 |
| 112.5 | 244.882 | 243.572 | 242.263 | 240.953 | 239.644 | 238.334 | 237.025 | 235.715 | 232.228 | 228.740 |
| 115.0 | 264.252 | 262.988 | 261.724 | 260.459 | 259.195 | 257.931 | 256.667 | 255.402 | 251.877 | 248.352 |
| 117.5 | 283.656 | 282.453 | 281.251 | 280.049 | 278.847 | 277.645 | 276.442 | 275.240 | 271.818 | 268.395 |
| 120.0 | 304.132 | 302.902 | 301.672 | 300.442 | 299.212 | 297.982 | 296.753 | 295.523 | 292.324 | 289.125 |
| 122.5 | 325.310 | 324.042 | 322.773 | 321.505 | 320.236 | 318.968 | 317.699 | 316.431 | 313.347 | 310.262 |
| 125.0 | 345.623 | 344.445 | 343.267 | 342.089 | 340.911 | 339.733 | 338.555 | 337.377 | 334.471 | 331.565 |
| 127.5 | 366.611 | 365.474 | 364.336 | 363.198 | 362.061 | 360.923 | 359.785 | 358.648 | 356.018 | 353.388 |
| 130.0 | 387.610 | 386.541 | 385.471 | 384.401 | 383.331 | 382.261 | 381.191 | 380.122 | 377.803 | 375.484 |
| 132.5 | 409.394 | 408.329 | 407.263 | 406.197 | 405.132 | 404.066 | 403.001 | 401.935 | 399.832 | 397.729 |
| 135.0 | 429.399 | 428.360 | 427.321 | 426.282 | 425.244 | 424.205 | 423.166 | 422.127 | 420.145 | 418.164 |
| 137.5 | 449.510 | 448.540 | 447.569 | 446.599 | 445.629 | 444.659 | 443.689 | 442.719 | 440.721 | 438.722 |
| 140.0 | 468.542 | 467.664 | 466.785 | 465.906 | 465.027 | 464.148 | 463.269 | 462.390 | 460.319 | 458.247 |
| 142.5 | 486.665 | 485.875 | 485.085 | 484.295 | 483.505 | 482.715 | 481.925 | 481.135 | 479.149 | 477.162 |
| 145.0 | 504.553 | 503.782 | 503.013 | 502.243 | 501.473 | 500.703 | 499.933 | 499.163 | 497.253 | 495.343 |
| 147.5 | 520.262 | 519.576 | 518.891 | 518.206 | 517.520 | 516.835 | 516.150 | 515.465 | 513.776 | 512.088 |
| 150.0 | 535.420 | 534.913 | 534.406 | 533.899 | 533.392 | 532.885 | 532.378 | 531.872 | 530.335 | 528.799 |
| 152.5 | 549.845 | 549.347 | 548.848 | 548.350 | 547.851 | 547.353 | 546.854 | 546.356 | 545.024 | 543.692 |
| 155.0 | 562.553 | 562.185 | 561.816 | 561.448 | 561.079 | 560.711 | 560.342 | 559.973 | 558.774 | 557.574 |
| 157.5 | 574.632 | 574.287 | 573.941 | 573.595 | 573.248 | 572.903 | 572.557 | 572.211 | 571.245 | 570.279 |
| 160.0 | 585.516 | 585.240 | 584.963 | 584.687 | 584.410 | 584.134 | 583.857 | 583.581 | 582.774 | 581.967 |
| 162.5 | 595.154 | 594.954 | 594.754 | 594.553 | 594.353 | 594.153 | 593.953 | 593.752 | 593.129 | 592.506 |
| 165.0 | 603.145 | 602.996 | 602.848 | 602.700 | 602.552 | 602.403 | 602.255 | 602.107 | 601.663 | 601.219 |
| 167.5 | 610.510 | 610.398 | 610.287 | 610.175 | 610.064 | 609.952 | 609.841 | 609.730 | 609.386 | 609.043 |
| 170.0 | 616.427 | 616.382 | 616.338 | 616.294 | 616.249 | 616.205 | 616.160 | 616.116 | 615.861 | 615.607 |
| 172.5 | 621.193 | 621.236 | 621.278 | 621.321 | 621.364 | 621.406 | 621.449 | 621.492 | 621.264 | 621.036 |
| 175.0 | 624.496 | 624.490 | 624.485 | 624.479 | 624.473 | 624.467 | 624.461 | 624.455 | 624.375 | 624.294 |
| 177.5 | 626.321 | 626.368 | 626.415 | 626.462 | 626.509 | 626.556 | 626.603 | 626.649 | 626.559 | 626.468 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

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> |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0 | 58.666 | 57.673 | 56.679 | 55.685 | 54.692 | 53.698 | 52.705 | 50.230 | 47.755 | 45.280 |
| 92.5 | 92.777 | 89.997 | 87.216 | 84.436 | 81.655 | 78.874 | 76.094 | 72.215 | 68.336 | 64.457 |
| 95.0 | 109.232 | 105.962 | 102.692 | 99.422 | 96.153 | 92.883 | 89.613 | 85.482 | 81.351 | 77.220 |
| 97.5 | 123.751 | 120.343 | 116.934 | 113.525 | 110.116 | 106.707 | 103.298 | 99.100 | 94.902 | 90.704 |
| 100.0 | 138.924 | 135.474 | 132.023 | 128.572 | 125.121 | 121.670 | 118.220 | 113.989 | 109.758 | 105.527 |
| 102.5 | 154.932 | 151.398 | 147.864 | 144.331 | 140.797 | 137.263 | 133.729 | 129.557 | 125.385 | 121.213 |
| 105.0 | 171.656 | 168.069 | 164.482 | 160.896 | 157.310 | 153.723 | 150.136 | 146.114 | 142.092 | 138.070 |
| 107.5 | 188.935 | 185.378 | 181.820 | 178.263 | 174.706 | 171.149 | 167.592 | 163.614 | 159.636 | 155.658 |
| 110.0 | 207.297 | 203.801 | 200.305 | 196.809 | 193.313 | 189.817 | 186.321 | 182.497 | 178.672 | 174.848 |
| 112.5 | 225.253 | 221.765 | 218.277 | 214.789 | 211.302 | 207.814 | 204.326 | 200.894 | 197.462 | 194.029 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 115.0 | 244.826 | 241.301 | 237.775 | 234.250 | 230.725 | 227.199 | 223.674 | 220.379 | 217.084 | 213.789 |
| 117.5 | 264.973 | 261.551 | 258.129 | 254.706 | 251.284 | 247.862 | 244.439 | 241.228 | 238.017 | 234.806 |
| 120.0 | 285.927 | 282.728 | 279.530 | 276.331 | 273.132 | 269.934 | 266.735 | 263.692 | 260.649 | 257.607 |
| 122.5 | 307.177 | 304.092 | 301.008 | 297.923 | 294.838 | 291.754 | 288.669 | 285.954 | 283.239 | 280.523 |
| 125.0 | 328.658 | 325.752 | 322.846 | 319.940 | 317.034 | 314.127 | 311.221 | 308.540 | 305.859 | 303.178 |
| 127.5 | 350.758 | 348.129 | 345.499 | 342.869 | 340.239 | 337.609 | 334.980 | 332.025 | 329.072 | 326.117 |
| 130.0 | 373.165 | 370.846 | 368.527 | 366.208 | 363.889 | 361.570 | 359.251 | 355.984 | 352.718 | 349.451 |
| 132.5 | 395.626 | 393.524 | 391.421 | 389.318 | 387.215 | 385.112 | 383.009 | 379.699 | 376.388 | 373.077 |
| 135.0 | 416.183 | 414.202 | 412.220 | 410.239 | 408.257 | 406.276 | 404.295 | 401.314 | 398.333 | 395.352 |
| 137.5 | 436.724 | 434.726 | 432.728 | 430.730 | 428.732 | 426.734 | 424.736 | 422.214 | 419.692 | 417.171 |
| 140.0 | 456.175 | 454.103 | 452.031 | 449.960 | 447.888 | 445.816 | 443.744 | 441.785 | 439.827 | 437.868 |
| 142.5 | 475.176 | 473.189 | 471.203 | 469.217 | 467.230 | 465.244 | 463.258 | 461.638 | 460.019 | 458.399 |
| 145.0 | 493.433 | 491.522 | 489.612 | 487.702 | 485.792 | 483.882 | 481.972 | 480.612 | 479.253 | 477.893 |
| 147.5 | 510.400 | 508.712 | 507.024 | 505.336 | 503.648 | 501.960 | 500.271 | 498.938 | 497.606 | 496.273 |
| 150.0 | 527.262 | 525.726 | 524.189 | 522.653 | 521.116 | 519.580 | 518.043 | 516.584 | 515.124 | 513.665 |
| 152.5 | 542.360 | 541.028 | 539.696 | 538.364 | 537.032 | 535.699 | 534.367 | 532.992 | 531.618 | 530.243 |
| 155.0 | 556.374 | 555.174 | 553.975 | 552.775 | 551.575 | 550.376 | 549.176 | 548.012 | 546.849 | 545.685 |
| 157.5 | 569.313 | 568.347 | 567.381 | 566.415 | 565.449 | 564.483 | 563.517 | 562.550 | 561.583 | 560.617 |
| 160.0 | 581.161 | 580.354 | 579.547 | 578.740 | 577.933 | 577.127 | 576.320 | 575.469 | 574.617 | 573.766 |
| 162.5 | 591.882 | 591.259 | 590.636 | 590.013 | 589.389 | 588.766 | 588.143 | 587.411 | 586.680 | 585.948 |
| 165.0 | 600.775 | 600.331 | 599.887 | 599.442 | 598.999 | 598.555 | 598.110 | 597.539 | 596.968 | 596.396 |
| 167.5 | 608.699 | 608.356 | 608.012 | 607.669 | 607.325 | 606.982 | 606.638 | 606.240 | 605.842 | 605.444 |
| 170.0 | 615.352 | 615.097 | 614.843 | 614.588 | 614.333 | 614.079 | 613.824 | 613.566 | 613.308 | 613.050 |
| 172.5 | 620.808 | 620.580 | 620.353 | 620.125 | 619.897 | 619.669 | 619.441 | 619.322 | 619.203 | 619.084 |
| 175.0 | 624.214 | 624.134 | 624.053 | 623.973 | 623.892 | 623.812 | 623.731 | 623.630 | 623.529 | 623.427 |
| 177.5 | 626.378 | 626.287 | 626.197 | 626.106 | 626.016 | 625.926 | 625.835 | 625.828 | 625.820 | 625.812 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

**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> |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0 | 42.805 | 40.331 | 37.856 | 35.381 | 32.906 | 30.431 | 28.010 | 25.589 | 23.168 | 20.747 |
| 92.5 | 60.578 | 56.699 | 52.820 | 48.941 | 45.062 | 41.183 | 38.380 | 35.577 | 32.774 | 29.971 |
| 95.0 | 73.089 | 68.957 | 64.826 | 60.695 | 56.564 | 52.433 | 50.138 | 47.844 | 45.549 | 43.254 |
| 97.5 | 86.506 | 82.307 | 78.109 | 73.911 | 69.713 | 65.515 | 63.695 | 61.874 | 60.053 | 58.233 |
| 100.0 | 101.297 | 97.066 | 92.835 | 88.604 | 84.373 | 80.143 | 78.418 | 76.693 | 74.968 | 73.243 |
| 102.5 | 117.041 | 112.869 | 108.697 | 104.524 | 100.352 | 96.180 | 94.891 | 93.602 | 92.312 | 91.023 |
| 105.0 | 134.048 | 130.026 | 126.004 | 121.981 | 117.959 | 113.937 | 112.606 | 111.275 | 109.943 | 108.612 |
| 107.5 | 151.681 | 147.703 | 143.725 | 139.747 | 135.769 | 131.792 | 130.643 | 129.495 | 128.346 | 127.197 |
| 110.0 | 171.023 | 167.199 | 163.374 | 159.550 | 155.725 | 151.901 | 150.970 | 150.039 | 149.108 | 148.178 |
| 112.5 | 190.597 | 187.165 | 183.732 | 180.300 | 176.867 | 173.435 | 172.327 | 171.218 | 170.110 | 169.002 |
| 115.0 | 210.494 | 207.199 | 203.904 | 200.609 | 197.314 | 194.019 | 193.101 | 192.183 | 191.265 | 190.347 |
| 117.5 | 231.594 | 228.383 | 225.172 | 221.961 | 218.750 | 215.538 | 214.874 | 214.210 | 213.545 | 212.881 |
| 120.0 | 254.564 | 251.521 | 248.478 | 245.435 | 242.393 | 239.350 | 238.308 | 237.267 | 236.226 | 235.184 |
| 122.5 | 277.808 | 275.093 | 272.378 | 269.662 | 266.947 | 264.232 | 262.855 | 261.479 | 260.102 | 258.726 |
| 125.0 | 300.498 | 297.816 | 295.136 | 292.455 | 289.774 | 287.093 | 286.056 | 285.019 | 283.982 | 282.944 |
| 127.5 | 323.164 | 320.209 | 317.256 | 314.302 | 311.348 | 308.394 | 307.635 | 306.875 | 306.116 | 305.358 |
| 130.0 | 346.185 | 342.918 | 339.652 | 336.385 | 333.119 | 329.852 | 329.480 | 329.109 | 328.736 | 328.364 |
| 132.5 | 369.766 | 366.455 | 363.144 | 359.833 | 356.522 | 353.211 | 352.451 | 351.690 | 350.929 | 350.169 |
| 135.0 | 392.371 | 389.391 | 386.410 | 383.429 | 380.448 | 377.467 | 376.566 | 375.665 | 374.763 | 373.862 |
| 137.5 | 414.649 | 412.127 | 409.606 | 407.084 | 404.562 | 402.040 | 401.036 | 400.031 | 399.027 | 398.022 |
| 140.0 | 435.909 | 433.950 | 431.992 | 430.033 | 428.074 | 426.116 | 425.098 | 424.081 | 423.064 | 422.047 |
| 142.5 | 456.780 | 455.160 | 453.541 | 451.922 | 450.302 | 448.683 | 447.913 | 447.143 | 446.373 | 445.603 |
| 145.0 | 476.533 | 475.173 | 473.814 | 472.454 | 471.094 | 469.734 | 469.103 | 468.471 | 467.839 | 467.208 |
| 147.5 | 494.940 | 493.607 | 492.274 | 490.941 | 489.608 | 488.275 | 487.671 | 487.067 | 486.463 | 485.859 |
| 150.0 | 512.206 | 510.746 | 509.287 | 507.827 | 506.368 | 504.909 | 504.572 | 504.235 | 503.898 | 503.561 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 152.5 | 528.868 | 527.493 | 526.119 | 524.744 | 523.369 | 521.994 | 521.583 | 521.172 | 520.760 | 520.349 |
| 155.0 | 544.521 | 543.358 | 542.194 | 541.030 | 539.867 | 538.703 | 538.217 | 537.731 | 537.245 | 536.759 |
| 157.5 | 559.650 | 558.683 | 557.716 | 556.749 | 555.782 | 554.816 | 554.392 | 553.968 | 553.544 | 553.120 |
| 160.0 | 572.915 | 572.064 | 571.213 | 570.362 | 569.510 | 568.659 | 568.347 | 568.036 | 567.724 | 567.413 |
| 162.5 | 585.217 | 584.486 | 583.754 | 583.023 | 582.292 | 581.560 | 581.326 | 581.093 | 580.859 | 580.625 |
| 165.0 | 595.825 | 595.254 | 594.682 | 594.111 | 593.540 | 592.968 | 592.829 | 592.690 | 592.551 | 592.412 |
| 167.5 | 605.046 | 604.648 | 604.251 | 603.853 | 603.455 | 603.057 | 602.968 | 602.879 | 602.790 | 602.702 |
| 170.0 | 612.792 | 612.534 | 612.276 | 612.018 | 611.759 | 611.502 | 611.400 | 611.299 | 611.197 | 611.096 |
| 172.5 | 618.965 | 618.846 | 618.727 | 618.608 | 618.490 | 618.370 | 618.264 | 618.158 | 618.051 | 617.945 |
| 175.0 | 623.326 | 623.225 | 623.123 | 623.022 | 622.920 | 622.819 | 622.718 | 622.618 | 622.517 | 622.417 |
| 177.5 | 625.805 | 625.797 | 625.790 | 625.782 | 625.775 | 625.767 | 625.703 | 625.638 | 625.574 | 625.509 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

Vert. Angles **Horizontal Angles**

| | <u>350.0</u> | <u>352.5</u> | <u>355.0</u> | <u>357.5</u> | <u>360.0</u> |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 90.0 | 18.326 | 15.904 | 13.483 | 11.062 | 8.641 |
| 92.5 | 27.167 | 24.364 | 21.561 | 18.758 | 15.955 |
| 95.0 | 40.960 | 38.665 | 36.370 | 34.076 | 31.781 |
| 97.5 | 56.413 | 54.592 | 52.772 | 50.951 | 49.131 |
| 100.0 | 71.518 | 69.793 | 68.068 | 66.343 | 64.618 |
| 102.5 | 89.734 | 88.444 | 87.155 | 85.866 | 84.576 |
| 105.0 | 107.281 | 105.949 | 104.618 | 103.287 | 101.956 |
| 107.5 | 126.049 | 124.900 | 123.751 | 122.603 | 121.454 |
| 110.0 | 147.247 | 146.316 | 145.385 | 144.455 | 143.524 |
| 112.5 | 167.893 | 166.785 | 165.676 | 164.568 | 163.460 |
| 115.0 | 189.428 | 188.510 | 187.592 | 186.674 | 185.755 |
| 117.5 | 212.217 | 211.552 | 210.888 | 210.224 | 209.559 |
| 120.0 | 234.143 | 233.102 | 232.060 | 231.019 | 229.978 |
| 122.5 | 257.349 | 255.973 | 254.596 | 253.220 | 251.844 |
| 125.0 | 281.907 | 280.870 | 279.833 | 278.796 | 277.759 |
| 127.5 | 304.598 | 303.839 | 303.080 | 302.321 | 301.562 |
| 130.0 | 327.993 | 327.621 | 327.248 | 326.877 | 326.505 |
| 132.5 | 349.408 | 348.647 | 347.886 | 347.126 | 346.365 |
| 135.0 | 372.960 | 372.059 | 371.157 | 370.256 | 369.354 |
| 137.5 | 397.018 | 396.013 | 395.009 | 394.004 | 393.000 |
| 140.0 | 421.030 | 420.013 | 418.996 | 417.979 | 416.962 |
| 142.5 | 444.833 | 444.063 | 443.293 | 442.523 | 441.754 |
| 145.0 | 466.576 | 465.944 | 465.313 | 464.681 | 464.049 |
| 147.5 | 485.255 | 484.651 | 484.047 | 483.443 | 482.839 |
| 150.0 | 503.225 | 502.888 | 502.551 | 502.214 | 501.877 |
| 152.5 | 519.937 | 519.526 | 519.115 | 518.703 | 518.292 |
| 155.0 | 536.273 | 535.787 | 535.302 | 534.816 | 534.330 |
| 157.5 | 552.696 | 552.272 | 551.848 | 551.424 | 551.001 |
| 160.0 | 567.101 | 566.789 | 566.478 | 566.166 | 565.854 |
| 162.5 | 580.391 | 580.158 | 579.924 | 579.690 | 579.457 |
| 165.0 | 592.273 | 592.134 | 591.995 | 591.856 | 591.717 |
| 167.5 | 602.613 | 602.524 | 602.435 | 602.346 | 602.257 |
| 170.0 | 610.995 | 610.893 | 610.792 | 610.691 | 610.589 |
| 172.5 | 617.838 | 617.732 | 617.626 | 617.519 | 617.413 |
| 175.0 | 622.316 | 622.216 | 622.115 | 622.015 | 621.914 |
| 177.5 | 625.445 | 625.380 | 625.316 | 625.251 | 625.187 |
| 180.0 | 626.340 | 626.340 | 626.340 | 626.340 | 626.340 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 0.00 | N.A. | 0.00 |
| 0-30 | 0.00 | N.A. | 0.00 |
| 0-40 | 0.00 | N.A. | 0.00 |
| 0-60 | 0.00 | N.A. | 0.00 |
| 0-80 | 0.00 | N.A. | 0.00 |
| 0-90 | 0.00 | N.A. | 0.00 |
| 10-90 | 0.00 | N.A. | 0.00 |
| 20-40 | 0.00 | N.A. | 0.00 |
| 20-50 | 0.00 | N.A. | 0.00 |
| 40-70 | 0.00 | N.A. | 0.00 |
| 60-80 | 0.00 | N.A. | 0.00 |
| 70-80 | 0.00 | N.A. | 0.00 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 90-110 | 248.87 | N.A. | 13.50 |
| 90-120 | 472.15 | N.A. | 25.60 |
| 90-130 | 751.38 | N.A. | 40.70 |
| 90-150 | 1363.36 | N.A. | 73.90 |
| 90-180 | 1844.3 | N.A. | 100.00 |
| 110-180 | 1595.44 | N.A. | 86.50 |
| 0-180 | 1844.3 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.00 |
| 10-20 | 0.00 |
| 20-30 | 0.00 |
| 30-40 | 0.00 |
| 40-50 | 0.00 |
| 50-60 | 0.00 |
| 60-70 | 0.00 |
| 70-80 | 0.00 |
| 80-90 | 0.00 |
| 90-100 | 91.32 |
| 100-110 | 157.55 |
| 110-120 | 223.28 |
| 120-130 | 279.24 |
| 130-140 | 309.57 |
| 140-150 | 302.40 |
| 150-160 | 253.12 |
| 160-170 | 168.61 |
| 170-180 | 59.21 |

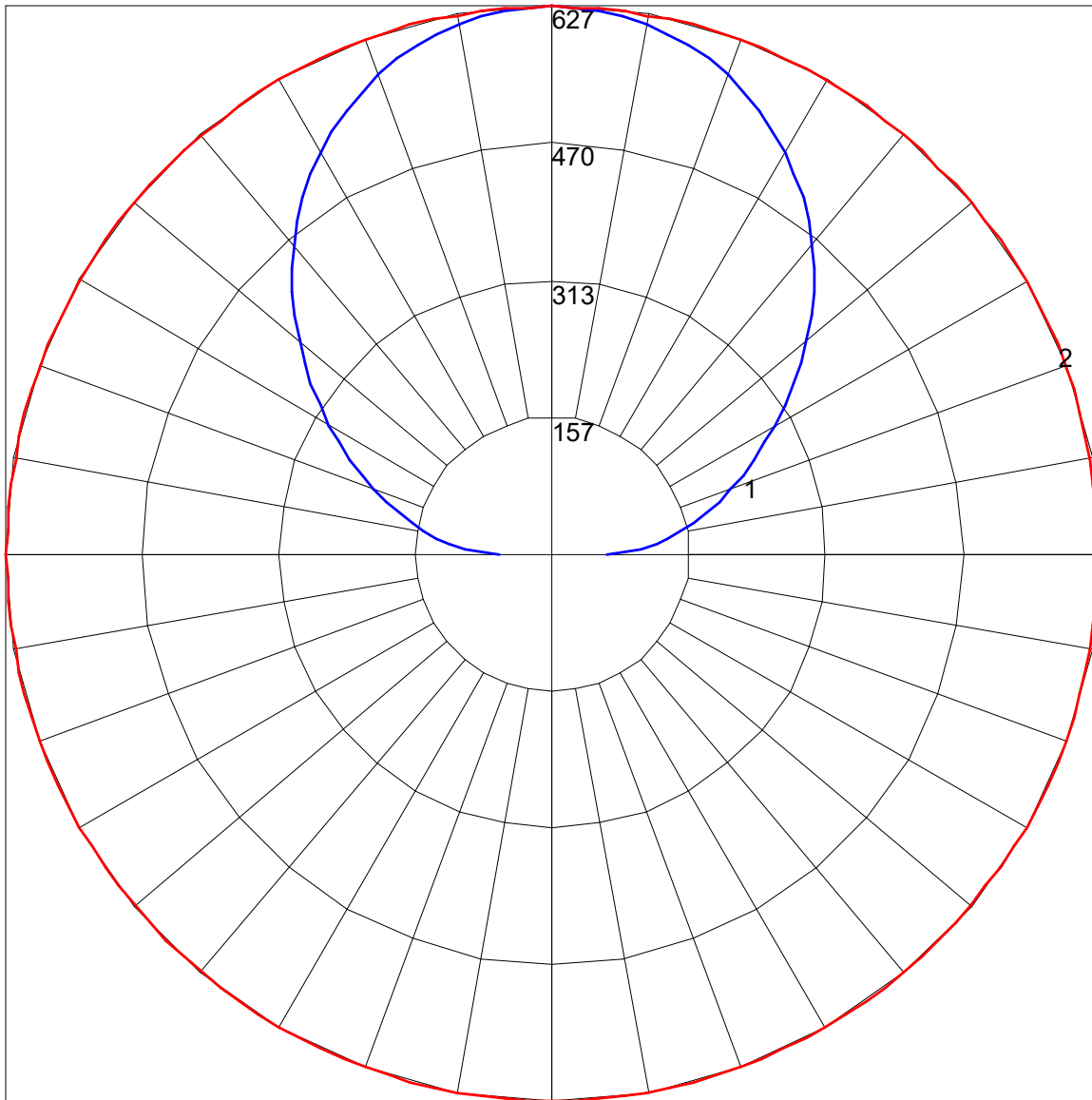
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-TU-SO-FWA-D9 ONLY.IES

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 28 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

POLAR GRAPH



Maximum Candela = 626.649 Located At Horizontal Angle = 67.5, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)