



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.06
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 30 JULY 2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2S-4-00-L8-935-F-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, frosted plastic lens
 [LAMP] 144 White LEDs
 [BALLAST] One Philips Advance XI040C110V054BST1

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2573 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 26.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.18 |
| Spacing Criterion (90-270) | 1.08 |
| Spacing Criterion (Diagonal) | 1.24 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 14411 | 13229 | 12191 |
| 55 | 12808 | 11556 | 10495 |
| 65 | 11098 | 9913 | 8993 |
| 75 | 9126 | 8375 | 7801 |
| 85 | 6752 | 7325 | 7356 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1136.849 | 1136.849 | 1136.849 | 1136.849 | 1136.849 |
| 0.5 | 1134.333 | 1136.849 | 1136.849 | 1136.010 | 1142.717 |
| 1.0 | 1134.333 | 1136.849 | 1136.010 | 1136.010 | 1142.717 |
| 1.5 | 1133.495 | 1136.849 | 1136.010 | 1135.172 | 1141.879 |
| 2.0 | 1132.657 | 1136.010 | 1135.172 | 1134.333 | 1141.041 |
| 2.5 | 1132.657 | 1136.010 | 1135.172 | 1133.495 | 1140.202 |
| 3.0 | 1131.818 | 1135.172 | 1134.333 | 1132.657 | 1138.525 |
| 3.5 | 1130.980 | 1134.333 | 1133.495 | 1131.818 | 1136.849 |
| 4.0 | 1129.303 | 1133.495 | 1132.657 | 1130.142 | 1136.010 |
| 4.5 | 1128.465 | 1131.818 | 1131.818 | 1129.303 | 1133.495 |
| 5.0 | 1126.788 | 1130.980 | 1130.142 | 1127.626 | 1132.657 |
| 5.5 | 1125.950 | 1129.303 | 1128.465 | 1125.950 | 1130.142 |
| 6.0 | 1124.273 | 1127.626 | 1126.788 | 1123.434 | 1128.465 |
| 6.5 | 1122.596 | 1125.950 | 1125.111 | 1120.919 | 1125.950 |
| 7.0 | 1120.081 | 1124.273 | 1122.596 | 1118.404 | 1123.434 |
| 7.5 | 1118.404 | 1121.758 | 1120.081 | 1115.889 | 1120.919 |
| 8.0 | 1115.889 | 1119.243 | 1117.566 | 1113.374 | 1118.404 |
| 8.5 | 1114.212 | 1117.566 | 1115.051 | 1110.020 | 1115.051 |
| 9.0 | 1111.697 | 1114.212 | 1111.697 | 1106.667 | 1110.859 |
| 9.5 | 1109.182 | 1111.697 | 1108.344 | 1102.475 | 1107.505 |
| 10.0 | 1105.828 | 1109.182 | 1104.990 | 1099.121 | 1103.313 |
| 10.5 | 1103.313 | 1105.828 | 1100.798 | 1094.929 | 1098.283 |
| 11.0 | 1099.960 | 1102.475 | 1097.445 | 1090.737 | 1094.091 |
| 11.5 | 1096.606 | 1099.121 | 1093.253 | 1085.707 | 1089.061 |
| 12.0 | 1093.253 | 1095.768 | 1089.061 | 1080.677 | 1083.192 |
| 12.5 | 1089.899 | 1092.414 | 1084.869 | 1075.647 | 1078.162 |
| 13.0 | 1086.546 | 1088.222 | 1080.677 | 1070.616 | 1072.293 |
| 13.5 | 1082.354 | 1084.869 | 1075.647 | 1064.748 | 1066.424 |
| 14.0 | 1079.000 | 1080.677 | 1070.616 | 1059.717 | 1060.556 |
| 14.5 | 1074.808 | 1076.485 | 1065.586 | 1053.849 | 1054.687 |
| 15.0 | 1070.616 | 1071.455 | 1060.556 | 1047.980 | 1048.818 |
| 15.5 | 1066.424 | 1067.263 | 1055.525 | 1041.273 | 1042.111 |
| 16.0 | 1062.232 | 1062.232 | 1049.657 | 1035.404 | 1035.404 |
| 16.5 | 1057.202 | 1058.040 | 1044.626 | 1028.697 | 1028.697 |
| 17.0 | 1052.172 | 1053.010 | 1038.758 | 1021.990 | 1021.990 |
| 17.5 | 1047.980 | 1047.980 | 1032.889 | 1015.283 | 1014.445 |
| 18.0 | 1042.950 | 1042.111 | 1026.182 | 1008.576 | 1007.737 |
| 18.5 | 1037.919 | 1037.081 | 1020.313 | 1001.030 | 1000.192 |
| 19.0 | 1032.051 | 1031.212 | 1013.606 | 994.323 | 992.647 |
| 19.5 | 1027.020 | 1025.344 | 1006.899 | 986.778 | 985.101 |
| 20.0 | 1021.152 | 1019.475 | 1000.192 | 979.232 | 977.556 |
| 20.5 | 1015.283 | 1013.606 | 993.485 | 971.687 | 969.172 |
| 21.0 | 1009.414 | 1007.737 | 985.939 | 964.141 | 961.626 |
| 21.5 | 1004.384 | 1001.869 | 979.232 | 956.596 | 953.243 |
| 22.0 | 997.677 | 995.162 | 971.687 | 948.212 | 944.859 |
| 22.5 | 991.808 | 988.455 | 964.141 | 940.667 | 936.475 |
| 23.0 | 985.939 | 981.748 | 957.434 | 932.283 | 928.091 |
| 23.5 | 979.232 | 975.040 | 949.889 | 923.899 | 919.707 |
| 24.0 | 972.525 | 968.333 | 942.344 | 915.515 | 911.323 |
| 24.5 | 966.657 | 960.788 | 933.960 | 907.131 | 902.101 |
| 25.0 | 959.950 | 954.081 | 926.414 | 898.748 | 893.717 |
| 25.5 | 952.404 | 946.535 | 918.030 | 890.364 | 884.495 |
| 26.0 | 945.697 | 938.990 | 910.485 | 881.980 | 876.111 |
| 26.5 | 938.152 | 931.445 | 902.101 | 872.758 | 866.889 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 27.0 | 931.445 | 923.899 | 894.556 | 863.535 | 858.505 |
| 27.5 | 923.899 | 916.354 | 886.172 | 855.152 | 849.283 |
| 28.0 | 916.354 | 908.808 | 877.788 | 845.929 | 840.061 |
| 28.5 | 908.808 | 901.263 | 869.404 | 837.629 | 831.341 |
| 29.0 | 902.101 | 892.879 | 861.020 | 828.742 | 822.203 |
| 29.5 | 893.717 | 885.333 | 852.636 | 819.939 | 813.065 |
| 30.0 | 886.172 | 876.950 | 844.253 | 810.969 | 803.926 |
| 30.5 | 878.626 | 869.404 | 835.282 | 802.250 | 794.788 |
| 31.0 | 871.081 | 861.020 | 826.647 | 793.363 | 785.650 |
| 31.5 | 863.535 | 852.636 | 817.927 | 784.560 | 776.679 |
| 32.0 | 855.152 | 844.253 | 809.292 | 775.673 | 767.540 |
| 32.5 | 847.606 | 836.372 | 800.573 | 766.702 | 758.402 |
| 33.0 | 839.222 | 827.988 | 791.854 | 757.815 | 749.348 |
| 33.5 | 831.425 | 819.688 | 783.134 | 748.677 | 740.209 |
| 34.0 | 823.209 | 811.220 | 774.415 | 739.622 | 731.238 |
| 34.5 | 815.077 | 802.836 | 765.612 | 730.568 | 722.268 |
| 35.0 | 806.693 | 794.285 | 756.893 | 721.513 | 713.213 |
| 35.5 | 798.309 | 785.733 | 748.258 | 712.459 | 704.326 |
| 36.0 | 789.925 | 777.098 | 739.538 | 703.404 | 695.188 |
| 36.5 | 781.290 | 768.463 | 730.735 | 694.433 | 686.301 |
| 37.0 | 772.571 | 759.827 | 721.849 | 685.463 | 677.247 |
| 37.5 | 764.019 | 750.940 | 713.129 | 676.576 | 668.276 |
| 38.0 | 755.384 | 742.221 | 704.326 | 667.521 | 659.389 |
| 38.5 | 746.497 | 733.418 | 695.439 | 658.634 | 650.502 |
| 39.0 | 737.694 | 724.783 | 686.636 | 649.831 | 641.448 |
| 39.5 | 729.059 | 715.896 | 677.750 | 641.028 | 632.561 |
| 40.0 | 720.172 | 707.177 | 668.947 | 632.141 | 623.758 |
| 40.5 | 711.536 | 698.374 | 660.143 | 623.338 | 614.787 |
| 41.0 | 702.817 | 689.571 | 651.340 | 614.619 | 605.732 |
| 41.5 | 694.014 | 680.852 | 642.537 | 605.816 | 596.762 |
| 42.0 | 685.295 | 672.049 | 633.651 | 597.181 | 587.959 |
| 42.5 | 676.660 | 663.329 | 624.848 | 588.462 | 579.072 |
| 43.0 | 667.940 | 654.442 | 616.212 | 579.659 | 570.269 |
| 43.5 | 659.305 | 645.639 | 607.325 | 570.856 | 561.298 |
| 44.0 | 650.418 | 636.669 | 598.606 | 562.136 | 552.663 |
| 44.5 | 641.615 | 627.866 | 589.803 | 553.501 | 543.943 |
| 45.0 | 632.980 | 618.979 | 581.084 | 544.866 | 535.476 |
| 45.5 | 624.261 | 610.008 | 572.365 | 536.147 | 526.840 |
| 46.0 | 615.374 | 601.037 | 563.646 | 527.595 | 518.289 |
| 46.5 | 606.487 | 592.234 | 554.842 | 519.127 | 509.905 |
| 47.0 | 597.600 | 583.264 | 546.123 | 510.660 | 501.521 |
| 47.5 | 588.546 | 574.544 | 537.404 | 502.276 | 493.221 |
| 48.0 | 579.575 | 565.574 | 528.936 | 493.976 | 485.089 |
| 48.5 | 570.688 | 556.771 | 520.301 | 485.760 | 476.873 |
| 49.0 | 561.633 | 547.884 | 511.666 | 477.543 | 468.824 |
| 49.5 | 552.747 | 539.081 | 503.114 | 469.327 | 460.776 |
| 50.0 | 543.692 | 530.446 | 494.563 | 461.279 | 452.727 |
| 50.5 | 534.973 | 521.726 | 486.179 | 453.230 | 444.679 |
| 51.0 | 526.002 | 513.091 | 477.711 | 445.266 | 436.798 |
| 51.5 | 517.199 | 504.539 | 469.327 | 437.301 | 428.750 |
| 52.0 | 508.312 | 495.904 | 460.943 | 429.336 | 420.869 |
| 52.5 | 499.593 | 487.353 | 452.643 | 421.456 | 412.904 |
| 53.0 | 490.790 | 478.885 | 444.343 | 413.491 | 405.023 |
| 53.5 | 482.071 | 470.333 | 436.127 | 405.694 | 397.142 |
| 54.0 | 473.435 | 461.698 | 427.995 | 397.813 | 389.345 |
| 54.5 | 464.884 | 453.147 | 419.863 | 390.100 | 381.632 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 456.332 | 444.679 | 411.730 | 382.303 | 373.919 |
| 55.5 | 447.781 | 436.295 | 403.850 | 374.758 | 366.374 |
| 56.0 | 439.229 | 427.827 | 395.885 | 367.128 | 358.828 |
| 56.5 | 430.678 | 419.360 | 387.836 | 359.499 | 351.367 |
| 57.0 | 422.126 | 410.976 | 379.956 | 352.037 | 344.157 |
| 57.5 | 413.659 | 402.676 | 372.075 | 344.576 | 336.946 |
| 58.0 | 405.275 | 394.376 | 364.194 | 337.450 | 329.820 |
| 58.5 | 396.891 | 386.076 | 356.397 | 330.239 | 322.862 |
| 59.0 | 388.423 | 377.860 | 348.684 | 323.029 | 315.903 |
| 59.5 | 380.039 | 369.811 | 340.971 | 315.903 | 308.944 |
| 60.0 | 371.656 | 361.679 | 333.258 | 308.861 | 301.986 |
| 60.5 | 363.272 | 353.630 | 325.628 | 301.986 | 295.195 |
| 61.0 | 355.056 | 345.833 | 318.083 | 295.111 | 288.404 |
| 61.5 | 346.923 | 337.953 | 310.705 | 288.236 | 281.697 |
| 62.0 | 338.791 | 330.072 | 303.160 | 281.445 | 275.074 |
| 62.5 | 330.575 | 322.191 | 295.866 | 274.822 | 268.367 |
| 63.0 | 322.610 | 314.478 | 288.572 | 268.115 | 261.827 |
| 63.5 | 314.645 | 306.765 | 281.362 | 261.492 | 255.288 |
| 64.0 | 306.849 | 299.052 | 274.319 | 254.869 | 248.832 |
| 64.5 | 299.052 | 291.338 | 267.361 | 248.413 | 242.377 |
| 65.0 | 291.338 | 283.793 | 260.234 | 242.041 | 236.089 |
| 65.5 | 283.625 | 276.164 | 253.276 | 235.670 | 229.717 |
| 66.0 | 275.912 | 268.534 | 246.485 | 229.130 | 223.513 |
| 66.5 | 268.199 | 260.989 | 239.694 | 222.926 | 217.477 |
| 67.0 | 260.654 | 253.527 | 232.903 | 216.638 | 211.357 |
| 67.5 | 253.192 | 246.150 | 226.196 | 210.602 | 205.488 |
| 68.0 | 245.479 | 238.772 | 219.489 | 204.482 | 199.703 |
| 68.5 | 238.017 | 231.394 | 212.950 | 198.529 | 193.918 |
| 69.0 | 230.472 | 224.184 | 206.410 | 192.661 | 188.217 |
| 69.5 | 223.010 | 216.974 | 199.871 | 186.876 | 182.432 |
| 70.0 | 215.549 | 209.764 | 193.415 | 181.091 | 177.234 |
| 70.5 | 208.171 | 202.805 | 187.127 | 175.809 | 171.953 |
| 71.0 | 200.877 | 195.846 | 180.839 | 170.527 | 166.503 |
| 71.5 | 193.834 | 189.056 | 175.222 | 164.994 | 161.137 |
| 72.0 | 186.792 | 182.097 | 169.102 | 159.544 | 155.856 |
| 72.5 | 179.666 | 175.558 | 163.066 | 154.179 | 150.406 |
| 73.0 | 173.378 | 169.270 | 157.113 | 148.729 | 145.208 |
| 73.5 | 166.503 | 162.730 | 151.244 | 143.447 | 139.926 |
| 74.0 | 159.796 | 156.191 | 145.460 | 138.166 | 135.147 |
| 74.5 | 153.173 | 149.819 | 139.842 | 133.555 | 130.453 |
| 75.0 | 146.717 | 143.447 | 134.644 | 128.440 | 125.422 |
| 75.5 | 140.178 | 137.243 | 129.279 | 123.242 | 120.476 |
| 76.0 | 134.393 | 131.459 | 123.829 | 118.212 | 115.613 |
| 76.5 | 128.021 | 125.255 | 118.380 | 113.182 | 110.834 |
| 77.0 | 121.817 | 119.134 | 113.098 | 108.235 | 106.056 |
| 77.5 | 115.613 | 113.182 | 107.900 | 103.457 | 101.444 |
| 78.0 | 109.493 | 107.313 | 102.786 | 98.594 | 96.917 |
| 78.5 | 103.457 | 101.528 | 97.672 | 93.899 | 92.390 |
| 79.0 | 97.588 | 95.911 | 92.725 | 89.288 | 87.946 |
| 79.5 | 91.803 | 90.294 | 87.779 | 84.761 | 83.503 |
| 80.0 | 86.102 | 84.928 | 82.916 | 80.317 | 79.227 |
| 80.5 | 80.485 | 79.730 | 78.221 | 75.958 | 75.035 |
| 81.0 | 75.035 | 74.532 | 73.526 | 71.682 | 70.843 |
| 81.5 | 69.754 | 69.586 | 68.999 | 67.490 | 66.735 |
| 82.0 | 64.556 | 64.723 | 64.472 | 63.298 | 62.711 |
| 82.5 | 59.525 | 59.944 | 60.112 | 59.274 | 58.687 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 83.0 | 54.579 | 55.333 | 55.836 | 55.249 | 54.746 |
| 83.5 | 49.884 | 50.806 | 51.644 | 51.393 | 50.890 |
| 84.0 | 45.273 | 46.446 | 47.536 | 47.536 | 47.117 |
| 84.5 | 40.829 | 42.255 | 43.512 | 43.764 | 43.428 |
| 85.0 | 36.554 | 38.063 | 39.656 | 40.075 | 39.823 |
| 85.5 | 32.445 | 34.038 | 35.799 | 36.386 | 36.218 |
| 86.0 | 28.505 | 30.182 | 32.110 | 32.865 | 32.781 |
| 86.5 | 24.648 | 26.325 | 28.505 | 29.343 | 29.427 |
| 87.0 | 20.960 | 22.636 | 24.984 | 26.074 | 26.158 |
| 87.5 | 17.355 | 19.031 | 21.546 | 22.804 | 22.972 |
| 88.0 | 13.749 | 15.594 | 18.193 | 18.696 | 18.444 |
| 88.5 | 10.396 | 12.324 | 14.420 | 14.923 | 14.923 |
| 89.0 | 8.216 | 9.977 | 12.073 | 12.827 | 12.911 |
| 89.5 | 6.372 | 8.216 | 10.061 | 10.983 | 11.234 |
| 90.0 | 4.527 | 6.539 | 8.384 | 9.222 | 9.474 |
| 90.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 111.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 139.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 405.13 | N.A. | 15.70 |
| 0-30 | 830.97 | N.A. | 32.30 |
| 0-40 | 1304.77 | N.A. | 50.70 |
| 0-60 | 2124.1 | N.A. | 82.50 |
| 0-80 | 2528.68 | N.A. | 98.30 |
| 0-90 | 2573.03 | N.A. | 100.00 |
| 10-90 | 2466.00 | N.A. | 95.80 |
| 20-40 | 899.64 | N.A. | 35.00 |
| 20-50 | 1348.82 | N.A. | 52.40 |
| 40-70 | 1079.76 | N.A. | 42.00 |
| 60-80 | 404.58 | N.A. | 15.70 |
| 70-80 | 144.15 | N.A. | 5.60 |
| 80-90 | 44.35 | N.A. | 1.70 |
| 90-110 | 0.21 | N.A. | 0.00 |
| 90-120 | 0.21 | N.A. | 0.00 |
| 90-130 | 0.21 | N.A. | 0.00 |
| 90-150 | 0.21 | N.A. | 0.00 |
| 90-180 | 0.21 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 2573.24 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 107.03 |
| 10-20 | 298.09 |
| 20-30 | 425.85 |
| 30-40 | 473.80 |
| 40-50 | 449.17 |
| 50-60 | 370.16 |
| 60-70 | 260.43 |
| 70-80 | 144.15 |
| 80-90 | 44.35 |
| 90-100 | 0.21 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 59 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 34 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-935-F-DIM-UNV_.IES

UGR TABLE - CORRECTED

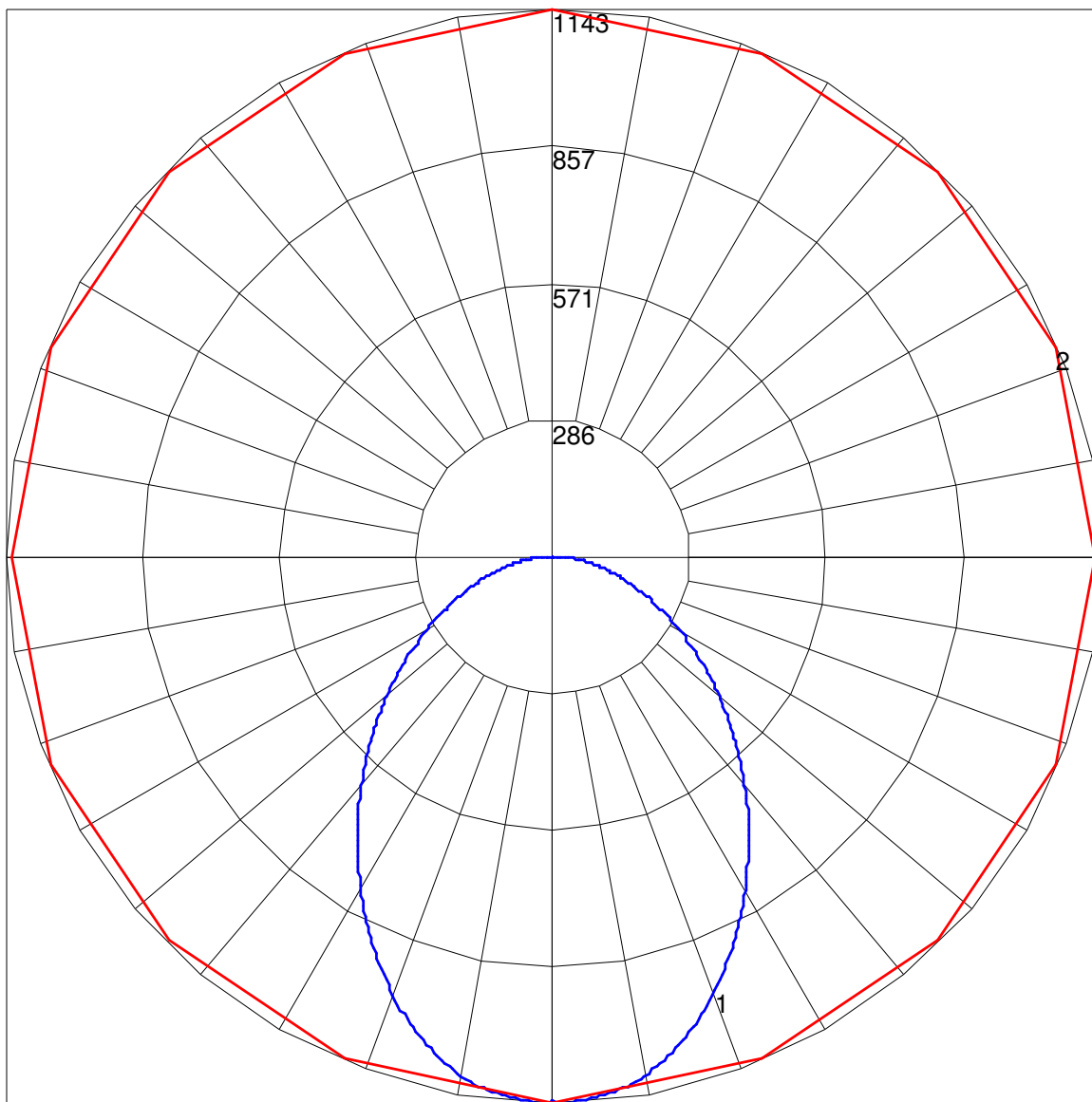
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 20.8 | 22.3 | 21.1 | 22.6 | 22.9 | 19.6 | 21.2 | 20.0 | 21.5 | 21.8 |
| | 3H | 22.4 | 23.8 | 22.7 | 24.1 | 24.5 | 21.2 | 22.6 | 21.6 | 22.9 | 23.3 |
| | 4H | 22.9 | 24.3 | 23.3 | 24.6 | 25.0 | 21.8 | 23.1 | 22.2 | 23.5 | 23.8 |
| | 6H | 23.4 | 24.6 | 23.8 | 25.0 | 25.4 | 22.3 | 23.5 | 22.7 | 23.9 | 24.3 |
| | 8H | 23.5 | 24.7 | 23.9 | 25.1 | 25.5 | 22.4 | 23.6 | 22.9 | 24.0 | 24.4 |
| | 12H | 23.6 | 24.7 | 24.0 | 25.1 | 25.5 | 22.6 | 23.7 | 23.0 | 24.1 | 24.5 |
| 4H | 2H | 21.2 | 22.5 | 21.6 | 22.9 | 23.2 | 20.3 | 21.6 | 20.7 | 21.9 | 22.3 |
| | 3H | 23.0 | 24.2 | 23.5 | 24.5 | 24.9 | 22.1 | 23.2 | 22.5 | 23.6 | 24.0 |
| | 4H | 23.8 | 24.8 | 24.2 | 25.2 | 25.6 | 22.8 | 23.8 | 23.2 | 24.2 | 24.6 |
| | 6H | 24.3 | 25.2 | 24.8 | 25.6 | 26.1 | 23.4 | 24.3 | 23.9 | 24.7 | 25.2 |
| | 8H | 24.5 | 25.3 | 25.0 | 25.8 | 26.2 | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 |
| | 12H | 24.6 | 25.4 | 25.1 | 25.8 | 26.3 | 23.8 | 24.5 | 24.3 | 25.0 | 25.5 |
| 8H | 4H | 24.0 | 24.8 | 24.4 | 25.2 | 25.7 | 23.1 | 23.9 | 23.6 | 24.4 | 24.8 |
| | 6H | 24.6 | 25.3 | 25.1 | 25.8 | 26.3 | 23.9 | 24.5 | 24.3 | 25.0 | 25.5 |
| | 8H | 24.9 | 25.5 | 25.4 | 26.0 | 26.5 | 24.1 | 24.8 | 24.7 | 25.3 | 25.8 |
| | 12H | 25.1 | 25.6 | 25.6 | 26.1 | 26.7 | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 |
| 12H | 4H | 24.0 | 24.7 | 24.5 | 25.2 | 25.7 | 23.2 | 23.9 | 23.6 | 24.4 | 24.8 |
| | 6H | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 | 23.9 | 24.5 | 24.4 | 25.0 | 25.5 |
| | 8H | 25.0 | 25.5 | 25.5 | 26.0 | 26.6 | 24.3 | 24.8 | 24.8 | 25.3 | 25.9 |

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1142.717 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.)