

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 : HP2-P-D-4FT-B-835-MLB-KPL2008-6.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-6.002 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[TESTDATE] 2/10/2022
[ISSUEDATE] 2/10/2023
[MANUFAC] Finelite, Inc.
[LUMCAT] HP2-P-D-4ft-B-835-MLB
[LUMINAIRE] HP2 Series
[LAMPCAT] 128 NFSW757GT-V3 LEDs with 80 CRI
[LAMP] Nichia
[BALLAST] Osram
[BALLASTCAT] OTi50, 700mA
[MORE] extrapolated from KPL2008-6.IES
[OTHER] see www.finelite.com for source file KPL2008-6. 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 | 1266 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 69 |
| Total Luminaire Watts | 18.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.48 |
| Spacing Criterion (90-270) | 0.56 |
| Spacing Criterion (Diagonal) | 0.56 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 202 | 120 | 125 |
| 55 | 89 | 47 | 53 |
| 65 | 44 | 23 | 26 |
| 75 | 23 | 13 | 13 |
| 85 | 8 | 4 | 4 |

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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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3923.248 | 3924.879 | 3952.076 | 3982.734 | 3964.506 | 3952.991 | 3926.747 | 3954.910 | 3917.584 | 3941.955 |
| 5.0 | 3697.770 | 3727.899 | 3765.509 | 3770.834 | 3757.118 | 3741.523 | 3688.659 | 3726.315 | 3728.764 | 3724.637 |
| 7.5 | 3356.876 | 3387.483 | 3420.632 | 3425.237 | 3418.039 | 3422.885 | 3421.157 | 3419.047 | 3419.289 | 3421.831 |
| 10.0 | 2918.304 | 2916.915 | 2947.090 | 2972.897 | 2967.670 | 2979.040 | 2995.061 | 3019.670 | 3097.055 | 3067.791 |
| 12.5 | 2341.667 | 2368.915 | 2399.044 | 2440.826 | 2453.205 | 2408.063 | 2512.068 | 2553.470 | 2598.658 | 2652.870 |
| 15.0 | 1881.893 | 1891.148 | 1928.187 | 1937.252 | 1959.273 | 1994.583 | 2024.804 | 2078.723 | 2150.208 | 2214.586 |
| 17.5 | 1415.497 | 1440.013 | 1464.143 | 1487.454 | 1524.107 | 1572.079 | 1608.253 | 1670.522 | 1726.026 | 1880.550 |
| 20.0 | 957.256 | 977.887 | 1017.848 | 1056.034 | 1044.998 | 1156.731 | 1233.005 | 1281.028 | 1343.200 | 1395.781 |
| 22.5 | 596.404 | 602.207 | 634.204 | 673.254 | 721.035 | 815.641 | 903.671 | 946.462 | 998.323 | 1025.092 |
| 25.0 | 351.164 | 361.279 | 375.309 | 392.957 | 412.137 | 435.006 | 536.146 | 600.767 | 655.170 | 703.193 |
| 27.5 | 208.752 | 218.496 | 225.236 | 229.712 | 259.723 | 286.122 | 319.343 | 352.769 | 388.393 | 418.697 |
| 30.0 | 118.303 | 120.330 | 126.329 | 137.844 | 147.789 | 168.559 | 186.654 | 199.949 | 217.153 | 248.939 |
| 32.5 | 58.318 | 58.673 | 61.863 | 78.034 | 87.084 | 93.757 | 103.897 | 112.525 | 115.828 | 127.821 |
| 35.0 | 27.536 | 28.019 | 28.282 | 31.225 | 35.557 | 42.986 | 52.973 | 61.359 | 63.885 | 68.757 |
| 37.5 | 18.393 | 18.517 | 18.368 | 17.920 | 18.136 | 19.937 | 23.816 | 28.863 | 32.521 | 34.317 |
| 40.0 | 14.668 | 14.668 | 14.504 | 14.092 | 13.485 | 13.022 | 13.032 | 13.511 | 15.311 | 16.747 |
| 42.5 | 11.514 | 11.381 | 11.396 | 11.165 | 10.686 | 10.141 | 9.462 | 8.659 | 8.325 | 8.103 |
| 45.0 | 9.019 | 8.993 | 8.890 | 8.602 | 8.263 | 7.815 | 7.218 | 6.601 | 5.963 | 5.361 |
| 47.5 | 7.121 | 7.059 | 6.863 | 6.622 | 6.287 | 5.891 | 5.428 | 4.908 | 4.440 | 3.972 |
| 50.0 | 5.356 | 5.438 | 5.284 | 5.109 | 4.805 | 4.471 | 4.090 | 3.699 | 3.318 | 2.974 |
| 52.5 | 4.183 | 4.203 | 4.090 | 3.869 | 3.674 | 3.375 | 3.092 | 2.773 | 2.506 | 2.248 |
| 55.0 | 3.241 | 3.226 | 3.133 | 2.994 | 2.809 | 2.598 | 2.356 | 2.120 | 1.898 | 1.708 |
| 57.5 | 2.495 | 2.475 | 2.413 | 2.305 | 2.161 | 1.986 | 1.801 | 1.626 | 1.441 | 1.307 |
| 60.0 | 1.919 | 1.909 | 1.847 | 1.780 | 1.677 | 1.543 | 1.384 | 1.240 | 1.116 | 1.019 |
| 62.5 | 1.497 | 1.471 | 1.425 | 1.369 | 1.276 | 1.178 | 1.075 | 0.967 | 0.875 | 0.787 |
| 65.0 | 1.163 | 1.158 | 1.106 | 1.070 | 0.988 | 0.921 | 0.833 | 0.751 | 0.674 | 0.617 |
| 67.5 | 0.900 | 0.875 | 0.854 | 0.818 | 0.761 | 0.710 | 0.643 | 0.592 | 0.530 | 0.484 |
| 70.0 | 0.689 | 0.674 | 0.653 | 0.623 | 0.587 | 0.540 | 0.489 | 0.458 | 0.406 | 0.381 |
| 72.5 | 0.520 | 0.499 | 0.489 | 0.473 | 0.442 | 0.406 | 0.376 | 0.334 | 0.314 | 0.288 |
| 75.0 | 0.376 | 0.370 | 0.360 | 0.345 | 0.324 | 0.304 | 0.273 | 0.257 | 0.232 | 0.216 |
| 77.5 | 0.268 | 0.257 | 0.257 | 0.247 | 0.237 | 0.211 | 0.201 | 0.180 | 0.170 | 0.165 |
| 80.0 | 0.175 | 0.175 | 0.175 | 0.175 | 0.165 | 0.149 | 0.139 | 0.123 | 0.118 | 0.113 |
| 82.5 | 0.113 | 0.108 | 0.108 | 0.108 | 0.098 | 0.087 | 0.087 | 0.072 | 0.067 | 0.067 |
| 85.0 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.031 | 0.036 | 0.031 | 0.031 | 0.021 |
| 87.5 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 |

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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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3943.874 | 3944.353 | 3938.596 | 3939.558 | 3935.241 | 3940.036 | 3940.998 | 3945.794 | 3953.948 | 3945.794 |
| 5.0 | 3737.062 | 3734.999 | 3722.044 | 3720.943 | 3725.450 | 3733.080 | 3732.216 | 3738.313 | 3744.981 | 3738.313 |
| 7.5 | 3426.580 | 3435.645 | 3428.066 | 3425.571 | 3427.300 | 3432.002 | 3434.400 | 3428.401 | 3441.598 | 3428.401 |
| 10.0 | 3091.102 | 3101.660 | 3101.850 | 3095.419 | 3088.370 | 3097.292 | 3095.182 | 3092.785 | 3095.229 | 3092.785 |
| 12.5 | 2680.020 | 2710.005 | 2722.764 | 2727.035 | 2734.088 | 2737.875 | 2741.142 | 2744.065 | 2735.719 | 2744.065 |
| 15.0 | 2272.441 | 2331.783 | 2363.399 | 2376.735 | 2372.274 | 2373.808 | 2360.425 | 2343.252 | 2341.477 | 2343.252 |
| 17.5 | 1857.809 | 1908.806 | 1946.225 | 1938.693 | 1908.183 | 1882.129 | 1860.063 | 1828.786 | 1817.606 | 1828.786 |
| 20.0 | 1430.083 | 1434.878 | 1450.133 | 1444.617 | 1445.909 | 1433.870 | 1422.067 | 1411.901 | 1414.823 | 1411.901 |
| 22.5 | 1035.742 | 1043.851 | 1059.682 | 1082.273 | 1092.254 | 1099.447 | 1085.345 | 1076.758 | 1072.488 | 1076.758 |
| 25.0 | 749.147 | 786.762 | 786.520 | 780.285 | 751.211 | 725.403 | 710.627 | 679.973 | 678.919 | 679.973 |
| 27.5 | 452.597 | 479.037 | 448.080 | 433.370 | 418.146 | 405.052 | 391.259 | 386.603 | 378.690 | 386.603 |
| 30.0 | 277.087 | 281.007 | 263.057 | 242.960 | 231.045 | 224.125 | 214.540 | 210.223 | 208.433 | 210.223 |
| 32.5 | 133.548 | 134.798 | 127.610 | 124.559 | 122.023 | 124.981 | 120.217 | 117.871 | 115.952 | 117.871 |
| 35.0 | 68.320 | 67.903 | 64.096 | 66.792 | 71.885 | 66.627 | 62.223 | 59.646 | 57.989 | 59.646 |
| 37.5 | 34.749 | 34.584 | 35.135 | 34.837 | 32.408 | 28.169 | 24.773 | 22.149 | 21.485 | 22.149 |
| 40.0 | 16.953 | 17.179 | 16.412 | 14.843 | 12.446 | 10.089 | 9.266 | 9.209 | 9.230 | 9.209 |
| 42.5 | 8.042 | 7.784 | 7.254 | 6.565 | 6.611 | 6.745 | 6.858 | 7.100 | 7.244 | 7.100 |
| 45.0 | 5.001 | 4.826 | 4.841 | 4.970 | 5.124 | 5.232 | 5.320 | 5.510 | 5.593 | 5.510 |
| 47.5 | 3.684 | 3.581 | 3.637 | 3.746 | 3.890 | 3.992 | 4.059 | 4.198 | 4.291 | 4.198 |
| 50.0 | 2.737 | 2.665 | 2.711 | 2.814 | 2.943 | 3.051 | 3.092 | 3.221 | 3.303 | 3.221 |
| 52.5 | 2.079 | 2.027 | 2.073 | 2.166 | 2.279 | 2.331 | 2.377 | 2.454 | 2.516 | 2.454 |
| 55.0 | 1.580 | 1.549 | 1.580 | 1.646 | 1.713 | 1.770 | 1.816 | 1.862 | 1.919 | 1.862 |
| 57.5 | 1.219 | 1.183 | 1.204 | 1.245 | 1.312 | 1.363 | 1.394 | 1.435 | 1.466 | 1.435 |
| 60.0 | 0.952 | 0.931 | 0.936 | 0.978 | 1.019 | 1.060 | 1.080 | 1.091 | 1.142 | 1.091 |
| 62.5 | 0.746 | 0.725 | 0.731 | 0.751 | 0.787 | 0.813 | 0.828 | 0.854 | 0.890 | 0.854 |
| 65.0 | 0.581 | 0.566 | 0.571 | 0.592 | 0.612 | 0.633 | 0.653 | 0.664 | 0.700 | 0.664 |
| 67.5 | 0.453 | 0.442 | 0.453 | 0.458 | 0.478 | 0.494 | 0.514 | 0.514 | 0.530 | 0.514 |
| 70.0 | 0.350 | 0.334 | 0.340 | 0.355 | 0.370 | 0.381 | 0.391 | 0.386 | 0.412 | 0.386 |
| 72.5 | 0.273 | 0.262 | 0.262 | 0.273 | 0.278 | 0.288 | 0.298 | 0.298 | 0.298 | 0.298 |
| 75.0 | 0.201 | 0.206 | 0.201 | 0.206 | 0.211 | 0.221 | 0.221 | 0.221 | 0.211 | 0.221 |
| 77.5 | 0.154 | 0.149 | 0.144 | 0.154 | 0.165 | 0.165 | 0.159 | 0.159 | 0.165 | 0.159 |
| 80.0 | 0.108 | 0.103 | 0.098 | 0.108 | 0.108 | 0.108 | 0.113 | 0.103 | 0.098 | 0.103 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 82.5 | 0.062 | 0.057 | 0.057 | 0.057 | 0.057 | 0.067 | 0.067 | 0.062 | 0.057 | 0.062 |
| 85.0 | 0.026 | 0.021 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.026 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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. 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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3940.998 | 3940.036 | 3935.241 | 3939.558 | 3938.596 | 3944.353 | 3943.874 | 3941.955 | 3917.584 | 3954.910 |
| 5.0 | 3732.216 | 3733.080 | 3725.450 | 3720.943 | 3722.044 | 3734.999 | 3737.062 | 3724.637 | 3728.764 | 3726.315 |
| 7.5 | 3434.400 | 3432.002 | 3427.300 | 3425.571 | 3428.066 | 3435.645 | 3426.580 | 3421.831 | 3419.289 | 3419.047 |
| 10.0 | 3095.182 | 3097.292 | 3088.370 | 3095.419 | 3101.850 | 3101.660 | 3091.102 | 3067.791 | 3097.055 | 3019.670 |
| 12.5 | 2741.142 | 2737.875 | 2734.088 | 2727.035 | 2722.764 | 2710.005 | 2680.020 | 2652.870 | 2598.658 | 2553.470 |
| 15.0 | 2360.425 | 2373.808 | 2372.274 | 2376.735 | 2363.399 | 2331.783 | 2272.441 | 2214.586 | 2150.208 | 2078.723 |
| 17.5 | 1860.063 | 1882.129 | 1908.183 | 1938.693 | 1946.225 | 1908.806 | 1857.809 | 1880.550 | 1726.026 | 1670.522 |
| 20.0 | 1422.067 | 1433.870 | 1445.909 | 1444.617 | 1450.133 | 1434.878 | 1430.083 | 1395.781 | 1343.200 | 1281.028 |
| 22.5 | 1085.345 | 1099.447 | 1092.254 | 1082.273 | 1059.682 | 1043.851 | 1035.742 | 1025.092 | 998.323 | 946.462 |
| 25.0 | 710.627 | 725.403 | 751.211 | 780.285 | 786.520 | 786.762 | 749.147 | 703.193 | 655.170 | 600.767 |
| 27.5 | 391.259 | 405.052 | 418.146 | 433.370 | 448.080 | 479.037 | 452.597 | 418.697 | 388.393 | 352.769 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP2-P-D-4FT-B-835-MLB-KPL2008-6.002.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30.0 | 214.540 | 224.125 | 231.045 | 242.960 | 263.057 | 281.007 | 277.087 | 248.939 | 217.153 | 199.949 |
| 32.5 | 120.217 | 124.981 | 122.023 | 124.559 | 127.610 | 134.798 | 133.548 | 127.821 | 115.828 | 112.525 |
| 35.0 | 62.223 | 66.627 | 71.885 | 66.792 | 64.096 | 67.903 | 68.320 | 68.757 | 63.885 | 61.359 |
| 37.5 | 24.773 | 28.169 | 32.408 | 34.837 | 35.135 | 34.584 | 34.749 | 34.317 | 32.521 | 28.863 |
| 40.0 | 9.266 | 10.089 | 12.446 | 14.843 | 16.412 | 17.179 | 16.953 | 16.747 | 15.311 | 13.511 |
| 42.5 | 6.858 | 6.745 | 6.611 | 6.565 | 7.254 | 7.784 | 8.042 | 8.103 | 8.325 | 8.659 |
| 45.0 | 5.320 | 5.232 | 5.124 | 4.970 | 4.841 | 4.826 | 5.001 | 5.361 | 5.963 | 6.601 |
| 47.5 | 4.059 | 3.992 | 3.890 | 3.746 | 3.637 | 3.581 | 3.684 | 3.972 | 4.440 | 4.908 |
| 50.0 | 3.092 | 3.051 | 2.943 | 2.814 | 2.711 | 2.665 | 2.737 | 2.974 | 3.318 | 3.699 |
| 52.5 | 2.377 | 2.331 | 2.279 | 2.166 | 2.073 | 2.027 | 2.079 | 2.248 | 2.506 | 2.773 |
| 55.0 | 1.816 | 1.770 | 1.713 | 1.646 | 1.580 | 1.549 | 1.580 | 1.708 | 1.898 | 2.120 |
| 57.5 | 1.394 | 1.363 | 1.312 | 1.245 | 1.204 | 1.183 | 1.219 | 1.307 | 1.441 | 1.626 |
| 60.0 | 1.080 | 1.060 | 1.019 | 0.978 | 0.936 | 0.931 | 0.952 | 1.019 | 1.116 | 1.240 |
| 62.5 | 0.828 | 0.813 | 0.787 | 0.751 | 0.731 | 0.725 | 0.746 | 0.787 | 0.875 | 0.967 |
| 65.0 | 0.653 | 0.633 | 0.612 | 0.592 | 0.571 | 0.566 | 0.581 | 0.617 | 0.674 | 0.751 |
| 67.5 | 0.514 | 0.494 | 0.478 | 0.458 | 0.453 | 0.442 | 0.453 | 0.484 | 0.530 | 0.592 |
| 70.0 | 0.391 | 0.381 | 0.370 | 0.355 | 0.340 | 0.334 | 0.350 | 0.381 | 0.406 | 0.458 |
| 72.5 | 0.298 | 0.288 | 0.278 | 0.273 | 0.262 | 0.262 | 0.273 | 0.288 | 0.314 | 0.334 |
| 75.0 | 0.221 | 0.221 | 0.211 | 0.206 | 0.201 | 0.206 | 0.201 | 0.216 | 0.232 | 0.257 |
| 77.5 | 0.159 | 0.165 | 0.165 | 0.154 | 0.144 | 0.149 | 0.154 | 0.165 | 0.170 | 0.180 |
| 80.0 | 0.113 | 0.108 | 0.108 | 0.108 | 0.098 | 0.103 | 0.108 | 0.113 | 0.118 | 0.123 |
| 82.5 | 0.067 | 0.067 | 0.057 | 0.057 | 0.057 | 0.057 | 0.062 | 0.067 | 0.067 | 0.072 |
| 85.0 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.021 | 0.026 | 0.021 | 0.031 | 0.031 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 : HP2-P-D-4FT-B-835-MLB-KPL2008-6.002.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.
Angles**

Horizontal Angles

| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> | <u>185</u> | <u>190</u> | <u>195</u> |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.0 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3926.747 | 3952.991 | 3964.506 | 3982.734 | 3952.076 | 3924.879 | 3923.248 | 3924.879 | 3952.076 | 3982.734 |
| 5.0 | 3688.659 | 3741.523 | 3757.118 | 3770.834 | 3765.509 | 3727.899 | 3697.770 | 3727.899 | 3765.509 | 3770.834 |
| 7.5 | 3421.157 | 3422.885 | 3418.039 | 3425.237 | 3420.632 | 3387.483 | 3356.876 | 3387.483 | 3420.632 | 3425.237 |
| 10.0 | 2995.061 | 2979.040 | 2967.670 | 2972.897 | 2947.090 | 2916.915 | 2918.304 | 2916.915 | 2947.090 | 2972.897 |
| 12.5 | 2512.068 | 2408.063 | 2453.205 | 2440.826 | 2399.044 | 2368.915 | 2341.667 | 2368.915 | 2399.044 | 2440.826 |
| 15.0 | 2024.804 | 1994.583 | 1959.273 | 1937.252 | 1928.187 | 1891.148 | 1881.893 | 1891.148 | 1928.187 | 1937.252 |
| 17.5 | 1608.253 | 1572.079 | 1524.107 | 1487.454 | 1464.143 | 1440.013 | 1415.497 | 1440.013 | 1464.143 | 1487.454 |
| 20.0 | 1233.005 | 1156.731 | 1044.998 | 1056.034 | 1017.848 | 977.887 | 957.256 | 977.887 | 1017.848 | 1056.034 |
| 22.5 | 903.671 | 815.641 | 721.035 | 673.254 | 634.204 | 602.207 | 596.404 | 602.207 | 634.204 | 673.254 |
| 25.0 | 536.146 | 435.006 | 412.137 | 392.957 | 375.309 | 361.279 | 351.164 | 361.279 | 375.309 | 392.957 |
| 27.5 | 319.343 | 286.122 | 259.723 | 229.712 | 225.236 | 218.496 | 208.752 | 218.496 | 225.236 | 229.712 |
| 30.0 | 186.654 | 168.559 | 147.789 | 137.844 | 126.329 | 120.330 | 118.303 | 120.330 | 126.329 | 137.844 |
| 32.5 | 103.897 | 93.757 | 87.084 | 78.034 | 61.863 | 58.673 | 58.318 | 58.673 | 61.863 | 78.034 |
| 35.0 | 52.973 | 42.986 | 35.557 | 31.225 | 28.282 | 28.019 | 27.536 | 28.019 | 28.282 | 31.225 |
| 37.5 | 23.816 | 19.937 | 18.136 | 17.920 | 18.368 | 18.517 | 18.393 | 18.517 | 18.368 | 17.920 |
| 40.0 | 13.032 | 13.022 | 13.485 | 14.092 | 14.504 | 14.668 | 14.668 | 14.668 | 14.504 | 14.092 |
| 42.5 | 9.462 | 10.141 | 10.686 | 11.165 | 11.396 | 11.381 | 11.514 | 11.381 | 11.396 | 11.165 |
| 45.0 | 7.218 | 7.815 | 8.263 | 8.602 | 8.890 | 8.993 | 9.019 | 8.993 | 8.890 | 8.602 |
| 47.5 | 5.428 | 5.891 | 6.287 | 6.622 | 6.863 | 7.059 | 7.121 | 7.059 | 6.863 | 6.622 |
| 50.0 | 4.090 | 4.471 | 4.805 | 5.109 | 5.284 | 5.438 | 5.356 | 5.438 | 5.284 | 5.109 |
| 52.5 | 3.092 | 3.375 | 3.674 | 3.869 | 4.090 | 4.203 | 4.183 | 4.203 | 4.090 | 3.869 |
| 55.0 | 2.356 | 2.598 | 2.809 | 2.994 | 3.133 | 3.226 | 3.241 | 3.226 | 3.133 | 2.994 |
| 57.5 | 1.801 | 1.986 | 2.161 | 2.305 | 2.413 | 2.475 | 2.495 | 2.475 | 2.413 | 2.305 |
| 60.0 | 1.384 | 1.543 | 1.677 | 1.780 | 1.847 | 1.909 | 1.919 | 1.909 | 1.847 | 1.780 |
| 62.5 | 1.075 | 1.178 | 1.276 | 1.369 | 1.425 | 1.471 | 1.497 | 1.471 | 1.425 | 1.369 |
| 65.0 | 0.833 | 0.921 | 0.988 | 1.070 | 1.106 | 1.158 | 1.163 | 1.158 | 1.106 | 1.070 |
| 67.5 | 0.643 | 0.710 | 0.761 | 0.818 | 0.854 | 0.875 | 0.900 | 0.875 | 0.854 | 0.818 |
| 70.0 | 0.489 | 0.540 | 0.587 | 0.623 | 0.653 | 0.674 | 0.689 | 0.674 | 0.653 | 0.623 |
| 72.5 | 0.376 | 0.406 | 0.442 | 0.473 | 0.489 | 0.499 | 0.520 | 0.499 | 0.489 | 0.473 |
| 75.0 | 0.273 | 0.304 | 0.324 | 0.345 | 0.360 | 0.370 | 0.376 | 0.370 | 0.360 | 0.345 |
| 77.5 | 0.201 | 0.211 | 0.237 | 0.247 | 0.257 | 0.257 | 0.268 | 0.257 | 0.257 | 0.247 |
| 80.0 | 0.139 | 0.149 | 0.165 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 |
| 82.5 | 0.087 | 0.087 | 0.098 | 0.108 | 0.108 | 0.108 | 0.113 | 0.108 | 0.108 | 0.108 |
| 85.0 | 0.036 | 0.031 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 |
| 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
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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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3964.506 | 3952.991 | 3926.747 | 3954.910 | 3917.584 | 3941.955 | 3943.874 | 3944.353 | 3938.596 | 3939.558 |
| 5.0 | 3757.118 | 3741.523 | 3688.659 | 3726.315 | 3728.764 | 3724.637 | 3737.062 | 3734.999 | 3722.044 | 3720.943 |
| 7.5 | 3418.039 | 3422.885 | 3421.157 | 3419.047 | 3419.289 | 3421.831 | 3426.580 | 3435.645 | 3428.066 | 3425.571 |
| 10.0 | 2967.670 | 2979.040 | 2995.061 | 3019.670 | 3097.055 | 3067.791 | 3091.102 | 3101.660 | 3101.850 | 3095.419 |
| 12.5 | 2453.205 | 2408.063 | 2512.068 | 2553.470 | 2598.658 | 2652.870 | 2680.020 | 2710.005 | 2722.764 | 2727.035 |
| 15.0 | 1959.273 | 1994.583 | 2024.804 | 2078.723 | 2150.208 | 2214.586 | 2272.441 | 2331.783 | 2363.399 | 2376.735 |
| 17.5 | 1524.107 | 1572.079 | 1608.253 | 1670.522 | 1726.026 | 1880.550 | 1857.809 | 1908.806 | 1946.225 | 1938.693 |
| 20.0 | 1044.998 | 1156.731 | 1233.005 | 1281.028 | 1343.200 | 1395.781 | 1430.083 | 1434.878 | 1450.133 | 1444.617 |
| 22.5 | 721.035 | 815.641 | 903.671 | 946.462 | 998.323 | 1025.092 | 1035.742 | 1043.851 | 1059.682 | 1082.273 |
| 25.0 | 412.137 | 435.006 | 536.146 | 600.767 | 655.170 | 703.193 | 749.147 | 786.762 | 786.520 | 780.285 |
| 27.5 | 259.723 | 286.122 | 319.343 | 352.769 | 388.393 | 418.697 | 452.597 | 479.037 | 448.080 | 433.370 |
| 30.0 | 147.789 | 168.559 | 186.654 | 199.949 | 217.153 | 248.939 | 277.087 | 281.007 | 263.057 | 242.960 |
| 32.5 | 87.084 | 93.757 | 103.897 | 112.525 | 115.828 | 127.821 | 133.548 | 134.798 | 127.610 | 124.559 |
| 35.0 | 35.557 | 42.986 | 52.973 | 61.359 | 63.885 | 68.757 | 68.320 | 67.903 | 64.096 | 66.792 |
| 37.5 | 18.136 | 19.937 | 23.816 | 28.863 | 32.521 | 34.317 | 34.749 | 34.584 | 35.135 | 34.837 |
| 40.0 | 13.485 | 13.022 | 13.032 | 13.511 | 15.311 | 16.747 | 16.953 | 17.179 | 16.412 | 14.843 |
| 42.5 | 10.686 | 10.141 | 9.462 | 8.659 | 8.325 | 8.103 | 8.042 | 7.784 | 7.254 | 6.565 |
| 45.0 | 8.263 | 7.815 | 7.218 | 6.601 | 5.963 | 5.361 | 5.001 | 4.826 | 4.841 | 4.970 |
| 47.5 | 6.287 | 5.891 | 5.428 | 4.908 | 4.440 | 3.972 | 3.684 | 3.581 | 3.637 | 3.746 |
| 50.0 | 4.805 | 4.471 | 4.090 | 3.699 | 3.318 | 2.974 | 2.737 | 2.665 | 2.711 | 2.814 |
| 52.5 | 3.674 | 3.375 | 3.092 | 2.773 | 2.506 | 2.248 | 2.079 | 2.027 | 2.073 | 2.166 |
| 55.0 | 2.809 | 2.598 | 2.356 | 2.120 | 1.898 | 1.708 | 1.580 | 1.549 | 1.580 | 1.646 |
| 57.5 | 2.161 | 1.986 | 1.801 | 1.626 | 1.441 | 1.307 | 1.219 | 1.183 | 1.204 | 1.245 |
| 60.0 | 1.677 | 1.543 | 1.384 | 1.240 | 1.116 | 1.019 | 0.952 | 0.931 | 0.936 | 0.978 |
| 62.5 | 1.276 | 1.178 | 1.075 | 0.967 | 0.875 | 0.787 | 0.746 | 0.725 | 0.731 | 0.751 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65.0 | 0.988 | 0.921 | 0.833 | 0.751 | 0.674 | 0.617 | 0.581 | 0.566 | 0.571 | 0.592 |
| 67.5 | 0.761 | 0.710 | 0.643 | 0.592 | 0.530 | 0.484 | 0.453 | 0.442 | 0.453 | 0.458 |
| 70.0 | 0.587 | 0.540 | 0.489 | 0.458 | 0.406 | 0.381 | 0.350 | 0.334 | 0.340 | 0.355 |
| 72.5 | 0.442 | 0.406 | 0.376 | 0.334 | 0.314 | 0.288 | 0.273 | 0.262 | 0.262 | 0.273 |
| 75.0 | 0.324 | 0.304 | 0.273 | 0.257 | 0.232 | 0.216 | 0.201 | 0.206 | 0.201 | 0.206 |
| 77.5 | 0.237 | 0.211 | 0.201 | 0.180 | 0.170 | 0.165 | 0.154 | 0.149 | 0.144 | 0.154 |
| 80.0 | 0.165 | 0.149 | 0.139 | 0.123 | 0.118 | 0.113 | 0.108 | 0.103 | 0.098 | 0.108 |
| 82.5 | 0.098 | 0.087 | 0.087 | 0.072 | 0.067 | 0.067 | 0.062 | 0.057 | 0.057 | 0.057 |
| 85.0 | 0.046 | 0.031 | 0.036 | 0.031 | 0.031 | 0.021 | 0.026 | 0.021 | 0.021 | 0.026 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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. 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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3935.241 | 3940.036 | 3940.998 | 3945.794 | 3953.948 | 3945.794 | 3940.998 | 3940.036 | 3935.241 | 3939.558 |
| 5.0 | 3725.450 | 3733.080 | 3732.216 | 3738.313 | 3744.981 | 3738.313 | 3732.216 | 3733.080 | 3725.450 | 3720.943 |
| 7.5 | 3427.300 | 3432.002 | 3434.400 | 3428.401 | 3441.598 | 3428.401 | 3434.400 | 3432.002 | 3427.300 | 3425.571 |
| 10.0 | 3088.370 | 3097.292 | 3095.182 | 3092.785 | 3095.229 | 3092.785 | 3095.182 | 3097.292 | 3088.370 | 3095.419 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 12.5 | 2734.088 | 2737.875 | 2741.142 | 2744.065 | 2735.719 | 2744.065 | 2741.142 | 2737.875 | 2734.088 | 2727.035 |
| 15.0 | 2372.274 | 2373.808 | 2360.425 | 2343.252 | 2341.477 | 2343.252 | 2360.425 | 2373.808 | 2372.274 | 2376.735 |
| 17.5 | 1908.183 | 1882.129 | 1860.063 | 1828.786 | 1817.606 | 1828.786 | 1860.063 | 1882.129 | 1908.183 | 1938.693 |
| 20.0 | 1445.909 | 1433.870 | 1422.067 | 1411.901 | 1414.823 | 1411.901 | 1422.067 | 1433.870 | 1445.909 | 1444.617 |
| 22.5 | 1092.254 | 1099.447 | 1085.345 | 1076.758 | 1072.488 | 1076.758 | 1085.345 | 1099.447 | 1092.254 | 1082.273 |
| 25.0 | 751.211 | 725.403 | 710.627 | 679.973 | 678.919 | 679.973 | 710.627 | 725.403 | 751.211 | 780.285 |
| 27.5 | 418.146 | 405.052 | 391.259 | 386.603 | 378.690 | 386.603 | 391.259 | 405.052 | 418.146 | 433.370 |
| 30.0 | 231.045 | 224.125 | 214.540 | 210.223 | 208.433 | 210.223 | 214.540 | 224.125 | 231.045 | 242.960 |
| 32.5 | 122.023 | 124.981 | 120.217 | 117.871 | 115.952 | 117.871 | 120.217 | 124.981 | 122.023 | 124.559 |
| 35.0 | 71.885 | 66.627 | 62.223 | 59.646 | 57.989 | 59.646 | 62.223 | 66.627 | 71.885 | 66.792 |
| 37.5 | 32.408 | 28.169 | 24.773 | 22.149 | 21.485 | 22.149 | 24.773 | 28.169 | 32.408 | 34.837 |
| 40.0 | 12.446 | 10.089 | 9.266 | 9.209 | 9.230 | 9.209 | 9.266 | 10.089 | 12.446 | 14.843 |
| 42.5 | 6.611 | 6.745 | 6.858 | 7.100 | 7.244 | 7.100 | 6.858 | 6.745 | 6.611 | 6.565 |
| 45.0 | 5.124 | 5.232 | 5.320 | 5.510 | 5.593 | 5.510 | 5.320 | 5.232 | 5.124 | 4.970 |
| 47.5 | 3.890 | 3.992 | 4.059 | 4.198 | 4.291 | 4.198 | 4.059 | 3.992 | 3.890 | 3.746 |
| 50.0 | 2.943 | 3.051 | 3.092 | 3.221 | 3.303 | 3.221 | 3.092 | 3.051 | 2.943 | 2.814 |
| 52.5 | 2.279 | 2.331 | 2.377 | 2.454 | 2.516 | 2.454 | 2.377 | 2.331 | 2.279 | 2.166 |
| 55.0 | 1.713 | 1.770 | 1.816 | 1.862 | 1.919 | 1.862 | 1.816 | 1.770 | 1.713 | 1.646 |
| 57.5 | 1.312 | 1.363 | 1.394 | 1.435 | 1.466 | 1.435 | 1.394 | 1.363 | 1.312 | 1.245 |
| 60.0 | 1.019 | 1.060 | 1.080 | 1.091 | 1.142 | 1.091 | 1.080 | 1.060 | 1.019 | 0.978 |
| 62.5 | 0.787 | 0.813 | 0.828 | 0.854 | 0.890 | 0.854 | 0.828 | 0.813 | 0.787 | 0.751 |
| 65.0 | 0.612 | 0.633 | 0.653 | 0.664 | 0.700 | 0.664 | 0.653 | 0.633 | 0.612 | 0.592 |
| 67.5 | 0.478 | 0.494 | 0.514 | 0.514 | 0.530 | 0.514 | 0.514 | 0.494 | 0.478 | 0.458 |
| 70.0 | 0.370 | 0.381 | 0.391 | 0.386 | 0.412 | 0.386 | 0.391 | 0.381 | 0.370 | 0.355 |
| 72.5 | 0.278 | 0.288 | 0.298 | 0.298 | 0.298 | 0.298 | 0.298 | 0.288 | 0.278 | 0.273 |
| 75.0 | 0.211 | 0.221 | 0.221 | 0.221 | 0.211 | 0.221 | 0.221 | 0.221 | 0.211 | 0.206 |
| 77.5 | 0.165 | 0.165 | 0.159 | 0.159 | 0.165 | 0.159 | 0.159 | 0.165 | 0.165 | 0.154 |
| 80.0 | 0.108 | 0.108 | 0.113 | 0.103 | 0.098 | 0.103 | 0.113 | 0.108 | 0.108 | 0.108 |
| 82.5 | 0.057 | 0.067 | 0.067 | 0.062 | 0.057 | 0.062 | 0.067 | 0.067 | 0.057 | 0.057 |
| 85.0 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.026 | 0.021 | 0.026 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 |

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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 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3938.596 | 3944.353 | 3943.874 | 3941.955 | 3917.584 | 3954.910 | 3926.747 | 3952.991 | 3964.506 | 3982.734 |
| 5.0 | 3722.044 | 3734.999 | 3737.062 | 3724.637 | 3728.764 | 3726.315 | 3688.659 | 3741.523 | 3757.118 | 3770.834 |
| 7.5 | 3428.066 | 3435.645 | 3426.580 | 3421.831 | 3419.289 | 3419.047 | 3421.157 | 3422.885 | 3418.039 | 3425.237 |
| 10.0 | 3101.850 | 3101.660 | 3091.102 | 3067.791 | 3097.055 | 3019.670 | 2995.061 | 2979.040 | 2967.670 | 2972.897 |
| 12.5 | 2722.764 | 2710.005 | 2680.020 | 2652.870 | 2598.658 | 2553.470 | 2512.068 | 2408.063 | 2453.205 | 2440.826 |
| 15.0 | 2363.399 | 2331.783 | 2272.441 | 2214.586 | 2150.208 | 2078.723 | 2024.804 | 1994.583 | 1959.273 | 1937.252 |
| 17.5 | 1946.225 | 1908.806 | 1857.809 | 1880.550 | 1726.026 | 1670.522 | 1608.253 | 1572.079 | 1524.107 | 1487.454 |
| 20.0 | 1450.133 | 1434.878 | 1430.083 | 1395.781 | 1343.200 | 1281.028 | 1233.005 | 1156.731 | 1044.998 | 1056.034 |
| 22.5 | 1059.682 | 1043.851 | 1035.742 | 1025.092 | 998.323 | 946.462 | 903.671 | 815.641 | 721.035 | 673.254 |
| 25.0 | 786.520 | 786.762 | 749.147 | 703.193 | 655.170 | 600.767 | 536.146 | 435.006 | 412.137 | 392.957 |
| 27.5 | 448.080 | 479.037 | 452.597 | 418.697 | 388.393 | 352.769 | 319.343 | 286.122 | 259.723 | 229.712 |
| 30.0 | 263.057 | 281.007 | 277.087 | 248.939 | 217.153 | 199.949 | 186.654 | 168.559 | 147.789 | 137.844 |
| 32.5 | 127.610 | 134.798 | 133.548 | 127.821 | 115.828 | 112.525 | 103.897 | 93.757 | 87.084 | 78.034 |
| 35.0 | 64.096 | 67.903 | 68.320 | 68.757 | 63.885 | 61.359 | 52.973 | 42.986 | 35.557 | 31.225 |
| 37.5 | 35.135 | 34.584 | 34.749 | 34.317 | 32.521 | 28.863 | 23.816 | 19.937 | 18.136 | 17.920 |
| 40.0 | 16.412 | 17.179 | 16.953 | 16.747 | 15.311 | 13.511 | 13.032 | 13.022 | 13.485 | 14.092 |
| 42.5 | 7.254 | 7.784 | 8.042 | 8.103 | 8.325 | 8.659 | 9.462 | 10.141 | 10.686 | 11.165 |
| 45.0 | 4.841 | 4.826 | 5.001 | 5.361 | 5.963 | 6.601 | 7.218 | 7.815 | 8.263 | 8.602 |
| 47.5 | 3.637 | 3.581 | 3.684 | 3.972 | 4.440 | 4.908 | 5.428 | 5.891 | 6.287 | 6.622 |
| 50.0 | 2.711 | 2.665 | 2.737 | 2.974 | 3.318 | 3.699 | 4.090 | 4.471 | 4.805 | 5.109 |
| 52.5 | 2.073 | 2.027 | 2.079 | 2.248 | 2.506 | 2.773 | 3.092 | 3.375 | 3.674 | 3.869 |
| 55.0 | 1.580 | 1.549 | 1.580 | 1.708 | 1.898 | 2.120 | 2.356 | 2.598 | 2.809 | 2.994 |
| 57.5 | 1.204 | 1.183 | 1.219 | 1.307 | 1.441 | 1.626 | 1.801 | 1.986 | 2.161 | 2.305 |
| 60.0 | 0.936 | 0.931 | 0.952 | 1.019 | 1.116 | 1.240 | 1.384 | 1.543 | 1.677 | 1.780 |
| 62.5 | 0.731 | 0.725 | 0.746 | 0.787 | 0.875 | 0.967 | 1.075 | 1.178 | 1.276 | 1.369 |
| 65.0 | 0.571 | 0.566 | 0.581 | 0.617 | 0.674 | 0.751 | 0.833 | 0.921 | 0.988 | 1.070 |
| 67.5 | 0.453 | 0.442 | 0.453 | 0.484 | 0.530 | 0.592 | 0.643 | 0.710 | 0.761 | 0.818 |
| 70.0 | 0.340 | 0.334 | 0.350 | 0.381 | 0.406 | 0.458 | 0.489 | 0.540 | 0.587 | 0.623 |
| 72.5 | 0.262 | 0.262 | 0.273 | 0.288 | 0.314 | 0.334 | 0.376 | 0.406 | 0.442 | 0.473 |
| 75.0 | 0.201 | 0.206 | 0.201 | 0.216 | 0.232 | 0.257 | 0.273 | 0.304 | 0.324 | 0.345 |
| 77.5 | 0.144 | 0.149 | 0.154 | 0.165 | 0.170 | 0.180 | 0.201 | 0.211 | 0.237 | 0.247 |
| 80.0 | 0.098 | 0.103 | 0.108 | 0.113 | 0.118 | 0.123 | 0.139 | 0.149 | 0.165 | 0.175 |
| 82.5 | 0.057 | 0.057 | 0.062 | 0.067 | 0.067 | 0.072 | 0.087 | 0.087 | 0.098 | 0.108 |
| 85.0 | 0.021 | 0.021 | 0.026 | 0.021 | 0.031 | 0.031 | 0.036 | 0.031 | 0.046 | 0.046 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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
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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 | 4024.841 | 4024.841 | 4024.841 |
| 2.5 | 3952.076 | 3924.879 | 3923.248 |
| 5.0 | 3765.509 | 3727.899 | 3697.770 |
| 7.5 | 3420.632 | 3387.483 | 3356.876 |
| 10.0 | 2947.090 | 2916.915 | 2918.304 |
| 12.5 | 2399.044 | 2368.915 | 2341.667 |
| 15.0 | 1928.187 | 1891.148 | 1881.893 |
| 17.5 | 1464.143 | 1440.013 | 1415.497 |
| 20.0 | 1017.848 | 977.887 | 957.256 |
| 22.5 | 634.204 | 602.207 | 596.404 |
| 25.0 | 375.309 | 361.279 | 351.164 |
| 27.5 | 225.236 | 218.496 | 208.752 |
| 30.0 | 126.329 | 120.330 | 118.303 |
| 32.5 | 61.863 | 58.673 | 58.318 |
| 35.0 | 28.282 | 28.019 | 27.536 |
| 37.5 | 18.368 | 18.517 | 18.393 |
| 40.0 | 14.504 | 14.668 | 14.668 |
| 42.5 | 11.396 | 11.381 | 11.514 |
| 45.0 | 8.890 | 8.993 | 9.019 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | |
|-------|-------|-------|-------|
| 47.5 | 6.863 | 7.059 | 7.121 |
| 50.0 | 5.284 | 5.438 | 5.356 |
| 52.5 | 4.090 | 4.203 | 4.183 |
| 55.0 | 3.133 | 3.226 | 3.241 |
| 57.5 | 2.413 | 2.475 | 2.495 |
| 60.0 | 1.847 | 1.909 | 1.919 |
| 62.5 | 1.425 | 1.471 | 1.497 |
| 65.0 | 1.106 | 1.158 | 1.163 |
| 67.5 | 0.854 | 0.875 | 0.900 |
| 70.0 | 0.653 | 0.674 | 0.689 |
| 72.5 | 0.489 | 0.499 | 0.520 |
| 75.0 | 0.360 | 0.370 | 0.376 |
| 77.5 | 0.257 | 0.257 | 0.268 |
| 80.0 | 0.175 | 0.175 | 0.175 |
| 82.5 | 0.108 | 0.108 | 0.113 |
| 85.0 | 0.046 | 0.046 | 0.046 |
| 87.5 | 0.000 | 0.000 | 0.010 |
| 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 : HP2-P-D-4FT-B-835-MLB-KPL2008-6.002.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 922.67 | N.A. | 72.90 |
| 0-30 | 1213.04 | N.A. | 95.80 |
| 0-40 | 1257.51 | N.A. | 99.30 |
| 0-60 | 1265.00 | N.A. | 99.90 |
| 0-80 | 1266.08 | N.A. | 100.00 |
| 0-90 | 1266.13 | N.A. | 100.00 |
| 10-90 | 931.97 | N.A. | 73.60 |
| 20-40 | 334.84 | N.A. | 26.40 |
| 20-50 | 340.30 | N.A. | 26.90 |
| 40-70 | 8.29 | N.A. | 0.70 |
| 60-80 | 1.08 | N.A. | 0.10 |
| 70-80 | 0.29 | N.A. | 0.00 |
| 80-90 | 0.05 | N.A. | 0.00 |
| 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 | 1266.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 334.16 |
| 10-20 | 588.50 |
| 20-30 | 290.37 |
| 30-40 | 44.47 |
| 40-50 | 5.46 |
| 50-60 | 2.03 |
| 60-70 | 0.80 |
| 70-80 | 0.29 |
| 80-90 | 0.05 |
| 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 |

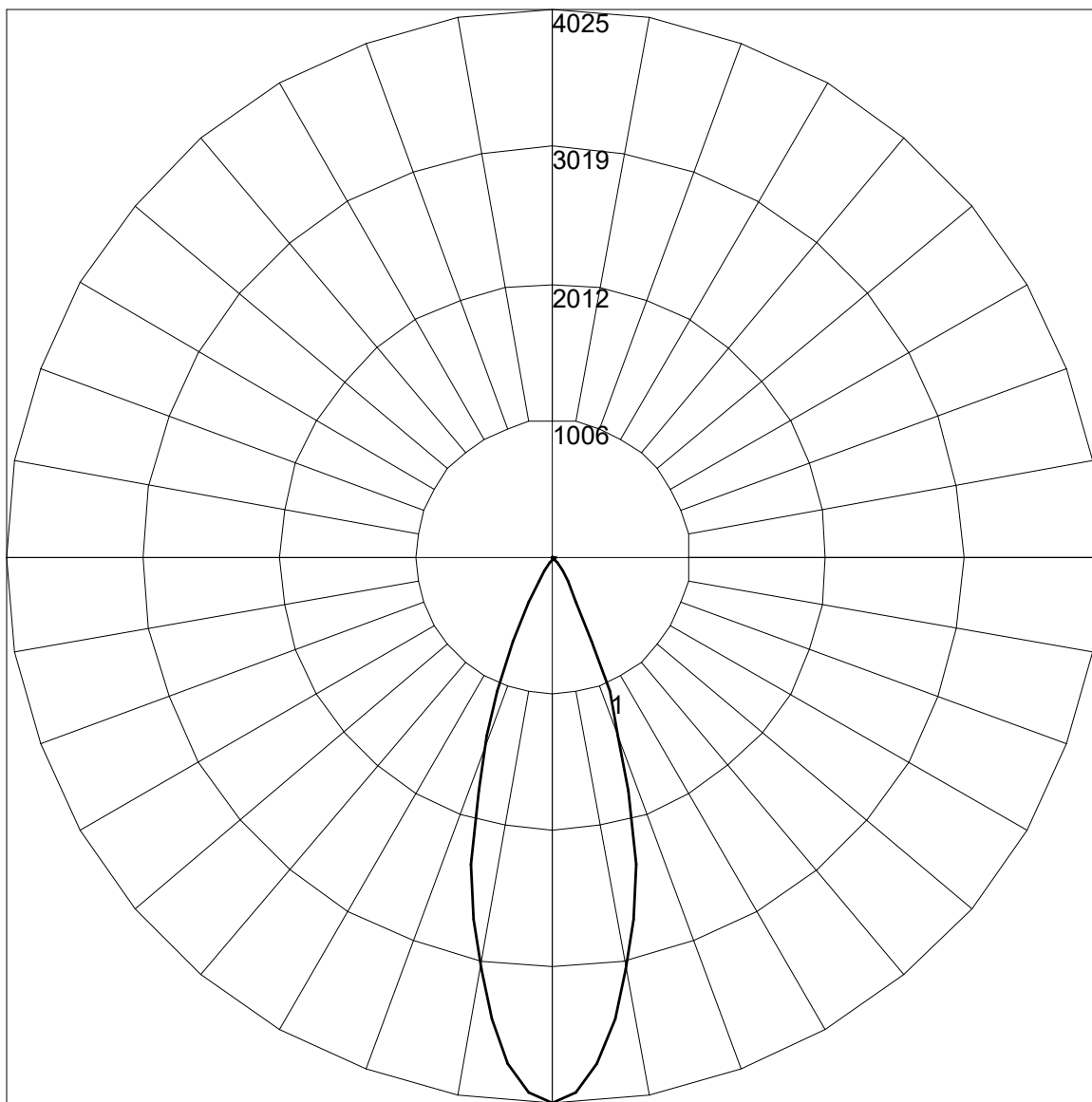
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP2-P-D-4FT-B-835-MLB-KPL2008-6.002.IES

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 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 4 | 103 | 98 | 93 | 90 | 102 | 97 | 93 | 90 | 95 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 87 | 84 | 88 | 86 | 84 | 82 |
| 6 | 97 | 90 | 86 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 82 | 87 | 83 | 81 | 85 | 83 | 81 | 79 |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 79 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 |
| 10 | 85 | 78 | 74 | 71 | 84 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 76 | 73 | 70 | 69 |

POLAR GRAPH



Maximum Candela = 4024.841 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)