

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-3.902 Family Correlation File

[TESTLAB] Northern Lights Testing Laboratories

[ISSUEDATE] 8/25/2021

[ISSUEDATE] 5/18/2021

[MANUFAC] Finelite

[LUMCAT] HP-2-P-D-4ft-B-8TW-DAO

[LUMINAIRE] HP Series

[LAMPCAT] 160 LEDs with 80 CRI

[LAMP] Samsung

[BALLAST] Osram

[BALLASTCAT] OTi50W/120-277, 700mA

[MORE] extrapolated from KPL2008-3.IES

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 19.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 20.6 WATTS

[ABSOLUTE]LUMENS]1926

[OTHER]see www.finelite.com for source file KPL2008-3. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1926 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 98 |
| Total Luminaire Watts | 19.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.48 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.17 ft |
| Luminous Width (90-270) | 4.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 12456 | 12958 | 9374 |
| 55 | 10571 | 11764 | 8362 |
| 65 | 8728 | 10247 | 7392 |
| 75 | 7281 | 8655 | 6204 |
| 85 | 7266 | 8624 | 5160 |

IES INDOOR REPORT
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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 756.812 | 756.328 | 755.577 | 754.069 | 751.969 | 753.636 | 754.069 | 753.477 | 751.917 | 749.117 |
| 5.0 | 785.228 | 783.077 | 782.753 | 781.569 | 778.718 | 778.609 | 777.801 | 774.950 | 771.666 | 767.471 |
| 7.5 | 809.234 | 807.726 | 807.026 | 804.499 | 801.107 | 800.247 | 798.791 | 786.628 | 790.072 | 783.509 |
| 10.0 | 829.148 | 828.015 | 827.588 | 823.388 | 821.072 | 819.080 | 815.693 | 810.685 | 804.283 | 795.512 |
| 12.5 | 848.521 | 847.337 | 845.937 | 841.634 | 837.326 | 835.283 | 830.383 | 823.821 | 816.013 | 804.926 |
| 15.0 | 859.499 | 858.207 | 856.756 | 853.472 | 849.005 | 846.261 | 840.934 | 833.451 | 820.588 | 811.926 |
| 17.5 | 863.699 | 862.191 | 860.632 | 857.456 | 853.364 | 850.245 | 844.918 | 837.702 | 828.180 | 815.210 |
| 20.0 | 859.932 | 858.691 | 857.188 | 854.497 | 850.888 | 848.197 | 843.194 | 835.983 | 826.348 | 813.269 |
| 22.5 | 850.137 | 848.737 | 847.445 | 845.237 | 842.061 | 839.802 | 834.907 | 828.607 | 819.245 | 808.966 |
| 25.0 | 833.131 | 832.483 | 832.051 | 829.199 | 828.231 | 825.756 | 821.937 | 815.853 | 807.566 | 794.972 |
| 27.5 | 814.829 | 811.602 | 810.685 | 811.226 | 807.834 | 806.599 | 803.531 | 798.307 | 790.288 | 780.385 |
| 30.0 | 787.920 | 785.877 | 784.801 | 786.093 | 784.045 | 782.753 | 780.817 | 776.298 | 770.055 | 759.504 |
| 32.5 | 758.212 | 755.144 | 756.277 | 757.352 | 756.220 | 756.544 | 754.928 | 752.133 | 747.666 | 737.490 |
| 35.0 | 722.476 | 722.693 | 724.360 | 723.176 | 723.660 | 726.085 | 727.479 | 724.952 | 720.644 | 711.066 |
| 37.5 | 685.341 | 684.533 | 685.825 | 687.441 | 688.733 | 690.236 | 694.220 | 691.852 | 688.841 | 681.682 |
| 40.0 | 645.298 | 643.522 | 646.589 | 647.614 | 650.033 | 654.773 | 658.000 | 657.892 | 656.065 | 650.625 |
| 42.5 | 600.519 | 600.143 | 603.803 | 605.419 | 610.154 | 614.678 | 620.381 | 620.705 | 618.873 | 615.054 |
| 45.0 | 556.929 | 557.840 | 559.405 | 564.356 | 568.551 | 573.986 | 578.346 | 581.629 | 582.062 | 579.370 |
| 47.5 | 515.594 | 513.926 | 515.645 | 522.480 | 524.904 | 530.824 | 537.607 | 543.578 | 543.902 | 544.762 |
| 50.0 | 468.663 | 467.207 | 469.039 | 475.174 | 480.718 | 488.361 | 494.712 | 499.772 | 502.299 | 504.131 |
| 52.5 | 425.285 | 425.336 | 427.385 | 433.679 | 439.382 | 444.926 | 451.817 | 460.212 | 465.055 | 465.539 |
| 55.0 | 383.414 | 382.390 | 385.674 | 389.225 | 396.595 | 403.595 | 413.230 | 420.760 | 425.501 | 426.685 |
| 57.5 | 340.787 | 341.162 | 345.470 | 349.130 | 355.049 | 362.100 | 372.430 | 379.266 | 385.025 | 385.406 |
| 60.0 | 302.792 | 303.167 | 306.127 | 310.919 | 315.546 | 324.589 | 330.884 | 339.011 | 344.987 | 347.298 |
| 62.5 | 264.683 | 268.451 | 270.016 | 272.275 | 280.186 | 285.189 | 293.481 | 299.832 | 307.151 | 308.978 |
| 65.0 | 233.256 | 232.772 | 235.140 | 240.199 | 244.286 | 250.154 | 256.562 | 262.156 | 268.343 | 273.835 |
| 67.5 | 201.931 | 202.364 | 202.472 | 208.175 | 212.642 | 217.218 | 221.737 | 228.897 | 233.307 | 238.743 |
| 70.0 | 172.764 | 172.383 | 173.947 | 178.091 | 181.266 | 186.161 | 191.061 | 196.229 | 201.983 | 205.375 |
| 72.5 | 144.023 | 145.315 | 144.831 | 148.434 | 151.934 | 155.969 | 158.712 | 163.828 | 169.588 | 171.472 |
| 75.0 | 119.158 | 119.585 | 120.558 | 122.709 | 125.777 | 128.309 | 132.880 | 136.431 | 139.555 | 141.655 |
| 77.5 | 95.044 | 96.068 | 97.520 | 97.628 | 100.804 | 103.655 | 107.371 | 110.171 | 112.698 | 113.398 |
| 80.0 | 74.487 | 75.347 | 75.939 | 76.906 | 78.687 | 80.890 | 83.206 | 85.414 | 86.490 | 87.782 |
| 82.5 | 55.649 | 56.349 | 56.406 | 57.533 | 58.557 | 59.468 | 61.192 | 62.860 | 64.209 | 64.909 |
| 85.0 | 40.044 | 39.637 | 39.493 | 40.991 | 41.021 | 41.757 | 46.822 | 47.290 | 47.018 | 47.527 |
| 87.5 | 24.036 | 24.510 | 25.112 | 24.494 | 24.824 | 25.694 | 26.080 | 25.436 | 27.150 | 26.687 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert.
Angles**

Horizontal Angles

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 747.501 | 747.017 | 747.017 | 747.717 | 748.417 | 749.493 | 747.074 | 739.755 | 735.663 | 733.079 |
| 5.0 | 763.863 | 761.228 | 759.128 | 756.977 | 755.252 | 754.393 | 749.333 | 739.482 | 731.895 | 726.784 |
| 7.5 | 777.374 | 772.907 | 768.655 | 764.239 | 760.152 | 756.596 | 749.225 | 737.171 | 726.187 | 717.741 |
| 10.0 | 788.080 | 781.626 | 775.490 | 768.923 | 762.628 | 756.220 | 746.533 | 731.947 | 717.849 | 706.382 |
| 12.5 | 795.456 | 787.328 | 779.309 | 770.590 | 762.196 | 753.425 | 741.366 | 724.360 | 707.298 | 693.468 |
| 15.0 | 799.923 | 789.804 | 780.009 | 769.299 | 759.128 | 748.042 | 734.155 | 714.617 | 694.811 | 678.773 |
| 17.5 | 801.699 | 789.320 | 777.482 | 764.723 | 752.669 | 739.323 | 723.336 | 702.939 | 679.257 | 661.608 |
| 20.0 | 799.599 | 786.145 | 772.047 | 757.512 | 743.414 | 728.504 | 710.798 | 688.676 | 664.295 | 642.662 |
| 22.5 | 792.280 | 778.609 | 764.347 | 746.858 | 730.495 | 713.974 | 694.595 | 672.911 | 645.565 | 623.449 |
| 25.0 | 780.550 | 766.555 | 752.452 | 734.695 | 716.233 | 697.611 | 677.646 | 653.641 | 625.492 | 601.492 |
| 27.5 | 766.015 | 751.644 | 737.598 | 718.657 | 698.903 | 679.530 | 657.841 | 633.403 | 602.619 | 579.046 |
| 30.0 | 745.350 | 732.055 | 717.633 | 699.552 | 678.346 | 657.784 | 634.535 | 610.638 | 579.694 | 553.964 |
| 32.5 | 724.468 | 709.882 | 695.511 | 677.698 | 656.384 | 634.751 | 611.178 | 586.097 | 553.697 | 529.372 |
| 35.0 | 697.720 | 683.190 | 669.838 | 653.157 | 632.595 | 609.830 | 585.665 | 561.716 | 528.513 | 503.056 |
| 37.5 | 669.571 | 667.579 | 641.370 | 624.524 | 604.178 | 582.762 | 557.840 | 534.432 | 502.191 | 477.599 |
| 40.0 | 639.538 | 626.357 | 612.522 | 595.567 | 576.626 | 553.753 | 529.856 | 506.015 | 476.734 | 449.825 |
| 42.5 | 605.362 | 592.556 | 580.070 | 563.867 | 546.486 | 525.229 | 500.956 | 478.674 | 447.350 | 423.452 |
| 45.0 | 571.402 | 559.189 | 560.856 | 532.332 | 513.977 | 493.580 | 469.255 | 448.750 | 419.149 | 394.393 |
| 47.5 | 536.043 | 525.604 | 512.577 | 498.696 | 481.469 | 461.020 | 439.171 | 418.609 | 390.193 | 366.995 |
| 50.0 | 499.556 | 487.929 | 476.250 | 461.988 | 446.166 | 427.812 | 407.522 | 388.793 | 360.968 | 339.011 |
| 52.5 | 462.044 | 451.869 | 439.598 | 426.628 | 412.366 | 395.309 | 376.579 | 357.257 | 332.768 | 311.346 |
| 55.0 | 424.152 | 416.566 | 404.995 | 391.433 | 378.514 | 362.800 | 345.738 | 327.868 | 303.276 | 284.762 |
| 57.5 | 383.841 | 378.890 | 367.160 | 356.500 | 344.554 | 330.343 | 314.146 | 298.751 | 275.827 | 256.829 |
| 60.0 | 346.330 | 341.595 | 332.227 | 320.873 | 310.111 | 296.765 | 285.029 | 270.391 | 249.778 | 226.791 |
| 62.5 | 308.495 | 304.619 | 296.976 | 287.449 | 277.119 | 266.516 | 254.513 | 242.567 | 218.381 | 206.919 |
| 65.0 | 273.675 | 269.532 | 264.256 | 254.997 | 244.286 | 235.840 | 224.588 | 215.278 | 197.551 | 183.860 |
| 67.5 | 239.067 | 235.516 | 230.564 | 222.921 | 213.667 | 204.356 | 197.356 | 187.345 | 172.712 | 158.506 |
| 70.0 | 205.859 | 201.715 | 199.888 | 192.729 | 184.550 | 177.066 | 169.588 | 161.945 | 147.070 | 135.438 |
| 72.5 | 173.355 | 169.639 | 166.572 | 161.780 | 155.969 | 149.458 | 145.423 | 136.812 | 123.955 | 112.261 |
| 75.0 | 142.566 | 141.547 | 138.747 | 135.088 | 128.952 | 123.569 | 118.025 | 114.366 | 101.534 | 91.724 |
| 77.5 | 114.690 | 113.239 | 111.839 | 108.931 | 104.463 | 100.644 | 96.176 | 91.817 | 81.590 | 72.217 |
| 80.0 | 87.833 | 87.190 | 85.522 | 83.906 | 81.214 | 77.179 | 75.187 | 74.055 | 61.954 | 54.084 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 82.5 | 64.960 | 64.960 | 63.560 | 61.784 | 60.925 | 59.633 | 58.341 | 54.625 | 44.979 | 37.563 |
| 85.0 | 47.615 | 46.935 | 46.426 | 45.710 | 44.774 | 40.795 | 37.058 | 35.144 | 28.437 | 22.276 |
| 87.5 | 27.119 | 25.045 | 25.889 | 23.861 | 23.311 | 21.756 | 20.711 | 19.718 | 13.413 | 7.787 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 735.447 | 733.187 | 726.887 | 721.668 | 717.257 | 713.917 | 710.314 | 708.322 | 707.082 | 705.630 |
| 5.0 | 726.728 | 722.317 | 714.190 | 706.763 | 700.144 | 694.544 | 690.133 | 686.957 | 685.449 | 683.025 |
| 7.5 | 715.317 | 707.890 | 698.744 | 688.301 | 681.141 | 674.306 | 669.519 | 665.803 | 663.595 | 660.476 |
| 10.0 | 701.971 | 693.360 | 681.573 | 670.971 | 662.952 | 655.525 | 649.497 | 645.246 | 642.230 | 638.195 |
| 12.5 | 686.576 | 676.138 | 663.060 | 651.649 | 643.198 | 634.587 | 629.316 | 625.168 | 621.349 | 617.365 |
| 15.0 | 670.646 | 658.268 | 645.081 | 633.835 | 624.365 | 616.613 | 609.078 | 604.343 | 600.792 | 596.484 |
| 17.5 | 651.865 | 638.946 | 624.900 | 612.846 | 604.394 | 595.248 | 588.140 | 584.054 | 578.994 | 574.743 |
| 20.0 | 632.111 | 618.765 | 604.611 | 592.932 | 583.354 | 574.635 | 568.175 | 563.764 | 558.916 | 554.721 |
| 22.5 | 610.046 | 596.324 | 582.813 | 571.402 | 562.256 | 553.269 | 547.829 | 543.742 | 538.951 | 536.423 |
| 25.0 | 587.981 | 575.118 | 562.091 | 549.121 | 539.383 | 531.524 | 526.140 | 522.372 | 518.713 | 515.702 |
| 27.5 | 565.159 | 551.921 | 539.867 | 527.113 | 517.477 | 510.426 | 506.391 | 502.407 | 499.607 | 496.431 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30.0 | 540.834 | 529.048 | 516.026 | 504.558 | 495.464 | 489.061 | 485.077 | 482.277 | 479.693 | 476.899 |
| 32.5 | 516.345 | 504.558 | 492.345 | 481.685 | 472.482 | 467.747 | 464.412 | 461.880 | 458.328 | 455.961 |
| 35.0 | 492.020 | 480.826 | 466.780 | 458.544 | 449.342 | 444.766 | 442.831 | 440.407 | 437.879 | 435.996 |
| 37.5 | 464.839 | 454.077 | 442.398 | 433.571 | 428.244 | 423.669 | 420.760 | 418.609 | 416.401 | 414.414 |
| 40.0 | 438.898 | 428.677 | 417.801 | 409.890 | 403.971 | 400.903 | 399.071 | 397.136 | 394.820 | 393.801 |
| 42.5 | 411.882 | 402.195 | 393.209 | 386.049 | 380.938 | 378.571 | 377.063 | 375.498 | 374.155 | 374.103 |
| 45.0 | 386.101 | 377.006 | 368.395 | 360.592 | 357.684 | 354.565 | 354.133 | 352.898 | 353.381 | 352.789 |
| 47.5 | 358.868 | 350.530 | 343.046 | 337.287 | 333.627 | 332.660 | 331.584 | 330.076 | 330.235 | 329.860 |
| 50.0 | 331.635 | 324.208 | 317.589 | 312.262 | 310.327 | 308.978 | 308.978 | 308.278 | 308.278 | 308.062 |
| 52.5 | 305.319 | 298.648 | 292.940 | 288.957 | 286.429 | 286.697 | 285.405 | 285.029 | 285.297 | 284.762 |
| 55.0 | 279.270 | 273.511 | 268.400 | 264.524 | 263.392 | 262.908 | 261.724 | 261.889 | 262.156 | 262.908 |
| 57.5 | 253.489 | 248.537 | 243.910 | 240.307 | 240.251 | 239.767 | 238.099 | 238.583 | 239.818 | 240.143 |
| 60.0 | 224.027 | 220.677 | 213.790 | 212.442 | 212.344 | 212.720 | 213.522 | 212.040 | 212.889 | 213.883 |
| 62.5 | 203.033 | 199.415 | 196.193 | 194.597 | 193.799 | 193.475 | 193.768 | 194.525 | 194.741 | 195.832 |
| 65.0 | 178.338 | 174.426 | 173.232 | 171.317 | 171.286 | 170.988 | 171.467 | 172.285 | 173.911 | 175.028 |
| 67.5 | 155.732 | 153.035 | 150.276 | 149.870 | 147.790 | 147.651 | 148.295 | 149.726 | 151.985 | 152.582 |
| 70.0 | 132.391 | 130.249 | 128.654 | 127.583 | 126.945 | 126.955 | 127.542 | 128.283 | 129.236 | 130.424 |
| 72.5 | 111.576 | 108.524 | 108.437 | 106.187 | 105.570 | 105.662 | 106.810 | 107.454 | 108.318 | 109.250 |
| 75.0 | 89.959 | 88.435 | 87.221 | 86.855 | 85.244 | 86.480 | 86.253 | 86.819 | 87.416 | 87.339 |
| 77.5 | 70.668 | 69.340 | 68.208 | 67.508 | 67.075 | 66.988 | 66.715 | 66.859 | 67.096 | 67.420 |
| 80.0 | 51.789 | 51.619 | 50.188 | 49.493 | 49.524 | 49.246 | 49.092 | 47.908 | 48.541 | 47.517 |
| 82.5 | 35.571 | 35.437 | 33.481 | 32.596 | 31.988 | 31.438 | 31.093 | 31.361 | 31.016 | 31.762 |
| 85.0 | 21.025 | 19.919 | 18.961 | 18.045 | 17.371 | 16.748 | 15.600 | 15.389 | 14.756 | 14.180 |
| 87.5 | 6.912 | 6.048 | 5.343 | 4.751 | 4.210 | 3.685 | 3.196 | 2.702 | 2.275 | 1.889 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles
Angles

| | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 704.287 | 701.811 | 699.228 | 700.195 | 699.011 | 699.279 | 701.163 | 699.279 | 699.011 | 700.195 |
| 5.0 | 680.390 | 677.054 | 673.179 | 672.263 | 674.198 | 672.530 | 672.638 | 672.530 | 674.198 | 672.263 |
| 7.5 | 657.300 | 643.578 | 649.014 | 648.797 | 650.573 | 648.849 | 649.173 | 648.849 | 650.573 | 648.797 |
| 10.0 | 634.695 | 630.927 | 628.292 | 627.268 | 628.024 | 626.892 | 628.400 | 626.892 | 628.024 | 627.268 |
| 12.5 | 613.386 | 609.402 | 605.362 | 606.227 | 605.686 | 605.151 | 606.654 | 605.151 | 605.686 | 606.227 |
| 15.0 | 591.964 | 587.229 | 577.754 | 584.965 | 584.321 | 583.946 | 584.805 | 583.946 | 584.321 | 584.965 |
| 17.5 | 570.975 | 566.991 | 564.891 | 565.267 | 563.975 | 563.764 | 565.108 | 563.764 | 563.975 | 565.267 |
| 20.0 | 551.329 | 548.153 | 546.378 | 545.302 | 545.194 | 544.386 | 545.194 | 544.386 | 545.194 | 545.302 |
| 22.5 | 533.248 | 529.104 | 527.272 | 519.413 | 527.432 | 526.196 | 526.896 | 526.196 | 527.432 | 519.413 |
| 25.0 | 512.958 | 509.783 | 508.275 | 509.299 | 508.007 | 508.702 | 508.810 | 508.702 | 508.007 | 509.299 |
| 27.5 | 493.904 | 490.945 | 489.385 | 489.920 | 490.404 | 489.437 | 490.512 | 489.437 | 490.404 | 489.920 |
| 30.0 | 473.450 | 470.871 | 470.280 | 472.055 | 463.712 | 471.083 | 472.215 | 471.083 | 463.712 | 472.055 |
| 32.5 | 453.753 | 451.761 | 451.442 | 452.842 | 452.034 | 452.625 | 453.593 | 452.625 | 452.034 | 452.842 |
| 35.0 | 434.004 | 431.744 | 433.139 | 433.463 | 433.196 | 433.839 | 433.571 | 433.839 | 433.196 | 433.463 |
| 37.5 | 413.982 | 412.741 | 412.530 | 413.714 | 413.441 | 406.555 | 414.414 | 406.555 | 413.441 | 413.714 |
| 40.0 | 392.936 | 392.293 | 393.044 | 394.120 | 393.209 | 394.501 | 395.036 | 394.501 | 393.209 | 394.120 |
| 42.5 | 373.022 | 372.811 | 373.671 | 374.263 | 373.347 | 374.803 | 374.155 | 374.803 | 373.347 | 374.263 |
| 45.0 | 351.498 | 351.065 | 352.841 | 354.081 | 354.617 | 354.673 | 338.851 | 354.673 | 354.617 | 354.081 |
| 47.5 | 329.752 | 330.292 | 331.692 | 332.284 | 333.735 | 333.843 | 335.187 | 333.843 | 333.735 | 332.284 |
| 50.0 | 308.443 | 309.303 | 310.219 | 311.346 | 312.478 | 312.586 | 313.230 | 312.586 | 312.478 | 311.346 |
| 52.5 | 285.565 | 286.754 | 288.473 | 290.732 | 291.381 | 284.170 | 292.240 | 284.170 | 291.381 | 290.732 |
| 55.0 | 263.716 | 265.224 | 267.808 | 268.559 | 268.559 | 269.959 | 269.424 | 269.959 | 268.559 | 268.559 |
| 57.5 | 241.110 | 242.135 | 245.310 | 245.902 | 246.818 | 246.710 | 247.570 | 246.710 | 246.818 | 245.902 |
| 60.0 | 214.511 | 220.100 | 219.982 | 220.085 | 213.661 | 221.305 | 225.505 | 221.305 | 213.661 | 220.085 |
| 62.5 | 197.912 | 200.444 | 200.809 | 201.674 | 202.374 | 202.770 | 202.554 | 202.770 | 202.374 | 201.674 |
| 65.0 | 176.665 | 178.188 | 178.327 | 179.089 | 180.407 | 180.649 | 179.866 | 180.649 | 180.407 | 179.089 |
| 67.5 | 153.354 | 154.384 | 156.041 | 149.623 | 157.029 | 157.158 | 155.670 | 157.158 | 157.029 | 149.623 |
| 70.0 | 131.495 | 132.324 | 133.070 | 133.482 | 133.811 | 133.842 | 135.819 | 133.842 | 133.811 | 133.482 |
| 72.5 | 109.986 | 110.058 | 110.619 | 111.453 | 111.540 | 111.005 | 111.957 | 111.005 | 111.540 | 111.453 |
| 75.0 | 87.854 | 88.471 | 80.020 | 88.718 | 88.456 | 90.072 | 90.072 | 90.072 | 88.456 | 88.718 |
| 77.5 | 67.909 | 67.878 | 67.894 | 67.796 | 67.657 | 68.409 | 67.611 | 68.409 | 67.657 | 67.796 |
| 80.0 | 47.306 | 47.172 | 47.604 | 47.290 | 47.260 | 47.697 | 47.553 | 47.697 | 47.260 | 47.290 |
| 82.5 | 30.347 | 23.439 | 30.161 | 30.496 | 29.631 | 28.267 | 28.710 | 28.267 | 29.631 | 30.496 |
| 85.0 | 13.624 | 12.548 | 12.584 | 12.137 | 11.792 | 11.565 | 10.484 | 11.565 | 11.792 | 12.137 |
| 87.5 | 1.518 | 0.952 | 0.978 | 0.829 | 0.726 | 0.654 | 0.659 | 0.654 | 0.726 | 0.829 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert.
Angles**

Horizontal Angles

| | <u>200</u> | <u>205</u> | <u>210</u> | <u>215</u> | <u>220</u> | <u>225</u> | <u>230</u> | <u>235</u> | <u>240</u> | <u>245</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 699.228 | 701.811 | 704.287 | 705.630 | 707.082 | 708.322 | 710.314 | 713.917 | 717.257 | 721.668 |
| 5.0 | 673.179 | 677.054 | 680.390 | 683.025 | 685.449 | 686.957 | 690.133 | 694.544 | 700.144 | 706.763 |
| 7.5 | 649.014 | 643.578 | 657.300 | 660.476 | 663.595 | 665.803 | 669.519 | 674.306 | 681.141 | 688.301 |
| 10.0 | 628.292 | 630.927 | 634.695 | 638.195 | 642.230 | 645.246 | 649.497 | 655.525 | 662.952 | 670.971 |
| 12.5 | 605.362 | 609.402 | 613.386 | 617.365 | 621.349 | 625.168 | 629.316 | 634.587 | 643.198 | 651.649 |
| 15.0 | 577.754 | 587.229 | 591.964 | 596.484 | 600.792 | 604.343 | 609.078 | 616.613 | 624.365 | 633.835 |
| 17.5 | 564.891 | 566.991 | 570.975 | 574.743 | 578.994 | 584.054 | 588.140 | 595.248 | 604.394 | 612.846 |
| 20.0 | 546.378 | 548.153 | 551.329 | 554.721 | 558.916 | 563.764 | 568.175 | 574.635 | 583.354 | 592.932 |
| 22.5 | 527.272 | 529.104 | 533.248 | 536.423 | 538.951 | 543.742 | 547.829 | 553.269 | 562.256 | 571.402 |
| 25.0 | 508.275 | 509.783 | 512.958 | 515.702 | 518.713 | 522.372 | 526.140 | 531.524 | 539.383 | 549.121 |
| 27.5 | 489.385 | 490.945 | 493.904 | 496.431 | 499.607 | 502.407 | 506.391 | 510.426 | 517.477 | 527.113 |
| 30.0 | 470.280 | 470.871 | 473.450 | 476.899 | 479.693 | 482.277 | 485.077 | 489.061 | 495.464 | 504.558 |
| 32.5 | 451.442 | 451.761 | 453.753 | 455.961 | 458.328 | 461.880 | 464.412 | 467.747 | 472.482 | 481.685 |
| 35.0 | 433.139 | 431.744 | 434.004 | 435.996 | 437.879 | 440.407 | 442.831 | 444.766 | 449.342 | 458.544 |
| 37.5 | 412.530 | 412.741 | 413.982 | 414.414 | 416.401 | 418.609 | 420.760 | 423.669 | 428.244 | 433.571 |
| 40.0 | 393.044 | 392.293 | 392.936 | 393.801 | 394.820 | 397.136 | 399.071 | 400.903 | 403.971 | 409.890 |
| 42.5 | 373.671 | 372.811 | 373.022 | 374.103 | 374.155 | 375.498 | 377.063 | 378.571 | 380.938 | 386.049 |
| 45.0 | 352.841 | 351.065 | 351.498 | 352.789 | 353.381 | 352.898 | 354.133 | 354.565 | 357.684 | 360.592 |
| 47.5 | 331.692 | 330.292 | 329.752 | 329.860 | 330.235 | 330.076 | 331.584 | 332.660 | 333.627 | 337.287 |
| 50.0 | 310.219 | 309.303 | 308.443 | 308.062 | 308.278 | 308.278 | 308.978 | 308.978 | 310.327 | 312.262 |
| 52.5 | 288.473 | 286.754 | 285.565 | 284.762 | 285.297 | 285.029 | 285.405 | 286.697 | 286.429 | 288.957 |
| 55.0 | 267.808 | 265.224 | 263.716 | 262.908 | 262.156 | 261.889 | 261.724 | 262.908 | 263.392 | 264.524 |
| 57.5 | 245.310 | 242.135 | 241.110 | 240.143 | 239.818 | 238.583 | 238.099 | 239.767 | 240.251 | 240.307 |
| 60.0 | 219.982 | 220.100 | 214.511 | 213.883 | 212.889 | 212.040 | 213.522 | 212.720 | 212.344 | 212.442 |
| 62.5 | 200.809 | 200.444 | 197.912 | 195.832 | 194.741 | 194.525 | 193.768 | 193.475 | 193.799 | 194.597 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65.0 | 178.327 | 178.188 | 176.665 | 175.028 | 173.911 | 172.285 | 171.467 | 170.988 | 171.286 | 171.317 |
| 67.5 | 156.041 | 154.384 | 153.354 | 152.582 | 151.985 | 149.726 | 148.295 | 147.651 | 147.790 | 149.870 |
| 70.0 | 133.070 | 132.324 | 131.495 | 130.424 | 129.236 | 128.283 | 127.542 | 126.955 | 126.945 | 127.583 |
| 72.5 | 110.619 | 110.058 | 109.986 | 109.250 | 108.318 | 107.454 | 106.810 | 105.662 | 105.570 | 106.187 |
| 75.0 | 80.020 | 88.471 | 87.854 | 87.339 | 87.416 | 86.819 | 86.253 | 86.480 | 85.244 | 86.855 |
| 77.5 | 67.894 | 67.878 | 67.909 | 67.420 | 67.096 | 66.859 | 66.715 | 66.988 | 67.075 | 67.508 |
| 80.0 | 47.604 | 47.172 | 47.306 | 47.517 | 48.541 | 47.908 | 49.092 | 49.246 | 49.524 | 49.493 |
| 82.5 | 30.161 | 23.439 | 30.347 | 31.762 | 31.016 | 31.361 | 31.093 | 31.438 | 31.988 | 32.596 |
| 85.0 | 12.584 | 12.548 | 13.624 | 14.180 | 14.756 | 15.389 | 15.600 | 16.748 | 17.371 | 18.045 |
| 87.5 | 0.978 | 0.952 | 1.518 | 1.889 | 2.275 | 2.702 | 3.196 | 3.685 | 4.210 | 4.751 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>250</u> | <u>255</u> | <u>260</u> | <u>265</u> | <u>270</u> | <u>275</u> | <u>280</u> | <u>285</u> | <u>290</u> | <u>295</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 726.887 | 733.187 | 735.447 | 733.079 | 735.663 | 739.755 | 747.074 | 749.493 | 748.417 | 747.717 |
| 5.0 | 714.190 | 722.317 | 726.728 | 726.784 | 731.895 | 739.482 | 749.333 | 754.393 | 755.252 | 756.977 |
| 7.5 | 698.744 | 707.890 | 715.317 | 717.741 | 726.187 | 737.171 | 749.225 | 756.596 | 760.152 | 764.239 |
| 10.0 | 681.573 | 693.360 | 701.971 | 706.382 | 717.849 | 731.947 | 746.533 | 756.220 | 762.628 | 768.923 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12.5 | 663.060 | 676.138 | 686.576 | 693.468 | 707.298 | 724.360 | 741.366 | 753.425 | 762.196 | 770.590 |
| 15.0 | 645.081 | 658.268 | 670.646 | 678.773 | 694.811 | 714.617 | 734.155 | 748.042 | 759.128 | 769.299 |
| 17.5 | 624.900 | 638.946 | 651.865 | 661.608 | 679.257 | 702.939 | 723.336 | 739.323 | 752.669 | 764.723 |
| 20.0 | 604.611 | 618.765 | 632.111 | 642.662 | 664.295 | 688.676 | 710.798 | 728.504 | 743.414 | 757.512 |
| 22.5 | 582.813 | 596.324 | 610.046 | 623.449 | 645.565 | 672.911 | 694.595 | 713.974 | 730.495 | 746.858 |
| 25.0 | 562.091 | 575.118 | 587.981 | 601.492 | 625.492 | 653.641 | 677.646 | 697.611 | 716.233 | 734.695 |
| 27.5 | 539.867 | 551.921 | 565.159 | 579.046 | 602.619 | 633.403 | 657.841 | 679.530 | 698.903 | 718.657 |
| 30.0 | 516.026 | 529.048 | 540.834 | 553.964 | 579.694 | 610.638 | 634.535 | 657.784 | 678.346 | 699.552 |
| 32.5 | 492.345 | 504.558 | 516.345 | 529.372 | 553.697 | 586.097 | 611.178 | 634.751 | 656.384 | 677.698 |
| 35.0 | 466.780 | 480.826 | 492.020 | 503.056 | 528.513 | 561.716 | 585.665 | 609.830 | 632.595 | 653.157 |
| 37.5 | 442.398 | 454.077 | 464.839 | 477.599 | 502.191 | 534.432 | 557.840 | 582.762 | 604.178 | 624.524 |
| 40.0 | 417.801 | 428.677 | 438.898 | 449.825 | 476.734 | 506.015 | 529.856 | 553.753 | 576.626 | 595.567 |
| 42.5 | 393.209 | 402.195 | 411.882 | 423.452 | 447.350 | 478.674 | 500.956 | 525.229 | 546.486 | 563.867 |
| 45.0 | 368.395 | 377.006 | 386.101 | 394.393 | 419.149 | 448.750 | 469.255 | 493.580 | 513.977 | 532.332 |
| 47.5 | 343.046 | 350.530 | 358.868 | 366.995 | 390.193 | 418.609 | 439.171 | 461.020 | 481.469 | 498.696 |
| 50.0 | 317.589 | 324.208 | 331.635 | 339.011 | 360.968 | 388.793 | 407.522 | 427.812 | 446.166 | 461.988 |
| 52.5 | 292.940 | 298.648 | 305.319 | 311.346 | 332.768 | 357.257 | 376.579 | 395.309 | 412.366 | 426.628 |
| 55.0 | 268.400 | 273.511 | 279.270 | 284.762 | 303.276 | 327.868 | 345.738 | 362.800 | 378.514 | 391.433 |
| 57.5 | 243.910 | 248.537 | 253.489 | 256.829 | 275.827 | 298.751 | 314.146 | 330.343 | 344.554 | 356.500 |
| 60.0 | 213.790 | 220.677 | 224.027 | 226.791 | 249.778 | 270.391 | 285.029 | 296.765 | 310.111 | 320.873 |
| 62.5 | 196.193 | 199.415 | 203.033 | 206.919 | 218.381 | 242.567 | 254.513 | 266.516 | 277.119 | 287.449 |
| 65.0 | 173.232 | 174.426 | 178.338 | 183.860 | 197.551 | 215.278 | 224.588 | 235.840 | 244.286 | 254.997 |
| 67.5 | 150.276 | 153.035 | 155.732 | 158.506 | 172.712 | 187.345 | 197.356 | 204.356 | 213.667 | 222.921 |
| 70.0 | 128.654 | 130.249 | 132.391 | 135.438 | 147.070 | 161.945 | 169.588 | 177.066 | 184.550 | 192.729 |
| 72.5 | 108.437 | 108.524 | 111.576 | 112.261 | 123.955 | 136.812 | 145.423 | 149.458 | 155.969 | 161.780 |
| 75.0 | 87.221 | 88.435 | 89.959 | 91.724 | 101.534 | 114.366 | 118.025 | 123.569 | 128.952 | 135.088 |
| 77.5 | 68.208 | 69.340 | 70.668 | 72.217 | 81.590 | 91.817 | 96.176 | 100.644 | 104.463 | 108.931 |
| 80.0 | 50.188 | 51.619 | 51.789 | 54.084 | 61.954 | 74.055 | 75.187 | 77.179 | 81.214 | 83.906 |
| 82.5 | 33.481 | 35.437 | 35.571 | 37.563 | 44.979 | 54.625 | 58.341 | 59.633 | 60.925 | 61.784 |
| 85.0 | 18.961 | 19.919 | 21.025 | 22.276 | 28.437 | 35.144 | 37.058 | 40.795 | 44.774 | 45.710 |
| 87.5 | 5.343 | 6.048 | 6.912 | 7.787 | 13.413 | 19.718 | 20.711 | 21.756 | 23.311 | 23.861 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>300</u> | <u>305</u> | <u>310</u> | <u>315</u> | <u>320</u> | <u>325</u> | <u>330</u> | <u>335</u> | <u>340</u> | <u>345</u> |
| 0.0 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 | 731.895 |
| 2.5 | 747.017 | 747.017 | 747.501 | 749.117 | 751.917 | 753.477 | 754.069 | 753.636 | 751.969 | 754.069 |
| 5.0 | 759.128 | 761.228 | 763.863 | 767.471 | 771.666 | 774.950 | 777.801 | 778.609 | 778.718 | 781.569 |
| 7.5 | 768.655 | 772.907 | 777.374 | 783.509 | 790.072 | 786.628 | 798.791 | 800.247 | 801.107 | 804.499 |
| 10.0 | 775.490 | 781.626 | 788.080 | 795.512 | 804.283 | 810.685 | 815.693 | 819.080 | 821.072 | 823.388 |
| 12.5 | 779.309 | 787.328 | 795.456 | 804.926 | 816.013 | 823.821 | 830.383 | 835.283 | 837.326 | 841.634 |
| 15.0 | 780.009 | 789.804 | 799.923 | 811.926 | 820.588 | 833.451 | 840.934 | 846.261 | 849.005 | 853.472 |
| 17.5 | 777.482 | 789.320 | 801.699 | 815.210 | 828.180 | 837.702 | 844.918 | 850.245 | 853.364 | 857.456 |
| 20.0 | 772.047 | 786.145 | 799.599 | 813.269 | 826.348 | 835.983 | 843.194 | 848.197 | 850.888 | 854.497 |
| 22.5 | 764.347 | 778.609 | 792.280 | 808.966 | 819.245 | 828.607 | 834.907 | 839.802 | 842.061 | 845.237 |
| 25.0 | 752.452 | 766.555 | 780.550 | 794.972 | 807.566 | 815.853 | 821.937 | 825.756 | 828.231 | 829.199 |
| 27.5 | 737.598 | 751.644 | 766.015 | 780.385 | 790.288 | 798.307 | 803.531 | 806.599 | 807.834 | 811.226 |
| 30.0 | 717.633 | 732.055 | 745.350 | 759.504 | 770.055 | 776.298 | 780.817 | 782.753 | 784.045 | 786.093 |
| 32.5 | 695.511 | 709.882 | 724.468 | 737.490 | 747.666 | 752.133 | 754.928 | 756.544 | 756.220 | 757.352 |
| 35.0 | 669.838 | 683.190 | 697.720 | 711.066 | 720.644 | 724.952 | 727.479 | 726.085 | 723.660 | 723.176 |
| 37.5 | 641.370 | 667.579 | 669.571 | 681.682 | 688.841 | 691.852 | 694.220 | 690.236 | 688.733 | 687.441 |
| 40.0 | 612.522 | 626.357 | 639.538 | 650.625 | 656.065 | 657.892 | 658.000 | 654.773 | 650.033 | 647.614 |
| 42.5 | 580.070 | 592.556 | 605.362 | 615.054 | 618.873 | 620.705 | 620.381 | 614.678 | 610.154 | 605.419 |
| 45.0 | 560.856 | 559.189 | 571.402 | 579.370 | 582.062 | 581.629 | 578.346 | 573.986 | 568.551 | 564.356 |
| 47.5 | 512.577 | 525.604 | 536.043 | 544.762 | 543.902 | 543.578 | 537.607 | 530.824 | 524.904 | 522.480 |
| 50.0 | 476.250 | 487.929 | 499.556 | 504.131 | 502.299 | 499.772 | 494.712 | 488.361 | 480.718 | 475.174 |
| 52.5 | 439.598 | 451.869 | 462.044 | 465.539 | 465.055 | 460.212 | 451.817 | 444.926 | 439.382 | 433.679 |
| 55.0 | 404.995 | 416.566 | 424.152 | 426.685 | 425.501 | 420.760 | 413.230 | 403.595 | 396.595 | 389.225 |
| 57.5 | 367.160 | 378.890 | 383.841 | 385.406 | 385.025 | 379.266 | 372.430 | 362.100 | 355.049 | 349.130 |
| 60.0 | 332.227 | 341.595 | 346.330 | 347.298 | 344.987 | 339.011 | 330.884 | 324.589 | 315.546 | 310.919 |
| 62.5 | 296.976 | 304.619 | 308.495 | 308.978 | 307.151 | 299.832 | 293.481 | 285.189 | 280.186 | 272.275 |
| 65.0 | 264.256 | 269.532 | 273.675 | 273.835 | 268.343 | 262.156 | 256.562 | 250.154 | 244.286 | 240.199 |
| 67.5 | 230.564 | 235.516 | 239.067 | 238.743 | 233.307 | 228.897 | 221.737 | 217.218 | 212.642 | 208.175 |
| 70.0 | 199.888 | 201.715 | 205.859 | 205.375 | 201.983 | 196.229 | 191.061 | 186.161 | 181.266 | 178.091 |
| 72.5 | 166.572 | 169.639 | 173.355 | 171.472 | 169.588 | 163.828 | 158.712 | 155.969 | 151.934 | 148.434 |
| 75.0 | 138.747 | 141.547 | 142.566 | 141.655 | 139.555 | 136.431 | 132.880 | 128.309 | 125.777 | 122.709 |
| 77.5 | 111.839 | 113.239 | 114.690 | 113.398 | 112.698 | 110.171 | 107.371 | 103.655 | 100.804 | 97.628 |
| 80.0 | 85.522 | 87.190 | 87.833 | 87.782 | 86.490 | 85.414 | 83.206 | 80.890 | 78.687 | 76.906 |
| 82.5 | 63.560 | 64.960 | 64.960 | 64.909 | 64.209 | 62.860 | 61.192 | 59.468 | 58.557 | 57.533 |
| 85.0 | 46.426 | 46.935 | 47.615 | 47.527 | 47.018 | 47.290 | 46.822 | 41.757 | 41.021 | 40.991 |
| 87.5 | 25.889 | 25.045 | 27.119 | 26.687 | 27.150 | 25.436 | 26.080 | 25.694 | 24.824 | 24.494 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>350</u> | <u>355</u> | <u>360</u> |
|------|------------|------------|------------|
| 0.0 | 731.895 | 731.895 | 731.895 |
| 2.5 | 755.577 | 756.328 | 756.812 |
| 5.0 | 782.753 | 783.077 | 785.228 |
| 7.5 | 807.026 | 807.726 | 809.234 |
| 10.0 | 827.588 | 828.015 | 829.148 |
| 12.5 | 845.937 | 847.337 | 848.521 |
| 15.0 | 856.756 | 858.207 | 859.499 |
| 17.5 | 860.632 | 862.191 | 863.699 |
| 20.0 | 857.188 | 858.691 | 859.932 |
| 22.5 | 847.445 | 848.737 | 850.137 |
| 25.0 | 832.051 | 832.483 | 833.131 |
| 27.5 | 810.685 | 811.602 | 814.829 |
| 30.0 | 784.801 | 785.877 | 787.920 |
| 32.5 | 756.277 | 755.144 | 758.212 |
| 35.0 | 724.360 | 722.693 | 722.476 |
| 37.5 | 685.825 | 684.533 | 685.341 |
| 40.0 | 646.589 | 643.522 | 645.298 |
| 42.5 | 603.803 | 600.143 | 600.519 |
| 45.0 | 559.405 | 557.840 | 556.929 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------|---------|---------|---------|
| 47.5 | 515.645 | 513.926 | 515.594 |
| 50.0 | 469.039 | 467.207 | 468.663 |
| 52.5 | 427.385 | 425.336 | 425.285 |
| 55.0 | 385.674 | 382.390 | 383.414 |
| 57.5 | 345.470 | 341.162 | 340.787 |
| 60.0 | 306.127 | 303.167 | 302.792 |
| 62.5 | 270.016 | 268.451 | 264.683 |
| 65.0 | 235.140 | 232.772 | 233.256 |
| 67.5 | 202.472 | 202.364 | 201.931 |
| 70.0 | 173.947 | 172.383 | 172.764 |
| 72.5 | 144.831 | 145.315 | 144.023 |
| 75.0 | 120.558 | 119.585 | 119.158 |
| 77.5 | 97.520 | 96.068 | 95.044 |
| 80.0 | 75.939 | 75.347 | 74.487 |
| 82.5 | 56.406 | 56.349 | 55.649 |
| 85.0 | 39.493 | 39.637 | 40.044 |
| 87.5 | 25.112 | 24.510 | 24.036 |
| 90.0 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 269.49 | N.A. | 14.00 |
| 0-30 | 570.57 | N.A. | 29.60 |
| 0-40 | 923.70 | N.A. | 48.00 |
| 0-60 | 1567.07 | N.A. | 81.40 |
| 0-80 | 1892.98 | N.A. | 98.30 |
| 0-90 | 1926.07 | N.A. | 100.00 |
| 10-90 | 1856.63 | N.A. | 96.40 |
| 20-40 | 654.21 | N.A. | 34.00 |
| 20-50 | 1002.98 | N.A. | 52.10 |
| 40-70 | 853.55 | N.A. | 44.30 |
| 60-80 | 325.91 | N.A. | 16.90 |
| 70-80 | 115.73 | N.A. | 6.00 |
| 80-90 | 33.09 | N.A. | 1.70 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1926.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 69.45 |
| 10-20 | 200.05 |
| 20-30 | 301.08 |
| 30-40 | 353.13 |
| 40-50 | 348.77 |
| 50-60 | 294.60 |
| 60-70 | 210.18 |
| 70-80 | 115.73 |
| 80-90 | 33.09 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

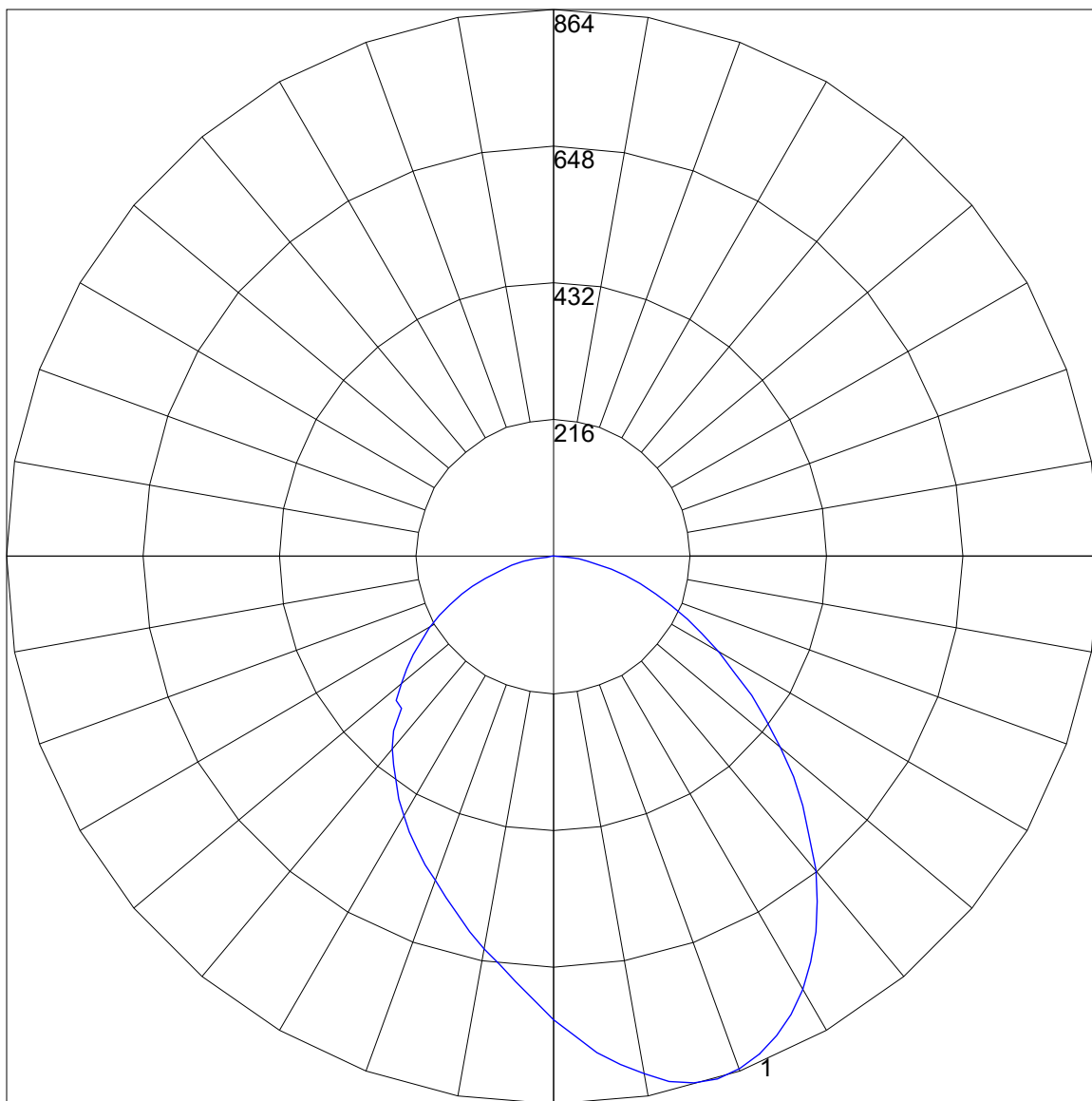
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-P-D-4FT-B-8TW-DAO-KPL2008-3.902.IES

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 63 | 60 |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 42 | 35 | 30 | 40 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

POLAR GRAPH



Maximum Candela = 863.699 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)