



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RG-4-00-L8-935-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13012869.02
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 31 MARCH 2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MX2RG-4-00-L8-935-F-DIM-UNV
[LUMINAIRE] Formed White aluminum housing, frosted plastic lens
[LAMP] 144 White LEDs

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2798 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 104 |
| Total Luminaire Watts | 27 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.10 |
| 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 | 15305 | 14201 | 13199 |
| 55 | 13693 | 12586 | 11565 |
| 65 | 12074 | 11049 | 10165 |
| 75 | 10020 | 9372 | 8740 |
| 85 | 7379 | 7940 | 7924 |

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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 | 1211.425 | 1211.425 | 1211.425 | 1211.425 | 1211.425 |
| 0.5 | 1209.688 | 1219.240 | 1209.688 | 1208.819 | 1207.083 |
| 1.0 | 1209.688 | 1219.240 | 1208.819 | 1208.819 | 1207.083 |
| 1.5 | 1209.688 | 1218.372 | 1208.819 | 1208.819 | 1206.214 |
| 2.0 | 1209.688 | 1218.372 | 1207.951 | 1207.951 | 1207.083 |
| 2.5 | 1208.819 | 1217.503 | 1207.083 | 1207.951 | 1206.214 |
| 3.0 | 1207.083 | 1216.635 | 1206.214 | 1207.083 | 1205.346 |
| 3.5 | 1207.083 | 1215.767 | 1205.346 | 1207.083 | 1204.477 |
| 4.0 | 1205.346 | 1214.898 | 1203.609 | 1205.346 | 1202.740 |
| 4.5 | 1204.477 | 1213.161 | 1202.740 | 1204.477 | 1201.004 |
| 5.0 | 1203.609 | 1211.425 | 1201.004 | 1202.740 | 1200.135 |
| 5.5 | 1201.872 | 1210.556 | 1199.267 | 1201.004 | 1198.398 |
| 6.0 | 1200.135 | 1208.819 | 1197.530 | 1199.267 | 1195.793 |
| 6.5 | 1198.398 | 1207.083 | 1195.793 | 1196.662 | 1194.056 |
| 7.0 | 1196.662 | 1204.477 | 1194.056 | 1194.925 | 1192.320 |
| 7.5 | 1194.056 | 1202.740 | 1191.451 | 1191.451 | 1189.714 |
| 8.0 | 1192.320 | 1200.135 | 1189.714 | 1188.846 | 1187.109 |
| 8.5 | 1189.714 | 1198.398 | 1187.109 | 1185.372 | 1183.636 |
| 9.0 | 1187.978 | 1195.793 | 1184.504 | 1182.767 | 1180.162 |
| 9.5 | 1185.372 | 1193.188 | 1181.899 | 1178.425 | 1176.688 |
| 10.0 | 1182.767 | 1189.714 | 1178.425 | 1174.952 | 1172.346 |
| 10.5 | 1180.162 | 1187.109 | 1175.820 | 1171.478 | 1168.004 |
| 11.0 | 1176.688 | 1184.504 | 1172.346 | 1167.136 | 1163.662 |
| 11.5 | 1173.215 | 1181.030 | 1168.873 | 1163.662 | 1158.452 |
| 12.0 | 1170.610 | 1177.557 | 1165.399 | 1158.452 | 1154.110 |
| 12.5 | 1167.136 | 1174.083 | 1161.057 | 1154.110 | 1148.031 |
| 13.0 | 1162.794 | 1170.610 | 1156.715 | 1148.899 | 1142.821 |
| 13.5 | 1160.189 | 1167.136 | 1151.505 | 1143.689 | 1137.610 |
| 14.0 | 1155.847 | 1162.794 | 1148.031 | 1138.479 | 1132.400 |
| 14.5 | 1151.505 | 1159.320 | 1142.821 | 1133.268 | 1126.321 |
| 15.0 | 1148.031 | 1154.110 | 1137.610 | 1127.189 | 1121.110 |
| 15.5 | 1143.689 | 1149.768 | 1132.400 | 1121.979 | 1115.032 |
| 16.0 | 1140.215 | 1145.426 | 1127.189 | 1115.900 | 1108.084 |
| 16.5 | 1135.873 | 1141.084 | 1121.979 | 1109.821 | 1102.006 |
| 17.0 | 1132.400 | 1136.742 | 1115.900 | 1103.742 | 1095.927 |
| 17.5 | 1127.189 | 1132.400 | 1109.821 | 1096.795 | 1088.979 |
| 18.0 | 1121.110 | 1128.058 | 1103.742 | 1089.848 | 1082.032 |
| 18.5 | 1115.900 | 1121.979 | 1097.664 | 1083.769 | 1075.085 |
| 19.0 | 1110.690 | 1116.768 | 1091.585 | 1076.822 | 1068.138 |
| 19.5 | 1104.611 | 1110.690 | 1084.637 | 1069.875 | 1060.322 |
| 20.0 | 1099.400 | 1104.611 | 1077.690 | 1062.059 | 1053.375 |
| 20.5 | 1093.322 | 1098.532 | 1071.611 | 1055.112 | 1045.559 |
| 21.0 | 1088.111 | 1092.453 | 1064.664 | 1047.296 | 1037.744 |
| 21.5 | 1082.901 | 1085.506 | 1057.717 | 1039.480 | 1029.928 |
| 22.0 | 1075.953 | 1079.427 | 1051.638 | 1030.796 | 1021.244 |
| 22.5 | 1069.875 | 1073.348 | 1043.822 | 1022.981 | 1012.560 |
| 23.0 | 1063.796 | 1066.401 | 1036.875 | 1014.297 | 1003.876 |
| 23.5 | 1057.717 | 1059.454 | 1029.928 | 1005.613 | 994.323 |
| 24.0 | 1050.770 | 1053.375 | 1022.112 | 996.929 | 985.639 |
| 24.5 | 1043.822 | 1046.428 | 1014.297 | 988.245 | 976.955 |
| 25.0 | 1036.875 | 1039.480 | 1006.481 | 979.560 | 968.271 |
| 25.5 | 1029.928 | 1031.665 | 997.797 | 970.876 | 959.587 |
| 26.0 | 1022.112 | 1024.718 | 989.113 | 962.192 | 950.035 |
| 26.5 | 1015.165 | 1016.902 | 981.297 | 952.640 | 941.351 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|---------|---------|---------|
| 27.0 | 1007.349 | 1009.086 | 972.613 | 943.956 | 931.798 |
| 27.5 | 999.534 | 1001.271 | 963.929 | 935.272 | 923.114 |
| 28.0 | 990.850 | 993.455 | 956.114 | 926.588 | 914.430 |
| 28.5 | 983.034 | 984.771 | 946.561 | 917.035 | 904.878 |
| 29.0 | 974.350 | 976.087 | 937.877 | 908.351 | 896.194 |
| 29.5 | 966.534 | 968.271 | 929.193 | 899.667 | 886.641 |
| 30.0 | 957.850 | 959.587 | 919.641 | 890.115 | 877.957 |
| 30.5 | 949.166 | 950.903 | 910.957 | 881.431 | 868.057 |
| 31.0 | 940.482 | 941.351 | 901.404 | 871.878 | 858.765 |
| 31.5 | 931.798 | 931.798 | 891.852 | 862.326 | 849.213 |
| 32.0 | 922.246 | 922.246 | 881.431 | 852.513 | 839.921 |
| 32.5 | 913.562 | 913.562 | 871.878 | 842.266 | 829.848 |
| 33.0 | 904.878 | 903.141 | 862.413 | 832.192 | 819.774 |
| 33.5 | 895.325 | 893.588 | 852.426 | 821.858 | 810.048 |
| 34.0 | 886.641 | 884.036 | 842.353 | 811.611 | 800.148 |
| 34.5 | 877.957 | 874.484 | 832.540 | 801.364 | 789.640 |
| 35.0 | 868.405 | 864.497 | 822.379 | 790.769 | 779.133 |
| 35.5 | 859.373 | 854.597 | 812.219 | 780.435 | 768.278 |
| 36.0 | 850.081 | 844.437 | 802.319 | 769.928 | 757.162 |
| 36.5 | 840.529 | 834.711 | 792.072 | 759.159 | 745.960 |
| 37.0 | 831.324 | 824.463 | 781.998 | 748.739 | 734.497 |
| 37.5 | 821.424 | 814.564 | 771.664 | 737.883 | 723.034 |
| 38.0 | 811.437 | 804.664 | 761.330 | 727.202 | 711.658 |
| 38.5 | 801.711 | 794.677 | 751.083 | 716.608 | 700.542 |
| 39.0 | 791.898 | 784.604 | 740.576 | 705.666 | 689.166 |
| 39.5 | 781.564 | 774.964 | 730.155 | 695.158 | 678.398 |
| 40.0 | 771.317 | 764.891 | 719.907 | 684.303 | 669.714 |
| 40.5 | 761.678 | 754.817 | 709.660 | 674.577 | 659.553 |
| 41.0 | 751.170 | 744.918 | 699.674 | 665.111 | 649.654 |
| 41.5 | 741.183 | 734.931 | 689.340 | 654.864 | 639.927 |
| 42.0 | 731.197 | 725.031 | 678.919 | 645.051 | 630.549 |
| 42.5 | 721.123 | 714.697 | 669.974 | 635.412 | 621.604 |
| 43.0 | 711.484 | 705.058 | 661.377 | 626.033 | 612.920 |
| 43.5 | 701.932 | 695.071 | 651.738 | 617.523 | 605.799 |
| 44.0 | 692.032 | 685.171 | 642.185 | 609.446 | 597.115 |
| 44.5 | 681.871 | 675.271 | 632.980 | 601.197 | 588.431 |
| 45.0 | 672.232 | 665.545 | 623.775 | 592.426 | 579.747 |
| 45.5 | 662.506 | 657.469 | 615.786 | 583.742 | 571.150 |
| 46.0 | 653.127 | 647.656 | 607.710 | 575.144 | 562.466 |
| 46.5 | 644.009 | 637.843 | 598.678 | 566.460 | 553.869 |
| 47.0 | 637.583 | 629.159 | 589.647 | 557.863 | 545.271 |
| 47.5 | 628.030 | 619.607 | 580.615 | 549.179 | 536.587 |
| 48.0 | 618.478 | 610.836 | 571.497 | 540.582 | 528.077 |
| 48.5 | 608.925 | 601.283 | 562.466 | 531.811 | 519.480 |
| 49.0 | 599.547 | 591.731 | 553.347 | 523.214 | 511.056 |
| 49.5 | 590.168 | 582.265 | 544.316 | 514.617 | 502.633 |
| 50.0 | 580.876 | 572.800 | 535.285 | 506.106 | 494.296 |
| 50.5 | 571.497 | 563.334 | 526.253 | 497.683 | 486.046 |
| 51.0 | 562.118 | 553.955 | 517.309 | 489.259 | 477.709 |
| 51.5 | 552.740 | 544.490 | 508.364 | 480.749 | 469.546 |
| 52.0 | 543.361 | 535.111 | 499.593 | 472.325 | 461.297 |
| 52.5 | 533.982 | 525.906 | 490.909 | 463.989 | 453.047 |
| 53.0 | 524.516 | 516.788 | 482.312 | 455.652 | 444.884 |
| 53.5 | 515.311 | 507.669 | 473.802 | 447.315 | 436.634 |
| 54.0 | 506.106 | 498.551 | 465.291 | 439.065 | 428.384 |
| 54.5 | 496.988 | 489.520 | 456.868 | 430.816 | 420.047 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 487.870 | 480.575 | 448.444 | 422.739 | 412.058 |
| 55.5 | 478.838 | 471.631 | 439.934 | 414.663 | 403.895 |
| 56.0 | 469.807 | 462.860 | 431.510 | 406.587 | 396.079 |
| 56.5 | 460.949 | 454.089 | 423.087 | 398.598 | 388.177 |
| 57.0 | 452.091 | 445.318 | 414.750 | 390.695 | 380.448 |
| 57.5 | 443.407 | 436.634 | 406.327 | 382.880 | 372.806 |
| 58.0 | 434.637 | 427.950 | 397.990 | 375.151 | 365.251 |
| 58.5 | 426.126 | 419.266 | 389.740 | 367.422 | 357.696 |
| 59.0 | 417.529 | 410.669 | 381.664 | 359.867 | 350.228 |
| 59.5 | 408.932 | 402.245 | 373.675 | 352.312 | 342.759 |
| 60.0 | 400.335 | 393.822 | 365.859 | 344.844 | 335.465 |
| 60.5 | 391.824 | 385.398 | 357.956 | 337.462 | 328.257 |
| 61.0 | 383.401 | 376.974 | 350.141 | 330.167 | 321.136 |
| 61.5 | 374.977 | 368.638 | 342.325 | 322.873 | 314.189 |
| 62.0 | 366.554 | 360.388 | 334.770 | 315.752 | 307.242 |
| 62.5 | 358.217 | 352.051 | 327.215 | 308.718 | 300.381 |
| 63.0 | 349.793 | 343.888 | 319.660 | 301.684 | 293.608 |
| 63.5 | 341.457 | 335.725 | 312.278 | 294.737 | 286.921 |
| 64.0 | 333.207 | 327.562 | 304.810 | 287.702 | 280.234 |
| 64.5 | 325.044 | 319.486 | 297.429 | 280.755 | 273.547 |
| 65.0 | 316.968 | 311.410 | 290.047 | 273.808 | 266.861 |
| 65.5 | 308.892 | 303.421 | 282.666 | 266.861 | 260.087 |
| 66.0 | 300.729 | 295.518 | 275.284 | 260.000 | 252.532 |
| 66.5 | 292.739 | 287.529 | 267.990 | 253.053 | 245.845 |
| 67.0 | 284.663 | 279.626 | 260.695 | 246.106 | 239.159 |
| 67.5 | 276.674 | 271.724 | 253.400 | 239.245 | 232.559 |
| 68.0 | 268.684 | 263.821 | 246.106 | 232.385 | 226.046 |
| 68.5 | 260.782 | 256.006 | 238.724 | 225.698 | 219.446 |
| 69.0 | 252.879 | 248.103 | 231.517 | 218.925 | 213.020 |
| 69.5 | 244.890 | 240.288 | 224.309 | 212.325 | 206.593 |
| 70.0 | 236.988 | 232.559 | 217.275 | 205.725 | 200.254 |
| 70.5 | 229.172 | 224.917 | 210.241 | 199.299 | 194.002 |
| 71.0 | 221.270 | 217.101 | 203.467 | 192.873 | 187.836 |
| 71.5 | 213.541 | 209.546 | 196.607 | 186.533 | 181.670 |
| 72.0 | 205.899 | 201.991 | 189.833 | 180.281 | 175.678 |
| 72.5 | 198.257 | 194.609 | 183.147 | 174.115 | 169.599 |
| 73.0 | 190.789 | 187.315 | 176.547 | 167.949 | 163.694 |
| 73.5 | 183.147 | 180.020 | 169.947 | 161.957 | 157.789 |
| 74.0 | 175.678 | 172.899 | 163.434 | 155.879 | 151.971 |
| 74.5 | 168.384 | 165.778 | 157.008 | 149.973 | 146.239 |
| 75.0 | 161.089 | 158.918 | 150.668 | 144.068 | 140.508 |
| 75.5 | 153.881 | 151.971 | 144.416 | 138.250 | 134.863 |
| 76.0 | 146.847 | 145.110 | 138.250 | 132.519 | 129.479 |
| 76.5 | 139.900 | 138.337 | 132.171 | 126.874 | 124.008 |
| 77.0 | 133.040 | 131.737 | 126.092 | 121.316 | 118.537 |
| 77.5 | 126.266 | 125.224 | 120.187 | 115.845 | 113.327 |
| 78.0 | 119.579 | 118.798 | 114.282 | 110.461 | 108.203 |
| 78.5 | 113.066 | 112.458 | 108.637 | 105.164 | 103.080 |
| 79.0 | 106.640 | 106.293 | 103.080 | 99.953 | 98.043 |
| 79.5 | 100.388 | 100.214 | 97.522 | 94.830 | 93.093 |
| 80.0 | 94.222 | 94.222 | 92.138 | 89.793 | 88.143 |
| 80.5 | 88.230 | 88.404 | 86.840 | 84.843 | 83.367 |
| 81.0 | 82.238 | 82.672 | 81.630 | 79.893 | 78.591 |
| 81.5 | 76.506 | 77.027 | 76.506 | 75.030 | 73.901 |
| 82.0 | 70.862 | 71.557 | 71.470 | 70.254 | 69.299 |
| 82.5 | 65.304 | 66.172 | 66.433 | 65.565 | 64.696 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 83.0 | 60.007 | 60.875 | 61.483 | 60.962 | 60.267 |
| 83.5 | 54.796 | 55.838 | 56.707 | 56.446 | 55.838 |
| 84.0 | 49.673 | 50.802 | 52.017 | 51.931 | 51.496 |
| 84.5 | 44.723 | 46.025 | 47.415 | 47.589 | 47.154 |
| 85.0 | 39.947 | 41.336 | 42.986 | 43.333 | 42.899 |
| 85.5 | 35.344 | 36.907 | 38.644 | 39.078 | 38.731 |
| 86.0 | 30.828 | 32.478 | 34.302 | 34.997 | 34.736 |
| 86.5 | 26.573 | 28.223 | 30.134 | 30.915 | 30.655 |
| 87.0 | 22.405 | 24.055 | 25.965 | 26.921 | 26.747 |
| 87.5 | 18.410 | 20.060 | 21.971 | 23.100 | 23.013 |
| 88.0 | 14.502 | 16.152 | 18.150 | 19.452 | 19.539 |
| 88.5 | 10.595 | 12.331 | 14.502 | 15.979 | 16.152 |
| 89.0 | 6.687 | 8.597 | 10.855 | 12.505 | 12.505 |
| 89.5 | 2.953 | 5.297 | 7.468 | 8.945 | 9.031 |
| 90.0 | 0.521 | 2.605 | 4.950 | 6.600 | 7.121 |
| 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 |

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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 : MX2RG-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 : MX2RG-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 : MX2RG-4-00-L8-935-F-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 434.67 | N.A. | 15.50 |
| 0-30 | 897.52 | N.A. | 32.10 |
| 0-40 | 1412.68 | N.A. | 50.50 |
| 0-60 | 2300.47 | N.A. | 82.20 |
| 0-80 | 2750.28 | N.A. | 98.30 |
| 0-90 | 2798.3 | N.A. | 100.00 |
| 10-90 | 2684.1 | N.A. | 95.90 |
| 20-40 | 978.01 | N.A. | 34.90 |
| 20-50 | 1462.5 | N.A. | 52.30 |
| 40-70 | 1176.83 | N.A. | 42.10 |
| 60-80 | 449.81 | N.A. | 16.10 |
| 70-80 | 160.77 | N.A. | 5.70 |
| 80-90 | 48.02 | N.A. | 1.70 |
| 90-110 | 0.12 | N.A. | 0.00 |
| 90-120 | 0.12 | N.A. | 0.00 |
| 90-130 | 0.12 | N.A. | 0.00 |
| 90-150 | 0.12 | N.A. | 0.00 |
| 90-180 | 0.12 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 2798.43 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 114.20 |
| 10-20 | 320.46 |
| 20-30 | 462.85 |
| 30-40 | 515.17 |
| 40-50 | 484.48 |
| 50-60 | 403.31 |
| 60-70 | 289.04 |
| 70-80 | 160.77 |
| 80-90 | 48.02 |
| 90-100 | 0.12 |
| 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 : MX2RG-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 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 61 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 59 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 35 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2RG-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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 21.0 | 22.6 | 21.4 | 22.9 | 23.2 | 20.1 | 21.6 | 20.4 | 21.9 | 22.3 |
| | 3H | 22.7 | 24.1 | 23.1 | 24.4 | 24.8 | 21.7 | 23.1 | 22.1 | 23.4 | 23.8 |
| | 4H | 23.3 | 24.6 | 23.7 | 25.0 | 25.3 | 22.3 | 23.6 | 22.7 | 24.0 | 24.4 |
| | 6H | 23.7 | 24.9 | 24.1 | 25.3 | 25.7 | 22.8 | 24.0 | 23.2 | 24.4 | 24.8 |
| | 8H | 23.8 | 25.0 | 24.3 | 25.4 | 25.8 | 23.0 | 24.1 | 23.4 | 24.5 | 24.9 |
| | 12H | 23.9 | 25.0 | 24.3 | 25.4 | 25.9 | 23.1 | 24.2 | 23.5 | 24.6 | 25.0 |

UGR Viewed Endwise

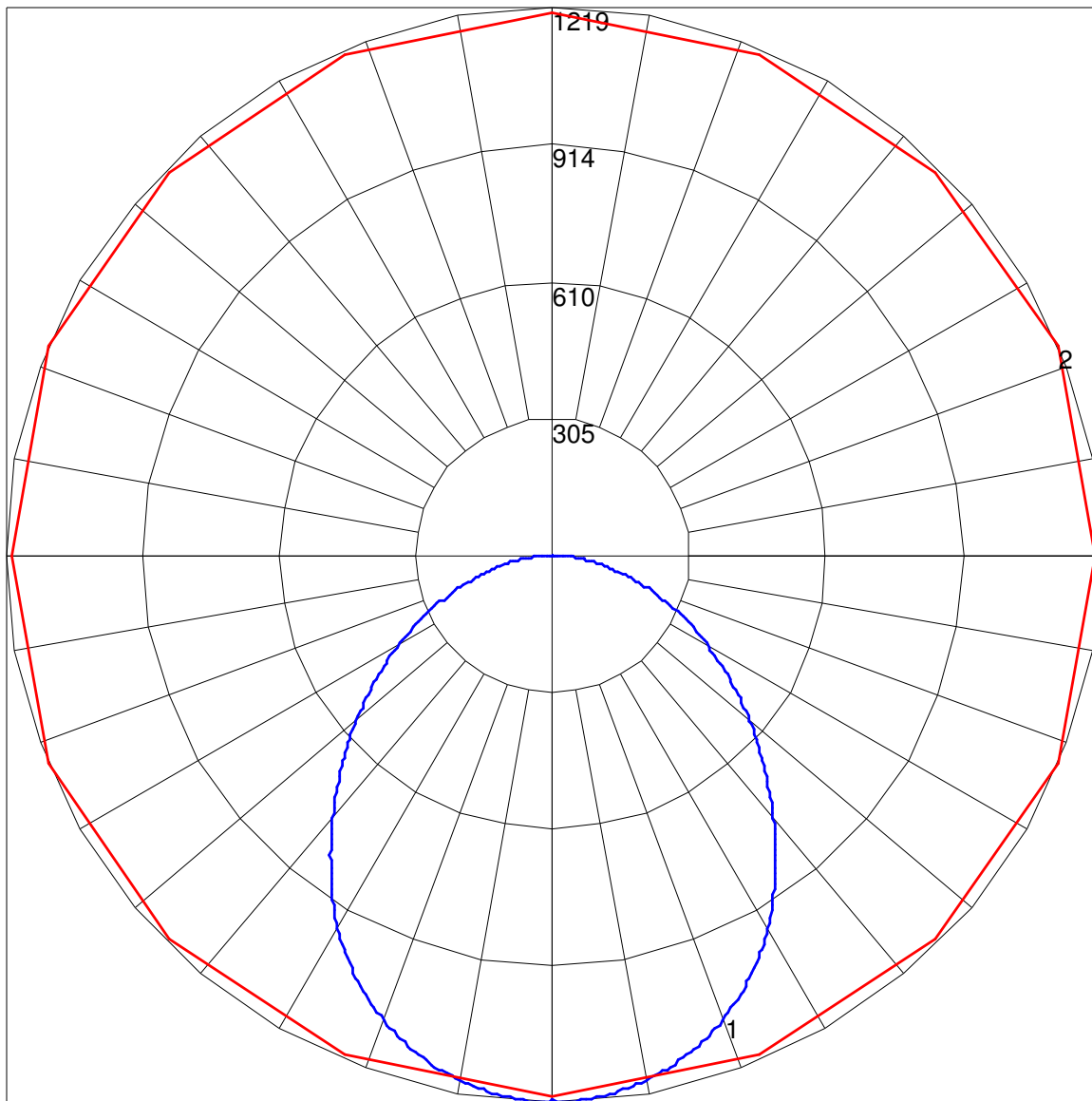
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 21.5 | 22.8 | 21.9 | 23.2 | 23.6 | 20.7 | 22.1 | 21.1 | 22.4 | 22.8 |
| | 3H | 23.4 | 24.5 | 23.8 | 24.9 | 25.3 | 22.6 | 23.7 | 23.0 | 24.1 | 24.5 |
| | 4H | 24.1 | 25.1 | 24.6 | 25.5 | 26.0 | 23.3 | 24.3 | 23.7 | 24.7 | 25.2 |
| | 6H | 24.7 | 25.6 | 25.1 | 26.0 | 26.5 | 23.9 | 24.8 | 24.4 | 25.2 | 25.7 |
| | 8H | 24.9 | 25.7 | 25.3 | 26.1 | 26.6 | 24.1 | 24.9 | 24.6 | 25.4 | 25.9 |
| | 12H | 25.0 | 25.7 | 25.5 | 26.2 | 26.7 | 24.3 | 25.0 | 24.8 | 25.5 | 26.0 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 24.4 | 25.2 | 24.8 | 25.6 | 26.1 | 23.6 | 24.5 | 24.1 | 24.9 | 25.4 |
| | 6H | 25.0 | 25.7 | 25.5 | 26.2 | 26.7 | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 |
| | 8H | 25.3 | 25.9 | 25.8 | 26.4 | 26.9 | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 |
| | 12H | 25.5 | 26.0 | 26.0 | 26.5 | 27.1 | 24.9 | 25.5 | 25.4 | 26.0 | 26.5 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 | 23.7 | 24.4 | 24.2 | 24.9 | 25.4 |
| | 6H | 25.1 | 25.7 | 25.6 | 26.2 | 26.7 | 24.4 | 25.1 | 25.0 | 25.5 | 26.1 |
| | 8H | 25.4 | 25.9 | 25.9 | 26.4 | 27.0 | 24.8 | 25.3 | 25.3 | 25.8 | 26.4 |

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 1219.24 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)