

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L50-940-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792061012.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-23
[TEST DATE] 12/12/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 75W-4-L50-940-DIM-UNV
[LUMINAIRE] 75W WIDE LENS LED STRIP LUMINAIRE
[LAMP] LED
[BALLAST] 0-10V DIMMING DRIVER

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4186 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 127 |
| Total Luminaire Watts | 33 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.22 |
| Spacing Criterion (Diagonal) | 1.30 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 3.71 ft |
| Luminous Width (90-270) | 0.33 ft |
| Luminous Height | 0.08 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 9184 | 8226 | 8145 |
| 55 | 7953 | 7042 | 7151 |
| 65 | 6685 | 6032 | 6373 |
| 75 | 5361 | 5269 | 5957 |
| 85 | 3933 | 5183 | 6293 |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1354.662 | 1354.662 | 1354.662 | 1354.662 | 1354.662 |
| 0.5 | 1348.238 | 1353.377 | 1354.234 | 1353.806 | 1362.800 |
| 1.0 | 1348.238 | 1353.806 | 1353.806 | 1353.377 | 1362.371 |
| 1.5 | 1346.953 | 1353.806 | 1353.377 | 1352.949 | 1362.800 |
| 2.0 | 1346.525 | 1352.521 | 1353.377 | 1352.521 | 1361.515 |
| 2.5 | 1346.525 | 1352.521 | 1352.093 | 1352.093 | 1360.658 |
| 3.0 | 1345.240 | 1351.236 | 1351.236 | 1351.236 | 1359.802 |
| 3.5 | 1344.383 | 1349.951 | 1349.951 | 1350.379 | 1358.945 |
| 4.0 | 1343.527 | 1349.095 | 1349.095 | 1348.666 | 1358.089 |
| 4.5 | 1341.385 | 1347.810 | 1348.238 | 1347.810 | 1356.804 |
| 5.0 | 1340.101 | 1346.525 | 1346.525 | 1346.525 | 1355.519 |
| 5.5 | 1338.387 | 1344.812 | 1344.812 | 1345.240 | 1353.806 |
| 6.0 | 1337.531 | 1342.670 | 1343.099 | 1343.099 | 1352.093 |
| 6.5 | 1334.533 | 1340.957 | 1341.385 | 1341.385 | 1349.951 |
| 7.0 | 1332.820 | 1338.816 | 1339.244 | 1338.816 | 1348.238 |
| 7.5 | 1331.107 | 1336.246 | 1337.103 | 1337.103 | 1346.097 |
| 8.0 | 1328.965 | 1334.533 | 1334.533 | 1334.533 | 1343.099 |
| 8.5 | 1326.824 | 1331.535 | 1332.391 | 1332.391 | 1340.529 |
| 9.0 | 1323.398 | 1329.394 | 1329.822 | 1329.394 | 1337.531 |
| 9.5 | 1321.256 | 1326.396 | 1326.396 | 1326.396 | 1335.818 |
| 10.0 | 1317.830 | 1322.969 | 1322.969 | 1323.826 | 1332.391 |
| 10.5 | 1314.832 | 1319.971 | 1320.400 | 1320.400 | 1329.394 |
| 11.0 | 1311.834 | 1316.973 | 1317.402 | 1316.973 | 1325.967 |
| 11.5 | 1307.979 | 1313.547 | 1314.404 | 1313.547 | 1322.969 |
| 12.0 | 1304.553 | 1309.692 | 1310.549 | 1310.549 | 1319.115 |
| 12.5 | 1301.127 | 1305.838 | 1307.123 | 1306.266 | 1315.688 |
| 13.0 | 1297.272 | 1302.412 | 1303.268 | 1302.840 | 1311.834 |
| 13.5 | 1293.418 | 1298.129 | 1298.985 | 1298.985 | 1308.408 |
| 14.0 | 1288.707 | 1293.846 | 1294.703 | 1294.703 | 1303.696 |
| 14.5 | 1284.852 | 1289.563 | 1290.420 | 1290.420 | 1300.270 |
| 15.0 | 1280.997 | 1285.280 | 1285.709 | 1285.709 | 1295.131 |
| 15.5 | 1276.286 | 1280.141 | 1281.426 | 1281.426 | 1289.991 |
| 16.0 | 1271.147 | 1275.430 | 1276.715 | 1276.715 | 1285.709 |
| 16.5 | 1266.864 | 1270.290 | 1271.575 | 1272.003 | 1280.997 |
| 17.0 | 1260.868 | 1264.723 | 1266.436 | 1266.864 | 1275.858 |
| 17.5 | 1255.729 | 1259.583 | 1261.296 | 1261.725 | 1270.719 |
| 18.0 | 1251.018 | 1254.444 | 1255.729 | 1257.014 | 1266.007 |
| 18.5 | 1245.450 | 1249.304 | 1250.589 | 1251.446 | 1260.440 |
| 19.0 | 1239.882 | 1242.880 | 1245.022 | 1245.878 | 1254.444 |
| 19.5 | 1233.458 | 1237.741 | 1239.454 | 1241.167 | 1248.876 |
| 20.0 | 1226.605 | 1231.316 | 1233.458 | 1234.743 | 1242.880 |
| 20.5 | 1219.753 | 1225.749 | 1227.462 | 1229.175 | 1237.312 |
| 21.0 | 1214.185 | 1218.896 | 1220.181 | 1223.607 | 1231.316 |
| 21.5 | 1207.761 | 1212.472 | 1214.613 | 1216.327 | 1224.892 |
| 22.0 | 1200.908 | 1206.476 | 1208.617 | 1210.331 | 1219.325 |
| 22.5 | 1194.912 | 1198.767 | 1201.765 | 1204.335 | 1212.900 |
| 23.0 | 1187.632 | 1191.914 | 1194.912 | 1197.482 | 1206.048 |
| 23.5 | 1179.922 | 1184.634 | 1188.488 | 1191.058 | 1199.623 |
| 24.0 | 1172.213 | 1177.353 | 1181.207 | 1184.205 | 1192.771 |
| 24.5 | 1165.789 | 1170.072 | 1174.355 | 1176.924 | 1185.062 |
| 25.0 | 1158.508 | 1162.791 | 1167.502 | 1170.072 | 1178.209 |
| 25.5 | 1150.371 | 1155.510 | 1159.365 | 1163.219 | 1170.072 |
| 26.0 | 1142.662 | 1147.373 | 1152.512 | 1155.938 | 1163.648 |
| 26.5 | 1134.524 | 1139.235 | 1145.231 | 1148.229 | 1156.367 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1126.387 | 1130.670 | 1137.951 | 1141.805 | 1149.086 |
| 27.5 | 1116.965 | 1122.532 | 1129.813 | 1133.239 | 1141.805 |
| 28.0 | 1110.112 | 1114.395 | 1121.676 | 1125.530 | 1133.668 |
| 28.5 | 1101.118 | 1106.258 | 1113.538 | 1117.393 | 1125.530 |
| 29.0 | 1092.552 | 1097.692 | 1104.973 | 1109.684 | 1117.821 |
| 29.5 | 1083.558 | 1088.698 | 1096.407 | 1101.118 | 1109.256 |
| 30.0 | 1074.565 | 1080.132 | 1087.841 | 1093.837 | 1101.975 |
| 30.5 | 1065.142 | 1070.710 | 1079.704 | 1085.700 | 1093.409 |
| 31.0 | 1056.148 | 1061.716 | 1070.710 | 1077.134 | 1084.415 |
| 31.5 | 1046.726 | 1053.150 | 1062.144 | 1068.997 | 1076.706 |
| 32.0 | 1037.732 | 1043.300 | 1053.579 | 1060.003 | 1067.712 |
| 32.5 | 1027.882 | 1033.878 | 1044.585 | 1051.437 | 1059.146 |
| 33.0 | 1018.459 | 1024.884 | 1034.734 | 1042.872 | 1050.581 |
| 33.5 | 1009.465 | 1015.461 | 1026.168 | 1033.449 | 1041.587 |
| 34.0 | 998.758 | 1005.611 | 1016.746 | 1024.884 | 1033.449 |
| 34.5 | 988.908 | 996.189 | 1007.752 | 1015.461 | 1024.027 |
| 35.0 | 979.914 | 985.910 | 998.758 | 1006.896 | 1015.033 |
| 35.5 | 968.350 | 976.487 | 988.908 | 997.473 | 1005.611 |
| 36.0 | 959.356 | 966.209 | 979.485 | 988.051 | 996.617 |
| 36.5 | 948.221 | 955.930 | 969.635 | 979.057 | 988.051 |
| 37.0 | 937.942 | 946.079 | 959.784 | 969.207 | 979.057 |
| 37.5 | 927.235 | 935.372 | 950.362 | 960.641 | 969.207 |
| 38.0 | 916.528 | 925.093 | 940.083 | 950.790 | 958.928 |
| 38.5 | 905.392 | 914.386 | 930.233 | 941.796 | 949.506 |
| 39.0 | 895.542 | 903.679 | 919.954 | 931.946 | 941.796 |
| 39.5 | 884.406 | 893.829 | 910.103 | 922.095 | 931.518 |
| 40.0 | 872.414 | 882.693 | 899.825 | 913.101 | 921.667 |
| 40.5 | 861.279 | 871.986 | 889.974 | 903.679 | 912.245 |
| 41.0 | 851.000 | 861.279 | 879.695 | 893.829 | 902.394 |
| 41.5 | 839.865 | 850.572 | 869.416 | 883.978 | 892.972 |
| 42.0 | 828.730 | 839.865 | 859.138 | 874.556 | 883.550 |
| 42.5 | 818.022 | 828.730 | 848.431 | 864.705 | 873.699 |
| 43.0 | 806.030 | 818.022 | 838.580 | 855.283 | 864.277 |
| 43.5 | 795.752 | 806.887 | 827.873 | 845.433 | 854.855 |
| 44.0 | 784.188 | 795.752 | 817.166 | 836.010 | 845.004 |
| 44.5 | 773.481 | 785.045 | 806.459 | 825.732 | 835.154 |
| 45.0 | 762.346 | 773.909 | 796.180 | 816.738 | 826.160 |
| 45.5 | 751.210 | 763.202 | 785.901 | 807.315 | 816.738 |
| 46.0 | 740.075 | 752.067 | 774.766 | 797.037 | 806.887 |
| 46.5 | 728.939 | 740.931 | 765.343 | 788.471 | 797.465 |
| 47.0 | 717.376 | 730.224 | 754.636 | 778.192 | 788.043 |
| 47.5 | 706.240 | 719.089 | 743.929 | 768.341 | 778.192 |
| 48.0 | 695.533 | 707.953 | 733.222 | 759.348 | 768.341 |
| 48.5 | 683.541 | 697.246 | 723.372 | 749.069 | 758.919 |
| 49.0 | 672.834 | 685.683 | 712.236 | 739.218 | 749.069 |
| 49.5 | 661.699 | 674.976 | 701.957 | 729.796 | 739.646 |
| 50.0 | 650.135 | 663.840 | 691.679 | 719.517 | 729.796 |
| 50.5 | 639.428 | 653.133 | 680.972 | 710.951 | 720.802 |
| 51.0 | 628.293 | 641.998 | 671.549 | 701.101 | 711.380 |
| 51.5 | 617.586 | 630.862 | 660.842 | 691.679 | 701.957 |
| 52.0 | 606.022 | 620.155 | 650.563 | 681.828 | 692.535 |
| 52.5 | 594.886 | 609.020 | 640.713 | 671.978 | 683.541 |
| 53.0 | 583.323 | 598.313 | 630.434 | 663.412 | 673.691 |
| 53.5 | 572.187 | 587.606 | 620.584 | 653.561 | 664.697 |
| 54.0 | 561.480 | 576.899 | 610.733 | 644.139 | 655.703 |
| 54.5 | 551.201 | 565.763 | 600.882 | 635.573 | 646.709 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 540.494 | 555.484 | 591.032 | 625.723 | 638.571 |
| 55.5 | 531.500 | 544.777 | 581.181 | 616.729 | 628.721 |
| 56.0 | 521.222 | 535.355 | 571.759 | 607.735 | 619.727 |
| 56.5 | 510.515 | 525.504 | 561.909 | 598.741 | 611.161 |
| 57.0 | 500.236 | 515.654 | 552.486 | 589.747 | 602.167 |
| 57.5 | 489.529 | 505.375 | 544.349 | 581.181 | 592.317 |
| 58.0 | 478.822 | 495.096 | 534.927 | 571.759 | 585.036 |
| 58.5 | 468.543 | 484.817 | 525.504 | 563.622 | 576.470 |
| 59.0 | 458.264 | 474.539 | 516.510 | 556.341 | 567.476 |
| 59.5 | 447.985 | 464.688 | 508.373 | 547.347 | 560.624 |
| 60.0 | 437.706 | 454.409 | 499.379 | 538.781 | 552.058 |
| 60.5 | 427.642 | 444.559 | 490.385 | 530.644 | 543.492 |
| 61.0 | 417.534 | 434.708 | 481.391 | 522.506 | 535.355 |
| 61.5 | 407.512 | 424.943 | 472.397 | 514.369 | 527.646 |
| 62.0 | 397.662 | 415.264 | 463.832 | 506.660 | 519.508 |
| 62.5 | 387.940 | 405.671 | 454.838 | 498.951 | 511.799 |
| 63.0 | 378.089 | 396.120 | 446.272 | 490.813 | 504.947 |
| 63.5 | 368.324 | 386.698 | 438.135 | 483.104 | 497.238 |
| 64.0 | 358.816 | 377.404 | 429.569 | 474.967 | 489.529 |
| 64.5 | 349.351 | 368.324 | 421.431 | 467.258 | 481.819 |
| 65.0 | 339.972 | 359.202 | 413.251 | 459.549 | 474.539 |
| 65.5 | 330.721 | 350.293 | 405.157 | 451.840 | 466.830 |
| 66.0 | 321.341 | 341.385 | 397.148 | 444.130 | 459.549 |
| 66.5 | 312.176 | 332.691 | 389.182 | 436.850 | 452.268 |
| 67.0 | 303.225 | 324.082 | 381.258 | 429.141 | 444.987 |
| 67.5 | 294.231 | 315.602 | 373.506 | 421.945 | 437.706 |
| 68.0 | 285.366 | 307.337 | 365.797 | 414.665 | 430.854 |
| 68.5 | 276.629 | 299.114 | 358.260 | 407.598 | 423.701 |
| 69.0 | 267.934 | 290.976 | 350.807 | 400.488 | 416.934 |
| 69.5 | 259.369 | 283.010 | 343.441 | 393.593 | 410.210 |
| 70.0 | 250.846 | 275.172 | 336.203 | 386.826 | 403.529 |
| 70.5 | 242.537 | 267.421 | 328.965 | 380.059 | 396.934 |
| 71.0 | 234.314 | 259.754 | 321.855 | 373.378 | 390.424 |
| 71.5 | 226.177 | 252.259 | 314.917 | 366.868 | 383.999 |
| 72.0 | 218.211 | 244.721 | 307.979 | 360.401 | 377.746 |
| 72.5 | 210.202 | 237.441 | 301.212 | 354.062 | 371.536 |
| 73.0 | 202.407 | 230.203 | 294.488 | 347.809 | 365.283 |
| 73.5 | 194.826 | 223.050 | 287.978 | 341.599 | 359.202 |
| 74.0 | 187.331 | 216.112 | 281.383 | 335.603 | 353.077 |
| 74.5 | 179.965 | 209.131 | 275.087 | 329.650 | 347.295 |
| 75.0 | 172.641 | 202.321 | 268.834 | 323.826 | 341.685 |
| 75.5 | 165.446 | 195.683 | 262.667 | 318.044 | 335.989 |
| 76.0 | 158.465 | 189.173 | 256.671 | 312.305 | 330.421 |
| 76.5 | 151.527 | 182.749 | 250.717 | 306.694 | 324.853 |
| 77.0 | 144.674 | 176.367 | 244.850 | 301.126 | 319.457 |
| 77.5 | 137.950 | 170.157 | 239.068 | 295.730 | 314.103 |
| 78.0 | 131.312 | 164.076 | 233.458 | 290.419 | 308.836 |
| 78.5 | 124.802 | 158.080 | 227.890 | 285.066 | 303.611 |
| 79.0 | 118.421 | 152.255 | 222.494 | 279.884 | 298.471 |
| 79.5 | 112.082 | 146.473 | 217.183 | 274.830 | 293.332 |
| 80.0 | 105.829 | 140.777 | 211.872 | 269.819 | 288.449 |
| 80.5 | 99.747 | 135.252 | 206.733 | 264.765 | 283.481 |
| 81.0 | 93.837 | 129.813 | 201.807 | 259.883 | 278.642 |
| 81.5 | 87.841 | 124.502 | 196.882 | 255.043 | 273.802 |
| 82.0 | 82.059 | 119.320 | 192.085 | 250.375 | 269.134 |
| 82.5 | 76.406 | 114.223 | 187.374 | 245.707 | 264.551 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|---------|---------|---------|---------|
| 83.0 | 70.838 | 109.255 | 182.749 | 241.210 | 260.097 |
| 83.5 | 65.313 | 104.416 | 178.337 | 236.627 | 255.471 |
| 84.0 | 59.917 | 99.705 | 174.055 | 232.301 | 251.060 |
| 84.5 | 54.563 | 95.165 | 169.857 | 228.018 | 246.734 |
| 85.0 | 49.424 | 90.753 | 165.746 | 223.778 | 242.409 |
| 85.5 | 44.285 | 86.556 | 161.720 | 219.667 | 238.212 |
| 86.0 | 39.231 | 82.530 | 157.780 | 215.641 | 234.057 |
| 86.5 | 34.220 | 78.761 | 154.054 | 211.615 | 229.903 |
| 87.0 | 29.295 | 75.121 | 150.285 | 207.803 | 225.834 |
| 87.5 | 24.369 | 71.738 | 146.730 | 203.949 | 221.937 |
| 88.0 | 19.487 | 68.440 | 143.218 | 200.223 | 217.997 |
| 88.5 | 14.562 | 65.356 | 139.835 | 196.540 | 214.185 |
| 89.0 | 10.065 | 62.444 | 136.623 | 192.985 | 210.416 |
| 89.5 | 6.381 | 59.746 | 133.496 | 189.558 | 206.733 |
| 90.0 | 3.812 | 57.347 | 130.627 | 186.304 | 203.349 |
| 90.5 | 2.698 | 55.249 | 127.971 | 183.049 | 199.752 |
| 91.0 | 2.870 | 53.321 | 125.273 | 179.751 | 196.325 |
| 91.5 | 3.426 | 51.480 | 122.575 | 176.624 | 192.899 |
| 92.0 | 4.069 | 49.938 | 120.005 | 173.455 | 189.558 |
| 92.5 | 4.754 | 48.610 | 117.821 | 170.414 | 186.261 |
| 93.0 | 5.439 | 47.454 | 115.551 | 167.545 | 183.091 |
| 93.5 | 6.167 | 46.554 | 113.410 | 164.718 | 180.093 |
| 94.0 | 6.938 | 45.784 | 111.397 | 162.063 | 177.181 |
| 94.5 | 7.666 | 45.227 | 109.512 | 159.364 | 174.183 |
| 95.0 | 8.394 | 44.799 | 107.756 | 156.709 | 171.314 |
| 95.5 | 9.080 | 44.499 | 106.129 | 154.182 | 168.487 |
| 96.0 | 9.636 | 44.370 | 104.715 | 151.741 | 165.703 |
| 96.5 | 10.193 | 44.370 | 103.302 | 149.471 | 163.133 |
| 97.0 | 10.707 | 44.413 | 102.017 | 147.287 | 160.564 |
| 97.5 | 11.264 | 44.584 | 100.818 | 145.188 | 158.208 |
| 98.0 | 11.735 | 44.756 | 99.747 | 143.133 | 155.810 |
| 98.5 | 12.292 | 44.970 | 98.848 | 141.162 | 153.583 |
| 99.0 | 12.849 | 45.227 | 97.906 | 139.321 | 151.398 |
| 99.5 | 13.448 | 45.527 | 97.092 | 137.565 | 149.257 |
| 100.0 | 13.962 | 45.826 | 96.450 | 135.937 | 147.330 |
| 100.5 | 14.562 | 46.169 | 95.807 | 134.353 | 145.360 |
| 101.0 | 15.076 | 46.512 | 95.336 | 132.854 | 143.604 |
| 101.5 | 15.590 | 46.854 | 94.865 | 131.440 | 141.805 |
| 102.0 | 16.061 | 47.197 | 94.522 | 130.113 | 140.220 |
| 102.5 | 16.532 | 47.540 | 94.180 | 128.871 | 138.636 |
| 103.0 | 17.003 | 47.925 | 93.923 | 127.629 | 137.222 |
| 103.5 | 17.517 | 48.310 | 93.709 | 126.558 | 135.766 |
| 104.0 | 18.074 | 48.653 | 93.494 | 125.573 | 134.438 |
| 104.5 | 18.630 | 49.039 | 93.366 | 124.631 | 133.196 |
| 105.0 | 19.144 | 49.424 | 93.237 | 123.774 | 131.997 |
| 105.5 | 19.615 | 49.767 | 93.109 | 122.875 | 130.969 |
| 106.0 | 20.172 | 50.195 | 93.066 | 122.104 | 129.941 |
| 106.5 | 20.686 | 50.580 | 93.066 | 121.376 | 128.913 |
| 107.0 | 21.200 | 51.009 | 93.066 | 120.690 | 128.057 |
| 107.5 | 21.671 | 51.351 | 93.066 | 120.176 | 127.158 |
| 108.0 | 22.271 | 51.780 | 93.066 | 119.577 | 126.258 |
| 108.5 | 22.828 | 52.208 | 93.109 | 119.149 | 125.659 |
| 109.0 | 23.384 | 52.550 | 93.195 | 118.592 | 125.059 |
| 109.5 | 23.984 | 52.936 | 93.237 | 118.206 | 124.416 |
| 110.0 | 24.584 | 53.321 | 93.323 | 117.778 | 123.903 |
| 110.5 | 25.183 | 53.707 | 93.409 | 117.393 | 123.431 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|---------|---------|
| 111.0 | 25.783 | 54.092 | 93.452 | 117.050 | 122.918 |
| 111.5 | 26.382 | 54.435 | 93.494 | 116.793 | 122.489 |
| 112.0 | 27.025 | 54.820 | 93.580 | 116.536 | 121.975 |
| 112.5 | 27.667 | 55.206 | 93.666 | 116.236 | 121.504 |
| 113.0 | 28.352 | 55.591 | 93.794 | 116.022 | 121.290 |
| 113.5 | 28.995 | 55.934 | 93.794 | 115.808 | 120.990 |
| 114.0 | 29.680 | 56.277 | 93.880 | 115.637 | 120.690 |
| 114.5 | 30.323 | 56.662 | 93.966 | 115.423 | 120.433 |
| 115.0 | 31.008 | 56.962 | 94.051 | 115.294 | 120.219 |
| 115.5 | 31.693 | 57.347 | 94.051 | 115.166 | 120.005 |
| 116.0 | 32.335 | 57.690 | 94.180 | 114.994 | 119.748 |
| 116.5 | 32.935 | 58.032 | 94.265 | 114.823 | 119.663 |
| 117.0 | 33.620 | 58.418 | 94.351 | 114.823 | 119.448 |
| 117.5 | 34.263 | 58.718 | 94.437 | 114.652 | 119.320 |
| 118.0 | 34.819 | 59.018 | 94.522 | 114.566 | 119.149 |
| 118.5 | 35.462 | 59.317 | 94.565 | 114.437 | 119.106 |
| 119.0 | 36.019 | 59.617 | 94.651 | 114.309 | 118.849 |
| 119.5 | 36.618 | 59.831 | 94.736 | 114.181 | 118.806 |
| 120.0 | 37.175 | 60.045 | 94.694 | 114.095 | 118.592 |
| 120.5 | 37.732 | 60.302 | 94.736 | 113.924 | 118.549 |
| 121.0 | 38.289 | 60.474 | 94.822 | 113.795 | 118.378 |
| 121.5 | 38.888 | 60.688 | 94.779 | 113.624 | 118.292 |
| 122.0 | 39.445 | 60.945 | 94.779 | 113.538 | 118.164 |
| 122.5 | 40.002 | 61.202 | 94.822 | 113.367 | 117.864 |
| 123.0 | 40.558 | 61.459 | 94.779 | 113.195 | 117.821 |
| 123.5 | 41.072 | 61.673 | 94.694 | 113.067 | 117.564 |
| 124.0 | 41.501 | 61.844 | 94.694 | 112.938 | 117.521 |
| 124.5 | 41.929 | 62.016 | 94.694 | 112.724 | 117.350 |
| 125.0 | 42.357 | 62.230 | 94.608 | 112.510 | 117.178 |
| 125.5 | 42.786 | 62.358 | 94.522 | 112.382 | 116.964 |
| 126.0 | 43.171 | 62.529 | 94.479 | 112.125 | 116.793 |
| 126.5 | 43.514 | 62.744 | 94.394 | 111.953 | 116.665 |
| 127.0 | 43.899 | 62.829 | 94.308 | 111.739 | 116.493 |
| 127.5 | 44.199 | 62.958 | 94.180 | 111.525 | 116.193 |
| 128.0 | 44.584 | 62.958 | 94.137 | 111.268 | 116.022 |
| 128.5 | 44.884 | 63.043 | 93.966 | 111.054 | 115.851 |
| 129.0 | 45.184 | 63.129 | 93.794 | 110.840 | 115.637 |
| 129.5 | 45.441 | 63.258 | 93.494 | 110.497 | 115.380 |
| 130.0 | 45.655 | 63.343 | 93.195 | 110.283 | 115.123 |
| 130.5 | 45.869 | 63.429 | 92.852 | 110.026 | 114.823 |
| 131.0 | 45.998 | 63.557 | 92.509 | 109.641 | 114.523 |
| 131.5 | 46.169 | 63.686 | 92.167 | 109.298 | 114.223 |
| 132.0 | 46.340 | 63.814 | 91.781 | 109.084 | 113.966 |
| 132.5 | 46.426 | 63.857 | 91.353 | 108.656 | 113.581 |
| 133.0 | 46.554 | 63.900 | 91.182 | 108.270 | 113.110 |
| 133.5 | 46.597 | 63.857 | 90.925 | 107.970 | 112.896 |
| 134.0 | 46.640 | 63.771 | 90.753 | 107.628 | 112.596 |
| 134.5 | 46.769 | 63.600 | 90.539 | 107.242 | 112.039 |
| 135.0 | 46.897 | 63.472 | 90.282 | 106.728 | 111.611 |
| 135.5 | 46.854 | 63.129 | 90.068 | 106.386 | 111.268 |
| 136.0 | 46.940 | 63.086 | 89.768 | 105.957 | 110.840 |
| 136.5 | 47.026 | 62.958 | 89.554 | 105.486 | 110.412 |
| 137.0 | 47.068 | 62.744 | 89.212 | 105.101 | 109.941 |
| 137.5 | 47.111 | 62.529 | 88.912 | 104.587 | 109.512 |
| 138.0 | 47.197 | 62.401 | 88.483 | 104.159 | 108.998 |
| 138.5 | 47.197 | 62.230 | 87.927 | 103.688 | 108.613 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L50-940-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|---------|---------|
| 139.0 | 47.154 | 62.101 | 87.284 | 103.131 | 108.013 |
| 139.5 | 47.154 | 61.930 | 86.513 | 102.531 | 107.585 |
| 140.0 | 47.154 | 61.716 | 85.657 | 101.974 | 106.985 |
| 140.5 | 47.154 | 61.587 | 84.886 | 101.289 | 106.343 |
| 141.0 | 47.154 | 61.502 | 84.029 | 100.561 | 105.829 |
| 141.5 | 47.154 | 61.330 | 83.173 | 99.919 | 105.315 |
| 142.0 | 47.111 | 61.245 | 82.359 | 99.105 | 104.758 |
| 142.5 | 47.068 | 61.116 | 81.502 | 98.377 | 104.116 |
| 143.0 | 47.026 | 60.988 | 80.689 | 97.692 | 103.473 |
| 143.5 | 47.026 | 60.816 | 79.746 | 96.963 | 102.874 |
| 144.0 | 47.026 | 60.602 | 78.933 | 96.407 | 102.189 |
| 144.5 | 47.154 | 60.431 | 78.119 | 95.764 | 101.589 |
| 145.0 | 47.325 | 60.260 | 77.220 | 95.208 | 100.904 |
| 145.5 | 47.625 | 60.045 | 76.406 | 94.651 | 100.218 |
| 146.0 | 48.011 | 59.874 | 75.635 | 94.051 | 99.576 |
| 146.5 | 48.396 | 59.703 | 74.993 | 93.409 | 98.848 |
| 147.0 | 48.782 | 59.489 | 74.264 | 92.766 | 98.120 |
| 147.5 | 49.124 | 59.403 | 73.708 | 92.124 | 97.392 |
| 148.0 | 49.510 | 59.232 | 73.108 | 91.396 | 96.621 |
| 148.5 | 49.852 | 59.189 | 72.637 | 90.711 | 95.850 |
| 149.0 | 50.281 | 59.189 | 72.123 | 90.025 | 95.165 |
| 149.5 | 50.580 | 59.317 | 71.652 | 89.297 | 94.308 |
| 150.0 | 50.923 | 59.403 | 71.181 | 88.612 | 93.409 |
| 150.5 | 51.223 | 59.446 | 70.667 | 87.841 | 92.467 |
| 151.0 | 51.437 | 59.574 | 69.982 | 87.070 | 91.353 |
| 151.5 | 51.651 | 59.617 | 69.254 | 86.256 | 90.325 |
| 152.0 | 51.908 | 59.703 | 68.568 | 85.400 | 89.297 |
| 152.5 | 52.165 | 59.788 | 67.926 | 84.500 | 88.184 |
| 153.0 | 52.336 | 59.831 | 67.241 | 83.473 | 87.284 |
| 153.5 | 52.550 | 59.960 | 66.513 | 82.402 | 86.256 |
| 154.0 | 52.722 | 59.917 | 65.870 | 81.203 | 85.400 |
| 154.5 | 52.936 | 59.960 | 65.313 | 80.046 | 84.543 |
| 155.0 | 53.022 | 60.045 | 64.757 | 78.719 | 83.901 |
| 155.5 | 53.193 | 60.088 | 64.200 | 77.477 | 83.216 |
| 156.0 | 53.321 | 60.088 | 63.814 | 76.149 | 82.616 |
| 156.5 | 53.535 | 60.088 | 63.429 | 74.821 | 81.845 |
| 157.0 | 53.621 | 60.174 | 63.043 | 73.622 | 81.117 |
| 157.5 | 53.750 | 60.174 | 62.786 | 72.466 | 80.303 |
| 158.0 | 53.921 | 60.131 | 62.658 | 71.266 | 79.532 |
| 158.5 | 53.964 | 60.131 | 62.487 | 70.281 | 78.633 |
| 159.0 | 54.178 | 60.003 | 62.358 | 69.339 | 77.862 |
| 159.5 | 54.349 | 59.917 | 62.144 | 68.440 | 77.005 |
| 160.0 | 54.563 | 59.831 | 61.930 | 67.712 | 76.149 |
| 160.5 | 54.820 | 59.788 | 61.759 | 67.026 | 75.335 |
| 161.0 | 54.992 | 59.660 | 61.716 | 66.298 | 74.521 |
| 161.5 | 55.249 | 59.617 | 61.630 | 65.570 | 73.922 |
| 162.0 | 55.463 | 59.531 | 61.759 | 64.971 | 73.408 |
| 162.5 | 55.677 | 59.531 | 61.844 | 64.328 | 72.808 |
| 163.0 | 55.934 | 59.489 | 61.887 | 63.643 | 72.294 |
| 163.5 | 56.148 | 59.489 | 61.973 | 62.915 | 71.652 |
| 164.0 | 56.234 | 59.489 | 62.058 | 62.016 | 71.052 |
| 164.5 | 56.362 | 59.403 | 61.973 | 61.330 | 70.281 |
| 165.0 | 56.491 | 59.403 | 61.844 | 60.645 | 69.510 |
| 165.5 | 56.619 | 59.360 | 61.716 | 60.174 | 68.697 |
| 166.0 | 56.748 | 59.317 | 61.630 | 59.660 | 67.455 |
| 166.5 | 56.876 | 59.317 | 61.502 | 59.232 | 66.855 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 167.0 | 57.047 | 59.317 | 61.373 | 58.846 | 66.384 |
| 167.5 | 57.133 | 59.317 | 61.116 | 58.504 | 65.913 |
| 168.0 | 57.262 | 59.317 | 60.902 | 58.161 | 65.527 |
| 168.5 | 57.519 | 59.146 | 60.602 | 57.861 | 65.056 |
| 169.0 | 57.647 | 59.189 | 60.388 | 57.561 | 64.585 |
| 169.5 | 57.861 | 59.060 | 60.045 | 57.219 | 64.071 |
| 170.0 | 57.947 | 59.018 | 59.746 | 56.790 | 63.600 |
| 170.5 | 58.075 | 58.932 | 59.360 | 56.319 | 63.086 |
| 171.0 | 58.161 | 58.846 | 58.932 | 55.805 | 62.444 |
| 171.5 | 58.289 | 58.846 | 58.546 | 55.334 | 61.930 |
| 172.0 | 58.504 | 58.761 | 58.332 | 54.863 | 61.159 |
| 172.5 | 58.632 | 58.761 | 58.075 | 54.349 | 60.302 |
| 173.0 | 58.803 | 58.675 | 57.861 | 53.878 | 58.846 |
| 173.5 | 59.018 | 58.718 | 57.776 | 53.407 | 56.662 |
| 174.0 | 59.189 | 58.718 | 57.733 | 53.022 | 53.964 |
| 174.5 | 59.317 | 58.718 | 57.647 | 52.636 | 50.752 |
| 175.0 | 59.574 | 58.846 | 57.604 | 52.336 | 47.111 |
| 175.5 | 59.660 | 58.889 | 57.561 | 52.208 | 43.300 |
| 176.0 | 59.831 | 58.975 | 57.561 | 52.079 | 40.815 |
| 176.5 | 59.874 | 59.018 | 57.519 | 52.079 | 39.059 |
| 177.0 | 60.045 | 59.103 | 57.433 | 51.951 | 37.261 |
| 177.5 | 60.088 | 59.103 | 57.304 | 51.908 | 36.875 |
| 178.0 | 60.260 | 59.189 | 57.262 | 51.865 | 36.961 |
| 178.5 | 60.345 | 59.232 | 57.304 | 51.780 | 37.047 |
| 179.0 | 60.431 | 59.232 | 57.262 | 51.651 | 37.089 |
| 179.5 | 60.517 | 59.232 | 57.219 | 51.608 | 37.132 |
| 180.0 | 54.264 | 54.264 | 54.264 | 54.264 | 54.264 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L50-940-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 490.33 | N.A. | 11.70 |
| 0-30 | 1027.41 | N.A. | 24.50 |
| 0-40 | 1650.39 | N.A. | 39.40 |
| 0-60 | 2793.07 | N.A. | 66.70 |
| 0-80 | 3479.67 | N.A. | 83.10 |
| 0-90 | 3652.35 | N.A. | 87.30 |
| 10-90 | 3524.52 | N.A. | 84.20 |
| 20-40 | 1160.06 | N.A. | 27.70 |
| 20-50 | 1773.54 | N.A. | 42.40 |
| 40-70 | 1549.72 | N.A. | 37.00 |
| 60-80 | 686.60 | N.A. | 16.40 |
| 70-80 | 279.56 | N.A. | 6.70 |
| 80-90 | 172.68 | N.A. | 4.10 |
| 90-110 | 201.69 | N.A. | 4.80 |
| 90-120 | 286.60 | N.A. | 6.80 |
| 90-130 | 364.74 | N.A. | 8.70 |
| 90-150 | 478.84 | N.A. | 11.40 |
| 90-180 | 533.39 | N.A. | 12.70 |
| 110-180 | 331.70 | N.A. | 7.90 |
| 0-180 | 4185.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 127.83 |
| 10-20 | 362.50 |
| 20-30 | 537.08 |
| 30-40 | 622.98 |
| 40-50 | 613.48 |
| 50-60 | 529.20 |
| 60-70 | 407.04 |
| 70-80 | 279.56 |
| 80-90 | 172.68 |
| 90-100 | 110.64 |
| 100-110 | 91.05 |
| 110-120 | 84.91 |
| 120-130 | 78.15 |
| 130-140 | 65.67 |
| 140-150 | 48.43 |
| 150-160 | 31.66 |
| 160-170 | 17.45 |
| 170-180 | 5.43 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L50-940-DIM-UNV_.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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 90 | 90 | 90 | 87 |
| 1 | 105 | 100 | 95 | 91 | 101 | 96 | 92 | 89 | 90 | 86 | 83 | 84 | 81 | 79 | 78 | 76 | 74 | 71 |
| 2 | 95 | 87 | 80 | 74 | 92 | 84 | 78 | 72 | 78 | 73 | 69 | 73 | 69 | 65 | 68 | 65 | 62 | 59 |
| 3 | 87 | 76 | 68 | 62 | 83 | 74 | 66 | 60 | 69 | 63 | 58 | 65 | 60 | 55 | 61 | 56 | 53 | 50 |
| 4 | 80 | 68 | 59 | 52 | 76 | 66 | 58 | 51 | 62 | 55 | 49 | 58 | 52 | 47 | 54 | 49 | 45 | 43 |
| 5 | 73 | 61 | 52 | 45 | 70 | 59 | 51 | 44 | 55 | 48 | 43 | 52 | 46 | 41 | 49 | 44 | 40 | 37 |
| 6 | 68 | 55 | 46 | 40 | 65 | 53 | 45 | 39 | 50 | 43 | 38 | 47 | 41 | 36 | 44 | 39 | 35 | 33 |
| 7 | 63 | 50 | 41 | 35 | 60 | 48 | 40 | 34 | 46 | 38 | 33 | 43 | 37 | 32 | 41 | 35 | 31 | 29 |
| 8 | 59 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 40 | 33 | 29 | 37 | 32 | 28 | 26 |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 35 | 29 | 25 | 23 |
| 10 | 51 | 38 | 31 | 25 | 49 | 37 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 24 | 32 | 27 | 23 | 21 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L50-940-DIM-UNV_.IES

UGR TABLE - CORRECTED

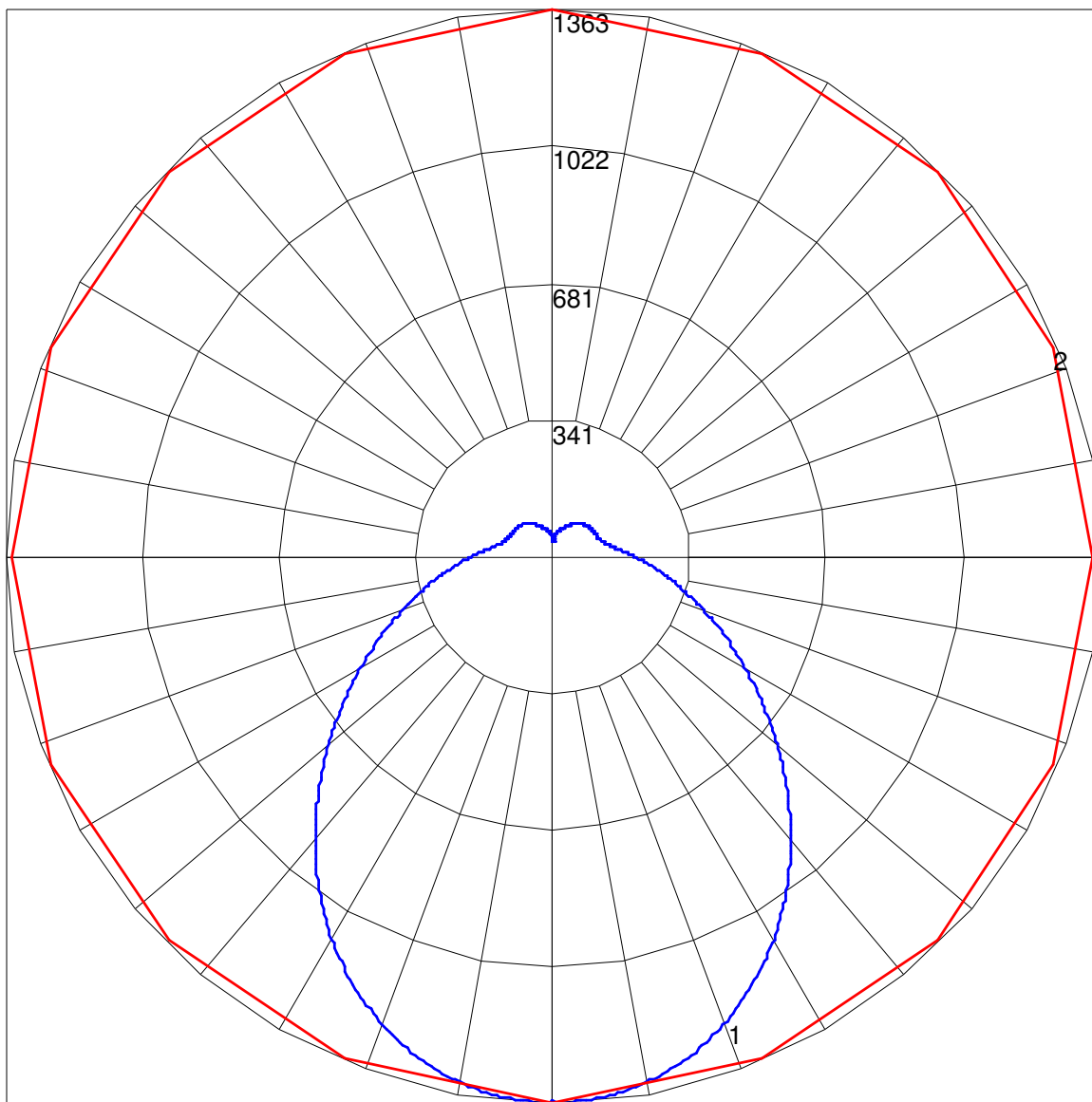
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 16.8 | 18.2 | 17.4 | 18.7 | 19.3 | 18.5 | 19.8 | 19.0 | 20.4 | 21.0 |
| | 3H | 18.2 | 19.4 | 18.7 | 20.0 | 20.6 | 20.7 | 21.9 | 21.2 | 22.5 | 23.1 |
| | 4H | 18.6 | 19.8 | 19.2 | 20.4 | 21.0 | 21.7 | 22.9 | 22.3 | 23.5 | 24.2 |
| | 6H | 18.9 | 20.0 | 19.5 | 20.6 | 21.3 | 22.9 | 23.9 | 23.5 | 24.5 | 25.2 |
| | 8H | 19.0 | 20.0 | 19.6 | 20.6 | 21.3 | 23.4 | 24.5 | 24.1 | 25.1 | 25.8 |
| | 12H | 19.0 | 20.0 | 19.6 | 20.6 | 21.3 | 24.1 | 25.1 | 24.7 | 25.7 | 26.4 |
| 4H | 2H | 17.5 | 18.7 | 18.1 | 19.3 | 20.0 | 18.9 | 20.0 | 19.5 | 20.6 | 21.3 |
| | 3H | 19.1 | 20.1 | 19.7 | 20.7 | 21.4 | 21.3 | 22.3 | 21.9 | 22.9 | 23.6 |
| | 4H | 19.7 | 20.6 | 20.3 | 21.2 | 22.0 | 22.6 | 23.4 | 23.2 | 24.1 | 24.8 |
| | 6H | 20.1 | 20.9 | 20.8 | 21.6 | 22.3 | 23.9 | 24.7 | 24.5 | 25.3 | 26.1 |
| | 8H | 20.2 | 21.0 | 20.9 | 21.6 | 22.4 | 24.6 | 25.3 | 25.2 | 26.0 | 26.7 |
| | 12H | 20.3 | 21.0 | 21.0 | 21.7 | 22.4 | 25.4 | 26.0 | 26.0 | 26.7 | 27.5 |
| 8H | 4H | 20.3 | 21.0 | 20.9 | 21.7 | 22.4 | 22.7 | 23.5 | 23.4 | 24.1 | 24.9 |
| | 6H | 20.9 | 21.5 | 21.5 | 22.2 | 22.9 | 24.2 | 24.9 | 24.9 | 25.6 | 26.3 |
| | 8H | 21.1 | 21.6 | 21.7 | 22.3 | 23.1 | 25.1 | 25.7 | 25.8 | 26.4 | 27.1 |
| | 12H | 21.2 | 21.7 | 21.9 | 22.4 | 23.2 | 26.1 | 26.6 | 26.8 | 27.3 | 28.1 |
| 12H | 4H | 20.4 | 21.1 | 21.1 | 21.8 | 22.5 | 22.7 | 23.4 | 23.4 | 24.1 | 24.9 |
| | 6H | 21.1 | 21.7 | 21.8 | 22.4 | 23.2 | 24.3 | 24.9 | 25.0 | 25.5 | 26.3 |
| | 8H | 21.4 | 21.9 | 22.1 | 22.6 | 23.4 | 25.2 | 25.7 | 25.9 | 26.4 | 27.2 |

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1362.8 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)