



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] DG3211126-60857E-10
 [TESTLAB] BACL
 [TESTDATE] 2021-12-02
 [ISSUE DATE] 2021-12-02 13:13:57
 [LAMPPOSITION] 0,0
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMCAT] SWLSEL4HT4792LMWT50120-277V_P
 [LAMP] LED

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4792 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 34 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.23 m |
| Luminous Width (90-270) | 0.11 m |
| Luminous Height | 0.05 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8792 | 6970 | 6739 |
| 55 | 8265 | 6267 | 6140 |
| 65 | 7450 | 5534 | 5584 |
| 75 | 5927 | 4843 | 5113 |
| 85 | 2606 | 4261 | 4844 |

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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> | <u>202.5</u> |
|----|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 |
| 1 | 1339.958 | 1339.781 | 1339.804 | 1339.965 | 1339.965 | 1339.965 | 1340.449 | 1340.457 | 1340.119 | 1340.426 |
| 2 | 1338.975 | 1338.798 | 1339.128 | 1339.136 | 1339.297 | 1339.627 | 1340.288 | 1340.134 | 1339.620 | 1339.773 |
| 3 | 1337.485 | 1337.316 | 1337.646 | 1337.815 | 1338.306 | 1338.637 | 1339.466 | 1339.474 | 1338.614 | 1338.936 |
| 4 | 1335.534 | 1335.849 | 1335.695 | 1336.187 | 1336.686 | 1337.178 | 1337.838 | 1338.007 | 1337.131 | 1337.784 |
| 5 | 1333.384 | 1333.376 | 1333.376 | 1334.198 | 1334.697 | 1335.511 | 1336.341 | 1336.678 | 1335.112 | 1335.757 |
| 6 | 1330.473 | 1330.627 | 1330.788 | 1331.541 | 1332.531 | 1333.261 | 1334.405 | 1334.421 | 1332.962 | 1333.461 |
| 7 | 1326.979 | 1327.140 | 1327.801 | 1328.945 | 1329.629 | 1330.765 | 1331.426 | 1331.756 | 1329.544 | 1330.527 |
| 8 | 1323.416 | 1323.416 | 1324.276 | 1325.436 | 1326.595 | 1327.670 | 1328.500 | 1328.838 | 1326.396 | 1327.379 |
| 9 | 1319.069 | 1319.561 | 1320.367 | 1321.842 | 1323.508 | 1323.984 | 1325.159 | 1324.998 | 1322.471 | 1323.454 |
| 10 | 1314.377 | 1314.707 | 1315.836 | 1317.626 | 1319.284 | 1319.929 | 1321.104 | 1320.943 | 1318.394 | 1319.077 |
| 11 | 1309.455 | 1309.616 | 1311.067 | 1313.202 | 1315.168 | 1316.128 | 1316.996 | 1316.988 | 1313.256 | 1314.577 |
| 12 | 1303.726 | 1304.056 | 1305.838 | 1307.803 | 1310.292 | 1311.259 | 1311.950 | 1311.628 | 1308.118 | 1309.600 |
| 13 | 1297.436 | 1298.089 | 1300.170 | 1302.942 | 1305.431 | 1306.398 | 1306.943 | 1306.460 | 1302.090 | 1303.726 |
| 14 | 1291.054 | 1291.730 | 1293.973 | 1297.736 | 1299.894 | 1301.191 | 1301.414 | 1300.592 | 1295.747 | 1297.889 |
| 15 | 1284.189 | 1284.849 | 1287.576 | 1291.538 | 1294.026 | 1295.155 | 1295.171 | 1294.195 | 1289.250 | 1291.400 |
| 16 | 1276.794 | 1277.454 | 1280.848 | 1285.011 | 1287.829 | 1288.950 | 1288.774 | 1287.798 | 1282.093 | 1284.573 |
| 17 | 1269.237 | 1269.729 | 1273.461 | 1277.754 | 1281.424 | 1282.208 | 1281.716 | 1280.173 | 1274.467 | 1277.301 |
| 18 | 1260.989 | 1261.980 | 1265.866 | 1270.658 | 1274.474 | 1275.258 | 1274.451 | 1272.854 | 1266.173 | 1269.145 |
| 19 | 1252.480 | 1253.156 | 1257.994 | 1263.731 | 1266.764 | 1268.170 | 1266.902 | 1265.090 | 1257.741 | 1261.227 |
| 20 | 1243.265 | 1244.409 | 1249.409 | 1255.514 | 1259.638 | 1260.590 | 1259.154 | 1256.689 | 1249.178 | 1252.665 |
| 21 | 1233.719 | 1234.526 | 1240.523 | 1247.274 | 1251.582 | 1252.519 | 1250.430 | 1247.642 | 1239.656 | 1243.273 |
| 22 | 1223.613 | 1225.088 | 1231.085 | 1238.803 | 1243.449 | 1244.056 | 1241.476 | 1238.181 | 1229.626 | 1233.727 |
| 23 | 1213.008 | 1214.797 | 1221.624 | 1229.557 | 1234.526 | 1235.286 | 1232.468 | 1228.697 | 1219.128 | 1223.728 |
| 24 | 1202.541 | 1203.685 | 1211.326 | 1219.873 | 1225.525 | 1225.771 | 1222.515 | 1218.261 | 1208.177 | 1212.985 |
| 25 | 1190.898 | 1192.841 | 1200.782 | 1210.228 | 1216.033 | 1216.256 | 1212.501 | 1207.609 | 1197.004 | 1202.456 |
| 26 | 1179.379 | 1181.368 | 1190.276 | 1200.160 | 1206.327 | 1206.519 | 1202.326 | 1196.236 | 1185.423 | 1190.906 |
| 27 | 1167.384 | 1169.542 | 1179.272 | 1189.846 | 1196.320 | 1196.366 | 1191.160 | 1184.555 | 1173.343 | 1179.133 |
| 28 | 1154.444 | 1157.086 | 1167.614 | 1178.842 | 1185.799 | 1185.838 | 1179.986 | 1172.575 | 1160.334 | 1166.984 |
| 29 | 1141.727 | 1144.583 | 1155.642 | 1167.660 | 1174.772 | 1174.503 | 1168.313 | 1160.557 | 1147.686 | 1154.467 |
| 30 | 1128.303 | 1131.451 | 1143.332 | 1156.348 | 1164.281 | 1163.736 | 1156.502 | 1147.425 | 1133.725 | 1141.458 |
| 31 | 1114.641 | 1117.882 | 1130.722 | 1144.729 | 1152.532 | 1151.725 | 1144.130 | 1134.362 | 1120.155 | 1128.111 |
| 32 | 1100.710 | 1104.358 | 1118.112 | 1132.818 | 1141.112 | 1140.298 | 1131.843 | 1121.130 | 1105.717 | 1114.480 |
| 33 | 1086.672 | 1090.489 | 1104.873 | 1120.547 | 1129.009 | 1127.896 | 1118.581 | 1106.762 | 1091.695 | 1100.518 |
| 34 | 1071.659 | 1075.967 | 1091.541 | 1107.706 | 1116.830 | 1115.248 | 1105.042 | 1092.870 | 1076.812 | 1086.235 |
| 35 | 1056.077 | 1061.376 | 1077.933 | 1095.450 | 1104.589 | 1103.291 | 1092.132 | 1077.941 | 1061.092 | 1071.475 |
| 36 | 1040.780 | 1045.725 | 1063.403 | 1081.542 | 1091.864 | 1089.537 | 1077.764 | 1062.758 | 1045.380 | 1056.553 |
| 37 | 1024.875 | 1030.627 | 1049.619 | 1069.248 | 1079.907 | 1077.234 | 1064.148 | 1047.660 | 1029.783 | 1041.210 |
| 38 | 1009.201 | 1014.846 | 1034.406 | 1054.895 | 1065.853 | 1062.881 | 1049.258 | 1031.656 | 1015.629 | 1025.551 |
| 39 | 991.976 | 998.527 | 1019.715 | 1041.563 | 1052.652 | 1049.834 | 1034.444 | 1015.645 | 1001.791 | 1011.805 |
| 40 | 975.051 | 982.170 | 1004.939 | 1027.202 | 1038.660 | 1035.304 | 1019.262 | 999.157 | 987.883 | 998.059 |
| 41 | 957.995 | 965.405 | 988.951 | 1012.888 | 1024.837 | 1021.304 | 1003.956 | 982.700 | 969.406 | 984.305 |
| 42 | 940.393 | 948.403 | 973.868 | 998.842 | 1011.083 | 1007.259 | 988.574 | 965.567 | 951.321 | 967.264 |
| 43 | 922.861 | 930.978 | 957.288 | 983.529 | 996.630 | 991.984 | 972.301 | 947.973 | 932.829 | 949.570 |
| 44 | 904.453 | 913.569 | 941.599 | 968.876 | 982.492 | 977.485 | 956.620 | 930.441 | 914.114 | 931.685 |
| 45 | 886.445 | 895.837 | 925.610 | 953.978 | 967.563 | 962.218 | 940.101 | 912.632 | 894.892 | 913.423 |
| 46 | 867.400 | 877.775 | 908.984 | 938.550 | 952.834 | 947.643 | 924.320 | 894.708 | 875.655 | 895.130 |
| 47 | 848.362 | 859.444 | 891.936 | 923.291 | 937.582 | 931.416 | 907.448 | 876.047 | 856.172 | 876.615 |
| 48 | 829.470 | 840.951 | 875.386 | 908.101 | 923.214 | 916.848 | 890.453 | 857.316 | 835.898 | 857.608 |
| 49 | 809.581 | 822.006 | 858.130 | 892.174 | 907.794 | 900.752 | 873.151 | 838.402 | 815.793 | 838.747 |
| 50 | 789.952 | 803.091 | 841.504 | 876.699 | 893.187 | 885.239 | 856.241 | 819.526 | 795.512 | 819.395 |
| 51 | 769.785 | 784.284 | 823.987 | 860.780 | 877.437 | 869.680 | 839.170 | 799.943 | 774.554 | 799.812 |
| 52 | 749.934 | 764.241 | 806.509 | 844.645 | 861.594 | 853.423 | 821.369 | 780.145 | 753.827 | 780.145 |
| 53 | 729.706 | 745.434 | 789.184 | 828.679 | 846.450 | 837.572 | 803.760 | 760.393 | 732.279 | 760.040 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 54 | 708.618 | 725.429 | 771.160 | 812.284 | 830.185 | 820.800 | 785.636 | 740.580 | 710.945 | 740.534 |
| 55 | 688.106 | 705.746 | 753.927 | 796.387 | 815.187 | 804.934 | 768.127 | 720.721 | 689.466 | 720.137 |
| 56 | 666.911 | 685.372 | 736.464 | 780.230 | 799.490 | 789.092 | 750.817 | 700.432 | 667.249 | 699.802 |
| 57 | 645.831 | 665.352 | 718.141 | 763.580 | 782.649 | 772.074 | 732.018 | 679.636 | 645.224 | 679.459 |
| 58 | 624.105 | 645.562 | 700.739 | 748.114 | 767.988 | 756.761 | 714.877 | 659.608 | 622.700 | 658.556 |
| 59 | 602.395 | 624.812 | 682.016 | 731.204 | 751.631 | 739.528 | 696.162 | 638.735 | 600.314 | 638.213 |
| 60 | 581.185 | 604.615 | 664.822 | 715.384 | 736.487 | 723.854 | 678.637 | 618.346 | 577.744 | 617.263 |
| 61 | 558.968 | 584.610 | 647.151 | 699.165 | 720.752 | 707.512 | 661.021 | 597.527 | 554.736 | 596.605 |
| 62 | 536.459 | 563.407 | 628.943 | 682.147 | 704.410 | 690.978 | 642.813 | 576.277 | 531.813 | 575.794 |
| 63 | 514.388 | 543.225 | 611.403 | 666.865 | 689.097 | 675.174 | 625.058 | 555.811 | 508.490 | 554.798 |
| 64 | 492.340 | 522.413 | 593.310 | 650.600 | 673.515 | 658.932 | 606.957 | 534.762 | 485.198 | 533.633 |
| 65 | 470.561 | 502.109 | 576.346 | 635.010 | 658.563 | 643.657 | 589.670 | 514.212 | 461.830 | 513.137 |
| 66 | 448.782 | 482.680 | 558.200 | 618.630 | 642.551 | 626.801 | 570.932 | 493.224 | 438.423 | 492.148 |
| 67 | 426.996 | 463.258 | 541.328 | 603.278 | 627.669 | 611.634 | 554.368 | 473.410 | 414.931 | 471.552 |
| 68 | 404.333 | 443.837 | 523.980 | 587.689 | 612.287 | 595.468 | 536.812 | 453.643 | 391.155 | 450.495 |
| 69 | 381.310 | 423.064 | 506.655 | 572.215 | 596.943 | 580.140 | 519.157 | 433.869 | 367.710 | 430.328 |
| 70 | 358.126 | 402.966 | 486.788 | 556.825 | 582.536 | 564.950 | 502.570 | 413.572 | 343.742 | 409.586 |
| 71 | 335.394 | 382.831 | 473.211 | 541.313 | 567.200 | 549.146 | 486.926 | 392.929 | 320.327 | 389.397 |
| 72 | 312.126 | 362.657 | 459.672 | 526.046 | 552.778 | 533.994 | 471.299 | 372.847 | 296.790 | 369.668 |
| 73 | 289.433 | 342.997 | 443.199 | 511.347 | 537.949 | 519.050 | 455.671 | 352.919 | 273.398 | 349.655 |
| 74 | 266.770 | 323.706 | 427.195 | 496.249 | 523.343 | 503.706 | 439.244 | 333.244 | 250.221 | 330.418 |
| 75 | 243.870 | 304.362 | 410.807 | 482.941 | 508.944 | 491.757 | 423.056 | 313.953 | 227.336 | 311.050 |
| 76 | 221.915 | 285.785 | 395.456 | 469.663 | 494.621 | 477.757 | 407.267 | 295.123 | 204.505 | 292.466 |
| 77 | 199.206 | 267.416 | 379.820 | 456.377 | 481.981 | 463.719 | 391.754 | 276.654 | 182.242 | 273.997 |
| 78 | 178.080 | 249.768 | 364.914 | 442.401 | 469.356 | 449.827 | 376.464 | 258.853 | 160.164 | 256.081 |
| 79 | 156.885 | 232.497 | 350.032 | 428.447 | 456.738 | 435.581 | 361.320 | 241.543 | 139.183 | 238.986 |
| 80 | 136.042 | 215.433 | 335.525 | 414.578 | 443.353 | 421.635 | 346.653 | 224.587 | 119.393 | 222.237 |
| 81 | 116.137 | 199.821 | 321.579 | 401.177 | 429.914 | 408.188 | 332.407 | 208.537 | 99.603 | 206.003 |
| 82 | 96.992 | 184.385 | 307.510 | 387.945 | 416.882 | 394.849 | 318.523 | 193.224 | 79.851 | 190.766 |
| 83 | 79.283 | 169.740 | 294.263 | 374.813 | 403.903 | 381.779 | 304.784 | 178.356 | 62.718 | 175.991 |
| 84 | 62.166 | 155.863 | 281.077 | 362.296 | 391.232 | 368.808 | 291.591 | 164.218 | 47.083 | 161.945 |
| 85 | 46.599 | 142.432 | 268.168 | 349.325 | 378.338 | 356.083 | 278.459 | 150.956 | 33.022 | 148.683 |
| 86 | 33.605 | 130.229 | 255.889 | 337.245 | 366.297 | 343.658 | 265.956 | 138.484 | 23.177 | 136.227 |
| 87 | 20.650 | 118.564 | 243.909 | 325.204 | 354.179 | 331.570 | 253.861 | 126.735 | 13.339 | 124.577 |
| 88 | 10.851 | 107.874 | 232.205 | 313.316 | 342.129 | 319.582 | 242.142 | 115.884 | 3.579 | 114.248 |
| 89 | 3.870 | 97.845 | 221.216 | 301.950 | 331.009 | 308.079 | 230.746 | 105.701 | 0.392 | 103.919 |
| 90 | 2.066 | 88.744 | 210.234 | 290.546 | 319.283 | 296.590 | 219.718 | 96.347 | 0.192 | 93.598 |
| 91 | 0.353 | 80.458 | 200.143 | 280.079 | 308.731 | 285.915 | 209.374 | 87.907 | 0.200 | 85.066 |
| 92 | 0.346 | 72.756 | 189.983 | 268.974 | 297.273 | 274.788 | 198.822 | 79.851 | 0.207 | 77.379 |
| 93 | 0.361 | 66.082 | 180.622 | 259.037 | 287.137 | 264.582 | 189.461 | 72.878 | 0.230 | 70.306 |
| 94 | 0.399 | 59.923 | 171.445 | 248.762 | 276.823 | 254.268 | 179.923 | 66.512 | 0.261 | 63.886 |
| 95 | 0.445 | 54.348 | 162.667 | 238.909 | 266.494 | 244.346 | 171.030 | 60.637 | 0.276 | 58.180 |
| 96 | 0.468 | 49.587 | 154.504 | 229.771 | 257.033 | 234.901 | 162.521 | 55.500 | 0.300 | 53.004 |
| 97 | 0.499 | 45.570 | 146.202 | 220.110 | 247.142 | 225.401 | 154.158 | 50.738 | 0.330 | 48.412 |
| 98 | 0.545 | 41.561 | 138.822 | 211.340 | 238.088 | 216.516 | 146.379 | 46.937 | 0.361 | 44.280 |
| 99 | 0.591 | 37.560 | 131.458 | 202.754 | 229.026 | 207.492 | 138.792 | 43.136 | 0.392 | 40.655 |
| 100 | 0.637 | 34.535 | 124.638 | 194.353 | 220.210 | 199.106 | 131.857 | 39.334 | 0.430 | 37.376 |
| 101 | 0.676 | 31.862 | 118.172 | 186.366 | 211.793 | 190.920 | 124.984 | 36.316 | 0.453 | 34.496 |
| 102 | 0.714 | 29.489 | 111.875 | 178.326 | 203.230 | 182.803 | 118.556 | 33.705 | 0.484 | 31.947 |
| 103 | 0.753 | 27.385 | 106.146 | 170.976 | 195.405 | 175.269 | 112.520 | 31.378 | 0.515 | 29.597 |
| 104 | 0.783 | 25.504 | 100.517 | 163.404 | 187.349 | 167.605 | 106.584 | 29.213 | 0.538 | 27.562 |
| 105 | 0.822 | 23.860 | 95.303 | 156.462 | 179.846 | 160.647 | 101.300 | 27.416 | 0.561 | 25.657 |
| 106 | 0.845 | 22.332 | 90.319 | 149.635 | 172.482 | 153.536 | 96.001 | 25.680 | 0.538 | 23.960 |
| 107 | 0.845 | 21.034 | 85.703 | 143.207 | 165.532 | 147.039 | 91.194 | 24.175 | 0.553 | 22.478 |
| 108 | 0.875 | 19.790 | 81.249 | 136.902 | 158.620 | 140.612 | 86.563 | 22.816 | 0.591 | 21.057 |
| 109 | 0.922 | 18.715 | 77.064 | 130.866 | 152.031 | 134.407 | 82.094 | 21.526 | 0.630 | 19.805 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|-------|--------|--------|---------|---------|---------|--------|--------|-------|--------|
| 110 | 0.975 | 17.717 | 73.201 | 125.114 | 145.665 | 128.509 | 78.016 | 20.404 | 0.683 | 18.661 |
| 111 | 1.014 | 16.780 | 69.323 | 119.455 | 139.414 | 122.772 | 74.015 | 19.337 | 0.730 | 17.601 |
| 112 | 1.060 | 15.996 | 66.036 | 114.256 | 133.662 | 117.381 | 70.421 | 18.392 | 0.791 | 16.665 |
| 113 | 1.106 | 15.213 | 62.680 | 109.110 | 127.848 | 112.144 | 66.950 | 17.517 | 0.837 | 15.751 |
| 114 | 1.144 | 14.537 | 59.647 | 104.249 | 122.465 | 107.152 | 63.678 | 16.703 | 0.883 | 14.967 |
| 115 | 1.198 | 13.900 | 56.713 | 99.457 | 117.059 | 102.352 | 60.530 | 15.943 | 0.937 | 14.222 |
| 116 | 1.252 | 13.309 | 53.902 | 94.911 | 111.936 | 97.606 | 57.635 | 15.275 | 0.991 | 13.539 |
| 117 | 1.290 | 12.809 | 51.360 | 90.741 | 107.060 | 93.337 | 54.901 | 14.645 | 1.044 | 12.909 |
| 118 | 1.344 | 12.287 | 48.926 | 86.433 | 102.253 | 88.952 | 52.228 | 14.046 | 1.106 | 12.333 |
| 119 | 1.382 | 11.880 | 46.484 | 82.662 | 97.868 | 85.074 | 49.832 | 13.516 | 1.167 | 11.780 |
| 120 | 1.444 | 11.450 | 44.050 | 78.769 | 93.413 | 81.103 | 47.498 | 13.001 | 1.229 | 11.304 |
| 121 | 1.498 | 11.074 | 41.984 | 75.198 | 89.259 | 77.394 | 45.171 | 12.548 | 1.290 | 10.836 |
| 122 | 1.544 | 10.736 | 40.064 | 71.796 | 85.227 | 73.884 | 42.836 | 12.118 | 1.344 | 10.413 |
| 123 | 1.613 | 10.383 | 38.098 | 68.355 | 81.288 | 70.429 | 40.847 | 11.719 | 1.413 | 10.029 |
| 124 | 1.659 | 10.129 | 36.432 | 65.353 | 77.663 | 67.288 | 38.920 | 11.350 | 1.459 | 9.645 |
| 125 | 1.736 | 9.830 | 34.704 | 62.342 | 74.192 | 64.185 | 37.176 | 11.005 | 1.528 | 9.261 |
| 126 | 1.789 | 9.584 | 33.122 | 59.432 | 70.728 | 61.229 | 35.464 | 10.682 | 1.590 | 8.954 |
| 127 | 1.858 | 9.346 | 31.655 | 56.782 | 67.595 | 58.426 | 33.836 | 10.367 | 1.659 | 8.639 |
| 128 | 1.943 | 9.123 | 30.134 | 53.995 | 64.316 | 55.653 | 32.246 | 10.106 | 1.720 | 8.355 |
| 129 | 2.012 | 8.947 | 28.860 | 51.568 | 61.444 | 53.127 | 30.856 | 9.853 | 1.789 | 8.079 |
| 130 | 2.097 | 8.732 | 27.508 | 49.848 | 58.572 | 50.516 | 29.389 | 9.592 | 1.858 | 7.833 |
| 131 | 2.181 | 8.578 | 26.279 | 47.106 | 55.792 | 48.143 | 28.145 | 9.392 | 1.928 | 7.595 |
| 132 | 2.258 | 8.424 | 25.120 | 44.349 | 53.204 | 45.770 | 26.794 | 9.169 | 1.981 | 7.365 |
| 133 | 2.342 | 8.279 | 23.929 | 42.130 | 50.546 | 43.405 | 25.565 | 9.000 | 2.050 | 7.119 |
| 134 | 2.442 | 8.148 | 22.893 | 40.118 | 48.127 | 41.339 | 24.444 | 8.824 | 2.120 | 6.727 |
| 135 | 2.527 | 8.002 | 21.887 | 38.221 | 45.708 | 39.334 | 23.323 | 8.632 | 2.166 | 6.589 |
| 136 | 2.611 | 7.887 | 20.927 | 36.324 | 43.289 | 37.415 | 22.309 | 8.478 | 2.227 | 6.443 |
| 137 | 2.703 | 7.756 | 20.051 | 34.588 | 41.193 | 35.594 | 21.349 | 8.302 | 2.288 | 6.336 |
| 138 | 2.818 | 7.664 | 19.214 | 32.899 | 39.135 | 33.844 | 20.420 | 8.148 | 2.358 | 6.213 |
| 139 | 2.934 | 7.580 | 18.423 | 31.286 | 37.199 | 32.216 | 19.606 | 8.048 | 2.411 | 6.067 |
| 140 | 3.033 | 7.518 | 17.724 | 29.773 | 35.333 | 30.610 | 18.776 | 7.941 | 2.465 | 5.929 |
| 141 | 3.141 | 7.457 | 17.048 | 28.322 | 33.529 | 29.098 | 18.039 | 7.856 | 2.542 | 5.767 |
| 142 | 3.271 | 7.372 | 16.396 | 26.932 | 31.816 | 27.723 | 17.348 | 7.787 | 2.619 | 5.606 |
| 143 | 3.379 | 7.326 | 15.774 | 25.642 | 30.203 | 26.333 | 16.649 | 7.726 | 2.665 | 5.460 |
| 144 | 3.440 | 7.265 | 15.152 | 24.398 | 28.660 | 25.058 | 16.004 | 7.664 | 2.696 | 5.307 |
| 145 | 3.494 | 7.234 | 14.591 | 23.230 | 27.201 | 23.829 | 15.359 | 7.610 | 2.711 | 5.184 |
| 146 | 3.556 | 7.203 | 14.038 | 22.102 | 25.803 | 22.647 | 14.760 | 7.464 | 2.726 | 5.061 |
| 147 | 3.617 | 7.173 | 13.516 | 21.011 | 24.459 | 21.564 | 14.199 | 7.257 | 2.749 | 4.892 |
| 148 | 3.702 | 7.157 | 13.063 | 20.028 | 23.223 | 20.504 | 13.677 | 7.242 | 2.780 | 4.823 |
| 149 | 3.771 | 7.127 | 12.587 | 19.045 | 21.994 | 19.483 | 13.170 | 7.219 | 2.803 | 4.700 |
| 150 | 3.840 | 7.104 | 12.180 | 18.124 | 20.865 | 18.554 | 12.717 | 7.165 | 2.826 | 4.654 |
| 151 | 3.894 | 7.073 | 11.788 | 17.264 | 19.759 | 17.647 | 12.256 | 7.111 | 2.864 | 4.562 |
| 152 | 3.947 | 7.042 | 11.389 | 16.434 | 18.753 | 16.833 | 11.865 | 7.019 | 2.903 | 4.431 |
| 153 | 4.016 | 7.019 | 11.043 | 15.659 | 17.793 | 16.019 | 11.450 | 6.958 | 2.941 | 4.331 |
| 154 | 4.078 | 6.996 | 10.713 | 14.937 | 16.895 | 15.259 | 11.074 | 6.796 | 2.980 | 4.277 |
| 155 | 4.132 | 6.988 | 10.390 | 14.222 | 16.042 | 14.537 | 10.713 | 6.704 | 3.026 | 4.254 |
| 156 | 4.185 | 6.965 | 10.076 | 13.562 | 15.205 | 13.815 | 10.360 | 6.612 | 3.072 | 4.239 |
| 157 | 4.231 | 6.958 | 9.799 | 12.963 | 14.445 | 13.186 | 10.045 | 6.604 | 3.110 | 4.216 |
| 158 | 4.277 | 6.935 | 9.515 | 12.372 | 13.700 | 12.571 | 9.738 | 6.512 | 3.156 | 4.170 |
| 159 | 4.316 | 6.927 | 9.261 | 11.834 | 12.994 | 11.988 | 9.377 | 6.481 | 3.195 | 4.009 |
| 160 | 4.339 | 6.904 | 9.016 | 11.320 | 12.364 | 11.465 | 9.046 | 6.374 | 3.225 | 3.786 |
| 161 | 4.354 | 6.873 | 8.755 | 10.813 | 11.727 | 10.943 | 8.693 | 6.305 | 3.256 | 3.594 |
| 162 | 4.362 | 6.858 | 8.540 | 10.367 | 11.166 | 10.459 | 8.263 | 6.159 | 3.279 | 3.448 |
| 163 | 4.362 | 6.835 | 8.302 | 9.914 | 10.628 | 10.006 | 7.941 | 6.051 | 3.302 | 3.348 |
| 164 | 4.362 | 6.819 | 8.094 | 9.523 | 10.129 | 9.576 | 7.587 | 6.021 | 3.325 | 3.287 |
| 165 | 4.347 | 6.804 | 7.864 | 9.131 | 9.661 | 9.169 | 7.280 | 6.005 | 3.341 | 3.264 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 166 | 4.331 | 6.789 | 7.649 | 8.755 | 9.223 | 8.785 | 6.835 | 6.013 | 3.371 | 3.271 |
| 167 | 4.331 | 6.773 | 7.464 | 8.424 | 8.816 | 8.417 | 6.481 | 6.044 | 3.425 | 3.341 |
| 168 | 4.347 | 6.750 | 7.288 | 8.102 | 8.432 | 8.002 | 6.251 | 6.074 | 3.502 | 3.433 |
| 169 | 4.393 | 6.727 | 7.142 | 7.795 | 8.087 | 7.595 | 6.190 | 6.013 | 3.594 | 3.540 |
| 170 | 4.454 | 6.650 | 7.004 | 7.518 | 7.733 | 7.188 | 6.113 | 5.898 | 3.678 | 3.640 |
| 171 | 4.485 | 6.520 | 6.889 | 7.272 | 7.418 | 6.804 | 6.090 | 5.813 | 3.732 | 3.717 |
| 172 | 4.500 | 6.151 | 6.804 | 7.073 | 7.157 | 6.397 | 6.051 | 5.667 | 3.794 | 3.786 |
| 173 | 4.493 | 5.760 | 6.735 | 6.904 | 6.927 | 6.098 | 5.998 | 5.529 | 3.847 | 3.840 |
| 174 | 4.462 | 5.460 | 6.666 | 6.781 | 6.758 | 5.836 | 5.929 | 5.291 | 3.894 | 3.886 |
| 175 | 4.408 | 5.176 | 6.512 | 6.681 | 6.635 | 5.583 | 5.760 | 5.061 | 3.894 | 3.894 |
| 176 | 4.347 | 4.892 | 6.021 | 6.558 | 6.535 | 5.391 | 5.429 | 4.838 | 3.894 | 3.901 |
| 177 | 4.270 | 4.608 | 5.399 | 6.220 | 6.305 | 5.007 | 5.030 | 4.615 | 3.909 | 3.917 |
| 178 | 4.193 | 4.370 | 4.900 | 5.414 | 5.806 | 4.615 | 4.623 | 4.377 | 3.940 | 3.940 |
| 179 | 4.116 | 4.132 | 4.400 | 4.608 | 4.992 | 4.193 | 4.224 | 4.132 | 3.978 | 3.978 |
| 180 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 | 1340.280 |
| 1 | 1340.265 | 1340.280 | 1340.111 | 1340.119 | 1339.935 | 1339.451 | 1339.958 |
| 2 | 1339.781 | 1340.103 | 1339.781 | 1339.282 | 1338.959 | 1338.475 | 1338.975 |
| 3 | 1339.266 | 1338.944 | 1338.944 | 1338.276 | 1337.777 | 1336.963 | 1337.485 |
| 4 | 1337.953 | 1337.946 | 1337.792 | 1336.801 | 1335.972 | 1334.828 | 1335.534 |
| 5 | 1335.780 | 1335.941 | 1335.780 | 1334.935 | 1333.937 | 1332.447 | 1333.384 |
| 6 | 1334.113 | 1334.121 | 1333.799 | 1332.631 | 1331.149 | 1329.176 | 1330.473 |
| 7 | 1331.188 | 1331.510 | 1331.034 | 1329.874 | 1328.062 | 1325.774 | 1326.979 |
| 8 | 1328.200 | 1328.699 | 1328.369 | 1326.549 | 1324.407 | 1322.103 | 1323.416 |
| 9 | 1324.760 | 1325.259 | 1324.645 | 1323.308 | 1320.505 | 1317.518 | 1319.069 |
| 10 | 1320.874 | 1321.696 | 1320.897 | 1319.054 | 1316.259 | 1312.787 | 1314.377 |
| 11 | 1316.213 | 1317.372 | 1316.896 | 1314.723 | 1311.574 | 1307.780 | 1309.455 |
| 12 | 1311.551 | 1312.711 | 1312.557 | 1310.077 | 1306.129 | 1301.837 | 1303.726 |
| 13 | 1306.498 | 1307.834 | 1307.350 | 1304.532 | 1300.907 | 1295.800 | 1297.436 |
| 14 | 1300.324 | 1302.313 | 1301.990 | 1298.849 | 1294.572 | 1289.127 | 1291.054 |
| 15 | 1294.326 | 1296.484 | 1296.000 | 1293.197 | 1287.937 | 1282.169 | 1284.189 |
| 16 | 1287.668 | 1290.148 | 1289.841 | 1286.662 | 1281.225 | 1274.966 | 1276.794 |
| 17 | 1281.048 | 1283.529 | 1283.559 | 1279.727 | 1273.637 | 1267.202 | 1269.237 |
| 18 | 1273.561 | 1276.678 | 1276.371 | 1272.700 | 1266.280 | 1259.215 | 1260.989 |
| 19 | 1265.789 | 1269.106 | 1268.976 | 1265.466 | 1258.033 | 1250.115 | 1252.480 |
| 20 | 1257.702 | 1262.034 | 1261.703 | 1257.526 | 1249.793 | 1241.222 | 1243.265 |
| 21 | 1249.025 | 1253.817 | 1253.502 | 1249.171 | 1240.777 | 1231.538 | 1233.719 |
| 22 | 1240.255 | 1244.885 | 1245.085 | 1240.401 | 1231.515 | 1221.639 | 1223.613 |
| 23 | 1230.955 | 1236.069 | 1236.599 | 1231.416 | 1222.023 | 1210.980 | 1213.008 |
| 24 | 1220.825 | 1226.631 | 1227.330 | 1221.970 | 1211.917 | 1200.536 | 1202.541 |
| 25 | 1210.589 | 1217.047 | 1217.907 | 1212.217 | 1201.519 | 1189.478 | 1190.898 |
| 26 | 1200.168 | 1207.141 | 1208.162 | 1202.149 | 1190.614 | 1177.575 | 1179.379 |
| 27 | 1189.217 | 1196.988 | 1197.856 | 1192.181 | 1179.978 | 1165.810 | 1167.384 |
| 28 | 1177.705 | 1185.861 | 1187.550 | 1181.015 | 1168.014 | 1153.323 | 1154.444 |
| 29 | 1166.170 | 1174.933 | 1176.799 | 1170.041 | 1156.571 | 1140.851 | 1141.727 |
| 30 | 1154.144 | 1163.744 | 1165.971 | 1158.598 | 1144.445 | 1127.642 | 1128.303 |
| 31 | 1141.627 | 1151.902 | 1154.267 | 1146.588 | 1131.574 | 1114.126 | 1114.641 |
| 32 | 1128.956 | 1140.206 | 1142.733 | 1134.853 | 1119.264 | 1100.649 | 1100.710 |
| 33 | 1115.824 | 1127.880 | 1130.461 | 1122.397 | 1105.940 | 1086.795 | 1086.672 |
| 34 | 1102.538 | 1115.225 | 1118.335 | 1110.102 | 1092.962 | 1072.342 | 1071.659 |
| 35 | 1089.061 | 1102.469 | 1105.833 | 1097.308 | 1079.039 | 1057.605 | 1056.077 |
| 36 | 1075.360 | 1089.614 | 1093.323 | 1084.806 | 1065.500 | 1042.746 | 1040.780 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| 37 | 1061.230 | 1076.620 | 1080.736 | 1071.528 | 1051.178 | 1027.632 | 1024.875 |
| 38 | 1046.555 | 1062.950 | 1067.174 | 1057.751 | 1037.140 | 1014.531 | 1009.201 |
| 39 | 1032.094 | 1049.296 | 1054.280 | 1044.566 | 1022.380 | 1001.438 | 991.976 |
| 40 | 1017.603 | 1035.642 | 1040.603 | 1030.750 | 1010.031 | 988.275 | 975.051 |
| 41 | 1004.617 | 1021.650 | 1027.003 | 1016.912 | 997.682 | 971.150 | 957.995 |
| 42 | 991.631 | 1009.800 | 1014.139 | 1005.016 | 985.249 | 954.109 | 940.393 |
| 43 | 978.560 | 997.951 | 1002.113 | 993.121 | 969.214 | 936.830 | 922.861 |
| 44 | 962.349 | 986.094 | 990.087 | 981.217 | 953.333 | 919.321 | 904.453 |
| 45 | 945.922 | 970.720 | 977.992 | 965.928 | 936.999 | 901.320 | 886.445 |
| 46 | 929.112 | 955.353 | 963.393 | 950.768 | 920.641 | 883.304 | 867.400 |
| 47 | 913.000 | 940.309 | 948.480 | 935.809 | 904.115 | 865.180 | 848.362 |
| 48 | 895.391 | 924.143 | 933.052 | 919.912 | 887.282 | 846.458 | 829.470 |
| 49 | 878.727 | 908.999 | 918.261 | 904.722 | 870.471 | 827.850 | 809.581 |
| 50 | 861.540 | 893.003 | 902.771 | 888.741 | 853.538 | 809.081 | 789.952 |
| 51 | 843.977 | 876.907 | 887.412 | 872.936 | 836.466 | 789.783 | 769.785 |
| 52 | 826.737 | 861.187 | 871.884 | 857.255 | 819.157 | 770.646 | 749.934 |
| 53 | 808.613 | 844.899 | 856.525 | 841.113 | 801.916 | 751.232 | 729.706 |
| 54 | 791.349 | 829.056 | 841.136 | 825.254 | 784.522 | 731.902 | 708.618 |
| 55 | 773.341 | 812.883 | 825.193 | 809.127 | 766.913 | 711.966 | 688.106 |
| 56 | 755.494 | 796.180 | 809.719 | 793.185 | 749.535 | 692.245 | 666.911 |
| 57 | 737.723 | 780.276 | 794.060 | 777.081 | 732.110 | 672.386 | 645.831 |
| 58 | 719.393 | 764.095 | 777.903 | 760.793 | 714.247 | 651.967 | 624.105 |
| 59 | 701.576 | 747.983 | 762.467 | 744.673 | 696.784 | 632.253 | 602.395 |
| 60 | 683.975 | 731.764 | 746.970 | 728.669 | 679.190 | 611.864 | 581.185 |
| 61 | 665.774 | 715.023 | 730.789 | 712.573 | 661.374 | 591.583 | 558.968 |
| 62 | 648.365 | 699.387 | 715.898 | 696.607 | 644.264 | 571.670 | 536.459 |
| 63 | 629.972 | 682.754 | 699.756 | 680.480 | 626.555 | 551.035 | 514.388 |
| 64 | 612.463 | 666.826 | 684.313 | 664.522 | 609.238 | 530.868 | 492.340 |
| 65 | 594.585 | 650.984 | 668.777 | 648.879 | 591.882 | 510.564 | 470.561 |
| 66 | 576.984 | 635.095 | 653.410 | 632.829 | 574.642 | 490.244 | 448.782 |
| 67 | 559.697 | 619.260 | 638.074 | 617.247 | 557.355 | 470.162 | 426.996 |
| 68 | 542.180 | 603.532 | 622.900 | 601.865 | 540.452 | 449.896 | 404.333 |
| 69 | 525.163 | 587.843 | 607.863 | 586.007 | 523.404 | 430.136 | 381.310 |
| 70 | 508.022 | 572.591 | 592.965 | 571.132 | 506.885 | 410.131 | 358.126 |
| 71 | 490.950 | 556.771 | 577.736 | 555.512 | 490.098 | 390.572 | 335.394 |
| 72 | 474.463 | 541.735 | 563.130 | 540.598 | 473.902 | 371.327 | 312.126 |
| 73 | 457.760 | 526.514 | 548.393 | 525.654 | 457.644 | 351.959 | 289.433 |
| 74 | 441.633 | 511.739 | 533.687 | 510.748 | 441.640 | 333.075 | 266.770 |
| 75 | 425.659 | 497.071 | 519.695 | 496.318 | 426.051 | 314.429 | 243.870 |
| 76 | 409.686 | 482.196 | 505.088 | 481.658 | 410.369 | 296.367 | 221.915 |
| 77 | 394.488 | 468.227 | 491.373 | 467.689 | 395.256 | 278.259 | 199.206 |
| 78 | 378.730 | 453.467 | 477.112 | 453.229 | 380.074 | 260.880 | 178.080 |
| 79 | 364.262 | 439.882 | 463.704 | 439.667 | 365.652 | 244.200 | 156.885 |
| 80 | 349.525 | 425.928 | 450.065 | 425.967 | 351.191 | 227.659 | 136.042 |
| 81 | 335.011 | 412.189 | 436.679 | 412.289 | 337.007 | 212.108 | 116.137 |
| 82 | 321.379 | 399.326 | 423.709 | 399.457 | 323.353 | 196.618 | 96.992 |
| 83 | 307.533 | 385.680 | 410.500 | 386.317 | 309.776 | 182.327 | 79.283 |
| 84 | 294.309 | 373.155 | 397.982 | 373.454 | 296.582 | 168.258 | 62.166 |
| 85 | 281.377 | 360.460 | 385.403 | 361.029 | 284.034 | 155.295 | 46.599 |
| 86 | 268.690 | 347.989 | 373.101 | 348.442 | 271.524 | 142.739 | 33.605 |
| 87 | 256.703 | 336.040 | 361.044 | 336.554 | 259.298 | 130.959 | 20.650 |
| 88 | 244.853 | 324.167 | 349.502 | 324.843 | 247.925 | 120.553 | 10.851 |
| 89 | 233.319 | 312.318 | 337.652 | 313.285 | 236.260 | 110.147 | 3.870 |
| 90 | 222.460 | 301.167 | 326.486 | 301.835 | 225.501 | 99.749 | 2.066 |
| 91 | 211.486 | 289.893 | 315.128 | 290.899 | 214.773 | 90.918 | 0.353 |
| 92 | 201.564 | 279.396 | 304.523 | 280.240 | 204.605 | 83.008 | 0.346 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|---------|---------|---------|---------|---------|--------|-------|
| 93 | 191.458 | 268.660 | 293.679 | 269.620 | 194.852 | 75.712 | 0.361 |
| 94 | 182.112 | 258.431 | 283.427 | 259.513 | 185.253 | 69.039 | 0.399 |
| 95 | 172.996 | 248.562 | 273.244 | 249.392 | 176.152 | 63.010 | 0.445 |
| 96 | 164.195 | 238.617 | 263.253 | 239.885 | 167.352 | 57.542 | 0.468 |
| 97 | 155.925 | 229.348 | 253.646 | 230.347 | 159.058 | 52.620 | 0.499 |
| 98 | 147.823 | 219.995 | 244.108 | 221.147 | 150.879 | 48.258 | 0.545 |
| 99 | 140.274 | 211.232 | 235.093 | 212.284 | 143.361 | 44.349 | 0.591 |
| 100 | 132.932 | 202.432 | 226.008 | 203.660 | 135.866 | 40.770 | 0.637 |
| 101 | 126.167 | 194.199 | 217.437 | 195.205 | 128.939 | 37.691 | 0.676 |
| 102 | 119.585 | 185.959 | 208.944 | 187.165 | 122.342 | 34.842 | 0.714 |
| 103 | 113.395 | 178.249 | 200.727 | 179.240 | 116.114 | 32.346 | 0.753 |
| 104 | 107.206 | 170.569 | 192.633 | 171.637 | 109.886 | 30.111 | 0.783 |
| 105 | 101.047 | 163.282 | 184.884 | 164.433 | 103.681 | 28.007 | 0.822 |
| 106 | 95.756 | 156.278 | 177.519 | 157.215 | 98.205 | 26.218 | 0.845 |
| 107 | 90.810 | 149.351 | 170.055 | 150.441 | 93.137 | 24.482 | 0.845 |
| 108 | 86.080 | 142.877 | 163.120 | 143.875 | 88.345 | 23.015 | 0.875 |
| 109 | 81.671 | 136.511 | 156.262 | 137.517 | 83.776 | 21.595 | 0.922 |
| 110 | 77.348 | 130.398 | 149.604 | 131.396 | 79.491 | 20.328 | 0.975 |
| 111 | 73.539 | 124.738 | 143.530 | 125.706 | 75.474 | 19.206 | 1.014 |
| 112 | 69.684 | 119.040 | 137.141 | 119.946 | 71.573 | 18.093 | 1.060 |
| 113 | 66.182 | 113.618 | 131.427 | 114.532 | 67.956 | 17.164 | 1.106 |
| 114 | 62.857 | 108.196 | 125.660 | 109.110 | 64.531 | 16.234 | 1.144 |
| 115 | 59.647 | 102.775 | 120.230 | 103.696 | 61.236 | 15.428 | 1.198 |
| 116 | 56.667 | 98.190 | 114.901 | 99.012 | 58.195 | 14.683 | 1.252 |
| 117 | 53.787 | 93.552 | 109.571 | 94.412 | 55.269 | 13.961 | 1.290 |
| 118 | 51.069 | 89.305 | 104.257 | 90.134 | 52.489 | 13.332 | 1.344 |
| 119 | 48.527 | 85.127 | 99.465 | 85.834 | 49.886 | 12.725 | 1.382 |
| 120 | 46.100 | 81.211 | 95.118 | 81.956 | 47.359 | 12.172 | 1.444 |
| 121 | 43.804 | 77.371 | 90.672 | 78.070 | 45.033 | 11.665 | 1.498 |
| 122 | 41.600 | 73.692 | 86.510 | 74.368 | 42.752 | 11.189 | 1.544 |
| 123 | 39.480 | 70.183 | 82.539 | 70.874 | 40.586 | 10.744 | 1.613 |
| 124 | 37.553 | 66.904 | 78.707 | 67.449 | 38.589 | 10.321 | 1.659 |
| 125 | 35.633 | 63.617 | 74.937 | 64.224 | 36.585 | 9.930 | 1.736 |
| 126 | 33.867 | 60.584 | 71.473 | 61.098 | 34.788 | 9.530 | 1.789 |
| 127 | 32.146 | 57.550 | 67.933 | 58.095 | 32.968 | 9.131 | 1.858 |
| 128 | 30.472 | 54.693 | 64.692 | 55.262 | 31.371 | 8.831 | 1.943 |
| 129 | 28.936 | 51.990 | 61.551 | 52.528 | 29.804 | 8.555 | 2.012 |
| 130 | 27.431 | 49.302 | 58.464 | 49.848 | 28.276 | 8.286 | 2.097 |
| 131 | 26.049 | 46.837 | 55.600 | 47.383 | 26.917 | 8.048 | 2.181 |
| 132 | 24.690 | 44.341 | 52.704 | 44.910 | 25.465 | 7.818 | 2.258 |
| 133 | 23.407 | 42.038 | 50.040 | 42.606 | 24.244 | 7.610 | 2.342 |
| 134 | 22.194 | 39.841 | 47.482 | 40.448 | 23.031 | 7.418 | 2.442 |
| 135 | 20.973 | 37.630 | 44.925 | 38.267 | 21.879 | 7.249 | 2.527 |
| 136 | 19.844 | 35.579 | 42.506 | 36.324 | 20.881 | 7.104 | 2.611 |
| 137 | 18.769 | 33.575 | 40.195 | 34.396 | 19.844 | 6.958 | 2.703 |
| 138 | 17.732 | 31.663 | 37.921 | 32.507 | 18.892 | 6.827 | 2.818 |
| 139 | 16.772 | 29.881 | 35.902 | 30.833 | 18.024 | 6.712 | 2.934 |
| 140 | 15.820 | 28.130 | 33.836 | 29.151 | 17.187 | 6.604 | 3.033 |
| 141 | 14.921 | 26.433 | 31.885 | 27.608 | 16.426 | 6.497 | 3.141 |
| 142 | 14.061 | 24.812 | 30.035 | 26.103 | 15.735 | 6.420 | 3.271 |
| 143 | 13.247 | 23.284 | 28.253 | 24.720 | 15.052 | 6.359 | 3.379 |
| 144 | 12.456 | 21.787 | 26.602 | 23.407 | 14.491 | 6.320 | 3.440 |
| 145 | 11.696 | 20.397 | 24.966 | 22.140 | 13.900 | 6.297 | 3.494 |
| 146 | 10.989 | 19.037 | 23.446 | 20.934 | 13.362 | 6.259 | 3.556 |
| 147 | 10.360 | 17.747 | 21.963 | 19.798 | 12.871 | 6.251 | 3.617 |
| 148 | 9.722 | 16.565 | 20.573 | 18.715 | 12.418 | 6.228 | 3.702 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|-------|--------|--------|--------|--------|-------|-------|
| 149 | 9.093 | 15.451 | 19.283 | 17.694 | 12.003 | 6.220 | 3.771 |
| 150 | 8.547 | 14.407 | 17.993 | 16.718 | 11.558 | 6.213 | 3.840 |
| 151 | 8.087 | 13.462 | 16.849 | 15.789 | 11.151 | 6.205 | 3.894 |
| 152 | 7.618 | 12.564 | 15.735 | 14.929 | 10.759 | 6.213 | 3.947 |
| 153 | 6.988 | 11.704 | 14.683 | 14.100 | 10.360 | 6.205 | 4.016 |
| 154 | 6.697 | 10.951 | 13.739 | 13.332 | 9.999 | 6.220 | 4.078 |
| 155 | 6.320 | 10.252 | 12.817 | 12.571 | 9.638 | 6.213 | 4.132 |
| 156 | 6.067 | 9.553 | 11.972 | 11.896 | 9.277 | 6.220 | 4.185 |
| 157 | 5.614 | 8.862 | 11.181 | 11.204 | 8.931 | 6.197 | 4.231 |
| 158 | 5.368 | 8.302 | 10.490 | 10.567 | 8.624 | 6.174 | 4.277 |
| 159 | 5.107 | 7.848 | 9.799 | 9.991 | 8.317 | 6.144 | 4.316 |
| 160 | 4.892 | 7.380 | 9.100 | 9.415 | 8.002 | 6.082 | 4.339 |
| 161 | 4.738 | 6.935 | 8.563 | 8.839 | 7.710 | 6.013 | 4.354 |
| 162 | 4.631 | 6.528 | 8.087 | 8.355 | 7.418 | 5.929 | 4.362 |
| 163 | 4.508 | 6.005 | 7.641 | 7.918 | 7.150 | 5.852 | 4.362 |
| 164 | 4.423 | 5.591 | 7.257 | 7.526 | 6.904 | 5.767 | 4.362 |
| 165 | 4.462 | 5.122 | 6.912 | 7.165 | 6.673 | 5.683 | 4.347 |
| 166 | 4.554 | 4.961 | 6.627 | 6.858 | 6.451 | 5.606 | 4.331 |
| 167 | 4.661 | 4.769 | 6.343 | 6.566 | 6.236 | 5.537 | 4.331 |
| 168 | 4.746 | 4.623 | 6.013 | 6.305 | 6.051 | 5.475 | 4.347 |
| 169 | 4.708 | 4.569 | 5.667 | 6.044 | 5.867 | 5.414 | 4.393 |
| 170 | 4.631 | 4.562 | 5.322 | 5.813 | 5.691 | 5.383 | 4.454 |
| 171 | 4.585 | 4.623 | 5.015 | 5.629 | 5.560 | 5.391 | 4.485 |
| 172 | 4.416 | 4.777 | 4.769 | 5.491 | 5.483 | 5.437 | 4.500 |
| 173 | 4.224 | 4.915 | 4.493 | 5.445 | 5.483 | 5.499 | 4.493 |
| 174 | 4.047 | 4.907 | 4.231 | 5.491 | 5.545 | 5.460 | 4.462 |
| 175 | 3.947 | 4.723 | 4.247 | 5.545 | 5.545 | 5.045 | 4.408 |
| 176 | 3.886 | 4.331 | 4.301 | 5.283 | 5.237 | 4.393 | 4.347 |
| 177 | 3.824 | 3.970 | 3.970 | 4.892 | 4.477 | 3.978 | 4.270 |
| 178 | 3.794 | 3.794 | 3.702 | 4.293 | 3.870 | 3.794 | 4.193 |
| 179 | 3.878 | 3.763 | 3.579 | 3.479 | 3.702 | 3.824 | 4.116 |
| 180 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 | 4.047 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 491.40 | N.A. | 10.30 |
| 0-30 | 1047.36 | N.A. | 21.90 |
| 0-40 | 1725.44 | N.A. | 36.00 |
| 0-60 | 3126.16 | N.A. | 65.20 |
| 0-80 | 4121.24 | N.A. | 86.00 |
| 0-90 | 4395.33 | N.A. | 91.70 |
| 10-90 | 4268.44 | N.A. | 89.10 |
| 20-40 | 1234.03 | N.A. | 25.80 |
| 20-50 | 1954.82 | N.A. | 40.80 |
| 40-70 | 1972.37 | N.A. | 41.20 |
| 60-80 | 995.08 | N.A. | 20.80 |
| 70-80 | 423.43 | N.A. | 8.80 |
| 80-90 | 274.09 | N.A. | 5.70 |
| 90-110 | 269.64 | N.A. | 5.60 |
| 90-120 | 329.07 | N.A. | 6.90 |
| 90-130 | 362.67 | N.A. | 7.60 |
| 90-150 | 389.96 | N.A. | 8.10 |
| 90-180 | 396.74 | N.A. | 8.30 |
| 110-180 | 127.10 | N.A. | 2.70 |
| 0-180 | 4792.08 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 126.89 |
| 10-20 | 364.51 |
| 20-30 | 555.96 |
| 30-40 | 678.07 |
| 40-50 | 720.79 |
| 50-60 | 679.94 |
| 60-70 | 571.65 |
| 70-80 | 423.43 |
| 80-90 | 274.09 |
| 90-100 | 168.14 |
| 100-110 | 101.50 |
| 110-120 | 59.43 |
| 120-130 | 33.60 |
| 130-140 | 18.09 |
| 140-150 | 9.20 |
| 150-160 | 4.40 |
| 160-170 | 1.88 |
| 170-180 | 0.50 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 100 | 100 | 100 | 94 | 94 | 94 | 92 |
| 1 | 105 | 99 | 94 | 90 | 101 | 96 | 92 | 87 | 90 | 87 | 83 | 85 | 82 | 79 | 80 | 78 | 75 | 72 |
| 2 | 95 | 85 | 78 | 72 | 91 | 83 | 76 | 70 | 78 | 72 | 67 | 73 | 68 | 64 | 69 | 65 | 62 | 59 |
| 3 | 86 | 74 | 66 | 59 | 83 | 72 | 64 | 58 | 68 | 61 | 56 | 64 | 58 | 53 | 60 | 56 | 52 | 49 |
| 4 | 78 | 66 | 56 | 49 | 75 | 64 | 55 | 48 | 60 | 53 | 47 | 57 | 50 | 45 | 54 | 48 | 44 | 41 |
| 5 | 72 | 58 | 49 | 42 | 69 | 57 | 48 | 41 | 54 | 46 | 40 | 51 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 66 | 52 | 43 | 37 | 64 | 51 | 42 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 7 | 61 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 27 |
| 8 | 57 | 43 | 34 | 28 | 55 | 42 | 34 | 28 | 40 | 33 | 27 | 38 | 32 | 27 | 36 | 31 | 26 | 24 |
| 9 | 53 | 40 | 31 | 26 | 51 | 39 | 31 | 25 | 37 | 30 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |
| 10 | 50 | 36 | 28 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 22 | 33 | 26 | 22 | 31 | 25 | 21 | 20 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL4HT4792LMWT50120-277V_P.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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 16.8 | 18.3 | 17.2 | 18.8 | 19.3 | 18.8 | 20.4 | 19.3 | 20.9 | 21.4 |
| | 3H | 18.3 | 19.7 | 18.8 | 20.1 | 20.7 | 21.3 | 22.7 | 21.8 | 23.2 | 23.8 |
| | 4H | 18.7 | 20.1 | 19.3 | 20.6 | 21.1 | 22.6 | 23.9 | 23.1 | 24.4 | 24.9 |
| | 6H | 19.0 | 20.2 | 19.5 | 20.8 | 21.3 | 23.8 | 25.1 | 24.3 | 25.6 | 26.2 |
| | 8H | 19.1 | 20.2 | 19.6 | 20.8 | 21.4 | 24.5 | 25.7 | 25.0 | 26.2 | 26.8 |
| | 12H | 19.1 | 20.2 | 19.6 | 20.7 | 21.4 | 25.2 | 26.3 | 25.8 | 26.9 | 27.5 |

UGR Viewed Endwise

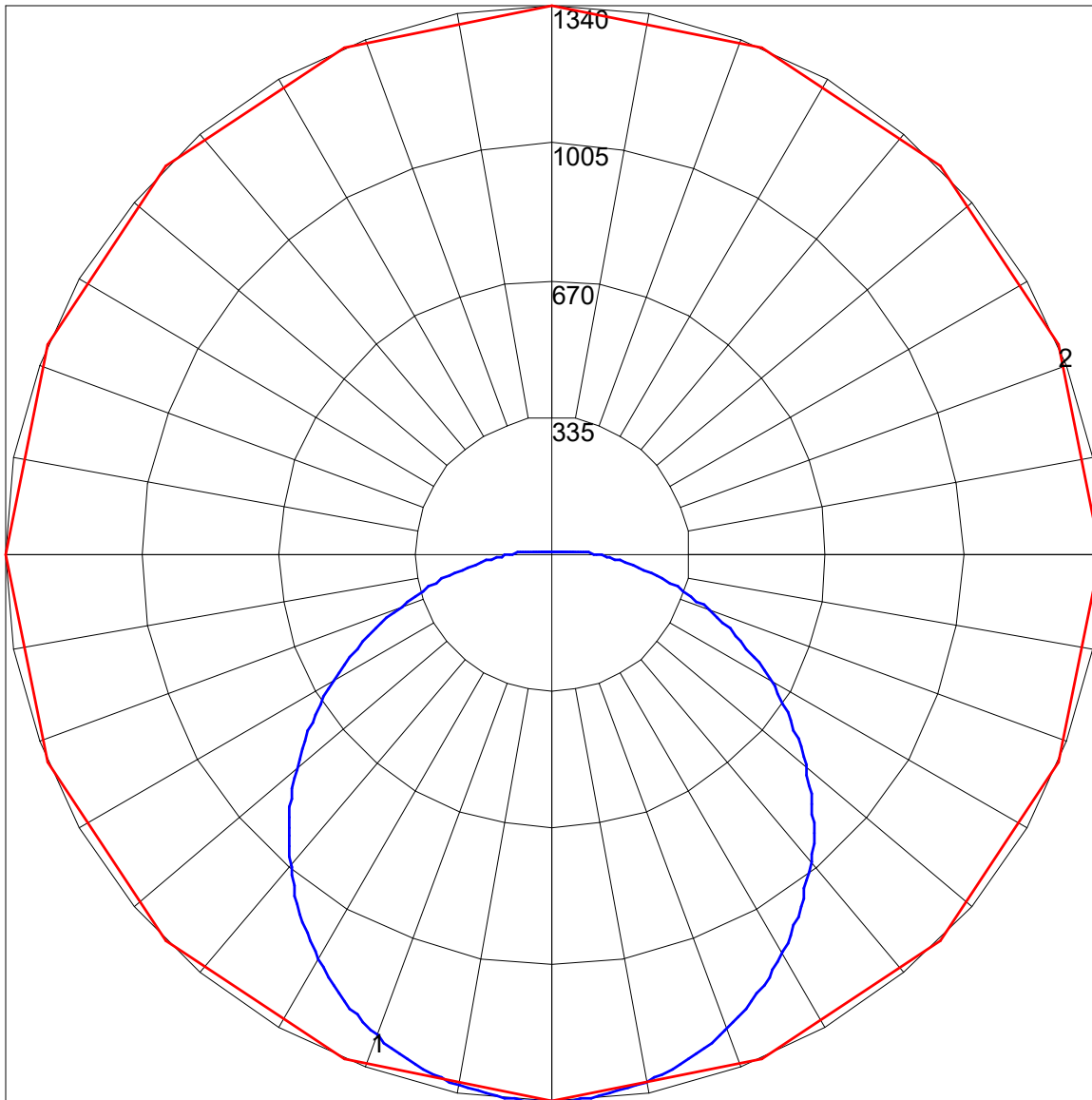
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.6 | 19.0 | 18.2 | 19.5 | 20.0 | 19.3 | 20.6 | 19.8 | 21.1 | 21.7 |
| | 3H | 19.4 | 20.5 | 19.9 | 21.1 | 21.6 | 22.0 | 23.1 | 22.5 | 23.7 | 24.2 |
| | 4H | 20.0 | 21.0 | 20.5 | 21.6 | 22.2 | 23.4 | 24.4 | 23.9 | 24.9 | 25.6 |
| | 6H | 20.4 | 21.3 | 21.0 | 21.9 | 22.5 | 24.8 | 25.7 | 25.4 | 26.3 | 27.0 |
| | 8H | 20.5 | 21.3 | 21.1 | 21.9 | 22.6 | 25.6 | 26.4 | 26.2 | 27.0 | 27.7 |
| | 12H | 20.5 | 21.3 | 21.1 | 21.9 | 22.6 | 26.4 | 27.2 | 27.0 | 27.8 | 28.5 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 20.7 | 21.6 | 21.3 | 22.1 | 22.8 | 23.6 | 24.4 | 24.1 | 25.0 | 25.7 |
| | 6H | 21.3 | 22.0 | 21.9 | 22.6 | 23.3 | 25.2 | 25.9 | 25.8 | 26.6 | 27.2 |
| | 8H | 21.4 | 22.1 | 22.1 | 22.7 | 23.4 | 26.1 | 26.8 | 26.7 | 27.4 | 28.0 |
| | 12H | 21.6 | 22.2 | 22.2 | 22.8 | 23.5 | 27.1 | 27.7 | 27.7 | 28.3 | 29.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.9 | 21.7 | 21.5 | 22.3 | 22.9 | 23.6 | 24.4 | 24.2 | 25.0 | 25.6 |
| | 6H | 21.6 | 22.2 | 22.2 | 22.8 | 23.5 | 25.2 | 25.9 | 25.9 | 26.5 | 27.2 |
| | 8H | 21.9 | 22.4 | 22.5 | 23.1 | 23.8 | 26.2 | 26.8 | 26.8 | 27.4 | 28.1 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1340.457 Located At Horizontal Angle = 157.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)