



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] BEGHELLI

[TESTDATE] 2017/9/29

[ISSUEDATE] 2017/9/29 11:30:05

[NEARFIELD]

[LAMPPOSITION] "0,0"

[OTHER]

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BLS-2A - 5000°K

### CHARACTERISTICS

|                                 |               |
|---------------------------------|---------------|
| Lumens Per Lamp                 | 1427 (1 lamp) |
| Total Lamp Lumens               | 1427          |
| Luminaire Lumens                | 1427          |
| Total Luminaire Efficiency      | 100 %         |
| Luminaire Efficacy Rating (LER) | 79            |
| Total Luminaire Watts           | 18            |
| Ballast Factor                  | 1.00          |
| CIE Type                        | Direct        |
| Spacing Criterion (0-180)       | 1.96          |
| Spacing Criterion (90-270)      | 1.92          |
| Spacing Criterion (Diagonal)    | 1.78          |
| Basic Luminous Shape            | Rectangular   |
| Luminous Length (0-180)         | 0.10 m        |
| Luminous Width (90-270)         | 0.10 m        |
| Luminous Height                 | 0.00 m        |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 58008            | 83138             | 58434             |
| 55                  | 35346            | 97533             | 90551             |
| 65                  | 10577            | 90253             | 188765            |
| 75                  | 6358             | 32004             | 42359             |
| 85                  | 6511             | 10470             | 15867             |

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**CANDELA TABULATION**

|           | <b>0</b> | <b>30</b> | <b>60</b> | <b>90</b> | <b>120</b> | <b>150</b> | <b>180</b> | <b>210</b> | <b>240</b> | <b>270</b> |
|-----------|----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| <b>0</b>  | 308.985  | 308.985   | 308.985   | 308.985   | 308.985    | 308.985    | 308.985    | 308.985    | 308.985    | 308.985    |
| <b>1</b>  | 313.678  | 313.514   | 308.773   | 306.949   | 306.447    | 307.518    | 306.389    | 307.451    | 305.018    | 306.601    |
| <b>2</b>  | 316.961  | 316.826   | 310.801   | 307.113   | 304.699    | 303.917    | 302.189    | 303.994    | 302.932    | 306.466    |
| <b>3</b>  | 320.205  | 319.635   | 313.186   | 307.528   | 302.614    | 300.055    | 297.023    | 299.949    | 300.460    | 306.572    |
| <b>4</b>  | 323.188  | 322.947   | 315.551   | 308.155   | 300.528    | 295.643    | 291.559    | 295.450    | 298.163    | 306.929    |
| <b>5</b>  | 326.461  | 325.611   | 318.283   | 308.947   | 298.462    | 290.912    | 285.698    | 290.651    | 296.096    | 307.344    |
| <b>6</b>  | 329.831  | 328.856   | 320.890   | 309.681   | 296.270    | 285.640    | 279.200    | 285.968    | 294.098    | 307.972    |
| <b>7</b>  | 333.277  | 332.167   | 323.613   | 310.617   | 294.407    | 280.156    | 272.606    | 280.398    | 292.090    | 308.851    |
| <b>8</b>  | 336.937  | 335.488   | 326.249   | 311.641   | 292.360    | 274.054    | 265.394    | 274.460    | 290.072    | 310.038    |
| <b>9</b>  | 341.040  | 339.756   | 329.232   | 312.732   | 290.004    | 268.107    | 257.052    | 268.686    | 287.648    | 311.216    |
| <b>10</b> | 346.070  | 344.303   | 332.718   | 313.861   | 287.899    | 262.044    | 249.183    | 262.594    | 285.621    | 312.645    |
| <b>11</b> | 351.689  | 349.768   | 336.029   | 315.088   | 285.930    | 255.961    | 241.865    | 256.405    | 283.671    | 314.103    |
| <b>12</b> | 358.149  | 356.189   | 339.843   | 316.536   | 283.342    | 249.869    | 233.388    | 249.589    | 281.595    | 315.580    |
| <b>13</b> | 365.216  | 363.324   | 344.226   | 318.139   | 280.938    | 243.458    | 225.345    | 243.323    | 279.287    | 316.777    |
| <b>14</b> | 372.978  | 371.395   | 348.870   | 319.674   | 278.003    | 236.632    | 216.183    | 236.246    | 276.796    | 317.936    |
| <b>15</b> | 381.581  | 379.901   | 353.437   | 321.045   | 274.894    | 229.362    | 207.184    | 229.883    | 273.967    | 319.452    |
| <b>16</b> | 391.303  | 388.726   | 358.805   | 322.281   | 271.756    | 221.802    | 198.756    | 222.217    | 271.100    | 321.074    |
| <b>17</b> | 401.373  | 398.535   | 364.424   | 323.825   | 268.059    | 214.175    | 189.091    | 214.966    | 267.730    | 322.551    |
| <b>18</b> | 411.492  | 408.624   | 370.613   | 325.669   | 264.515    | 206.818    | 180.045    | 207.484    | 264.737    | 324.163    |
| <b>19</b> | 422.064  | 419.670   | 377.478   | 327.591   | 260.711    | 199.219    | 170.525    | 200.310    | 261.426    | 326.171    |
| <b>20</b> | 433.109  | 430.541   | 385.105   | 329.628   | 257.013    | 191.408    | 161.420    | 192.326    | 258.240    | 328.180    |
| <b>21</b> | 443.845  | 441.412   | 392.877   | 331.540   | 253.248    | 182.922    | 152.113    | 184.158    | 254.619    | 330.371    |
| <b>22</b> | 454.553  | 452.293   | 400.881   | 333.403   | 249.463    | 174.435    | 142.574    | 175.999    | 251.240    | 332.592    |
| <b>23</b> | 465.250  | 463.821   | 409.493   | 335.807   | 245.862    | 166.161    | 134.358    | 168.874    | 247.812    | 335.035    |
| <b>24</b> | 475.417  | 475.147   | 417.748   | 338.501   | 241.836    | 158.070    | 125.272    | 161.111    | 244.530    | 337.690    |
| <b>25</b> | 485.574  | 486.153   | 426.322   | 341.648   | 237.935    | 149.709    | 117.722    | 153.513    | 241.286    | 340.857    |
| <b>26</b> | 494.794  | 496.899   | 434.306   | 344.525   | 233.282    | 141.956    | 109.380    | 146.011    | 237.279    | 344.419    |
| <b>27</b> | 503.252  | 506.998   | 442.996   | 347.393   | 229.043    | 134.097    | 102.110    | 138.934    | 233.600    | 347.634    |
| <b>28</b> | 510.271  | 516.209   | 451.994   | 350.067   | 224.872    | 126.701    | 95.786     | 132.079    | 229.758    | 350.714    |
| <b>29</b> | 516.817  | 526.057   | 461.900   | 352.867   | 220.402    | 119.634    | 89.462     | 124.915    | 226.060    | 354.093    |
| <b>30</b> | 522.176  | 534.630   | 470.908   | 356.111   | 215.613    | 113.310    | 83.679     | 118.871    | 222.217    | 357.347    |
| <b>31</b> | 526.404  | 541.659   | 480.322   | 359.201   | 210.998    | 107.642    | 78.359     | 112.528    | 218.181    | 360.755    |
| <b>32</b> | 529.928  | 547.964   | 489.117   | 362.715   | 206.441    | 102.072    | 73.493     | 106.822    | 213.904    | 363.990    |
| <b>33</b> | 532.275  | 553.573   | 498.579   | 366.143   | 202.000    | 96.684     | 69.650     | 100.710    | 209.318    | 366.973    |
| <b>34</b> | 533.839  | 559.077   | 507.819   | 369.734   | 197.308    | 91.084     | 66.271     | 95.130     | 204.694    | 369.879    |
| <b>35</b> | 533.935  | 563.093   | 517.705   | 373.249   | 191.949    | 85.755     | 63.336     | 89.665     | 199.306    | 372.843    |
| <b>36</b> | 531.995  | 566.762   | 527.022   | 376.763   | 186.610    | 80.744     | 60.990     | 84.857     | 194.237    | 376.194    |
| <b>37</b> | 527.930  | 569.572   | 536.793   | 379.312   | 180.701    | 76.254     | 59.242     | 80.136     | 188.734    | 379.544    |
| <b>38</b> | 521.664  | 571.599   | 546.467   | 382.460   | 175.545    | 71.630     | 58.470     | 75.299     | 183.820    | 383.087    |
| <b>39</b> | 514.065  | 573.443   | 556.257   | 385.848   | 169.868    | 67.478     | 57.794     | 70.867     | 178.509    | 386.408    |
| <b>40</b> | 502.789  | 574.341   | 566.424   | 389.691   | 164.568    | 63.317     | 57.929     | 67.073     | 173.856    | 390.058    |
| <b>41</b> | 488.306  | 573.047   | 577.141   | 394.045   | 159.499    | 59.416     | 58.393     | 63.317     | 169.376    | 393.930    |
| <b>42</b> | 471.690  | 570.595   | 588.949   | 398.564   | 154.092    | 55.641     | 60.565     | 59.909     | 164.162    | 398.390    |
| <b>43</b> | 452.660  | 566.665   | 600.892   | 402.918   | 149.101    | 51.992     | 63.848     | 56.134     | 159.200    | 403.256    |
| <b>44</b> | 431.989  | 560.747   | 612.188   | 407.852   | 143.588    | 48.632     | 69.100     | 52.146     | 153.889    | 408.470    |
| <b>45</b> | 410.353  | 551.304   | 624.942   | 413.365   | 138.664    | 45.262     | 76.380     | 48.883     | 149.101    | 413.819    |
| <b>46</b> | 389.479  | 539.159   | 638.421   | 418.945   | 133.720    | 42.482     | 90.032     | 45.600     | 144.505    | 419.795    |
| <b>47</b> | 367.774  | 524.445   | 652.353   | 425.482   | 128.951    | 39.952     | 111.051    | 42.916     | 140.334    | 426.225    |
| <b>48</b> | 347.074  | 507.510   | 666.825   | 432.810   | 124.065    | 38.079     | 147.083    | 40.744     | 135.922    | 433.939    |
| <b>49</b> | 325.293  | 488.644   | 682.428   | 441.277   | 119.711    | 36.457     | 168.343    | 38.755     | 131.809    | 442.445    |
| <b>50</b> | 304.680  | 467.799   | 698.426   | 451.222   | 115.482    | 35.289     | 167.715    | 37.471     | 127.551    | 453.240    |
| <b>51</b> | 282.618  | 445.805   | 716.191   | 461.717   | 111.504    | 34.381     | 152.181    | 36.496     | 123.795    | 465.492    |
| <b>52</b> | 260.866  | 423.232   | 732.527   | 473.409   | 107.691    | 33.734     | 123.438    | 35.858     | 120.068    | 478.053    |
| <b>53</b> | 241.305  | 398.197   | 746.324   | 486.414   | 103.742    | 32.991     | 98.770     | 35.433     | 116.361    | 491.695    |

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**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |        |        |         |        |         |         |
|-----|---------|---------|---------|---------|--------|--------|---------|--------|---------|---------|
| 54  | 220.846 | 375.325 | 759.339 | 500.684 | 99.957 | 32.199 | 91.886  | 34.487 | 112.663 | 506.313 |
| 55  | 202.820 | 350.038 | 769.293 | 519.598 | 96.163 | 32.103 | 126.672 | 33.242 | 109.149 | 524.734 |
| 56  | 185.558 | 324.897 | 776.013 | 541.437 | 92.890 | 32.354 | 143.732 | 32.421 | 105.692 | 547.838 |
| 57  | 168.314 | 297.699 | 778.735 | 567.081 | 90.051 | 30.925 | 144.196 | 32.160 | 102.680 | 575.867 |
| 58  | 151.727 | 272.336 | 777.364 | 594.761 | 87.242 | 29.129 | 119.306 | 30.905 | 99.677  | 606.627 |
| 59  | 134.918 | 249.656 | 771.369 | 626.767 | 84.326 | 27.652 | 87.338  | 29.312 | 96.665  | 642.186 |
| 60  | 113.310 | 228.377 | 760.323 | 660.086 | 81.642 | 26.561 | 69.226  | 28.047 | 94.232  | 679.473 |
| 61  | 89.800  | 208.807 | 745.889 | 694.496 | 79.035 | 26.300 | 56.008  | 27.671 | 91.751  | 717.040 |
| 62  | 73.985  | 190.182 | 727.390 | 725.431 | 76.554 | 26.117 | 46.759  | 27.932 | 89.424  | 750.910 |
| 63  | 63.703  | 168.739 | 706.275 | 754.714 | 74.410 | 25.344 | 42.404  | 26.802 | 87.232  | 783.041 |
| 64  | 53.961  | 140.305 | 680.323 | 779.189 | 72.325 | 23.819 | 39.440  | 25.750 | 85.079  | 809.496 |
| 65  | 44.721  | 115.280 | 647.892 | 798.093 | 70.838 | 22.969 | 37.335  | 24.726 | 83.254  | 828.149 |
| 66  | 38.320  | 99.725  | 617.286 | 804.041 | 70.046 | 22.129 | 35.733  | 24.002 | 82.742  | 834.792 |
| 67  | 33.406  | 84.278  | 582.239 | 798.972 | 69.940 | 21.540 | 34.391  | 23.471 | 82.810  | 823.573 |
| 68  | 29.892  | 70.886  | 546.255 | 778.658 | 70.346 | 21.096 | 33.116  | 22.863 | 83.467  | 782.858 |
| 69  | 27.227  | 59.339  | 506.824 | 730.190 | 71.688 | 20.787 | 32.218  | 22.293 | 85.147  | 713.420 |
| 70  | 24.852  | 50.032  | 462.508 | 646.029 | 73.725 | 20.526 | 32.663  | 21.946 | 87.705  | 608.346 |
| 71  | 22.786  | 42.762  | 413.587 | 532.738 | 76.196 | 20.333 | 32.450  | 21.666 | 91.480  | 443.150 |
| 72  | 20.951  | 37.017  | 355.397 | 366.374 | 78.755 | 20.073 | 31.330  | 21.492 | 94.917  | 281.151 |
| 73  | 19.358  | 32.218  | 285.833 | 255.961 | 79.344 | 19.879 | 29.573  | 21.260 | 96.346  | 180.518 |
| 74  | 17.852  | 28.173  | 213.228 | 146.465 | 75.279 | 19.773 | 28.492  | 20.970 | 91.915  | 131.017 |
| 75  | 16.462  | 24.900  | 140.836 | 109.680 | 65.875 | 19.648 | 28.482  | 20.710 | 79.460  | 101.096 |
| 76  | 15.139  | 22.110  | 96.607  | 85.436  | 53.855 | 19.696 | 27.854  | 20.497 | 62.390  | 68.830  |
| 77  | 13.179  | 19.657  | 60.459  | 58.509  | 42.511 | 19.754 | 25.846  | 20.121 | 47.183  | 40.077  |
| 78  | 12.368  | 17.514  | 38.243  | 34.217  | 33.097 | 19.725 | 23.452  | 19.542 | 35.144  | 25.344  |
| 79  | 11.702  | 15.776  | 28.424  | 22.110  | 25.721 | 19.204 | 21.183  | 18.798 | 26.715  | 19.802  |
| 80  | 10.620  | 14.482  | 22.419  | 18.537  | 20.343 | 18.151 | 16.288  | 17.804 | 20.758  | 17.137  |
| 81  | 9.616   | 13.314  | 18.383  | 16.790  | 16.722 | 16.616 | 13.652  | 16.664 | 17.157  | 15.216  |
| 82  | 8.554   | 12.127  | 15.651  | 15.419  | 14.183 | 15.052 | 11.972  | 15.245 | 14.473  | 13.951  |
| 83  | 7.425   | 10.572  | 13.768  | 14.878  | 12.590 | 13.469 | 11.122  | 14.038 | 12.793  | 12.967  |
| 84  | 6.488   | 9.095   | 12.127  | 15.052  | 11.180 | 12.069 | 10.398  | 12.812 | 11.393  | 11.808  |
| 85  | 5.677   | 7.763   | 10.495  | 13.835  | 9.993  | 10.727 | 9.616   | 11.856 | 10.176  | 10.398  |
| 86  | 5.098   | 6.643   | 9.124   | 12.262  | 8.834  | 9.529  | 8.834   | 10.862 | 9.066   | 9.008   |
| 87  | 4.547   | 5.803   | 7.618   | 11.122  | 7.898  | 8.351  | 8.216   | 9.771  | 8.062   | 7.820   |
| 88  | 4.248   | 5.262   | 6.874   | 10.302  | 7.318  | 7.318  | 7.743   | 8.709  | 7.473   | 6.903   |
| 89  | 4.074   | 5.117   | 6.449   | 9.471   | 6.923  | 6.478  | 7.154   | 7.434  | 7.183   | 6.517   |
| 90  | 3.959   | 5.098   | 6.517   | 8.854   | 6.739  | 5.889  | 6.826   | 6.787  | 7.087   | 6.749   |
| 91  | 3.833   | 5.050   | 6.739   | 8.776   | 6.720  | 5.629  | 6.392   | 6.421  | 7.087   | 6.894   |
| 92  | 3.756   | 5.011   | 6.980   | 8.873   | 6.874  | 5.648  | 6.285   | 6.440  | 7.241   | 7.000   |
| 93  | 3.756   | 5.040   | 7.241   | 8.979   | 7.009  | 5.696  | 6.285   | 6.517  | 7.386   | 6.160   |
| 94  | 3.785   | 5.281   | 7.656   | 9.008   | 7.106  | 5.725  | 6.285   | 6.556  | 7.473   | 6.363   |
| 95  | 3.843   | 5.687   | 7.985   | 8.873   | 7.164  | 5.725  | 6.285   | 6.565  | 7.560   | 6.643   |
| 96  | 3.910   | 6.005   | 8.187   | 9.124   | 7.270  | 5.725  | 6.314   | 6.594  | 7.656   | 6.865   |
| 97  | 3.862   | 5.764   | 8.100   | 9.616   | 7.396  | 5.735  | 6.334   | 6.623  | 7.792   | 6.952   |
| 98  | 3.727   | 5.291   | 7.608   | 10.369  | 7.483  | 5.774  | 6.372   | 6.643  | 7.898   | 7.106   |
| 99  | 3.582   | 4.963   | 6.739   | 10.466  | 7.531  | 5.851  | 6.334   | 6.710  | 7.985   | 7.154   |
| 100 | 3.485   | 4.779   | 6.218   | 10.698  | 7.502  | 5.918  | 6.237   | 6.787  | 8.023   | 7.000   |
| 101 | 3.408   | 4.634   | 5.725   | 9.954   | 7.502  | 5.996  | 6.179   | 6.874  | 7.985   | 6.923   |
| 102 | 3.360   | 4.470   | 5.262   | 8.709   | 7.512  | 6.102  | 6.179   | 6.980  | 8.004   | 6.942   |
| 103 | 3.360   | 4.345   | 5.127   | 8.448   | 7.589  | 6.208  | 6.189   | 7.106  | 8.004   | 6.797   |
| 104 | 3.379   | 4.200   | 5.098   | 8.081   | 7.714  | 6.334  | 6.256   | 7.241  | 8.081   | 6.662   |
| 105 | 3.408   | 4.103   | 5.098   | 7.743   | 7.878  | 6.469  | 6.372   | 7.396  | 8.245   | 6.797   |
| 106 | 3.466   | 4.065   | 5.098   | 7.695   | 8.023  | 6.633  | 6.488   | 7.560  | 8.380   | 6.971   |
| 107 | 3.543   | 4.016   | 5.078   | 7.820   | 8.149  | 6.787  | 6.662   | 7.743  | 8.535   | 7.135   |
| 108 | 3.611   | 3.997   | 5.040   | 7.975   | 8.294  | 6.971  | 6.826   | 7.917  | 8.670   | 7.270   |
| 109 | 3.650   | 3.968   | 5.021   | 8.110   | 8.429  | 7.125  | 7.000   | 8.100  | 8.815   | 7.405   |

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**CANDELA TABULATION - (Cont.)**

|     |       |       |       |        |        |        |        |        |       |       |
|-----|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 110 | 3.698 | 3.939 | 4.982 | 8.245  | 8.554  | 7.309  | 7.164  | 8.274  | 8.931 | 7.531 |
| 111 | 3.707 | 3.910 | 4.943 | 8.380  | 8.660  | 7.434  | 7.318  | 8.448  | 9.066 | 7.637 |
| 112 | 3.736 | 3.881 | 4.914 | 8.525  | 8.776  | 7.608  | 7.473  | 8.631  | 9.191 | 7.743 |
| 113 | 3.765 | 3.881 | 4.895 | 8.641  | 8.892  | 7.763  | 7.618  | 8.776  | 9.317 | 7.820 |
| 114 | 3.804 | 3.862 | 4.885 | 8.757  | 8.969  | 7.917  | 7.801  | 8.940  | 9.423 | 7.917 |
| 115 | 3.833 | 3.862 | 4.866 | 8.854  | 9.037  | 8.043  | 7.956  | 9.095  | 9.510 | 7.975 |
| 116 | 3.891 | 3.833 | 4.837 | 8.931  | 9.095  | 8.197  | 8.120  | 9.249  | 9.607 | 8.023 |
| 117 | 3.920 | 3.833 | 4.818 | 8.979  | 9.143  | 8.323  | 8.274  | 9.404  | 9.665 | 8.062 |
| 118 | 3.959 | 3.862 | 4.818 | 9.008  | 9.172  | 8.458  | 8.409  | 9.539  | 9.732 | 8.100 |
| 119 | 3.987 | 3.862 | 4.808 | 9.056  | 9.201  | 8.564  | 8.564  | 9.665  | 9.780 | 8.120 |
| 120 | 4.016 | 3.881 | 4.818 | 9.066  | 9.201  | 8.641  | 8.689  | 9.771  | 9.829 | 8.178 |
| 121 | 4.045 | 3.910 | 4.818 | 9.085  | 9.201  | 8.718  | 8.815  | 9.877  | 9.858 | 8.197 |
| 122 | 4.074 | 3.959 | 4.837 | 9.114  | 9.201  | 8.796  | 8.911  | 9.983  | 9.887 | 8.245 |
| 123 | 4.123 | 3.987 | 4.837 | 9.143  | 9.172  | 8.873  | 9.018  | 10.089 | 9.906 | 8.294 |
| 124 | 4.171 | 4.016 | 4.856 | 9.191  | 9.172  | 8.940  | 9.124  | 10.196 | 9.916 | 8.332 |
| 125 | 4.200 | 4.074 | 4.866 | 9.220  | 9.143  | 9.018  | 9.249  | 10.302 | 9.916 | 8.380 |
| 126 | 4.258 | 4.142 | 4.866 | 9.269  | 9.124  | 9.085  | 9.356  | 10.379 | 9.935 | 8.448 |
| 127 | 4.306 | 4.219 | 4.895 | 9.298  | 9.124  | 9.143  | 9.462  | 10.466 | 9.935 | 8.477 |
| 128 | 4.345 | 4.287 | 4.934 | 9.346  | 9.124  | 9.191  | 9.549  | 10.543 | 9.935 | 8.525 |
| 129 | 4.403 | 4.345 | 4.963 | 9.385  | 9.124  | 9.249  | 9.645  | 10.620 | 9.916 | 8.564 |
| 130 | 4.451 | 4.412 | 5.011 | 9.433  | 9.143  | 9.298  | 9.732  | 10.678 | 9.906 | 8.612 |
| 131 | 4.518 | 4.470 | 5.050 | 9.462  | 9.191  | 9.346  | 9.809  | 10.727 | 9.877 | 8.670 |
| 132 | 4.576 | 4.547 | 5.117 | 9.529  | 9.240  | 9.375  | 9.877  | 10.775 | 9.858 | 8.738 |
| 133 | 4.634 | 4.605 | 5.194 | 9.587  | 9.278  | 9.404  | 9.935  | 10.804 | 9.829 | 8.796 |
| 134 | 4.702 | 4.673 | 5.243 | 9.684  | 9.375  | 9.433  | 9.983  | 10.823 | 9.809 | 8.892 |
| 135 | 4.760 | 4.731 | 5.320 | 9.751  | 9.452  | 9.462  | 10.031 | 10.823 | 9.800 | 8.969 |
| 136 | 4.837 | 4.789 | 5.387 | 9.858  | 9.539  | 9.471  | 10.060 | 10.823 | 9.780 | 9.056 |
| 137 | 4.914 | 4.866 | 5.465 | 9.954  | 9.626  | 9.510  | 10.070 | 10.823 | 9.751 | 9.124 |
| 138 | 4.982 | 4.934 | 5.542 | 10.041 | 9.732  | 9.539  | 10.089 | 10.823 | 9.722 | 9.201 |
| 139 | 5.050 | 4.982 | 5.600 | 10.118 | 9.829  | 9.549  | 10.089 | 10.785 | 9.694 | 9.278 |
| 140 | 5.127 | 5.059 | 5.658 | 10.176 | 9.916  | 9.587  | 10.089 | 10.775 | 9.684 | 9.346 |
| 141 | 5.204 | 5.136 | 5.696 | 10.254 | 10.012 | 9.626  | 10.089 | 10.756 | 9.665 | 9.423 |
| 142 | 5.291 | 5.204 | 5.764 | 10.321 | 10.089 | 9.665  | 10.089 | 10.727 | 9.665 | 9.462 |
| 143 | 5.368 | 5.262 | 5.812 | 10.379 | 10.176 | 9.703  | 10.089 | 10.678 | 9.645 | 9.510 |
| 144 | 5.465 | 5.320 | 5.851 | 10.437 | 10.254 | 9.732  | 10.089 | 10.649 | 9.645 | 9.549 |
| 145 | 5.552 | 5.387 | 5.918 | 10.485 | 10.331 | 9.780  | 10.089 | 10.601 | 9.645 | 9.607 |
| 146 | 5.648 | 5.445 | 5.976 | 10.514 | 10.408 | 9.809  | 10.070 | 10.562 | 9.645 | 9.616 |
| 147 | 5.735 | 5.494 | 6.034 | 10.543 | 10.466 | 9.858  | 10.060 | 10.514 | 9.645 | 9.665 |
| 148 | 5.832 | 5.552 | 6.102 | 10.572 | 10.524 | 9.906  | 10.041 | 10.466 | 9.645 | 9.684 |
| 149 | 5.928 | 5.609 | 6.150 | 10.591 | 10.572 | 9.935  | 10.041 | 10.418 | 9.665 | 9.694 |
| 150 | 6.025 | 5.658 | 6.218 | 10.591 | 10.601 | 9.964  | 10.031 | 10.398 | 9.665 | 9.703 |
| 151 | 6.131 | 5.725 | 6.285 | 10.591 | 10.649 | 10.012 | 10.031 | 10.340 | 9.684 | 9.703 |
| 152 | 6.218 | 5.803 | 6.343 | 10.591 | 10.698 | 10.060 | 10.031 | 10.302 | 9.684 | 9.703 |
| 153 | 6.314 | 5.851 | 6.421 | 10.591 | 10.717 | 10.089 | 10.031 | 10.263 | 9.684 | 9.694 |
| 154 | 6.401 | 5.918 | 6.478 | 10.591 | 10.746 | 10.138 | 10.041 | 10.244 | 9.684 | 9.684 |
| 155 | 6.488 | 5.996 | 6.556 | 10.572 | 10.756 | 10.167 | 10.041 | 10.215 | 9.684 | 9.665 |
| 156 | 6.594 | 6.073 | 6.633 | 10.572 | 10.756 | 10.196 | 10.070 | 10.176 | 9.665 | 9.645 |
| 157 | 6.691 | 6.150 | 6.710 | 10.572 | 10.775 | 10.215 | 10.089 | 10.147 | 9.665 | 9.626 |
| 158 | 6.787 | 6.237 | 6.787 | 10.562 | 10.775 | 10.244 | 10.118 | 10.138 | 9.665 | 9.626 |
| 159 | 6.894 | 6.314 | 6.874 | 10.562 | 10.775 | 10.254 | 10.138 | 10.109 | 9.645 | 9.626 |
| 160 | 7.000 | 6.392 | 6.952 | 10.543 | 10.756 | 10.263 | 10.147 | 10.070 | 9.626 | 9.645 |
| 161 | 7.087 | 6.488 | 7.029 | 10.524 | 10.746 | 10.292 | 10.147 | 10.060 | 9.616 | 9.684 |
| 162 | 7.193 | 6.604 | 7.106 | 10.495 | 10.717 | 10.292 | 10.167 | 10.041 | 9.587 | 9.703 |
| 163 | 7.309 | 6.710 | 7.193 | 10.466 | 10.669 | 10.292 | 10.176 | 10.031 | 9.549 | 9.732 |
| 164 | 7.396 | 6.816 | 7.289 | 10.418 | 10.649 | 10.263 | 10.167 | 9.993  | 9.529 | 9.771 |
| 165 | 7.512 | 6.942 | 7.386 | 10.379 | 10.601 | 10.263 | 10.167 | 9.964  | 9.471 | 9.809 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

|     |       |       |       |        |        |        |        |       |       |        |
|-----|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|
| 166 | 7.618 | 7.077 | 7.473 | 10.331 | 10.572 | 10.244 | 10.167 | 9.935 | 9.433 | 9.848  |
| 167 | 7.763 | 7.193 | 7.540 | 10.292 | 10.524 | 10.225 | 10.147 | 9.877 | 9.385 | 9.877  |
| 168 | 7.849 | 7.309 | 7.618 | 10.244 | 10.485 | 10.215 | 10.118 | 9.848 | 9.327 | 9.887  |
| 169 | 7.956 | 7.396 | 7.695 | 10.196 | 10.437 | 10.176 | 10.070 | 9.800 | 9.278 | 9.906  |
| 170 | 8.081 | 7.502 | 7.792 | 10.147 | 10.398 | 10.147 | 10.031 | 9.732 | 9.240 | 9.916  |
| 171 | 8.197 | 7.618 | 7.878 | 10.138 | 10.340 | 10.109 | 9.993  | 9.684 | 9.191 | 9.935  |
| 172 | 8.323 | 7.734 | 7.985 | 10.118 | 10.321 | 10.070 | 9.954  | 9.607 | 9.124 | 9.935  |
| 173 | 8.409 | 7.840 | 8.062 | 10.109 | 10.292 | 10.012 | 9.887  | 9.529 | 9.085 | 9.954  |
| 174 | 8.477 | 7.946 | 8.149 | 10.089 | 10.244 | 9.964  | 9.780  | 9.433 | 9.018 | 9.954  |
| 175 | 8.564 | 8.062 | 8.245 | 10.089 | 10.196 | 9.906  | 9.684  | 9.327 | 8.979 | 9.964  |
| 176 | 8.689 | 8.197 | 8.332 | 10.089 | 10.138 | 9.848  | 9.578  | 9.220 | 8.911 | 9.993  |
| 177 | 8.815 | 8.371 | 8.448 | 10.089 | 10.109 | 9.771  | 9.500  | 9.124 | 8.854 | 10.031 |
| 178 | 8.940 | 8.525 | 8.554 | 10.089 | 10.060 | 9.694  | 9.404  | 9.018 | 8.825 | 10.041 |
| 179 | 9.085 | 8.689 | 8.670 | 10.089 | 10.012 | 9.626  | 9.317  | 8.911 | 8.747 | 10.060 |
| 180 | 9.201 | 9.201 | 9.201 | 9.201  | 9.201  | 9.201  | 9.201  | 9.201 | 9.201 | 9.201  |

| Vert.<br>Angles | Horizontal Angles |            |            |
|-----------------|-------------------|------------|------------|
|                 | <u>300</u>        | <u>330</u> | <u>360</u> |
| 0               | 308.985           | 308.985    | 308.985    |
| 1               | 310.038           | 313.649    | 313.678    |
| 2               | 311.602           | 316.391    | 316.961    |
| 3               | 313.601           | 319.490    | 320.205    |
| 4               | 315.648           | 322.445    | 323.188    |
| 5               | 317.907           | 325.138    | 326.461    |
| 6               | 320.195           | 327.909    | 329.831    |
| 7               | 322.319           | 330.545    | 333.277    |
| 8               | 324.549           | 333.615    | 336.937    |
| 9               | 326.857           | 336.966    | 341.040    |
| 10              | 329.425           | 340.789    | 346.070    |
| 11              | 332.061           | 345.153    | 351.689    |
| 12              | 334.697           | 350.338    | 358.149    |
| 13              | 337.815           | 356.131    | 365.216    |
| 14              | 341.455           | 362.580    | 372.978    |
| 15              | 345.568           | 369.358    | 381.581    |
| 16              | 350.174           | 377.014    | 391.303    |
| 17              | 354.972           | 385.124    | 401.373    |
| 18              | 360.002           | 393.901    | 411.492    |
| 19              | 365.805           | 403.440    | 422.064    |
| 20              | 371.974           | 413.143    | 433.109    |
| 21              | 378.704           | 423.136    | 443.845    |
| 22              | 385.250           | 433.225    | 454.553    |
| 23              | 392.655           | 443.488    | 465.250    |
| 24              | 399.954           | 453.877    | 475.417    |
| 25              | 407.514           | 464.111    | 485.574    |
| 26              | 415.035           | 474.307    | 494.794    |
| 27              | 422.576           | 484.367    | 503.252    |
| 28              | 430.271           | 494.080    | 510.271    |
| 29              | 438.371           | 503.059    | 516.817    |
| 30              | 446.211           | 511.101    | 522.176    |
| 31              | 454.022           | 518.912    | 526.404    |
| 32              | 461.688           | 526.260    | 529.928    |
| 33              | 470.290           | 532.941    | 532.275    |
| 34              | 477.715           | 538.695    | 533.839    |
| 35              | 486.337           | 543.706    | 533.935    |
| 36              | 494.524           | 548.418    | 531.995    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

|    |         |         |         |
|----|---------|---------|---------|
| 37 | 502.895 | 551.893 | 527.930 |
| 38 | 511.246 | 554.491 | 521.664 |
| 39 | 520.003 | 556.547 | 514.065 |
| 40 | 529.108 | 556.914 | 502.789 |
| 41 | 538.801 | 555.157 | 488.306 |
| 42 | 548.070 | 551.826 | 471.690 |
| 43 | 558.159 | 545.975 | 452.660 |
| 44 | 569.012 | 538.125 | 431.989 |
| 45 | 580.752 | 527.592 | 410.353 |
| 46 | 592.724 | 515.408 | 389.479 |
| 47 | 605.584 | 500.751 | 367.774 |
| 48 | 617.769 | 482.195 | 347.074 |
| 49 | 631.479 | 463.242 | 325.293 |
| 50 | 644.551 | 442.523 | 304.680 |
| 51 | 658.242 | 421.523 | 282.618 |
| 52 | 671.373 | 400.041 | 260.866 |
| 53 | 682.321 | 376.271 | 241.305 |
| 54 | 692.044 | 351.854 | 220.846 |
| 55 | 698.938 | 326.316 | 202.820 |
| 56 | 703.524 | 299.476 | 185.558 |
| 57 | 704.151 | 272.625 | 168.314 |
| 58 | 701.969 | 248.343 | 151.727 |
| 59 | 697.248 | 224.399 | 134.918 |
| 60 | 688.848 | 203.873 | 113.310 |
| 61 | 677.562 | 183.993 | 89.800  |
| 62 | 662.239 | 163.226 | 73.985  |
| 63 | 640.158 | 137.698 | 63.703  |
| 64 | 612.941 | 111.727 | 53.961  |
| 65 | 585.541 | 96.810  | 44.721  |
| 66 | 558.237 | 82.018  | 38.320  |
| 67 | 525.333 | 69.255  | 33.406  |
| 68 | 488.026 | 57.302  | 29.892  |
| 69 | 448.325 | 48.052  | 27.227  |
| 70 | 402.146 | 40.686  | 24.852  |
| 71 | 355.387 | 35.356  | 22.786  |
| 72 | 301.407 | 31.320  | 20.951  |
| 73 | 228.039 | 28.231  | 19.358  |
| 74 | 154.826 | 25.779  | 17.852  |
| 75 | 96.935  | 23.365  | 16.462  |
| 76 | 62.554  | 20.932  | 15.139  |
| 77 | 43.090  | 18.933  | 13.179  |
| 78 | 33.474  | 17.195  | 12.368  |
| 79 | 26.570  | 15.728  | 11.702  |
| 80 | 21.743  | 14.579  | 10.620  |
| 81 | 18.479  | 13.102  | 9.616   |
| 82 | 15.979  | 11.596  | 8.554   |
| 83 | 13.864  | 9.964   | 7.425   |
| 84 | 12.069  | 8.332   | 6.488   |
| 85 | 10.669  | 6.971   | 5.677   |
| 86 | 9.346   | 5.957   | 5.098   |
| 87 | 7.946   | 5.243   | 4.547   |
| 88 | 7.125   | 4.808   | 4.248   |
| 89 | 7.125   | 4.789   | 4.074   |
| 90 | 7.241   | 4.760   | 3.959   |
| 91 | 7.405   | 4.683   | 3.833   |
| 92 | 7.618   | 4.673   | 3.756   |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES

CANDELA TABULATION - (Cont.)

|     |       |       |       |
|-----|-------|-------|-------|
| 93  | 7.849 | 4.683 | 3.756 |
| 94  | 8.245 | 4.895 | 3.785 |
| 95  | 8.747 | 5.243 | 3.843 |
| 96  | 8.583 | 5.387 | 3.910 |
| 97  | 8.226 | 5.117 | 3.862 |
| 98  | 7.656 | 4.789 | 3.727 |
| 99  | 7.077 | 4.596 | 3.582 |
| 100 | 6.556 | 4.490 | 3.485 |
| 101 | 5.918 | 4.412 | 3.408 |
| 102 | 5.764 | 4.325 | 3.360 |
| 103 | 5.735 | 4.258 | 3.360 |
| 104 | 5.735 | 4.142 | 3.379 |
| 105 | 5.764 | 4.103 | 3.408 |
| 106 | 5.803 | 4.094 | 3.466 |
| 107 | 5.803 | 4.094 | 3.543 |
| 108 | 5.774 | 4.094 | 3.611 |
| 109 | 5.754 | 4.094 | 3.650 |
| 110 | 5.696 | 4.074 | 3.698 |
| 111 | 5.696 | 4.074 | 3.707 |
| 112 | 5.725 | 4.074 | 3.736 |
| 113 | 5.764 | 4.074 | 3.765 |
| 114 | 5.832 | 4.103 | 3.804 |
| 115 | 5.851 | 4.142 | 3.833 |
| 116 | 5.889 | 4.171 | 3.891 |
| 117 | 5.928 | 4.200 | 3.920 |
| 118 | 5.996 | 4.229 | 3.959 |
| 119 | 6.073 | 4.258 | 3.987 |
| 120 | 6.150 | 4.306 | 4.016 |
| 121 | 6.237 | 4.364 | 4.045 |
| 122 | 6.334 | 4.422 | 4.074 |
| 123 | 6.401 | 4.499 | 4.123 |
| 124 | 6.488 | 4.557 | 4.171 |
| 125 | 6.594 | 4.634 | 4.200 |
| 126 | 6.662 | 4.712 | 4.258 |
| 127 | 6.739 | 4.789 | 4.306 |
| 128 | 6.826 | 4.866 | 4.345 |
| 129 | 6.903 | 4.943 | 4.403 |
| 130 | 6.980 | 5.040 | 4.451 |
| 131 | 7.058 | 5.117 | 4.518 |
| 132 | 7.135 | 5.194 | 4.576 |
| 133 | 7.212 | 5.281 | 4.634 |
| 134 | 7.289 | 5.358 | 4.702 |
| 135 | 7.357 | 5.426 | 4.760 |
| 136 | 7.405 | 5.523 | 4.837 |
| 137 | 7.473 | 5.600 | 4.914 |
| 138 | 7.540 | 5.677 | 4.982 |
| 139 | 7.589 | 5.754 | 5.050 |
| 140 | 7.656 | 5.841 | 5.127 |
| 141 | 7.714 | 5.918 | 5.204 |
| 142 | 7.763 | 6.005 | 5.291 |
| 143 | 7.801 | 6.102 | 5.368 |
| 144 | 7.869 | 6.179 | 5.465 |
| 145 | 7.917 | 6.256 | 5.552 |
| 146 | 7.956 | 6.343 | 5.648 |
| 147 | 7.985 | 6.440 | 5.735 |
| 148 | 8.033 | 6.517 | 5.832 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES

CANDELA TABULATION - (Cont.)

|     |       |       |       |
|-----|-------|-------|-------|
| 149 | 8.081 | 6.594 | 5.928 |
| 150 | 8.120 | 6.662 | 6.025 |
| 151 | 8.178 | 6.739 | 6.131 |
| 152 | 8.197 | 6.826 | 6.218 |
| 153 | 8.265 | 6.903 | 6.314 |
| 154 | 8.294 | 6.980 | 6.401 |
| 155 | 8.332 | 7.058 | 6.488 |
| 156 | 8.371 | 7.154 | 6.594 |
| 157 | 8.429 | 7.232 | 6.691 |
| 158 | 8.477 | 7.318 | 6.787 |
| 159 | 8.525 | 7.396 | 6.894 |
| 160 | 8.583 | 7.483 | 7.000 |
| 161 | 8.641 | 7.579 | 7.087 |
| 162 | 8.709 | 7.666 | 7.193 |
| 163 | 8.757 | 7.763 | 7.309 |
| 164 | 8.825 | 7.869 | 7.396 |
| 165 | 8.902 | 7.975 | 7.512 |
| 166 | 8.979 | 8.081 | 7.618 |
| 167 | 9.037 | 8.187 | 7.763 |
| 168 | 9.114 | 8.294 | 7.849 |
| 169 | 9.172 | 8.400 | 7.956 |
| 170 | 9.249 | 8.506 | 8.081 |
| 171 | 9.327 | 8.631 | 8.197 |
| 172 | 9.404 | 8.718 | 8.323 |
| 173 | 9.462 | 8.825 | 8.409 |
| 174 | 9.539 | 8.931 | 8.477 |
| 175 | 9.616 | 9.056 | 8.564 |
| 176 | 9.694 | 9.162 | 8.689 |
| 177 | 9.771 | 9.269 | 8.815 |
| 178 | 9.829 | 9.375 | 8.940 |
| 179 | 9.887 | 9.500 | 9.085 |
| 180 | 9.201 | 9.201 | 9.201 |



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp  | %Fixt  |
|---------|---------|--------|--------|
| 0-20    | 116.65  | 8.20   | 8.20   |
| 0-30    | 265.43  | 18.60  | 18.60  |
| 0-40    | 475.52  | 33.30  | 33.30  |
| 0-60    | 1016.00 | 71.20  | 71.20  |
| 0-80    | 1369.2  | 95.90  | 96.00  |
| 0-90    | 1380.58 | 96.70  | 96.80  |
| 10-90   | 1351.29 | 94.70  | 94.70  |
| 20-40   | 358.87  | 25.10  | 25.20  |
| 20-50   | 616.36  | 43.20  | 43.20  |
| 40-70   | 810.24  | 56.80  | 56.80  |
| 60-80   | 353.20  | 24.80  | 24.80  |
| 70-80   | 83.45   | 5.80   | 5.80   |
| 80-90   | 11.37   | 0.80   | 0.80   |
| 90-110  | 13.77   | 1.00   | 1.00   |
| 90-120  | 20.62   | 1.40   | 1.40   |
| 90-130  | 27.31   | 1.90   | 1.90   |
| 90-150  | 38.80   | 2.70   | 2.70   |
| 90-180  | 46.33   | 3.20   | 3.20   |
| 110-180 | 32.56   | 2.30   | 2.30   |
| 0-180   | 1426.91 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 29.29  |
| 10-20   | 87.36  |
| 20-30   | 148.78 |
| 30-40   | 210.09 |
| 40-50   | 257.49 |
| 50-60   | 282.99 |
| 60-70   | 269.75 |
| 70-80   | 83.45  |
| 80-90   | 11.37  |
| 90-100  | 7.16   |
| 100-110 | 6.61   |
| 110-120 | 6.85   |
| 120-130 | 6.69   |
| 130-140 | 6.18   |
| 140-150 | 5.31   |
| 150-160 | 4.07   |
| 160-170 | 2.58   |
| 170-180 | 0.89   |

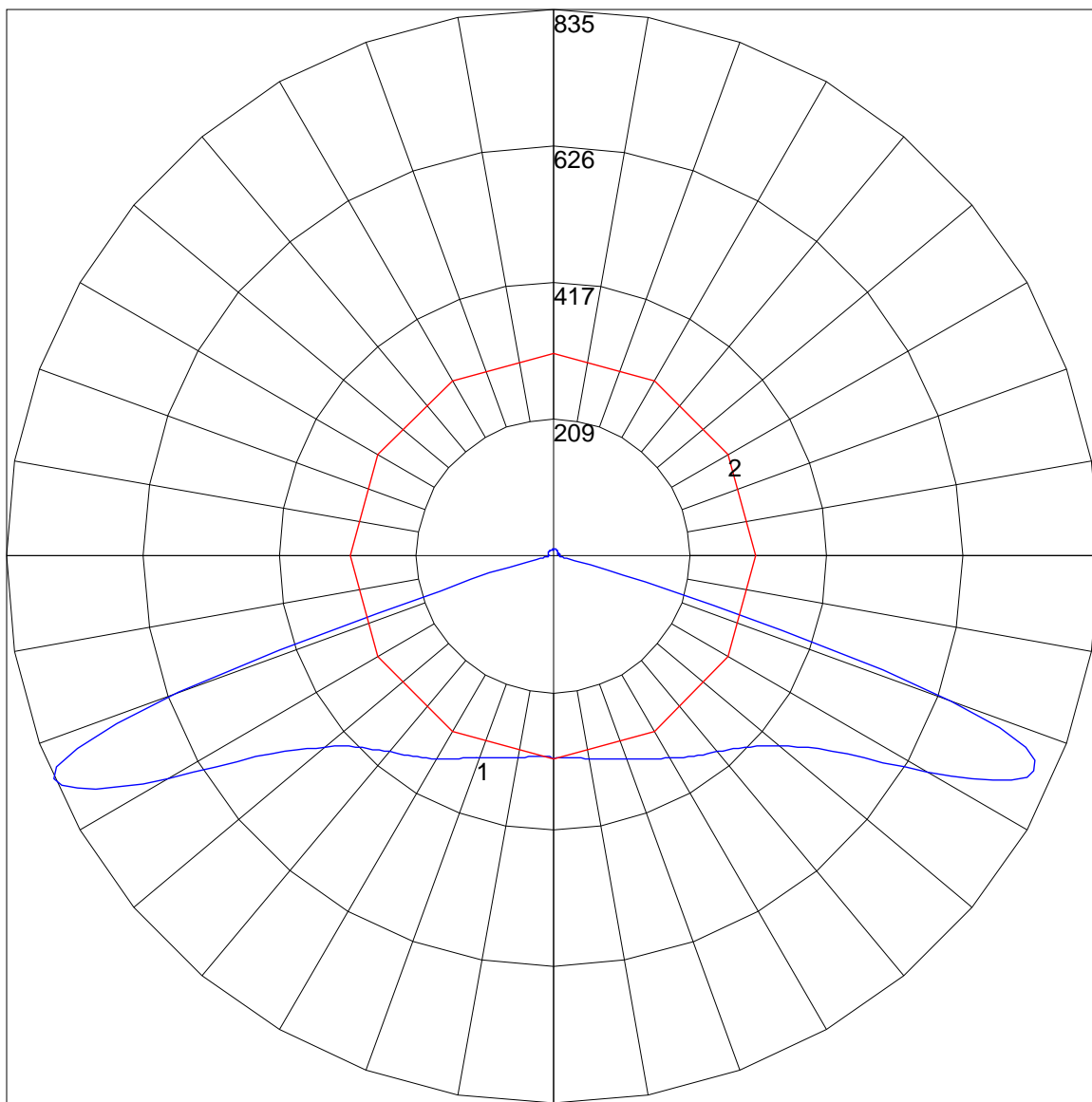
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-2A-5000°K-P.IES**

**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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1  | 108 | 103 | 98  | 94  | 104 | 100 | 96  | 92  | 95  | 92  | 89  | 91  | 88  | 86  | 87 | 84 | 82 | 80 |
| 2  | 97  | 88  | 81  | 75  | 94  | 86  | 79  | 74  | 82  | 76  | 71  | 78  | 73  | 69  | 74 | 71 | 67 | 65 |
| 3  | 87  | 76  | 67  | 60  | 84  | 74  | 66  | 59  | 71  | 64  | 58  | 67  | 61  | 57  | 64 | 59 | 55 | 53 |
| 4  | 79  | 66  | 57  | 49  | 76  | 65  | 56  | 49  | 62  | 54  | 48  | 59  | 52  | 47  | 56 | 51 | 46 | 43 |
| 5  | 72  | 58  | 48  | 41  | 69  | 57  | 48  | 41  | 54  | 46  | 40  | 52  | 45  | 39  | 50 | 44 | 39 | 36 |
| 6  | 66  | 52  | 42  | 35  | 64  | 50  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 44 | 38 | 33 | 31 |
| 7  | 61  | 46  | 37  | 30  | 59  | 45  | 36  | 30  | 43  | 35  | 30  | 42  | 34  | 29  | 40 | 34 | 29 | 27 |
| 8  | 56  | 42  | 33  | 27  | 54  | 41  | 32  | 26  | 39  | 32  | 26  | 38  | 31  | 26  | 36 | 30 | 25 | 23 |
| 9  | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 34  | 28  | 23  | 33 | 27 | 22 | 20 |
| 10 | 49  | 35  | 26  | 21  | 47  | 34  | 26  | 21  | 33  | 26  | 21  | 32  | 25  | 20  | 31 | 24 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 834.792 Located At Horizontal Angle = 270, Vertical Angle = 66  
# 1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)