

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-14-L40-850-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15060098.02

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 29 Nov, 2023

[TEST DATE] 11/21/2023

[MANUFAC] H E Williams Inc

[LUMCAT] APC-14-L40-850-DIM-UNV

[LUMINAIRE] White Recessed 1 X 4 Luminaire with arched center and center

[MORE] fin media

[LAMP] 168 LEDs

[BALLAST] Advance/ Signify 49w Certadrive X C1049C102V048CDX1

[OTHER] 25.6 C, 120.019 V, 0.370958 A, 44.1298 W, 0.99119 PF, 59.9697

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[OTHER] The reported results were measured in a facility that meets th

[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de

[MORE] tectable uplight as defined by ANSI/IES LM-75-19

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3642 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 120 |
| Total Luminaire Watts | 30.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.81 ft |
| Luminous Width (90-270) | 0.87 ft |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4318 | 3925 | 3782 |
| 55 | 4184 | 3616 | 3396 |
| 65 | 4002 | 3190 | 2707 |
| 75 | 3723 | 2138 | 1693 |
| 85 | 2988 | 840 | 668 |

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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 | 1411.319 | 1411.319 | 1411.319 | 1411.319 | 1411.319 |
| 0.5 | 1416.505 | 1412.801 | 1407.615 | 1412.060 | 1416.505 |
| 1.0 | 1417.987 | 1411.319 | 1406.874 | 1412.060 | 1417.246 |
| 1.5 | 1417.987 | 1412.060 | 1404.652 | 1409.837 | 1417.246 |
| 2.0 | 1415.023 | 1409.837 | 1406.133 | 1409.837 | 1415.764 |
| 2.5 | 1416.505 | 1408.356 | 1403.911 | 1409.837 | 1412.060 |
| 3.0 | 1415.764 | 1409.097 | 1403.911 | 1408.356 | 1412.060 |
| 3.5 | 1414.283 | 1408.356 | 1402.429 | 1408.356 | 1412.060 |
| 4.0 | 1414.283 | 1406.133 | 1401.688 | 1406.133 | 1409.097 |
| 4.5 | 1414.283 | 1406.133 | 1399.466 | 1403.911 | 1408.356 |
| 5.0 | 1412.060 | 1403.911 | 1398.725 | 1403.911 | 1407.615 |
| 5.5 | 1410.578 | 1403.170 | 1398.725 | 1403.911 | 1405.392 |
| 6.0 | 1410.578 | 1403.170 | 1395.020 | 1400.206 | 1403.170 |
| 6.5 | 1407.615 | 1400.206 | 1393.539 | 1399.466 | 1400.947 |
| 7.0 | 1403.170 | 1397.243 | 1392.057 | 1397.243 | 1400.947 |
| 7.5 | 1402.429 | 1395.020 | 1387.612 | 1393.539 | 1397.243 |
| 8.0 | 1401.688 | 1391.316 | 1385.389 | 1390.575 | 1394.280 |
| 8.5 | 1396.502 | 1390.575 | 1384.649 | 1388.353 | 1392.057 |
| 9.0 | 1395.761 | 1388.353 | 1381.685 | 1386.130 | 1390.575 |
| 9.5 | 1393.539 | 1384.649 | 1378.722 | 1383.167 | 1387.612 |
| 10.0 | 1388.353 | 1382.426 | 1377.240 | 1380.203 | 1382.426 |
| 10.5 | 1386.130 | 1379.463 | 1373.536 | 1375.758 | 1379.463 |
| 11.0 | 1385.389 | 1376.499 | 1369.832 | 1373.536 | 1377.240 |
| 11.5 | 1380.944 | 1372.054 | 1366.127 | 1369.832 | 1370.572 |
| 12.0 | 1377.240 | 1368.350 | 1362.423 | 1366.127 | 1369.091 |
| 12.5 | 1373.536 | 1365.386 | 1359.460 | 1362.423 | 1365.386 |
| 13.0 | 1367.609 | 1361.682 | 1355.755 | 1357.237 | 1360.201 |
| 13.5 | 1364.646 | 1358.719 | 1352.051 | 1352.792 | 1354.274 |
| 14.0 | 1363.164 | 1355.015 | 1346.865 | 1347.606 | 1349.088 |
| 14.5 | 1361.682 | 1352.792 | 1343.161 | 1341.679 | 1343.902 |
| 15.0 | 1356.496 | 1348.347 | 1337.975 | 1337.234 | 1339.457 |
| 15.5 | 1352.792 | 1343.902 | 1332.048 | 1331.307 | 1332.789 |
| 16.0 | 1348.347 | 1340.938 | 1327.603 | 1324.640 | 1326.862 |
| 16.5 | 1342.420 | 1335.752 | 1323.158 | 1317.972 | 1320.935 |
| 17.0 | 1337.975 | 1329.085 | 1318.713 | 1313.527 | 1315.750 |
| 17.5 | 1334.271 | 1323.899 | 1312.045 | 1306.859 | 1309.823 |
| 18.0 | 1330.567 | 1320.935 | 1305.378 | 1299.451 | 1302.414 |
| 18.5 | 1325.381 | 1315.009 | 1300.933 | 1293.524 | 1293.524 |
| 19.0 | 1320.195 | 1311.304 | 1295.006 | 1288.338 | 1287.597 |
| 19.5 | 1317.231 | 1306.859 | 1288.338 | 1280.930 | 1280.189 |
| 20.0 | 1309.823 | 1300.192 | 1281.670 | 1272.780 | 1272.039 |
| 20.5 | 1306.859 | 1295.006 | 1274.262 | 1266.113 | 1265.372 |
| 21.0 | 1299.451 | 1290.561 | 1269.076 | 1258.704 | 1257.963 |
| 21.5 | 1295.747 | 1283.152 | 1263.890 | 1251.296 | 1250.555 |
| 22.0 | 1289.820 | 1279.448 | 1257.222 | 1244.628 | 1243.887 |
| 22.5 | 1281.670 | 1269.817 | 1249.814 | 1237.219 | 1236.479 |
| 23.0 | 1276.485 | 1263.890 | 1242.405 | 1229.070 | 1230.552 |
| 23.5 | 1270.558 | 1259.445 | 1235.738 | 1222.402 | 1223.143 |
| 24.0 | 1265.372 | 1252.777 | 1227.588 | 1215.735 | 1212.031 |
| 24.5 | 1257.963 | 1247.591 | 1220.180 | 1208.326 | 1204.622 |
| 25.0 | 1253.518 | 1239.442 | 1212.771 | 1200.177 | 1197.214 |
| 25.5 | 1248.332 | 1234.256 | 1205.363 | 1192.028 | 1191.287 |
| 26.0 | 1242.405 | 1228.329 | 1197.214 | 1185.360 | 1183.878 |
| 26.5 | 1234.997 | 1220.180 | 1189.064 | 1175.729 | 1176.470 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1229.070 | 1212.771 | 1180.915 | 1169.061 | 1168.320 |
| 27.5 | 1219.439 | 1206.104 | 1174.247 | 1161.653 | 1160.171 |
| 28.0 | 1213.512 | 1199.436 | 1166.839 | 1152.022 | 1151.281 |
| 28.5 | 1208.326 | 1192.768 | 1158.689 | 1143.872 | 1142.391 |
| 29.0 | 1200.918 | 1184.619 | 1151.281 | 1136.464 | 1134.241 |
| 29.5 | 1192.028 | 1177.211 | 1142.391 | 1126.833 | 1125.351 |
| 30.0 | 1186.842 | 1169.802 | 1134.241 | 1117.943 | 1116.461 |
| 30.5 | 1177.951 | 1160.912 | 1126.092 | 1109.793 | 1106.830 |
| 31.0 | 1173.506 | 1152.022 | 1117.943 | 1100.903 | 1097.940 |
| 31.5 | 1165.357 | 1144.613 | 1108.312 | 1092.754 | 1089.049 |
| 32.0 | 1157.208 | 1136.464 | 1099.421 | 1083.864 | 1079.418 |
| 32.5 | 1152.022 | 1129.055 | 1090.531 | 1074.973 | 1071.269 |
| 33.0 | 1141.650 | 1121.647 | 1083.123 | 1064.601 | 1060.897 |
| 33.5 | 1134.982 | 1112.016 | 1074.232 | 1056.452 | 1051.266 |
| 34.0 | 1128.315 | 1103.866 | 1064.601 | 1046.821 | 1041.635 |
| 34.5 | 1118.683 | 1094.976 | 1056.452 | 1037.931 | 1032.004 |
| 35.0 | 1110.534 | 1087.568 | 1046.080 | 1027.559 | 1022.373 |
| 35.5 | 1104.607 | 1079.418 | 1038.672 | 1018.669 | 1014.224 |
| 36.0 | 1094.976 | 1069.047 | 1028.300 | 1009.038 | 1005.333 |
| 36.5 | 1086.086 | 1060.897 | 1018.669 | 999.407 | 994.221 |
| 37.0 | 1079.418 | 1052.007 | 1009.038 | 989.776 | 986.071 |
| 37.5 | 1070.528 | 1042.376 | 999.407 | 979.404 | 976.440 |
| 38.0 | 1060.897 | 1032.745 | 989.776 | 969.032 | 965.328 |
| 38.5 | 1052.007 | 1023.114 | 980.145 | 960.142 | 956.437 |
| 39.0 | 1043.858 | 1014.964 | 971.254 | 949.770 | 946.806 |
| 39.5 | 1034.227 | 1006.074 | 963.105 | 939.398 | 936.434 |
| 40.0 | 1026.818 | 997.925 | 951.992 | 929.767 | 925.322 |
| 40.5 | 1016.446 | 987.553 | 941.620 | 920.136 | 914.209 |
| 41.0 | 1008.297 | 977.181 | 931.248 | 909.764 | 903.837 |
| 41.5 | 999.407 | 967.550 | 922.358 | 900.133 | 894.206 |
| 42.0 | 990.516 | 957.919 | 912.727 | 888.279 | 883.834 |
| 42.5 | 981.626 | 948.288 | 901.614 | 877.907 | 873.462 |
| 43.0 | 971.995 | 937.916 | 891.243 | 867.535 | 862.349 |
| 43.5 | 963.846 | 926.803 | 880.871 | 857.163 | 851.237 |
| 44.0 | 955.696 | 917.172 | 871.240 | 847.532 | 841.606 |
| 44.5 | 945.325 | 908.282 | 860.127 | 837.901 | 831.234 |
| 45.0 | 936.434 | 897.910 | 851.237 | 827.529 | 820.121 |
| 45.5 | 927.544 | 889.020 | 840.865 | 815.676 | 807.526 |
| 46.0 | 917.172 | 877.907 | 830.493 | 803.822 | 797.155 |
| 46.5 | 907.541 | 869.017 | 820.862 | 793.450 | 787.524 |
| 47.0 | 897.910 | 858.645 | 810.490 | 783.078 | 774.929 |
| 47.5 | 888.279 | 848.273 | 798.636 | 771.966 | 764.557 |
| 48.0 | 877.907 | 837.160 | 789.005 | 761.594 | 754.185 |
| 48.5 | 869.017 | 828.270 | 777.892 | 750.481 | 741.591 |
| 49.0 | 858.645 | 817.898 | 766.780 | 739.072 | 730.923 |
| 49.5 | 849.014 | 806.045 | 755.667 | 727.885 | 719.439 |
| 50.0 | 838.642 | 796.414 | 745.295 | 716.995 | 708.919 |
| 50.5 | 829.011 | 785.301 | 735.220 | 706.252 | 698.029 |
| 51.0 | 817.898 | 774.929 | 724.551 | 695.214 | 686.175 |
| 51.5 | 807.526 | 764.557 | 713.364 | 684.842 | 675.507 |
| 52.0 | 797.895 | 753.444 | 702.844 | 673.433 | 664.913 |
| 52.5 | 789.005 | 742.332 | 691.880 | 662.320 | 653.800 |
| 53.0 | 777.892 | 731.738 | 680.100 | 651.355 | 642.317 |
| 53.5 | 767.521 | 720.847 | 669.432 | 639.724 | 630.241 |
| 54.0 | 757.890 | 710.327 | 657.801 | 628.685 | 618.536 |
| 54.5 | 746.036 | 699.881 | 646.762 | 617.202 | 608.238 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 736.034 | 688.398 | 636.094 | 606.386 | 597.496 |
| 55.5 | 725.588 | 678.100 | 625.203 | 594.680 | 585.197 |
| 56.0 | 714.698 | 667.580 | 614.387 | 583.864 | 573.418 |
| 56.5 | 702.993 | 655.949 | 603.496 | 572.529 | 561.342 |
| 57.0 | 693.065 | 644.984 | 592.754 | 560.527 | 550.600 |
| 57.5 | 683.805 | 634.019 | 581.271 | 549.340 | 538.746 |
| 58.0 | 672.914 | 623.055 | 569.714 | 537.635 | 525.707 |
| 58.5 | 660.912 | 611.720 | 558.527 | 526.003 | 514.150 |
| 59.0 | 649.874 | 600.681 | 546.970 | 514.372 | 500.963 |
| 59.5 | 638.539 | 589.346 | 535.931 | 502.815 | 488.368 |
| 60.0 | 628.093 | 578.159 | 524.448 | 490.295 | 476.292 |
| 60.5 | 617.573 | 567.195 | 513.705 | 478.515 | 463.698 |
| 61.0 | 605.941 | 555.786 | 502.148 | 465.550 | 450.733 |
| 61.5 | 594.977 | 544.451 | 491.184 | 452.659 | 438.509 |
| 62.0 | 583.938 | 533.042 | 480.293 | 440.435 | 426.952 |
| 62.5 | 572.307 | 522.447 | 468.736 | 428.878 | 413.394 |
| 63.0 | 561.638 | 511.112 | 457.401 | 416.654 | 400.948 |
| 63.5 | 550.896 | 499.926 | 445.695 | 405.393 | 389.465 |
| 64.0 | 540.228 | 488.368 | 434.731 | 392.799 | 376.870 |
| 64.5 | 529.634 | 476.737 | 424.063 | 379.537 | 364.128 |
| 65.0 | 518.743 | 465.550 | 413.542 | 366.795 | 350.941 |
| 65.5 | 506.890 | 454.586 | 402.948 | 354.052 | 337.383 |
| 66.0 | 495.258 | 443.769 | 390.872 | 341.235 | 323.974 |
| 66.5 | 484.442 | 432.805 | 378.797 | 328.715 | 310.861 |
| 67.0 | 473.403 | 422.284 | 366.647 | 315.676 | 298.192 |
| 67.5 | 462.809 | 411.987 | 354.126 | 303.156 | 285.079 |
| 68.0 | 450.585 | 400.578 | 342.050 | 290.413 | 272.485 |
| 68.5 | 439.250 | 389.613 | 331.086 | 277.448 | 259.223 |
| 69.0 | 428.582 | 378.278 | 318.936 | 264.706 | 245.888 |
| 69.5 | 418.432 | 367.313 | 305.452 | 251.741 | 232.775 |
| 70.0 | 408.282 | 356.275 | 292.562 | 238.998 | 219.440 |
| 70.5 | 397.985 | 345.088 | 280.634 | 226.404 | 208.623 |
| 71.0 | 385.612 | 334.420 | 268.484 | 213.068 | 199.733 |
| 71.5 | 374.129 | 322.937 | 255.964 | 199.955 | 191.213 |
| 72.0 | 363.757 | 311.305 | 243.591 | 189.954 | 182.842 |
| 72.5 | 352.126 | 300.415 | 230.923 | 181.805 | 174.470 |
| 73.0 | 340.421 | 288.709 | 218.773 | 173.285 | 166.543 |
| 73.5 | 329.234 | 277.596 | 206.845 | 165.135 | 158.394 |
| 74.0 | 317.825 | 266.928 | 194.844 | 156.838 | 150.096 |
| 74.5 | 306.564 | 255.519 | 182.249 | 148.540 | 142.021 |
| 75.0 | 295.525 | 244.480 | 169.729 | 140.391 | 134.390 |
| 75.5 | 284.709 | 234.331 | 157.431 | 132.242 | 126.537 |
| 76.0 | 273.966 | 223.366 | 146.762 | 124.611 | 118.684 |
| 76.5 | 262.557 | 211.957 | 138.317 | 116.980 | 111.350 |
| 77.0 | 251.519 | 200.104 | 130.019 | 109.572 | 103.941 |
| 77.5 | 240.850 | 188.620 | 121.796 | 102.163 | 96.903 |
| 78.0 | 229.738 | 177.063 | 113.943 | 94.681 | 89.643 |
| 78.5 | 219.069 | 166.024 | 105.942 | 87.198 | 82.234 |
| 79.0 | 208.105 | 153.578 | 98.237 | 80.012 | 74.974 |
| 79.5 | 197.066 | 141.651 | 90.754 | 73.048 | 67.788 |
| 80.0 | 186.398 | 130.241 | 83.420 | 66.158 | 60.898 |
| 80.5 | 175.656 | 118.906 | 76.308 | 59.268 | 54.378 |
| 81.0 | 165.135 | 107.720 | 69.047 | 52.674 | 48.081 |
| 81.5 | 154.764 | 96.385 | 62.231 | 46.377 | 42.451 |
| 82.0 | 143.799 | 85.124 | 55.416 | 41.414 | 38.080 |
| 82.5 | 132.983 | 74.974 | 48.526 | 36.005 | 34.375 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|--------|--------|--------|--------|
| 83.0 | 122.611 | 66.528 | 41.784 | 32.079 | 30.745 |
| 83.5 | 111.942 | 58.749 | 35.561 | 28.375 | 26.671 |
| 84.0 | 101.274 | 51.415 | 30.375 | 24.374 | 23.189 |
| 84.5 | 90.680 | 44.525 | 26.374 | 20.966 | 20.373 |
| 85.0 | 79.864 | 38.080 | 22.448 | 18.299 | 17.854 |
| 85.5 | 69.566 | 31.486 | 18.521 | 15.854 | 15.484 |
| 86.0 | 59.342 | 25.189 | 15.410 | 13.483 | 13.187 |
| 86.5 | 49.118 | 19.410 | 12.891 | 11.113 | 10.742 |
| 87.0 | 39.413 | 15.780 | 10.446 | 8.890 | 8.594 |
| 87.5 | 29.486 | 11.261 | 8.149 | 6.668 | 6.445 |
| 88.0 | 20.003 | 8.075 | 5.927 | 4.741 | 4.593 |
| 88.5 | 12.817 | 5.779 | 4.445 | 3.927 | 3.556 |
| 89.0 | 7.483 | 3.704 | 4.445 | 4.149 | 3.037 |
| 89.5 | 3.630 | 2.148 | 4.223 | 2.889 | 2.445 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 : APC-14-L40-850-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 : APC-14-L40-850-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 : APC-14-L40-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 511.57 | N.A. | 14.00 |
| 0-30 | 1073.41 | N.A. | 29.50 |
| 0-40 | 1734.41 | N.A. | 47.60 |
| 0-60 | 2980.05 | N.A. | 81.80 |
| 0-80 | 3600.59 | N.A. | 98.90 |
| 0-90 | 3641.88 | N.A. | 100.00 |
| 10-90 | 3508.57 | N.A. | 96.30 |
| 20-40 | 1222.83 | N.A. | 33.60 |
| 20-50 | 1888.46 | N.A. | 51.90 |
| 40-70 | 1660.4 | N.A. | 45.60 |
| 60-80 | 620.54 | N.A. | 17.00 |
| 70-80 | 205.78 | N.A. | 5.70 |
| 80-90 | 41.29 | N.A. | 1.10 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3641.88 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 133.30 |
| 10-20 | 378.27 |
| 20-30 | 561.84 |
| 30-40 | 660.99 |
| 40-50 | 665.62 |
| 50-60 | 580.02 |
| 60-70 | 414.75 |
| 70-80 | 205.78 |
| 80-90 | 41.29 |
| 90-100 | 0.00 |
| 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 : APC-14-L40-850-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 | 123 | 123 | 123 | 123 | 120 | 120 | 120 | 120 | 114 | 114 | 114 | 109 | 109 | 109 | 105 | 105 | 105 | 103 |
| 1 | 113 | 108 | 104 | 100 | 110 | 106 | 102 | 98 | 101 | 98 | 95 | 97 | 95 | 92 | 94 | 91 | 90 | 87 |
| 2 | 103 | 95 | 88 | 82 | 100 | 93 | 86 | 81 | 89 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 76 | 74 |
| 3 | 94 | 83 | 75 | 69 | 91 | 82 | 74 | 68 | 79 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 62 |
| 4 | 86 | 74 | 65 | 58 | 84 | 73 | 64 | 58 | 70 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 56 | 54 |
| 5 | 79 | 66 | 57 | 51 | 77 | 65 | 57 | 50 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 57 | 49 | 44 | 55 | 48 | 43 | 54 | 48 | 43 | 41 |
| 7 | 68 | 54 | 45 | 39 | 66 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 38 | 49 | 43 | 38 | 36 |
| 8 | 63 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 32 |
| 9 | 59 | 46 | 37 | 32 | 58 | 45 | 37 | 32 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 10 | 56 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 33 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-14-L40-850-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 | 17.1 | 18.7 | 17.4 | 19.0 | 19.3 | UGR Viewed Endwise | | | |
| | 3H | 19.0 | 20.5 | 19.4 | 20.8 | 21.1 | 15.9 | 17.5 | 16.3 | 17.9 |
| | 4H | 19.8 | 21.1 | 20.2 | 21.5 | 21.8 | 17.2 | 18.6 | 17.5 | 18.9 |
| | 6H | 20.3 | 21.6 | 20.8 | 22.0 | 22.4 | 17.5 | 18.8 | 17.9 | 19.2 |
| | 8H | 20.5 | 21.7 | 21.0 | 22.1 | 22.5 | 17.6 | 18.9 | 18.0 | 19.3 |
| | 12H | 20.7 | 21.8 | 21.1 | 22.2 | 22.6 | 17.7 | 18.8 | 18.1 | 19.2 |

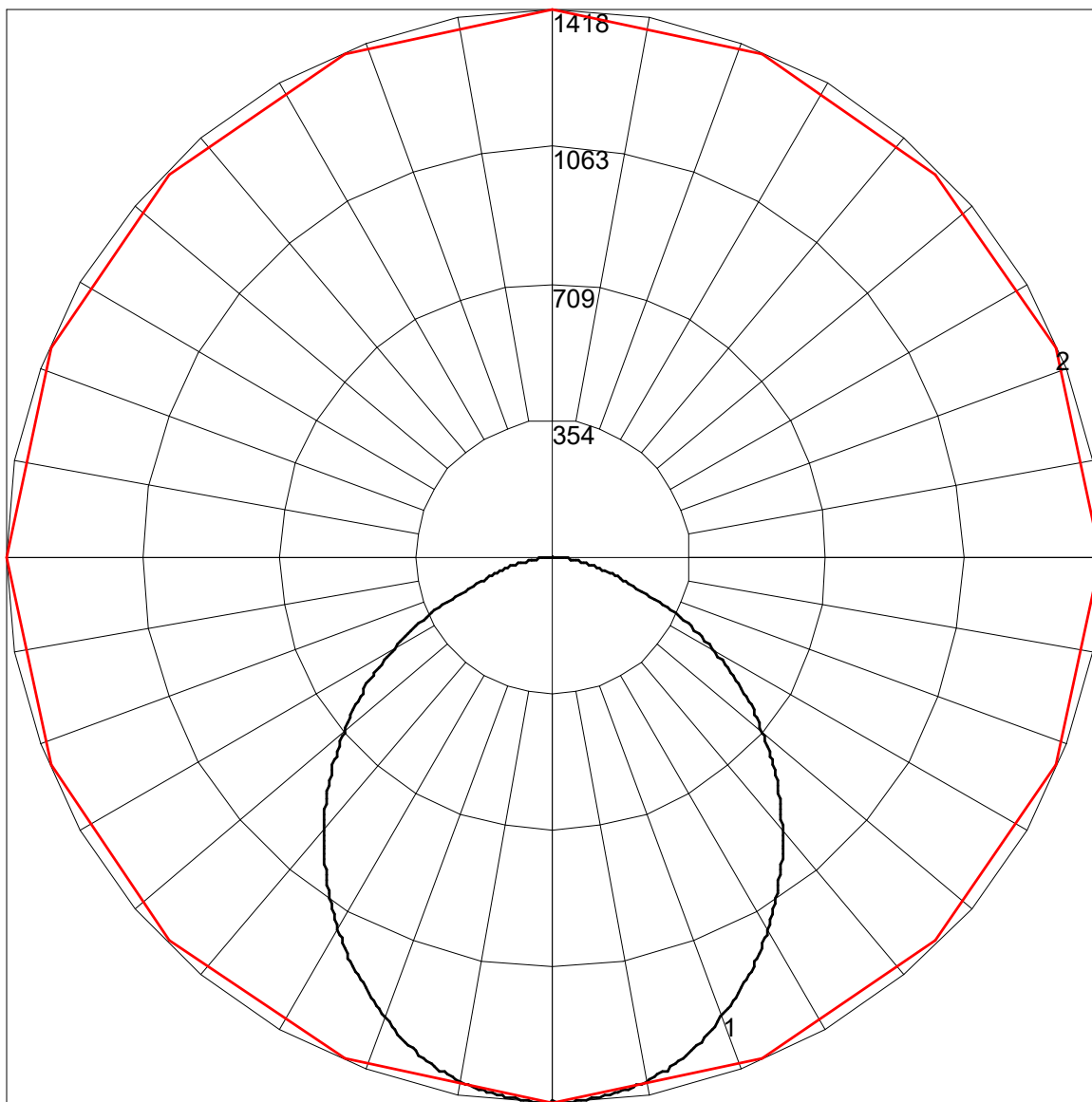
| | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.5 | 18.9 | 17.9 | 19.2 | 19.6 | 15.9 | 17.5 | 16.3 | 17.9 |
| | 3H | 19.6 | 20.8 | 20.1 | 21.2 | 21.6 | 17.2 | 18.6 | 17.5 | 18.9 |
| | 4H | 20.5 | 21.5 | 20.9 | 21.9 | 22.4 | 17.5 | 18.8 | 17.9 | 19.2 |
| | 6H | 21.2 | 22.1 | 21.7 | 22.5 | 23.0 | 17.6 | 18.9 | 18.0 | 19.3 |
| | 8H | 21.4 | 22.3 | 21.9 | 22.7 | 23.2 | 17.7 | 18.8 | 18.1 | 19.2 |
| | 12H | 21.6 | 22.4 | 22.1 | 22.8 | 23.3 | 17.6 | 18.8 | 18.1 | 19.2 |

| | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 20.6 | 21.4 | 21.1 | 21.9 | 22.3 | 16.6 | 18.0 | 17.0 | 18.3 |
| | 6H | 21.4 | 22.1 | 21.9 | 22.6 | 23.0 | 18.0 | 19.1 | 18.4 | 19.5 |
| | 8H | 21.6 | 22.3 | 22.1 | 22.8 | 23.3 | 18.4 | 19.4 | 18.8 | 19.8 |
| | 12H | 21.9 | 22.4 | 22.4 | 22.9 | 23.5 | 18.6 | 19.5 | 19.1 | 19.9 |

| | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.6 | 21.3 | 21.1 | 21.8 | 22.3 | 18.6 | 19.5 | 19.1 | 19.9 |
| | 6H | 21.4 | 22.0 | 21.9 | 22.4 | 23.0 | 18.6 | 19.5 | 19.1 | 19.9 |
| | 8H | 21.7 | 22.2 | 22.2 | 22.7 | 23.3 | 18.6 | 19.5 | 19.1 | 19.9 |

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1417.987 Located At Horizontal Angle = 0, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)