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IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA-7545W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI-17288-1
[TESTLAB] LightLab international (www.LightLabInt.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] FSN-7545W-OPAL
[LUMINAIRE] Justice Design Group - Wall mount outdoor decorative luminaire. Product ID: PNA-7545W
[MORE] Steel formed housing with square glass tube lens.
[MORE] 24 LES mounted in circular array with white plastic dome lens.
[MORE] No driver.
[MORE] Operating at 120 VAC and 60 Hz.
[OTHER] Absolute test - lamp lumens value set to -1
[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
[MORE] The sample was tested at a distance of 8m.
[MORE] This IES file created by LightLab/LSA Report program version 3.808a.
[DATE] This file created: Tuesday, October 17, 2017 2:57:58 PM
[ISSUEDATE] Tuesday, October 17, 2017 2:57:58 PM

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 329 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 28 |
| Total Luminaire Watts | 11.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.18 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.10 m |
| Luminous Width (90-270) | 0.10 m |
| Luminous Height | 0.45 m |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3026 | 2057 | 2742 |
| 55 | 1887 | 1349 | 1610 |
| 65 | 956 | 663 | 716 |
| 75 | 383 | 235 | 280 |
| 85 | 142 | 98 | 93 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|-------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0.0 | 167.649 | 167.649 | 167.649 | 167.649 | 167.649 | 167.649 | 167.649 | 167.649 | 167.649 |
| 0.5 | 168.399 | 168.243 | 168.235 | 167.985 | 167.735 | 167.407 | 167.259 | 167.157 | 167.251 |
| 1.0 | 169.735 | 169.532 | 169.243 | 168.665 | 168.173 | 167.634 | 167.282 | 167.134 | 167.236 |
| 1.5 | 171.258 | 171.187 | 170.734 | 169.664 | 168.782 | 168.071 | 167.806 | 167.275 | 167.009 |
| 2.0 | 172.211 | 172.609 | 172.624 | 170.805 | 169.430 | 168.571 | 168.391 | 166.783 | 165.892 |
| 2.5 | 171.047 | 172.703 | 174.796 | 170.992 | 168.423 | 168.227 | 168.798 | 165.431 | 163.018 |
| 3.0 | 167.548 | 170.922 | 176.014 | 170.180 | 165.517 | 166.642 | 168.634 | 162.081 | 157.387 |
| 3.5 | 162.714 | 167.103 | 175.155 | 167.728 | 160.699 | 163.370 | 167.259 | 156.700 | 150.054 |
| 4.0 | 156.950 | 162.167 | 171.711 | 163.588 | 155.427 | 159.012 | 163.549 | 149.530 | 142.025 |
| 4.5 | 151.537 | 156.583 | 165.970 | 159.246 | 150.467 | 154.669 | 157.809 | 142.306 | 136.613 |
| 5.0 | 146.406 | 150.897 | 158.434 | 155.130 | 145.985 | 150.413 | 149.429 | 137.222 | 133.777 |
| 5.5 | 141.962 | 145.196 | 151.038 | 150.811 | 141.634 | 145.961 | 140.150 | 134.106 | 132.208 |
| 6.0 | 137.753 | 139.994 | 144.368 | 146.125 | 137.073 | 141.338 | 131.403 | 131.786 | 130.474 |
| 6.5 | 133.418 | 135.269 | 137.870 | 140.674 | 131.864 | 136.527 | 124.913 | 128.951 | 126.983 |
| 7.0 | 128.162 | 130.708 | 131.356 | 134.223 | 125.639 | 130.896 | 120.001 | 124.734 | 122.312 |
| 7.5 | 121.000 | 125.850 | 125.085 | 127.100 | 118.806 | 124.749 | 116.002 | 119.727 | 115.760 |
| 8.0 | 111.589 | 119.516 | 118.782 | 119.813 | 111.777 | 118.025 | 112.706 | 113.878 | 108.114 |
| 8.5 | 104.154 | 111.183 | 112.753 | 112.269 | 105.490 | 110.371 | 109.254 | 107.622 | 100.273 |
| 9.0 | 101.171 | 103.334 | 107.145 | 105.045 | 102.264 | 102.569 | 105.333 | 101.022 | 94.392 |
| 9.5 | 101.343 | 98.828 | 101.507 | 98.968 | 102.217 | 95.766 | 100.577 | 94.103 | 93.033 |
| 10.0 | 103.061 | 97.328 | 95.985 | 95.641 | 103.662 | 91.721 | 94.931 | 88.870 | 95.337 |
| 10.5 | 104.139 | 97.633 | 90.440 | 94.587 | 105.357 | 90.088 | 88.261 | 86.886 | 98.984 |
| 11.0 | 105.279 | 98.554 | 85.371 | 95.360 | 106.638 | 90.401 | 81.404 | 87.089 | 101.835 |
| 11.5 | 106.614 | 99.367 | 81.154 | 96.547 | 108.169 | 91.151 | 75.109 | 88.612 | 103.967 |
| 12.0 | 107.786 | 100.319 | 78.537 | 97.781 | 110.230 | 91.783 | 70.423 | 89.885 | 105.482 |
| 12.5 | 108.848 | 101.397 | 77.694 | 98.820 | 112.378 | 92.728 | 67.455 | 90.799 | 107.442 |
| 13.0 | 109.980 | 102.147 | 78.131 | 99.968 | 114.260 | 94.001 | 65.940 | 91.892 | 109.707 |
| 13.5 | 110.519 | 102.733 | 79.662 | 101.015 | 115.830 | 95.173 | 65.651 | 93.306 | 111.769 |
| 14.0 | 110.652 | 103.592 | 81.732 | 101.881 | 116.822 | 95.993 | 66.471 | 94.876 | 114.307 |
| 14.5 | 110.215 | 104.388 | 83.840 | 102.795 | 116.994 | 96.727 | 68.041 | 96.282 | 116.603 |
| 15.0 | 110.308 | 104.927 | 85.785 | 103.639 | 116.369 | 97.250 | 69.657 | 97.625 | 117.369 |
| 15.5 | 111.308 | 104.990 | 87.667 | 104.084 | 115.783 | 97.274 | 71.149 | 98.828 | 117.095 |
| 16.0 | 112.433 | 104.912 | 89.432 | 104.443 | 115.143 | 96.789 | 72.547 | 99.351 | 116.353 |
| 16.5 | 113.776 | 105.349 | 91.174 | 104.763 | 114.705 | 96.297 | 73.820 | 99.296 | 115.885 |
| 17.0 | 114.987 | 105.990 | 92.752 | 105.029 | 114.456 | 96.016 | 75.218 | 98.921 | 115.643 |
| 17.5 | 115.939 | 106.591 | 94.228 | 105.115 | 114.463 | 96.102 | 76.546 | 98.359 | 115.549 |
| 18.0 | 116.884 | 107.059 | 95.602 | 105.310 | 114.448 | 96.500 | 77.756 | 97.891 | 115.377 |
| 18.5 | 117.783 | 107.434 | 96.867 | 105.630 | 114.776 | 97.024 | 78.920 | 97.492 | 114.940 |
| 19.0 | 118.892 | 107.864 | 98.047 | 106.083 | 115.315 | 97.445 | 79.928 | 97.250 | 114.167 |
| 19.5 | 120.391 | 108.434 | 99.054 | 106.692 | 115.971 | 97.867 | 80.826 | 97.211 | 113.307 |
| 20.0 | 121.891 | 109.278 | 99.968 | 107.442 | 116.994 | 98.289 | 81.536 | 97.313 | 112.183 |
| 20.5 | 123.679 | 110.418 | 100.905 | 108.395 | 118.540 | 98.687 | 82.083 | 97.641 | 111.472 |
| 21.0 | 125.436 | 111.886 | 101.881 | 109.496 | 120.376 | 99.195 | 82.505 | 98.133 | 112.042 |
| 21.5 | 126.998 | 113.511 | 102.850 | 110.777 | 122.234 | 100.054 | 82.848 | 98.531 | 113.604 |
| 22.0 | 128.498 | 115.112 | 103.834 | 112.128 | 124.015 | 101.100 | 83.169 | 99.039 | 115.557 |
| 22.5 | 129.716 | 116.603 | 104.826 | 113.425 | 125.507 | 102.280 | 83.528 | 99.749 | 117.166 |
| 23.0 | 130.825 | 118.033 | 105.747 | 114.784 | 126.819 | 103.412 | 83.856 | 100.593 | 118.673 |
| 23.5 | 131.684 | 119.391 | 106.646 | 116.049 | 127.889 | 104.576 | 84.168 | 101.749 | 120.001 |
| 24.0 | 132.426 | 120.649 | 107.505 | 117.142 | 128.654 | 105.537 | 84.465 | 102.772 | 121.180 |
| 24.5 | 133.161 | 121.797 | 108.325 | 118.204 | 129.295 | 106.396 | 84.801 | 103.701 | 122.055 |
| 25.0 | 133.762 | 122.875 | 109.184 | 119.126 | 129.779 | 107.177 | 85.098 | 104.584 | 122.625 |
| 25.5 | 134.340 | 123.859 | 110.012 | 119.954 | 130.177 | 107.716 | 85.363 | 105.201 | 122.687 |
| 26.0 | 134.926 | 124.843 | 110.754 | 120.672 | 130.474 | 108.192 | 85.605 | 105.685 | 122.484 |
| 26.5 | 135.449 | 125.803 | 111.496 | 121.297 | 130.763 | 108.559 | 85.863 | 106.021 | 121.977 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 27.0 | 135.832 | 126.788 | 112.206 | 121.883 | 131.028 | 108.887 | 86.090 | 106.091 | 121.367 |
| 27.5 | 136.214 | 127.678 | 112.847 | 122.367 | 131.224 | 109.129 | 86.285 | 105.943 | 120.594 |
| 28.0 | 136.402 | 128.537 | 113.487 | 122.750 | 131.356 | 109.293 | 86.402 | 105.607 | 119.485 |
| 28.5 | 136.550 | 129.287 | 114.065 | 123.125 | 131.403 | 109.465 | 86.496 | 105.076 | 118.142 |
| 29.0 | 136.636 | 129.919 | 114.573 | 123.468 | 131.474 | 109.621 | 86.597 | 104.232 | 116.455 |
| 29.5 | 136.761 | 130.404 | 115.018 | 123.765 | 131.442 | 109.754 | 86.605 | 103.225 | 114.487 |
| 30.0 | 137.011 | 130.778 | 115.479 | 124.109 | 131.450 | 109.910 | 86.605 | 101.975 | 112.323 |
| 30.5 | 137.292 | 131.075 | 115.846 | 124.320 | 131.450 | 110.004 | 86.496 | 100.413 | 109.980 |
| 31.0 | 137.558 | 131.255 | 116.150 | 124.562 | 131.427 | 110.082 | 86.293 | 98.711 | 107.512 |
| 31.5 | 137.862 | 131.263 | 116.392 | 124.718 | 131.427 | 110.098 | 85.988 | 96.852 | 104.849 |
| 32.0 | 138.120 | 131.294 | 116.533 | 124.780 | 131.364 | 110.074 | 85.566 | 94.852 | 102.131 |
| 32.5 | 138.307 | 131.231 | 116.642 | 124.812 | 131.310 | 110.004 | 85.067 | 92.744 | 99.351 |
| 33.0 | 138.393 | 131.146 | 116.681 | 124.765 | 131.177 | 109.824 | 84.481 | 90.565 | 96.633 |
| 33.5 | 138.284 | 130.958 | 116.681 | 124.601 | 131.028 | 109.645 | 83.723 | 88.300 | 93.970 |
| 34.0 | 138.167 | 130.786 | 116.619 | 124.374 | 130.849 | 109.332 | 82.825 | 86.019 | 91.299 |
| 34.5 | 137.776 | 130.513 | 116.517 | 124.117 | 130.560 | 108.957 | 81.872 | 83.700 | 88.808 |
| 35.0 | 137.245 | 130.240 | 116.377 | 123.742 | 130.177 | 108.543 | 80.841 | 81.396 | 86.340 |
| 35.5 | 136.488 | 129.865 | 116.244 | 123.312 | 129.701 | 108.051 | 79.631 | 79.045 | 83.887 |
| 36.0 | 135.707 | 129.552 | 116.033 | 122.812 | 129.099 | 107.583 | 78.420 | 76.819 | 81.544 |
| 36.5 | 134.801 | 129.154 | 115.846 | 122.203 | 128.420 | 107.059 | 77.085 | 74.648 | 79.186 |
| 37.0 | 133.793 | 128.685 | 115.650 | 121.594 | 127.654 | 106.505 | 75.640 | 72.610 | 76.788 |
| 37.5 | 132.832 | 128.193 | 115.455 | 120.899 | 126.819 | 105.958 | 74.164 | 70.595 | 74.367 |
| 38.0 | 131.817 | 127.725 | 115.190 | 120.133 | 125.913 | 105.380 | 72.625 | 68.666 | 72.008 |
| 38.5 | 130.849 | 127.170 | 114.971 | 119.282 | 124.983 | 104.763 | 71.087 | 66.760 | 69.540 |
| 39.0 | 129.935 | 126.647 | 114.643 | 118.400 | 123.898 | 104.154 | 69.548 | 64.870 | 67.033 |
| 39.5 | 129.068 | 126.061 | 114.338 | 117.392 | 122.820 | 103.475 | 68.009 | 62.933 | 64.557 |
| 40.0 | 128.240 | 125.436 | 113.987 | 116.392 | 121.625 | 102.811 | 66.432 | 60.957 | 62.004 |
| 40.5 | 127.373 | 124.819 | 113.565 | 115.346 | 120.352 | 102.069 | 64.901 | 58.950 | 59.458 |
| 41.0 | 126.538 | 124.179 | 113.050 | 114.190 | 119.017 | 101.241 | 63.370 | 56.849 | 56.943 |
| 41.5 | 125.600 | 123.445 | 112.487 | 113.034 | 117.548 | 100.359 | 61.879 | 54.647 | 54.381 |
| 42.0 | 124.694 | 122.679 | 111.870 | 111.870 | 116.041 | 99.413 | 60.348 | 52.452 | 51.772 |
| 42.5 | 123.687 | 121.828 | 111.175 | 110.668 | 114.456 | 98.414 | 58.926 | 50.171 | 49.008 |
| 43.0 | 122.500 | 120.938 | 110.355 | 109.473 | 112.808 | 97.359 | 57.443 | 47.758 | 46.220 |
| 43.5 | 121.297 | 120.040 | 109.496 | 108.247 | 111.113 | 96.250 | 56.060 | 45.493 | 43.291 |
| 44.0 | 119.969 | 119.032 | 108.582 | 107.075 | 109.442 | 95.024 | 54.686 | 43.166 | 40.440 |
| 44.5 | 118.517 | 117.931 | 107.552 | 105.810 | 107.716 | 93.782 | 53.311 | 40.760 | 37.480 |
| 45.0 | 116.978 | 116.767 | 106.528 | 104.599 | 106.005 | 92.431 | 51.991 | 38.410 | 34.731 |
| 45.5 | 115.393 | 115.479 | 105.435 | 103.358 | 104.303 | 91.041 | 50.687 | 36.082 | 31.982 |
| 46.0 | 113.612 | 114.112 | 104.271 | 102.053 | 102.498 | 89.573 | 49.461 | 33.716 | 29.514 |
| 46.5 | 111.839 | 112.722 | 103.139 | 100.726 | 100.741 | 88.089 | 48.164 | 31.498 | 27.194 |
| 47.0 | 109.996 | 111.175 | 101.913 | 99.351 | 98.984 | 86.589 | 46.915 | 29.264 | 25.234 |
| 47.5 | 108.004 | 109.566 | 100.632 | 97.891 | 97.141 | 85.067 | 45.649 | 27.038 | 23.578 |
| 48.0 | 106.099 | 107.911 | 99.374 | 96.461 | 95.282 | 83.505 | 44.431 | 25.031 | 22.079 |
| 48.5 | 104.139 | 106.200 | 98.055 | 94.892 | 93.439 | 82.013 | 43.127 | 23.172 | 20.892 |
| 49.0 | 102.124 | 104.428 | 96.766 | 93.345 | 91.557 | 80.466 | 41.846 | 21.478 | 19.955 |
| 49.5 | 100.241 | 102.639 | 95.368 | 91.721 | 89.643 | 78.904 | 40.581 | 20.033 | 19.213 |
| 50.0 | 98.359 | 100.851 | 93.962 | 90.081 | 87.777 | 77.280 | 39.323 | 18.806 | 18.564 |
| 50.5 | 96.493 | 99.015 | 92.556 | 88.323 | 85.816 | 75.624 | 38.003 | 17.760 | 18.049 |
| 51.0 | 94.696 | 97.156 | 91.088 | 86.644 | 83.879 | 73.953 | 36.769 | 16.948 | 17.573 |
| 51.5 | 93.017 | 95.321 | 89.589 | 84.895 | 81.927 | 72.266 | 35.512 | 16.276 | 17.252 |
| 52.0 | 91.197 | 93.431 | 88.011 | 83.114 | 79.912 | 70.493 | 34.348 | 15.737 | 16.854 |
| 52.5 | 89.448 | 91.533 | 86.449 | 81.302 | 77.920 | 68.837 | 33.247 | 15.261 | 16.518 |
| 53.0 | 87.683 | 89.628 | 84.793 | 79.545 | 75.960 | 67.135 | 32.208 | 14.886 | 16.214 |
| 53.5 | 85.691 | 87.761 | 83.059 | 77.663 | 74.008 | 65.409 | 31.178 | 14.519 | 15.893 |
| 54.0 | 83.879 | 85.894 | 81.310 | 75.851 | 72.078 | 63.659 | 30.240 | 14.175 | 15.558 |
| 54.5 | 81.950 | 84.012 | 79.537 | 74.023 | 70.149 | 61.957 | 29.334 | 13.832 | 15.292 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 55.0 | 79.982 | 82.099 | 77.694 | 72.110 | 68.236 | 60.153 | 28.436 | 13.488 | 14.995 |
| 55.5 | 77.959 | 80.209 | 75.890 | 70.321 | 66.346 | 58.442 | 27.561 | 13.152 | 14.620 |
| 56.0 | 75.921 | 78.264 | 74.031 | 68.470 | 64.550 | 56.662 | 26.671 | 12.816 | 14.238 |
| 56.5 | 73.867 | 76.374 | 72.141 | 66.627 | 62.753 | 54.920 | 25.828 | 12.512 | 13.839 |
| 57.0 | 71.829 | 74.437 | 70.298 | 64.846 | 60.957 | 53.217 | 24.984 | 12.207 | 13.355 |
| 57.5 | 69.814 | 72.531 | 68.408 | 63.074 | 59.161 | 51.476 | 24.125 | 11.918 | 12.871 |
| 58.0 | 67.900 | 70.595 | 66.502 | 61.293 | 57.357 | 49.765 | 23.344 | 11.512 | 12.285 |
| 58.5 | 65.893 | 68.611 | 64.597 | 59.559 | 55.545 | 48.117 | 22.540 | 11.192 | 11.723 |
| 59.0 | 63.901 | 66.690 | 62.675 | 57.794 | 53.717 | 46.485 | 21.782 | 10.801 | 11.239 |
| 59.5 | 61.972 | 64.651 | 60.762 | 56.006 | 51.812 | 44.829 | 21.009 | 10.497 | 10.786 |
| 60.0 | 60.012 | 62.675 | 58.872 | 54.217 | 49.984 | 43.291 | 20.251 | 10.091 | 10.301 |
| 60.5 | 58.153 | 60.684 | 57.044 | 52.444 | 48.117 | 41.713 | 19.548 | 9.723 | 9.708 |
| 61.0 | 56.287 | 58.716 | 55.178 | 50.609 | 46.259 | 40.097 | 18.822 | 9.349 | 9.122 |
| 61.5 | 54.561 | 56.693 | 53.288 | 48.867 | 44.369 | 38.472 | 18.111 | 8.974 | 8.513 |
| 62.0 | 52.764 | 54.709 | 51.491 | 47.110 | 42.494 | 36.957 | 17.424 | 8.575 | 7.857 |
| 62.5 | 51.077 | 52.819 | 49.664 | 45.314 | 40.620 | 35.356 | 16.752 | 8.208 | 7.185 |
| 63.0 | 49.359 | 50.921 | 47.891 | 43.627 | 38.831 | 33.841 | 16.096 | 7.833 | 6.560 |
| 63.5 | 47.758 | 49.117 | 46.134 | 41.869 | 37.121 | 32.318 | 15.417 | 7.412 | 5.897 |
| 64.0 | 46.165 | 47.305 | 44.337 | 40.128 | 35.387 | 30.795 | 14.792 | 7.029 | 5.241 |
| 64.5 | 44.548 | 45.595 | 42.604 | 38.433 | 33.685 | 29.373 | 14.136 | 6.592 | 4.772 |
| 65.0 | 42.830 | 43.892 | 40.878 | 36.730 | 32.076 | 27.929 | 13.535 | 6.217 | 4.350 |
| 65.5 | 40.987 | 42.197 | 39.128 | 35.028 | 30.506 | 26.484 | 12.957 | 5.811 | 3.991 |
| 66.0 | 39.261 | 40.550 | 37.496 | 33.341 | 28.928 | 25.094 | 12.355 | 5.545 | 3.741 |
| 66.5 | 37.457 | 38.995 | 35.871 | 31.685 | 27.429 | 23.750 | 11.824 | 5.241 | 3.475 |
| 67.0 | 35.653 | 37.332 | 34.309 | 30.069 | 25.906 | 22.376 | 11.309 | 5.045 | 3.280 |
| 67.5 | 33.888 | 35.715 | 32.708 | 28.522 | 24.484 | 21.110 | 10.762 | 4.795 | 3.124 |
| 68.0 | 32.123 | 34.098 | 31.201 | 26.937 | 23.118 | 19.853 | 10.270 | 4.624 | 2.937 |
| 68.5 | 30.279 | 32.427 | 29.725 | 25.445 | 21.782 | 18.611 | 9.786 | 4.420 | 2.827 |
| 69.0 | 28.561 | 30.725 | 28.257 | 24.000 | 20.603 | 17.479 | 9.325 | 4.280 | 2.702 |
| 69.5 | 26.937 | 29.014 | 26.851 | 22.563 | 19.509 | 16.417 | 8.911 | 4.163 | 2.577 |
| 70.0 | 25.312 | 27.265 | 25.422 | 21.259 | 18.533 | 15.323 | 8.435 | 3.967 | 2.413 |
| 70.5 | 24.000 | 25.586 | 24.109 | 20.056 | 17.666 | 14.363 | 8.029 | 3.850 | 2.327 |
| 71.0 | 22.805 | 24.031 | 22.821 | 18.947 | 16.893 | 13.425 | 7.607 | 3.741 | 2.296 |
| 71.5 | 21.884 | 22.532 | 21.563 | 17.979 | 16.214 | 12.590 | 7.248 | 3.585 | 2.140 |
| 72.0 | 21.173 | 21.212 | 20.423 | 17.166 | 15.628 | 11.848 | 6.951 | 3.483 | 2.046 |
| 72.5 | 20.579 | 20.103 | 19.299 | 16.417 | 15.073 | 11.207 | 6.654 | 3.358 | 1.992 |
| 73.0 | 19.916 | 19.205 | 18.260 | 15.659 | 14.581 | 10.606 | 6.420 | 3.280 | 1.874 |
| 73.5 | 19.377 | 18.439 | 17.330 | 15.026 | 14.253 | 10.114 | 6.146 | 3.124 | 1.804 |
| 74.0 | 18.806 | 17.799 | 16.487 | 14.433 | 13.777 | 9.747 | 5.928 | 3.015 | 1.703 |
| 74.5 | 18.158 | 17.182 | 15.690 | 13.878 | 13.332 | 9.388 | 5.709 | 2.913 | 1.593 |
| 75.0 | 17.588 | 16.635 | 14.980 | 13.339 | 12.863 | 9.099 | 5.483 | 2.796 | 1.585 |
| 75.5 | 16.948 | 15.987 | 14.363 | 12.816 | 12.441 | 8.771 | 5.287 | 2.702 | 1.492 |
| 76.0 | 16.253 | 15.417 | 13.753 | 12.332 | 11.965 | 8.450 | 5.077 | 2.593 | 1.437 |
| 76.5 | 15.565 | 14.808 | 13.183 | 11.840 | 11.473 | 8.169 | 4.866 | 2.523 | 1.414 |
| 77.0 | 14.894 | 14.253 | 12.683 | 11.379 | 10.996 | 7.927 | 4.694 | 2.405 | 1.336 |
| 77.5 | 14.277 | 13.699 | 12.223 | 10.895 | 10.473 | 7.599 | 4.514 | 2.335 | 1.289 |
| 78.0 | 13.660 | 13.175 | 11.731 | 10.465 | 9.973 | 7.326 | 4.335 | 2.281 | 1.242 |
| 78.5 | 13.051 | 12.644 | 11.309 | 10.059 | 9.489 | 7.029 | 4.163 | 2.210 | 1.211 |
| 79.0 | 12.418 | 12.106 | 10.840 | 9.622 | 8.927 | 6.756 | 3.991 | 2.117 | 1.187 |
| 79.5 | 11.785 | 11.613 | 10.387 | 9.208 | 8.419 | 6.482 | 3.850 | 2.062 | 1.093 |
| 80.0 | 11.176 | 11.098 | 9.973 | 8.833 | 7.966 | 6.186 | 3.671 | 1.992 | 1.086 |
| 80.5 | 10.528 | 10.622 | 9.559 | 8.427 | 7.505 | 5.920 | 3.507 | 1.921 | 1.023 |
| 81.0 | 9.942 | 10.130 | 9.161 | 8.060 | 7.021 | 5.693 | 3.358 | 1.851 | 1.015 |
| 81.5 | 9.364 | 9.669 | 8.747 | 7.740 | 6.568 | 5.428 | 3.202 | 1.773 | 0.976 |
| 82.0 | 8.817 | 9.185 | 8.380 | 7.365 | 6.123 | 5.155 | 3.062 | 1.718 | 0.945 |
| 82.5 | 8.333 | 8.763 | 8.013 | 7.013 | 5.733 | 4.873 | 2.960 | 1.679 | 0.859 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 83.0 | 7.927 | 8.302 | 7.630 | 6.670 | 5.397 | 4.694 | 2.804 | 1.617 | 0.804 |
| 83.5 | 7.529 | 7.904 | 7.318 | 6.350 | 5.108 | 4.460 | 2.655 | 1.562 | 0.843 |
| 84.0 | 7.146 | 7.568 | 6.943 | 6.076 | 4.866 | 4.249 | 2.546 | 1.515 | 0.773 |
| 84.5 | 6.865 | 7.255 | 6.607 | 5.787 | 4.530 | 4.069 | 2.429 | 1.500 | 0.781 |
| 85.0 | 6.490 | 6.912 | 6.264 | 5.506 | 4.225 | 3.866 | 2.304 | 1.406 | 0.719 |
| 85.5 | 6.100 | 6.592 | 5.928 | 5.217 | 3.960 | 3.679 | 2.210 | 1.406 | 0.719 |
| 86.0 | 5.740 | 6.279 | 5.639 | 4.936 | 3.679 | 3.475 | 2.101 | 1.359 | 0.719 |
| 86.5 | 5.326 | 5.889 | 5.342 | 4.670 | 3.374 | 3.272 | 1.984 | 1.343 | 0.695 |
| 87.0 | 4.998 | 5.600 | 5.045 | 4.389 | 3.077 | 3.101 | 1.874 | 1.296 | 0.640 |
| 87.5 | 4.631 | 5.295 | 4.764 | 4.116 | 2.796 | 2.905 | 1.796 | 1.242 | 0.640 |
| 88.0 | 4.288 | 4.983 | 4.506 | 3.882 | 2.569 | 2.702 | 1.718 | 1.218 | 0.625 |
| 88.5 | 3.999 | 4.709 | 4.256 | 3.671 | 2.320 | 2.562 | 1.632 | 1.172 | 0.601 |
| 89.0 | 3.733 | 4.413 | 4.085 | 3.460 | 2.132 | 2.413 | 1.554 | 1.156 | 0.625 |
| 89.5 | 3.421 | 4.210 | 3.858 | 3.280 | 1.945 | 2.241 | 1.500 | 1.132 | 0.609 |
| 90.0 | 3.194 | 3.991 | 3.702 | 3.116 | 1.773 | 2.124 | 1.421 | 1.117 | 0.601 |
| 90.5 | 3.062 | 3.827 | 3.546 | 2.983 | 1.671 | 2.038 | 1.398 | 1.054 | 0.578 |
| 91.0 | 2.913 | 3.710 | 3.397 | 2.858 | 1.539 | 1.960 | 1.367 | 1.047 | 0.578 |
| 91.5 | 2.796 | 3.561 | 3.311 | 2.796 | 1.476 | 1.882 | 1.336 | 1.039 | 0.586 |
| 92.0 | 2.694 | 3.421 | 3.171 | 2.702 | 1.421 | 1.788 | 1.250 | 0.976 | 0.555 |
| 92.5 | 2.593 | 3.319 | 3.108 | 2.616 | 1.359 | 1.781 | 1.250 | 1.007 | 0.547 |
| 93.0 | 2.476 | 3.210 | 3.022 | 2.554 | 1.296 | 1.726 | 1.187 | 0.984 | 0.547 |
| 93.5 | 2.382 | 3.155 | 2.929 | 2.484 | 1.273 | 1.671 | 1.164 | 0.976 | 0.555 |
| 94.0 | 2.312 | 3.030 | 2.913 | 2.405 | 1.257 | 1.624 | 1.140 | 0.953 | 0.531 |
| 94.5 | 2.249 | 2.944 | 2.773 | 2.374 | 1.211 | 1.562 | 1.140 | 0.914 | 0.547 |
| 95.0 | 2.179 | 2.858 | 2.718 | 2.304 | 1.179 | 1.531 | 1.093 | 0.906 | 0.539 |
| 95.5 | 2.077 | 2.812 | 2.671 | 2.249 | 1.172 | 1.515 | 1.078 | 0.906 | 0.523 |
| 96.0 | 2.046 | 2.718 | 2.569 | 2.202 | 1.156 | 1.468 | 1.093 | 0.883 | 0.515 |
| 96.5 | 1.992 | 2.663 | 2.523 | 2.171 | 1.156 | 1.453 | 1.047 | 0.898 | 0.531 |
| 97.0 | 1.913 | 2.585 | 2.484 | 2.156 | 1.109 | 1.453 | 1.054 | 0.859 | 0.523 |
| 97.5 | 1.867 | 2.523 | 2.437 | 2.085 | 1.101 | 1.414 | 1.015 | 0.875 | 0.555 |
| 98.0 | 1.812 | 2.499 | 2.366 | 2.054 | 1.093 | 1.375 | 1.000 | 0.843 | 0.523 |
| 98.5 | 1.757 | 2.405 | 2.288 | 2.007 | 1.086 | 1.359 | 0.968 | 0.836 | 0.555 |
| 99.0 | 1.710 | 2.335 | 2.265 | 2.023 | 1.086 | 1.351 | 0.984 | 0.843 | 0.523 |
| 99.5 | 1.671 | 2.304 | 2.234 | 1.960 | 1.047 | 1.312 | 0.945 | 0.820 | 0.476 |
| 100.0 | 1.609 | 2.234 | 2.171 | 1.945 | 1.054 | 1.304 | 0.929 | 0.797 | 0.500 |
| 100.5 | 1.570 | 2.195 | 2.109 | 1.867 | 1.031 | 1.281 | 0.937 | 0.789 | 0.500 |
| 101.0 | 1.515 | 2.124 | 2.101 | 1.843 | 1.031 | 1.257 | 0.883 | 0.773 | 0.492 |
| 101.5 | 1.484 | 2.077 | 2.062 | 1.820 | 0.976 | 1.218 | 0.906 | 0.797 | 0.469 |
| 102.0 | 1.460 | 2.031 | 1.999 | 1.773 | 0.984 | 1.211 | 0.875 | 0.781 | 0.492 |
| 102.5 | 1.445 | 1.984 | 1.984 | 1.757 | 0.961 | 1.179 | 0.883 | 0.773 | 0.515 |
| 103.0 | 1.367 | 1.960 | 1.913 | 1.726 | 0.929 | 1.156 | 0.851 | 0.758 | 0.500 |
| 103.5 | 1.343 | 1.913 | 1.890 | 1.695 | 0.953 | 1.125 | 0.875 | 0.773 | 0.531 |
| 104.0 | 1.289 | 1.882 | 1.882 | 1.656 | 0.937 | 1.164 | 0.843 | 0.750 | 0.515 |
| 104.5 | 1.289 | 1.835 | 1.828 | 1.648 | 0.914 | 1.101 | 0.859 | 0.765 | 0.508 |
| 105.0 | 1.250 | 1.835 | 1.804 | 1.593 | 0.867 | 1.078 | 0.812 | 0.734 | 0.508 |
| 105.5 | 1.179 | 1.749 | 1.781 | 1.570 | 0.890 | 1.093 | 0.820 | 0.726 | 0.515 |
| 106.0 | 1.195 | 1.726 | 1.734 | 1.562 | 0.883 | 1.070 | 0.820 | 0.719 | 0.547 |
| 106.5 | 1.156 | 1.710 | 1.718 | 1.546 | 0.875 | 1.070 | 0.812 | 0.734 | 0.484 |
| 107.0 | 1.117 | 1.656 | 1.695 | 1.539 | 0.859 | 1.023 | 0.828 | 0.711 | 0.500 |
| 107.5 | 1.117 | 1.656 | 1.656 | 1.515 | 0.843 | 1.039 | 0.804 | 0.687 | 0.492 |
| 108.0 | 1.070 | 1.609 | 1.609 | 1.460 | 0.828 | 1.000 | 0.789 | 0.703 | 0.508 |
| 108.5 | 1.070 | 1.570 | 1.609 | 1.468 | 0.859 | 0.992 | 0.773 | 0.719 | 0.484 |
| 109.0 | 1.015 | 1.554 | 1.554 | 1.429 | 0.843 | 1.000 | 0.758 | 0.672 | 0.515 |
| 109.5 | 1.023 | 1.515 | 1.570 | 1.414 | 0.804 | 0.976 | 0.773 | 0.679 | 0.500 |
| 110.0 | 1.023 | 1.500 | 1.539 | 1.398 | 0.843 | 0.968 | 0.758 | 0.679 | 0.476 |
| 110.5 | 1.031 | 1.492 | 1.484 | 1.406 | 0.836 | 0.953 | 0.781 | 0.687 | 0.515 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 111.0 | 0.968 | 1.453 | 1.500 | 1.382 | 0.828 | 0.961 | 0.765 | 0.664 | 0.500 |
| 111.5 | 0.945 | 1.429 | 1.476 | 1.359 | 0.804 | 0.953 | 0.765 | 0.679 | 0.484 |
| 112.0 | 0.961 | 1.406 | 1.476 | 1.351 | 0.828 | 0.945 | 0.750 | 0.656 | 0.500 |
| 112.5 | 0.922 | 1.390 | 1.468 | 1.320 | 0.812 | 0.929 | 0.758 | 0.656 | 0.484 |
| 113.0 | 0.898 | 1.375 | 1.437 | 1.304 | 0.804 | 0.929 | 0.750 | 0.672 | 0.523 |
| 113.5 | 0.890 | 1.351 | 1.406 | 1.312 | 0.797 | 0.922 | 0.734 | 0.664 | 0.531 |
| 114.0 | 0.906 | 1.351 | 1.406 | 1.304 | 0.781 | 0.929 | 0.773 | 0.656 | 0.492 |
| 114.5 | 0.859 | 1.328 | 1.414 | 1.304 | 0.765 | 0.890 | 0.750 | 0.687 | 0.539 |
| 115.0 | 0.843 | 1.359 | 1.390 | 1.281 | 0.812 | 0.898 | 0.758 | 0.679 | 0.515 |
| 115.5 | 0.836 | 1.281 | 1.367 | 1.257 | 0.781 | 0.883 | 0.773 | 0.672 | 0.492 |
| 116.0 | 0.867 | 1.265 | 1.351 | 1.265 | 0.781 | 0.922 | 0.734 | 0.687 | 0.508 |
| 116.5 | 0.843 | 1.281 | 1.328 | 1.281 | 0.797 | 0.875 | 0.726 | 0.679 | 0.531 |
| 117.0 | 0.820 | 1.273 | 1.343 | 1.250 | 0.758 | 0.906 | 0.726 | 0.672 | 0.508 |
| 117.5 | 0.812 | 1.242 | 1.289 | 1.242 | 0.804 | 0.898 | 0.742 | 0.672 | 0.601 |
| 118.0 | 0.820 | 1.234 | 1.312 | 1.203 | 0.797 | 0.883 | 0.750 | 0.679 | 0.531 |
| 118.5 | 0.797 | 1.218 | 1.289 | 1.203 | 0.781 | 0.883 | 0.711 | 0.664 | 0.531 |
| 119.0 | 0.812 | 1.203 | 1.265 | 1.203 | 0.797 | 0.875 | 0.742 | 0.656 | 0.523 |
| 119.5 | 0.789 | 1.195 | 1.289 | 1.187 | 0.765 | 0.851 | 0.758 | 0.672 | 0.555 |
| 120.0 | 0.804 | 1.187 | 1.265 | 1.203 | 0.773 | 0.875 | 0.734 | 0.679 | 0.515 |
| 120.5 | 0.820 | 1.187 | 1.250 | 1.148 | 0.789 | 0.843 | 0.734 | 0.672 | 0.515 |
| 121.0 | 0.836 | 1.187 | 1.250 | 1.179 | 0.781 | 0.851 | 0.726 | 0.687 | 0.531 |
| 121.5 | 0.789 | 1.187 | 1.234 | 1.156 | 0.820 | 0.851 | 0.742 | 0.672 | 0.539 |
| 122.0 | 0.773 | 1.156 | 1.234 | 1.164 | 0.789 | 0.851 | 0.742 | 0.679 | 0.539 |
| 122.5 | 0.773 | 1.187 | 1.242 | 1.148 | 0.765 | 0.875 | 0.719 | 0.703 | 0.555 |
| 123.0 | 0.773 | 1.172 | 1.195 | 1.140 | 0.773 | 0.859 | 0.726 | 0.687 | 0.562 |
| 123.5 | 0.797 | 1.164 | 1.218 | 1.117 | 0.804 | 0.859 | 0.765 | 0.687 | 0.601 |
| 124.0 | 0.789 | 1.172 | 1.211 | 1.148 | 0.773 | 0.875 | 0.750 | 0.711 | 0.594 |
| 124.5 | 0.797 | 1.140 | 1.179 | 1.140 | 0.804 | 0.875 | 0.719 | 0.719 | 0.570 |
| 125.0 | 0.781 | 1.117 | 1.203 | 1.140 | 0.781 | 0.843 | 0.734 | 0.726 | 0.562 |
| 125.5 | 0.804 | 1.117 | 1.179 | 1.117 | 0.773 | 0.890 | 0.750 | 0.695 | 0.601 |
| 126.0 | 0.812 | 1.125 | 1.172 | 1.140 | 0.797 | 0.859 | 0.742 | 0.703 | 0.609 |
| 126.5 | 0.836 | 1.140 | 1.187 | 1.132 | 0.781 | 0.867 | 0.773 | 0.711 | 0.633 |
| 127.0 | 0.797 | 1.101 | 1.195 | 1.132 | 0.789 | 0.859 | 0.765 | 0.711 | 0.594 |
| 127.5 | 0.812 | 1.125 | 1.187 | 1.125 | 0.789 | 0.867 | 0.773 | 0.695 | 0.633 |
| 128.0 | 0.781 | 1.086 | 1.172 | 1.117 | 0.804 | 0.843 | 0.773 | 0.726 | 0.617 |
| 128.5 | 0.804 | 1.125 | 1.187 | 1.109 | 0.789 | 0.843 | 0.773 | 0.734 | 0.640 |
| 129.0 | 0.773 | 1.117 | 1.164 | 1.117 | 0.797 | 0.851 | 0.789 | 0.726 | 0.633 |
| 129.5 | 0.812 | 1.078 | 1.164 | 1.132 | 0.797 | 0.867 | 0.773 | 0.734 | 0.703 |
| 130.0 | 0.789 | 1.109 | 1.148 | 1.109 | 0.820 | 0.883 | 0.781 | 0.726 | 0.656 |
| 130.5 | 0.804 | 1.078 | 1.164 | 1.117 | 0.820 | 0.875 | 0.773 | 0.758 | 0.640 |
| 131.0 | 0.789 | 1.062 | 1.172 | 1.117 | 0.804 | 0.843 | 0.765 | 0.719 | 0.664 |
| 131.5 | 0.828 | 1.070 | 1.156 | 1.109 | 0.797 | 0.906 | 0.797 | 0.758 | 0.656 |
| 132.0 | 0.804 | 1.070 | 1.132 | 1.132 | 0.828 | 0.875 | 0.781 | 0.719 | 0.711 |
| 132.5 | 0.797 | 1.062 | 1.164 | 1.093 | 0.820 | 0.875 | 0.789 | 0.758 | 0.695 |
| 133.0 | 0.820 | 1.078 | 1.148 | 1.132 | 0.820 | 0.890 | 0.804 | 0.750 | 0.687 |
| 133.5 | 0.812 | 1.023 | 1.164 | 1.125 | 0.828 | 0.890 | 0.828 | 0.742 | 0.726 |
| 134.0 | 0.804 | 1.047 | 1.156 | 1.117 | 0.851 | 0.875 | 0.820 | 0.765 | 0.695 |
| 134.5 | 0.820 | 1.070 | 1.117 | 1.109 | 0.843 | 0.890 | 0.843 | 0.773 | 0.711 |
| 135.0 | 0.804 | 1.047 | 1.156 | 1.148 | 0.859 | 0.922 | 0.851 | 0.765 | 0.719 |
| 135.5 | 0.797 | 1.047 | 1.148 | 1.093 | 0.836 | 0.898 | 0.812 | 0.797 | 0.742 |
| 136.0 | 0.820 | 1.070 | 1.148 | 1.109 | 0.859 | 0.929 | 0.828 | 0.781 | 0.765 |
| 136.5 | 0.836 | 1.062 | 1.195 | 1.101 | 0.867 | 0.914 | 0.851 | 0.781 | 0.758 |
| 137.0 | 0.820 | 1.054 | 1.164 | 1.101 | 0.851 | 0.922 | 0.828 | 0.804 | 0.765 |
| 137.5 | 0.820 | 1.070 | 1.148 | 1.109 | 0.890 | 0.898 | 0.875 | 0.828 | 0.789 |
| 138.0 | 0.828 | 1.047 | 1.179 | 1.101 | 0.867 | 0.922 | 0.859 | 0.804 | 0.781 |
| 138.5 | 0.828 | 1.031 | 1.164 | 1.117 | 0.883 | 0.922 | 0.898 | 0.797 | 0.804 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 139.0 | 0.836 | 1.023 | 1.156 | 1.093 | 0.906 | 0.929 | 0.875 | 0.820 | 0.758 |
| 139.5 | 0.859 | 1.054 | 1.187 | 1.101 | 0.890 | 0.937 | 0.867 | 0.828 | 0.828 |
| 140.0 | 0.859 | 1.039 | 1.195 | 1.117 | 0.898 | 0.945 | 0.922 | 0.843 | 0.804 |
| 140.5 | 0.890 | 1.054 | 1.156 | 1.132 | 0.883 | 0.953 | 0.890 | 0.836 | 0.851 |
| 141.0 | 0.836 | 1.054 | 1.179 | 1.125 | 0.906 | 0.961 | 0.937 | 0.843 | 0.836 |
| 141.5 | 0.859 | 1.070 | 1.179 | 1.117 | 0.922 | 0.961 | 0.929 | 0.867 | 0.859 |
| 142.0 | 0.859 | 1.054 | 1.179 | 1.117 | 0.968 | 0.953 | 0.929 | 0.883 | 0.851 |
| 142.5 | 0.851 | 1.054 | 1.187 | 1.148 | 0.922 | 0.984 | 0.906 | 0.875 | 0.851 |
| 143.0 | 0.883 | 1.047 | 1.203 | 1.125 | 0.937 | 1.000 | 0.945 | 0.875 | 0.843 |
| 143.5 | 0.875 | 1.070 | 1.172 | 1.125 | 0.929 | 0.992 | 0.976 | 0.914 | 0.828 |
| 144.0 | 0.922 | 1.047 | 1.172 | 1.187 | 0.945 | 1.007 | 0.976 | 0.929 | 0.765 |
| 144.5 | 0.883 | 1.078 | 1.195 | 1.172 | 0.953 | 1.007 | 0.945 | 0.961 | 0.804 |
| 145.0 | 0.898 | 1.062 | 1.179 | 1.164 | 0.968 | 1.015 | 0.961 | 0.945 | 0.804 |
| 145.5 | 0.929 | 1.093 | 1.172 | 1.164 | 0.976 | 1.000 | 0.976 | 0.945 | 0.820 |
| 146.0 | 0.890 | 1.062 | 1.211 | 1.164 | 0.945 | 0.992 | 0.992 | 0.953 | 0.836 |
| 146.5 | 0.929 | 1.062 | 1.156 | 1.148 | 0.968 | 1.023 | 0.976 | 0.945 | 0.883 |
| 147.0 | 0.929 | 1.093 | 1.203 | 1.164 | 0.976 | 1.031 | 1.031 | 1.007 | 0.890 |
| 147.5 | 0.945 | 1.070 | 1.187 | 1.203 | 0.984 | 1.031 | 1.000 | 0.984 | 0.875 |
| 148.0 | 0.953 | 1.078 | 1.211 | 1.164 | 0.976 | 1.078 | 1.047 | 0.976 | 0.906 |
| 148.5 | 0.945 | 1.086 | 1.211 | 1.195 | 1.015 | 1.070 | 1.039 | 0.992 | 0.906 |
| 149.0 | 0.937 | 1.086 | 1.187 | 1.195 | 1.023 | 1.062 | 1.031 | 1.039 | 0.929 |
| 149.5 | 0.976 | 1.101 | 1.195 | 1.179 | 1.007 | 1.101 | 1.054 | 1.015 | 0.945 |
| 150.0 | 0.953 | 1.101 | 1.187 | 1.211 | 1.015 | 1.070 | 1.086 | 1.015 | 0.976 |
| 150.5 | 0.953 | 1.093 | 1.195 | 1.226 | 1.031 | 1.086 | 1.070 | 1.023 | 0.953 |
| 151.0 | 0.968 | 1.109 | 1.164 | 1.203 | 1.015 | 1.093 | 1.109 | 1.054 | 0.976 |
| 151.5 | 0.984 | 1.086 | 1.179 | 1.218 | 1.039 | 1.101 | 1.078 | 1.062 | 0.929 |
| 152.0 | 0.976 | 1.086 | 1.187 | 1.211 | 1.039 | 1.093 | 1.070 | 1.086 | 0.984 |
| 152.5 | 1.039 | 1.101 | 1.195 | 1.195 | 1.047 | 1.078 | 1.109 | 1.078 | 1.007 |
| 153.0 | 1.007 | 1.117 | 1.172 | 1.211 | 1.023 | 1.093 | 1.117 | 1.117 | 1.007 |
| 153.5 | 0.992 | 1.109 | 1.195 | 1.211 | 1.023 | 1.078 | 1.093 | 1.078 | 0.992 |
| 154.0 | 1.007 | 1.132 | 1.172 | 1.234 | 1.039 | 1.125 | 1.101 | 1.117 | 0.953 |
| 154.5 | 1.023 | 1.109 | 1.172 | 1.226 | 1.039 | 1.101 | 1.117 | 1.117 | 0.929 |
| 155.0 | 1.000 | 1.109 | 1.203 | 1.211 | 1.047 | 1.101 | 1.148 | 1.117 | 0.828 |
| 155.5 | 1.039 | 1.125 | 1.172 | 1.187 | 1.031 | 1.148 | 1.140 | 1.125 | 0.789 |
| 156.0 | 1.031 | 1.093 | 1.172 | 1.203 | 1.047 | 1.132 | 1.164 | 1.093 | 0.820 |
| 156.5 | 1.062 | 1.101 | 1.187 | 1.203 | 1.039 | 1.125 | 1.148 | 1.101 | 0.812 |
| 157.0 | 1.039 | 1.117 | 1.172 | 1.226 | 1.031 | 1.132 | 1.148 | 1.078 | 0.812 |
| 157.5 | 1.039 | 1.078 | 1.179 | 1.218 | 1.047 | 1.125 | 1.172 | 1.078 | 0.851 |
| 158.0 | 1.070 | 1.093 | 1.172 | 1.218 | 1.039 | 1.117 | 1.226 | 1.101 | 0.859 |
| 158.5 | 1.062 | 1.101 | 1.156 | 1.172 | 1.023 | 1.109 | 1.234 | 1.086 | 0.859 |
| 159.0 | 1.047 | 1.062 | 1.140 | 1.211 | 1.023 | 1.117 | 1.234 | 1.101 | 0.890 |
| 159.5 | 1.000 | 1.070 | 1.132 | 1.203 | 1.031 | 1.132 | 1.234 | 1.086 | 0.851 |
| 160.0 | 1.047 | 1.086 | 1.148 | 1.179 | 1.047 | 1.117 | 1.250 | 1.086 | 0.906 |
| 160.5 | 1.007 | 1.047 | 1.117 | 1.218 | 1.054 | 1.148 | 1.265 | 1.078 | 0.875 |
| 161.0 | 1.023 | 1.039 | 1.109 | 1.195 | 1.039 | 1.140 | 1.265 | 1.101 | 0.820 |
| 161.5 | 0.961 | 1.039 | 1.086 | 1.179 | 1.070 | 1.101 | 1.265 | 1.070 | 0.859 |
| 162.0 | 0.992 | 1.031 | 1.093 | 1.187 | 0.984 | 1.132 | 1.226 | 1.086 | 0.843 |
| 162.5 | 0.968 | 1.023 | 1.070 | 1.172 | 1.000 | 1.093 | 1.304 | 1.132 | 0.843 |
| 163.0 | 0.953 | 0.992 | 1.039 | 1.187 | 1.007 | 1.086 | 1.257 | 1.125 | 0.851 |
| 163.5 | 0.953 | 0.945 | 1.054 | 1.164 | 0.984 | 1.093 | 1.265 | 1.109 | 0.851 |
| 164.0 | 0.953 | 0.929 | 1.007 | 1.125 | 0.976 | 1.070 | 1.273 | 1.117 | 0.843 |
| 164.5 | 0.906 | 0.929 | 0.992 | 1.093 | 0.961 | 1.070 | 1.250 | 1.148 | 0.828 |
| 165.0 | 0.859 | 0.922 | 1.000 | 1.109 | 0.929 | 1.007 | 1.257 | 1.140 | 0.804 |
| 165.5 | 0.890 | 0.875 | 0.953 | 1.086 | 0.922 | 1.031 | 1.242 | 1.156 | 0.742 |
| 166.0 | 0.851 | 0.906 | 0.937 | 1.062 | 0.875 | 1.000 | 1.172 | 1.148 | 0.734 |
| 166.5 | 0.836 | 0.812 | 0.898 | 1.031 | 0.867 | 0.961 | 1.164 | 1.093 | 0.726 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.820 | 0.843 | 0.898 | 0.992 | 0.859 | 0.937 | 1.148 | 1.101 | 0.672 |
| 167.5 | 0.765 | 0.789 | 0.890 | 0.992 | 0.828 | 0.867 | 1.125 | 1.117 | 0.679 |
| 168.0 | 0.750 | 0.758 | 0.836 | 0.984 | 0.820 | 0.812 | 1.101 | 1.039 | 0.640 |
| 168.5 | 0.711 | 0.773 | 0.843 | 0.953 | 0.797 | 0.789 | 1.078 | 1.023 | 0.625 |
| 169.0 | 0.687 | 0.719 | 0.789 | 0.914 | 0.804 | 0.758 | 0.992 | 0.992 | 0.609 |
| 169.5 | 0.648 | 0.695 | 0.789 | 0.851 | 0.742 | 0.734 | 0.922 | 0.906 | 0.586 |
| 170.0 | 0.687 | 0.640 | 0.797 | 0.804 | 0.742 | 0.703 | 0.883 | 0.843 | 0.570 |
| 170.5 | 0.617 | 0.625 | 0.765 | 0.726 | 0.742 | 0.679 | 0.867 | 0.789 | 0.547 |
| 171.0 | 0.594 | 0.594 | 0.742 | 0.734 | 0.726 | 0.617 | 0.789 | 0.742 | 0.492 |
| 171.5 | 0.578 | 0.586 | 0.703 | 0.679 | 0.695 | 0.609 | 0.742 | 0.672 | 0.492 |
| 172.0 | 0.578 | 0.562 | 0.703 | 0.672 | 0.703 | 0.617 | 0.726 | 0.609 | 0.500 |
| 172.5 | 0.555 | 0.539 | 0.656 | 0.617 | 0.679 | 0.586 | 0.625 | 0.594 | 0.461 |
| 173.0 | 0.555 | 0.539 | 0.648 | 0.570 | 0.640 | 0.539 | 0.508 | 0.578 | 0.406 |
| 173.5 | 0.539 | 0.492 | 0.609 | 0.555 | 0.625 | 0.547 | 0.398 | 0.523 | 0.453 |
| 174.0 | 0.531 | 0.515 | 0.515 | 0.523 | 0.648 | 0.500 | 0.351 | 0.508 | 0.430 |
| 174.5 | 0.508 | 0.492 | 0.359 | 0.484 | 0.617 | 0.500 | 0.320 | 0.398 | 0.414 |
| 175.0 | 0.492 | 0.476 | 0.289 | 0.445 | 0.594 | 0.500 | 0.305 | 0.328 | 0.351 |
| 175.5 | 0.469 | 0.414 | 0.281 | 0.383 | 0.562 | 0.445 | 0.336 | 0.305 | 0.289 |
| 176.0 | 0.375 | 0.289 | 0.258 | 0.328 | 0.398 | 0.359 | 0.320 | 0.305 | 0.359 |
| 176.5 | 0.242 | 0.258 | 0.242 | 0.297 | 0.328 | 0.336 | 0.312 | 0.328 | 0.336 |
| 177.0 | 0.273 | 0.273 | 0.258 | 0.273 | 0.297 | 0.281 | 0.297 | 0.281 | 0.305 |
| 177.5 | 0.266 | 0.258 | 0.234 | 0.258 | 0.289 | 0.289 | 0.226 | 0.273 | 0.266 |
| 178.0 | 0.258 | 0.250 | 0.242 | 0.250 | 0.289 | 0.266 | 0.242 | 0.266 | 0.328 |
| 178.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.5 | 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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA-7545W.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 40.28 | N.A. | 12.20 |
| 0-30 | 92.22 | N.A. | 28.00 |
| 0-40 | 160.85 | N.A. | 48.90 |
| 0-60 | 277.48 | N.A. | 84.30 |
| 0-80 | 317.16 | N.A. | 96.30 |
| 0-90 | 321.93 | N.A. | 97.80 |
| 10-90 | 309.60 | N.A. | 94.00 |
| 20-40 | 120.58 | N.A. | 36.60 |
| 20-50 | 187.01 | N.A. | 56.80 |
| 40-70 | 144.75 | N.A. | 44.00 |
| 60-80 | 39.68 | N.A. | 12.10 |
| 70-80 | 11.55 | N.A. | 3.50 |
| 80-90 | 4.77 | N.A. | 1.40 |
| 90-110 | 3.26 | N.A. | 1.00 |
| 90-120 | 4.23 | N.A. | 1.30 |
| 90-130 | 5.05 | N.A. | 1.50 |
| 90-150 | 6.41 | N.A. | 1.90 |
| 90-180 | 7.25 | N.A. | 2.20 |
| 110-180 | 4.00 | N.A. | 1.20 |
| 0-180 | 329.19 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 12.33 |
| 10-20 | 27.94 |
| 20-30 | 51.95 |
| 30-40 | 68.63 |
| 40-50 | 66.44 |
| 50-60 | 50.19 |
| 60-70 | 28.13 |
| 70-80 | 11.55 |
| 80-90 | 4.77 |
| 90-100 | 1.97 |
| 100-110 | 1.29 |
| 110-120 | 0.97 |
| 120-130 | 0.82 |
| 130-140 | 0.72 |
| 140-150 | 0.64 |
| 150-160 | 0.51 |
| 160-170 | 0.29 |
| 170-180 | 0.05 |

IES INDOOR REPORT
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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 | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 109 | 105 | 101 | 98 | 106 | 103 | 99 | 96 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 100 | 93 | 86 | 81 | 97 | 91 | 85 | 80 | 87 | 82 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 71 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 68 | 77 | 71 | 66 | 74 | 69 | 65 | 71 | 67 | 63 | 61 |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 66 | 60 | 56 | 64 | 59 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 53 | 49 | 58 | 52 | 48 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 37 | 32 | 27 | 26 |

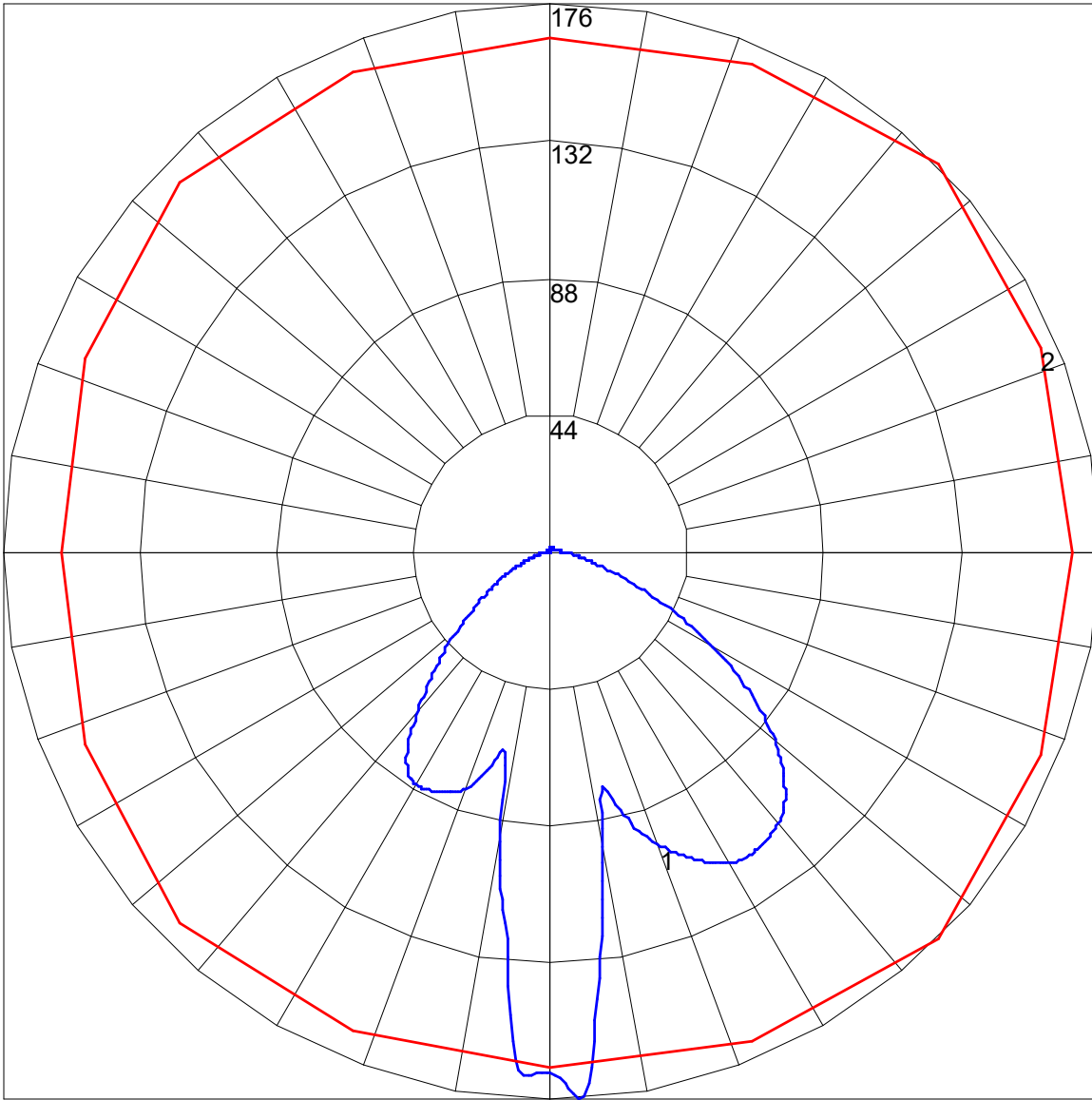
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA-7545W.IES

UGR TABLE - CORRECTED

| Reflectances | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 14.1 | 15.6 | 14.5 | 16.0 | 16.4 | 12.6 | 14.1 | 13.0 | 14.5 | 14.8 |
| | 3H | 14.8 | 16.1 | 15.2 | 16.5 | 16.9 | 13.1 | 14.4 | 13.5 | 14.8 | 15.2 |
| | 4H | 14.9 | 16.2 | 15.4 | 16.6 | 17.0 | 13.2 | 14.5 | 13.6 | 14.9 | 15.3 |
| | 6H | 15.0 | 16.2 | 15.5 | 16.6 | 17.0 | 13.3 | 14.4 | 13.7 | 14.8 | 15.3 |
| | 8H | 15.0 | 16.1 | 15.5 | 16.6 | 17.0 | 13.2 | 14.4 | 13.7 | 14.8 | 15.2 |
| | 12H | 15.0 | 16.1 | 15.5 | 16.5 | 17.0 | 13.2 | 14.3 | 13.7 | 14.7 | 15.2 |
| 4H | 2H | 14.3 | 15.6 | 14.7 | 16.0 | 16.4 | 12.7 | 14.0 | 13.1 | 14.4 | 14.8 |
| | 3H | 15.1 | 16.1 | 15.5 | 16.6 | 17.0 | 13.3 | 14.4 | 13.7 | 14.8 | 15.2 |
| | 4H | 15.2 | 16.2 | 15.7 | 16.7 | 17.1 | 13.4 | 14.4 | 13.9 | 14.8 | 15.3 |
| | 6H | 15.4 | 16.2 | 15.9 | 16.7 | 17.2 | 13.6 | 14.4 | 14.0 | 14.9 | 15.4 |
| | 8H | 15.4 | 16.2 | 15.9 | 16.7 | 17.2 | 13.6 | 14.3 | 14.1 | 14.8 | 15.3 |
| | 12H | 15.4 | 16.1 | 16.0 | 16.7 | 17.2 | 13.6 | 14.3 | 14.1 | 14.8 | 15.3 |
| 8H | 4H | 15.2 | 16.0 | 15.7 | 16.5 | 17.0 | 13.4 | 14.2 | 13.9 | 14.7 | 15.2 |
| | 6H | 15.4 | 16.1 | 15.9 | 16.6 | 17.1 | 13.6 | 14.2 | 14.1 | 14.7 | 15.3 |
| | 8H | 15.5 | 16.0 | 16.0 | 16.6 | 17.1 | 13.6 | 14.2 | 14.1 | 14.7 | 15.3 |
| | 12H | 15.5 | 16.0 | 16.0 | 16.6 | 17.2 | 13.6 | 14.1 | 14.2 | 14.7 | 15.3 |
| 12H | 4H | 15.2 | 15.9 | 15.7 | 16.4 | 16.9 | 13.4 | 14.1 | 13.9 | 14.6 | 15.1 |
| | 6H | 15.4 | 16.0 | 15.9 | 16.5 | 17.1 | 13.5 | 14.1 | 14.1 | 14.6 | 15.2 |
| | 8H | 15.5 | 16.0 | 16.0 | 16.5 | 17.1 | 13.6 | 14.1 | 14.1 | 14.6 | 15.2 |

Maximum UGR = 17.2

POLAR GRAPH



Maximum Candela = 176.014 Located At Horizontal Angle = 45, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)