



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-15121-1
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company, Jessup, MD 20794
 [LUMCAT] 770-48LED32DMV30
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED23DMV30
 [MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.
 [MORE] 128 LEDs with single row of 32 on each of four white PCBs. Marked "M10CC830D32N2S"
 [MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 8m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.807a.
 [DATE] This file was extrapolated from LLI-15121-1 Tuesday November 8, 2016
 [ISSUE DATE] Friday, May 15, 2015 7:11:02 AM

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3799 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 119 |
| Total Luminaire Watts | 32 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.22 m |
| Luminous Width (90-270) | 0.24 m |
| Luminous Height | 0.04 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 4488 | 3937 | 3794 |
| 55 | 3549 | 2772 | 2393 |
| 65 | 2219 | 1851 | 1501 |
| 75 | 1533 | 1333 | 1264 |
| 85 | 1091 | 1213 | 1531 |

CANDELA TABULATION

| | <u>0.0</u> | <u>10.0</u> | <u>20.0</u> | <u>22.5</u> | <u>30.0</u> | <u>40.0</u> | <u>45.0</u> | <u>50.0</u> | <u>60.0</u> | <u>67.5</u> |
|------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 | 1419.356 |
| 0.5 | 1412.104 | 1418.365 | 1420.275 | 1421.855 | 1421.884 | 1420.203 | 1420.031 | 1420.433 | 1419.830 | 1420.203 |
| 1.0 | 1411.859 | 1418.552 | 1421.022 | 1421.869 | 1422.358 | 1420.318 | 1421.022 | 1421.596 | 1420.462 | 1421.395 |
| 1.5 | 1413.123 | 1419.615 | 1421.884 | 1423.061 | 1423.837 | 1421.424 | 1422.329 | 1422.717 | 1422.386 | 1423.119 |
| 2.0 | 1414.315 | 1421.252 | 1423.435 | 1424.196 | 1425.359 | 1423.708 | 1424.900 | 1424.842 | 1425.101 | 1426.824 |
| 2.5 | 1416.254 | 1423.033 | 1424.799 | 1426.020 | 1427.097 | 1425.934 | 1428.102 | 1428.174 | 1429.782 | 1430.429 |
| 3.0 | 1417.762 | 1424.268 | 1427.255 | 1428.317 | 1429.682 | 1429.093 | 1431.247 | 1432.310 | 1433.200 | 1434.895 |
| 3.5 | 1419.212 | 1425.819 | 1428.289 | 1429.495 | 1432.080 | 1432.655 | 1434.522 | 1435.828 | 1437.365 | 1438.773 |
| 4.0 | 1418.925 | 1426.005 | 1428.849 | 1431.290 | 1433.990 | 1435.699 | 1437.868 | 1439.088 | 1441.013 | 1442.219 |
| 4.5 | 1418.092 | 1425.115 | 1430.371 | 1431.520 | 1436.231 | 1438.543 | 1441.559 | 1442.578 | 1443.986 | 1446.413 |
| 5.0 | 1417.345 | 1424.440 | 1430.170 | 1431.908 | 1437.695 | 1440.683 | 1443.957 | 1446.039 | 1447.906 | 1449.716 |
| 5.5 | 1415.866 | 1423.248 | 1429.983 | 1432.841 | 1438.672 | 1442.449 | 1445.551 | 1448.768 | 1451.238 | 1453.909 |
| 6.0 | 1414.444 | 1422.085 | 1430.041 | 1432.755 | 1439.936 | 1444.101 | 1448.553 | 1450.994 | 1454.986 | 1457.571 |
| 6.5 | 1411.228 | 1419.830 | 1430.228 | 1433.344 | 1441.573 | 1445.652 | 1450.046 | 1453.838 | 1458.361 | 1460.214 |
| 7.0 | 1408.700 | 1417.288 | 1429.754 | 1432.209 | 1442.162 | 1447.978 | 1452.602 | 1455.977 | 1460.200 | 1461.334 |
| 7.5 | 1406.445 | 1415.335 | 1428.519 | 1431.664 | 1442.334 | 1448.739 | 1453.751 | 1458.060 | 1460.516 | 1461.291 |
| 8.0 | 1403.559 | 1413.252 | 1427.872 | 1431.635 | 1442.033 | 1450.348 | 1455.374 | 1457.729 | 1459.252 | 1458.878 |
| 8.5 | 1401.333 | 1411.242 | 1427.039 | 1431.032 | 1442.018 | 1451.252 | 1455.690 | 1457.701 | 1456.351 | 1455.590 |
| 9.0 | 1398.159 | 1409.346 | 1426.321 | 1430.529 | 1442.406 | 1450.506 | 1454.469 | 1455.331 | 1452.918 | 1449.845 |
| 9.5 | 1396.148 | 1407.336 | 1425.704 | 1429.567 | 1442.377 | 1449.946 | 1452.516 | 1452.861 | 1447.662 | 1444.072 |
| 10.0 | 1394.051 | 1405.900 | 1424.052 | 1429.509 | 1442.550 | 1449.070 | 1449.429 | 1448.969 | 1441.113 | 1436.231 |
| 10.5 | 1390.964 | 1403.386 | 1422.659 | 1427.097 | 1440.697 | 1446.944 | 1445.235 | 1443.540 | 1434.306 | 1427.039 |
| 11.0 | 1387.948 | 1401.045 | 1421.122 | 1425.905 | 1439.060 | 1443.368 | 1441.027 | 1437.423 | 1425.287 | 1416.527 |
| 11.5 | 1384.444 | 1398.891 | 1419.054 | 1423.708 | 1437.222 | 1439.290 | 1435.297 | 1430.328 | 1416.340 | 1405.742 |
| 12.0 | 1380.853 | 1396.536 | 1416.728 | 1422.415 | 1435.527 | 1433.732 | 1429.308 | 1422.674 | 1406.115 | 1395.890 |
| 12.5 | 1377.924 | 1393.965 | 1415.119 | 1420.534 | 1432.841 | 1428.131 | 1421.898 | 1415.364 | 1396.277 | 1386.354 |
| 13.0 | 1375.927 | 1392.730 | 1413.956 | 1418.796 | 1430.314 | 1421.999 | 1414.674 | 1406.330 | 1387.014 | 1378.469 |
| 13.5 | 1373.658 | 1390.662 | 1412.908 | 1418.193 | 1427.944 | 1415.277 | 1405.971 | 1396.622 | 1379.331 | 1371.619 |
| 14.0 | 1371.691 | 1389.643 | 1412.075 | 1417.676 | 1424.555 | 1407.881 | 1397.125 | 1387.732 | 1372.194 | 1366.851 |
| 14.5 | 1368.646 | 1388.091 | 1412.477 | 1417.317 | 1421.122 | 1400.299 | 1388.020 | 1379.245 | 1366.880 | 1363.002 |
| 15.0 | 1364.568 | 1385.521 | 1411.802 | 1416.067 | 1417.460 | 1392.716 | 1380.494 | 1371.102 | 1362.686 | 1361.896 |
| 15.5 | 1358.593 | 1383.137 | 1410.854 | 1414.373 | 1412.376 | 1384.501 | 1372.725 | 1364.955 | 1359.642 | 1362.457 |
| 16.0 | 1353.581 | 1379.130 | 1409.030 | 1411.759 | 1405.799 | 1377.119 | 1365.530 | 1358.924 | 1358.407 | 1364.711 |
| 16.5 | 1347.722 | 1376.243 | 1406.359 | 1408.657 | 1399.121 | 1368.847 | 1357.804 | 1353.237 | 1359.182 | 1368.172 |
| 17.0 | 1342.566 | 1372.854 | 1403.070 | 1404.018 | 1391.912 | 1360.489 | 1350.795 | 1348.555 | 1359.857 | 1372.021 |
| 17.5 | 1336.893 | 1369.235 | 1399.739 | 1399.954 | 1385.291 | 1352.662 | 1343.787 | 1344.419 | 1361.825 | 1377.062 |
| 18.0 | 1333.317 | 1365.846 | 1396.048 | 1395.272 | 1377.665 | 1345.209 | 1338.847 | 1341.661 | 1364.180 | 1380.595 |
| 18.5 | 1329.411 | 1362.586 | 1391.567 | 1389.614 | 1369.666 | 1338.301 | 1334.610 | 1340.067 | 1365.616 | 1382.548 |
| 19.0 | 1325.835 | 1359.972 | 1386.627 | 1383.352 | 1361.983 | 1332.657 | 1330.675 | 1338.674 | 1367.713 | 1382.677 |
| 19.5 | 1322.547 | 1356.841 | 1380.954 | 1377.364 | 1354.630 | 1327.358 | 1328.593 | 1338.804 | 1369.005 | 1380.437 |
| 20.0 | 1320.019 | 1353.079 | 1375.396 | 1370.011 | 1346.573 | 1323.078 | 1327.200 | 1340.139 | 1368.187 | 1376.387 |
| 20.5 | 1316.859 | 1349.776 | 1369.494 | 1363.720 | 1337.999 | 1319.890 | 1326.223 | 1341.891 | 1366.435 | 1369.752 |
| 21.0 | 1313.197 | 1345.424 | 1363.232 | 1356.152 | 1330.129 | 1317.003 | 1326.438 | 1342.767 | 1362.830 | 1361.379 |
| 21.5 | 1310.009 | 1342.049 | 1356.324 | 1348.842 | 1322.475 | 1314.188 | 1326.999 | 1342.739 | 1357.789 | 1351.944 |
| 22.0 | 1306.132 | 1338.028 | 1349.388 | 1341.561 | 1314.519 | 1312.048 | 1326.424 | 1341.575 | 1349.474 | 1341.302 |
| 22.5 | 1301.708 | 1334.998 | 1342.379 | 1332.872 | 1306.850 | 1309.578 | 1325.620 | 1337.870 | 1341.676 | 1329.698 |
| 23.0 | 1296.380 | 1330.718 | 1335.414 | 1326.022 | 1299.913 | 1306.591 | 1323.566 | 1333.605 | 1330.474 | 1317.075 |
| 23.5 | 1289.731 | 1326.855 | 1328.377 | 1317.750 | 1292.402 | 1304.279 | 1321.254 | 1328.176 | 1318.669 | 1305.098 |
| 24.0 | 1283.556 | 1323.537 | 1320.967 | 1310.239 | 1286.600 | 1302.642 | 1318.410 | 1322.159 | 1307.898 | 1295.088 |
| 24.5 | 1277.725 | 1318.382 | 1312.508 | 1301.924 | 1280.626 | 1299.683 | 1314.246 | 1314.260 | 1297.429 | 1286.586 |
| 25.0 | 1270.760 | 1313.341 | 1303.704 | 1293.379 | 1275.341 | 1297.314 | 1309.880 | 1305.959 | 1287.921 | 1279.118 |
| 25.5 | 1263.852 | 1307.108 | 1295.088 | 1285.250 | 1271.133 | 1294.585 | 1304.265 | 1297.012 | 1279.549 | 1273.804 |
| 26.0 | 1257.691 | 1300.028 | 1285.882 | 1276.863 | 1267.686 | 1292.345 | 1297.572 | 1287.663 | 1272.153 | 1270.128 |
| 26.5 | 1253.153 | 1292.962 | 1276.892 | 1268.476 | 1263.048 | 1288.855 | 1289.760 | 1277.782 | 1266.135 | 1266.293 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.0 | 1248.399 | 1284.819 | 1268.433 | 1259.960 | 1259.400 | 1284.159 | 1281.243 | 1267.715 | 1260.061 | 1263.995 |
| 27.5 | 1242.683 | 1276.978 | 1259.529 | 1251.860 | 1255.005 | 1278.256 | 1271.909 | 1259.314 | 1255.293 | 1259.917 |
| 28.0 | 1237.714 | 1269.237 | 1250.166 | 1243.315 | 1249.907 | 1271.248 | 1262.689 | 1251.027 | 1249.778 | 1256.786 |
| 28.5 | 1231.194 | 1261.267 | 1240.960 | 1234.742 | 1244.881 | 1263.435 | 1253.670 | 1243.574 | 1243.200 | 1251.214 |
| 29.0 | 1226.082 | 1252.894 | 1232.228 | 1226.197 | 1238.964 | 1254.172 | 1245.742 | 1236.407 | 1236.910 | 1244.450 |
| 29.5 | 1218.327 | 1245.627 | 1223.138 | 1218.513 | 1231.999 | 1245.441 | 1237.082 | 1229.844 | 1229.801 | 1236.120 |
| 30.0 | 1212.180 | 1238.174 | 1215.512 | 1210.615 | 1225.665 | 1234.943 | 1228.480 | 1223.468 | 1221.859 | 1227.618 |
| 30.5 | 1204.942 | 1230.965 | 1208.432 | 1203.937 | 1219.447 | 1225.593 | 1219.964 | 1216.417 | 1212.912 | 1219.131 |
| 31.0 | 1198.494 | 1224.301 | 1201.323 | 1198.221 | 1213.228 | 1216.345 | 1211.304 | 1208.058 | 1204.612 | 1210.988 |
| 31.5 | 1192.735 | 1216.488 | 1193.855 | 1191.787 | 1205.674 | 1206.464 | 1201.998 | 1199.599 | 1196.440 | 1203.448 |
| 32.0 | 1186.071 | 1209.279 | 1187.134 | 1184.793 | 1198.580 | 1197.417 | 1192.749 | 1190.408 | 1189.245 | 1197.574 |
| 32.5 | 1179.939 | 1200.504 | 1178.962 | 1178.388 | 1190.451 | 1187.091 | 1183.386 | 1181.921 | 1182.481 | 1190.178 |
| 33.0 | 1172.672 | 1193.051 | 1171.882 | 1170.819 | 1183.256 | 1177.153 | 1173.491 | 1173.304 | 1176.679 | 1183.644 |
| 33.5 | 1166.138 | 1183.931 | 1163.825 | 1163.395 | 1175.932 | 1166.956 | 1163.323 | 1165.664 | 1169.771 | 1176.909 |
| 34.0 | 1157.607 | 1174.309 | 1155.467 | 1155.726 | 1168.306 | 1156.630 | 1153.629 | 1158.038 | 1163.294 | 1170.848 |
| 34.5 | 1148.617 | 1164.831 | 1146.448 | 1147.281 | 1160.953 | 1147.152 | 1144.840 | 1149.938 | 1156.458 | 1164.242 |
| 35.0 | 1139.225 | 1155.381 | 1136.941 | 1138.262 | 1153.413 | 1137.099 | 1136.582 | 1141.910 | 1149.809 | 1156.602 |
| 35.5 | 1131.311 | 1145.026 | 1126.759 | 1128.267 | 1145.529 | 1127.276 | 1129.085 | 1132.805 | 1142.082 | 1147.769 |
| 36.0 | 1123.800 | 1134.557 | 1117.137 | 1119.521 | 1136.467 | 1116.476 | 1120.526 | 1124.949 | 1133.896 | 1138.348 |
| 36.5 | 1115.155 | 1124.375 | 1107.371 | 1110.861 | 1127.247 | 1106.912 | 1112.355 | 1116.462 | 1126.026 | 1127.075 |
| 37.0 | 1107.845 | 1115.442 | 1098.539 | 1101.555 | 1117.367 | 1097.117 | 1103.465 | 1107.271 | 1116.361 | 1113.575 |
| 37.5 | 1099.271 | 1106.395 | 1090.166 | 1093.053 | 1107.213 | 1087.739 | 1093.498 | 1098.525 | 1105.677 | 1099.386 |
| 38.0 | 1090.683 | 1096.643 | 1081.018 | 1084.379 | 1096.528 | 1078.361 | 1084.235 | 1088.730 | 1094.073 | 1085.829 |
| 38.5 | 1080.329 | 1085.528 | 1071.410 | 1075.417 | 1085.470 | 1068.854 | 1073.981 | 1079.726 | 1081.420 | 1070.764 |
| 39.0 | 1070.937 | 1074.340 | 1061.013 | 1066.384 | 1073.737 | 1059.620 | 1064.632 | 1069.500 | 1067.820 | 1057.365 |
| 39.5 | 1060.309 | 1063.698 | 1051.132 | 1056.073 | 1062.047 | 1049.840 | 1053.717 | 1059.548 | 1054.450 | 1045.345 |
| 40.0 | 1050.371 | 1052.037 | 1039.887 | 1045.977 | 1050.630 | 1039.141 | 1043.033 | 1049.064 | 1040.591 | 1032.348 |
| 40.5 | 1039.643 | 1040.749 | 1028.729 | 1035.321 | 1038.810 | 1028.571 | 1033.023 | 1038.379 | 1026.704 | 1019.782 |
| 41.0 | 1031.084 | 1030.050 | 1018.877 | 1025.268 | 1027.063 | 1017.512 | 1022.683 | 1027.063 | 1013.506 | 1006.986 |
| 41.5 | 1022.180 | 1018.891 | 1008.723 | 1013.865 | 1013.937 | 1006.325 | 1012.026 | 1014.252 | 999.977 | 994.247 |
| 42.0 | 1011.596 | 1008.752 | 998.556 | 1003.022 | 1001.571 | 995.095 | 1001.141 | 1000.408 | 985.918 | 980.748 |
| 42.5 | 1001.672 | 996.890 | 987.627 | 991.274 | 989.838 | 984.108 | 988.977 | 986.521 | 971.872 | 967.392 |
| 43.0 | 989.135 | 984.467 | 975.721 | 979.182 | 977.200 | 971.528 | 975.635 | 970.924 | 957.008 | 953.562 |
| 43.5 | 977.315 | 972.016 | 963.701 | 966.099 | 963.342 | 959.105 | 960.340 | 954.711 | 941.211 | 939.373 |
| 44.0 | 964.950 | 957.927 | 951.738 | 954.237 | 949.914 | 945.893 | 945.692 | 938.324 | 925.327 | 925.313 |
| 44.5 | 951.881 | 945.017 | 939.085 | 941.570 | 935.596 | 930.153 | 929.506 | 921.249 | 908.955 | 910.779 |
| 45.0 | 939.976 | 932.278 | 926.261 | 929.535 | 921.536 | 914.887 | 913.192 | 902.708 | 891.305 | 894.680 |
| 45.5 | 926.778 | 918.563 | 913.206 | 916.567 | 906.787 | 899.477 | 895.499 | 884.340 | 875.178 | 878.768 |
| 46.0 | 911.842 | 904.532 | 899.707 | 903.584 | 890.401 | 882.703 | 876.872 | 865.010 | 857.987 | 861.434 |
| 46.5 | 897.337 | 889.510 | 887.098 | 889.869 | 874.948 | 866.259 | 857.154 | 845.665 | 841.113 | 843.209 |
| 47.0 | 882.028 | 874.273 | 873.225 | 875.221 | 858.547 | 848.523 | 837.896 | 827.512 | 824.138 | 825.014 |
| 47.5 | 866.173 | 859.179 | 858.160 | 861.118 | 841.357 | 829.997 | 818.379 | 808.800 | 806.746 | 806.100 |
| 48.0 | 851.194 | 845.737 | 842.592 | 845.234 | 824.367 | 810.351 | 799.479 | 790.403 | 789.412 | 787.286 |
| 48.5 | 836.503 | 830.686 | 826.909 | 828.992 | 806.430 | 790.776 | 779.833 | 772.537 | 771.762 | 768.531 |
| 49.0 | 820.863 | 816.009 | 810.466 | 812.146 | 788.206 | 772.308 | 760.948 | 755.117 | 754.026 | 749.172 |
| 49.5 | 804.075 | 801.892 | 794.381 | 794.180 | 769.838 | 753.293 | 742.494 | 738.329 | 735.773 | 729.209 |
| 50.0 | 788.277 | 786.927 | 778.210 | 775.754 | 750.737 | 735.011 | 724.700 | 720.506 | 717.878 | 709.649 |
| 50.5 | 770.714 | 771.690 | 760.732 | 756.999 | 732.469 | 716.299 | 706.906 | 703.187 | 698.605 | 688.438 |
| 51.0 | 753.983 | 756.137 | 743.686 | 738.142 | 713.110 | 698.491 | 689.242 | 686.025 | 680.065 | 668.346 |
| 51.5 | 736.534 | 739.593 | 725.145 | 719.401 | 695.001 | 680.194 | 671.951 | 667.829 | 660.677 | 648.197 |
| 52.0 | 719.286 | 722.373 | 706.260 | 700.831 | 677.638 | 661.812 | 654.789 | 650.509 | 641.318 | 627.876 |
| 52.5 | 702.052 | 705.183 | 686.944 | 682.176 | 659.787 | 644.176 | 637.139 | 631.926 | 621.672 | 607.282 |
| 53.0 | 684.431 | 687.246 | 668.906 | 663.205 | 642.166 | 626.124 | 619.216 | 613.472 | 602.327 | 586.975 |
| 53.5 | 666.795 | 669.194 | 649.533 | 644.995 | 624.343 | 608.503 | 601.695 | 595.506 | 582.351 | 567.458 |
| 54.0 | 648.901 | 650.797 | 630.863 | 626.497 | 607.210 | 590.565 | 584.763 | 577.612 | 563.365 | 548.386 |
| 54.5 | 630.404 | 632.342 | 613.587 | 607.756 | 589.934 | 573.849 | 567.516 | 559.358 | 543.532 | 529.314 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 55.0 | 611.203 | 612.308 | 595.075 | 589.215 | 573.317 | 556.759 | 549.521 | 541.220 | 525.437 | 511.435 |
| 55.5 | 592.303 | 592.834 | 577.769 | 571.709 | 556.242 | 540.344 | 532.445 | 524.345 | 506.710 | 493.957 |
| 56.0 | 573.102 | 573.863 | 559.488 | 552.968 | 539.138 | 523.283 | 515.456 | 507.255 | 489.132 | 478.073 |
| 56.5 | 553.197 | 554.619 | 541.938 | 536.093 | 523.714 | 507.902 | 499.026 | 491.300 | 472.673 | 461.587 |
| 57.0 | 533.968 | 535.504 | 524.647 | 518.831 | 507.816 | 491.889 | 482.726 | 475.273 | 456.776 | 446.881 |
| 57.5 | 515.427 | 516.662 | 507.586 | 502.674 | 492.061 | 477.169 | 467.575 | 459.806 | 441.696 | 432.649 |
| 58.0 | 495.063 | 497.978 | 491.300 | 486.704 | 477.485 | 462.333 | 452.410 | 445.574 | 427.522 | 418.862 |
| 58.5 | 477.197 | 479.811 | 474.785 | 470.735 | 463.094 | 447.814 | 438.005 | 430.882 | 413.763 | 405.348 |
| 59.0 | 458.212 | 462.161 | 459.404 | 455.842 | 448.446 | 434.013 | 424.463 | 417.296 | 401.384 | 392.983 |
| 59.5 | 440.260 | 444.497 | 443.965 | 441.036 | 434.774 | 419.924 | 411.336 | 403.509 | 389.019 | 380.158 |
| 60.0 | 423.357 | 428.240 | 429.317 | 427.206 | 421.418 | 407.014 | 398.167 | 391.819 | 377.429 | 368.281 |
| 60.5 | 406.612 | 411.638 | 414.367 | 413.290 | 408.378 | 394.534 | 386.262 | 379.555 | 365.194 | 356.649 |
| 61.0 | 390.527 | 396.271 | 400.752 | 399.718 | 394.950 | 382.686 | 374.902 | 367.807 | 354.466 | 345.174 |
| 61.5 | 375.936 | 380.962 | 386.865 | 386.362 | 382.729 | 371.110 | 363.240 | 357.395 | 343.652 | 333.441 |
| 62.0 | 361.977 | 366.500 | 373.322 | 373.092 | 370.450 | 359.894 | 352.311 | 346.351 | 333.168 | 322.684 |
| 62.5 | 347.630 | 352.872 | 360.009 | 361.029 | 358.630 | 348.333 | 342.101 | 336.299 | 322.526 | 313.019 |
| 63.0 | 334.877 | 339.630 | 347.385 | 348.463 | 347.429 | 337.706 | 331.732 | 326.045 | 312.473 | 303.023 |
| 63.5 | 321.952 | 326.720 | 334.934 | 336.485 | 336.284 | 328.098 | 321.765 | 316.020 | 302.966 | 293.215 |
| 64.0 | 309.888 | 314.872 | 323.029 | 324.953 | 325.513 | 318.002 | 312.330 | 306.413 | 293.330 | 283.190 |
| 64.5 | 298.945 | 303.038 | 311.281 | 313.608 | 314.943 | 308.538 | 302.377 | 296.432 | 284.067 | 273.626 |
| 65.0 | 287.887 | 291.937 | 299.706 | 302.348 | 304.804 | 299.519 | 293.459 | 287.628 | 274.904 | 264.363 |
| 65.5 | 278.308 | 280.605 | 288.705 | 292.166 | 295.039 | 289.825 | 284.584 | 278.221 | 265.885 | 256.536 |
| 66.0 | 267.149 | 270.064 | 278.753 | 281.525 | 285.287 | 281.324 | 275.665 | 269.246 | 257.584 | 248.206 |
| 66.5 | 257.125 | 259.925 | 268.585 | 271.572 | 275.823 | 272.563 | 267.235 | 261.850 | 248.881 | 240.710 |
| 67.0 | 248.249 | 249.844 | 258.805 | 261.735 | 266.890 | 264.147 | 259.006 | 252.874 | 240.667 | 233.673 |
| 67.5 | 238.541 | 240.796 | 249.054 | 252.529 | 257.929 | 255.574 | 251.064 | 244.817 | 233.486 | 226.435 |
| 68.0 | 229.565 | 231.016 | 240.365 | 243.481 | 249.341 | 247.790 | 243.122 | 236.717 | 225.745 | 219.570 |
| 68.5 | 220.805 | 222.126 | 230.571 | 234.678 | 241.299 | 239.776 | 235.511 | 229.005 | 219.383 | 212.404 |
| 69.0 | 211.714 | 213.725 | 222.126 | 226.406 | 232.366 | 232.222 | 227.727 | 221.063 | 212.605 | 206.099 |
| 69.5 | 204.304 | 205.137 | 214.070 | 217.832 | 224.726 | 224.797 | 220.676 | 215.089 | 205.553 | 199.478 |
| 70.0 | 196.276 | 196.606 | 205.683 | 209.445 | 216.252 | 217.315 | 213.107 | 207.909 | 199.392 | 193.418 |
| 70.5 | 187.702 | 188.851 | 198.488 | 201.288 | 209.488 | 209.445 | 205.797 | 200.943 | 193.447 | 187.846 |
| 71.0 | 180.450 | 181.067 | 190.316 | 194.509 | 202.121 | 202.322 | 198.961 | 195.055 | 187.501 | 181.814 |
| 71.5 | 172.838 | 173.427 | 182.719 | 186.209 | 194.768 | 194.940 | 193.203 | 188.837 | 181.584 | 176.572 |
| 72.0 | 165.859 | 166.103 | 176.141 | 179.416 | 188.033 | 188.923 | 186.553 | 183.020 | 175.926 | 171.675 |
| 72.5 | 159.037 | 159.209 | 169.090 | 172.120 | 180.780 | 181.728 | 179.847 | 176.960 | 170.914 | 166.778 |
| 73.0 | 152.488 | 151.512 | 162.067 | 165.744 | 173.757 | 174.849 | 173.872 | 171.460 | 166.103 | 162.958 |
| 73.5 | 145.150 | 145.896 | 155.691 | 159.152 | 166.936 | 169.061 | 168.070 | 165.701 | 161.852 | 159.066 |
| 74.0 | 139.075 | 139.218 | 149.472 | 153.005 | 161.335 | 162.714 | 162.613 | 161.263 | 157.788 | 155.461 |
| 74.5 | 132.368 | 132.627 | 143.254 | 146.586 | 154.772 | 156.969 | 156.983 | 155.720 | 153.968 | 151.483 |
| 75.0 | 127.686 | 127.586 | 137.280 | 140.382 | 148.510 | 150.334 | 151.986 | 151.454 | 149.616 | 148.625 |
| 75.5 | 121.698 | 121.841 | 131.837 | 134.695 | 142.522 | 145.236 | 146.844 | 147.088 | 146.500 | 145.595 |
| 76.0 | 116.197 | 116.341 | 125.862 | 129.568 | 136.992 | 140.224 | 141.617 | 142.995 | 142.938 | 143.096 |
| 76.5 | 110.797 | 111.200 | 121.152 | 124.211 | 131.449 | 134.996 | 137.208 | 138.816 | 140.252 | 141.157 |
| 77.0 | 104.852 | 106.432 | 115.522 | 118.854 | 126.537 | 130.128 | 132.684 | 135.154 | 137.624 | 139.333 |
| 77.5 | 101.262 | 101.592 | 110.884 | 113.928 | 121.166 | 126.049 | 127.844 | 131.262 | 134.982 | 138.242 |
| 78.0 | 96.048 | 96.450 | 106.029 | 109.088 | 116.571 | 121.425 | 123.651 | 127.385 | 133.043 | 136.619 |
| 78.5 | 91.108 | 91.783 | 101.147 | 104.407 | 112.061 | 116.255 | 119.773 | 123.565 | 130.989 | 136.131 |
| 79.0 | 87.216 | 87.604 | 96.896 | 99.868 | 107.825 | 112.119 | 115.508 | 120.951 | 129.410 | 135.341 |
| 79.5 | 82.908 | 83.497 | 92.616 | 95.158 | 103.100 | 107.853 | 111.961 | 118.150 | 128.620 | 134.853 |
| 80.0 | 78.011 | 79.519 | 87.460 | 90.706 | 98.791 | 104.378 | 108.658 | 115.766 | 127.356 | 134.278 |
| 80.5 | 74.578 | 74.923 | 83.655 | 86.757 | 94.354 | 100.342 | 105.240 | 112.650 | 125.546 | 133.589 |
| 81.0 | 70.485 | 70.772 | 79.174 | 82.233 | 89.887 | 96.838 | 102.626 | 110.927 | 124.512 | 132.469 |
| 81.5 | 66.608 | 66.909 | 75.311 | 78.125 | 86.168 | 93.334 | 100.055 | 108.586 | 122.933 | 131.765 |
| 82.0 | 62.256 | 62.199 | 70.787 | 73.860 | 81.558 | 89.500 | 97.039 | 106.274 | 121.410 | 130.573 |
| 82.5 | 58.623 | 59.327 | 67.067 | 69.609 | 77.968 | 86.584 | 94.469 | 103.832 | 120.161 | 128.663 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 83.0 | 54.013 | 54.530 | 62.946 | 65.847 | 73.602 | 83.238 | 90.864 | 101.362 | 118.323 | 126.566 |
| 83.5 | 49.661 | 50.308 | 58.824 | 61.538 | 69.638 | 80.280 | 88.336 | 98.878 | 115.637 | 123.392 |
| 84.0 | 44.678 | 46.818 | 54.903 | 57.445 | 66.263 | 76.905 | 85.450 | 95.962 | 112.751 | 119.601 |
| 84.5 | 40.485 | 42.380 | 50.767 | 53.324 | 62.472 | 74.033 | 82.563 | 93.492 | 109.663 | 114.345 |
| 85.0 | 37.483 | 38.101 | 46.689 | 49.604 | 58.436 | 70.184 | 80.050 | 90.074 | 105.426 | 109.505 |
| 85.5 | 31.825 | 34.438 | 42.639 | 45.439 | 54.717 | 67.599 | 76.416 | 87.015 | 100.917 | 103.344 |
| 86.0 | 27.588 | 30.288 | 38.546 | 41.432 | 51.069 | 64.339 | 73.688 | 82.865 | 95.488 | 97.441 |
| 86.5 | 22.547 | 26.468 | 34.352 | 37.067 | 46.861 | 61.208 | 69.681 | 79.116 | 89.844 | 91.496 |
| 87.0 | 18.512 | 22.174 | 30.001 | 33.534 | 43.012 | 58.278 | 66.407 | 75.038 | 83.784 | 86.354 |
| 87.5 | 13.600 | 18.167 | 25.893 | 28.924 | 39.680 | 55.090 | 63.204 | 70.672 | 78.082 | 81.759 |
| 88.0 | 9.464 | 14.333 | 22.519 | 25.606 | 36.061 | 52.045 | 60.102 | 65.631 | 73.372 | 78.341 |
| 88.5 | 5.285 | 10.685 | 18.038 | 21.485 | 33.002 | 49.001 | 56.813 | 62.328 | 69.983 | 75.497 |
| 89.0 | 2.542 | 6.793 | 15.855 | 18.899 | 30.561 | 46.933 | 53.783 | 59.240 | 67.096 | 72.970 |
| 89.5 | 0.000 | 4.711 | 14.261 | 16.975 | 28.622 | 44.779 | 51.227 | 55.564 | 64.425 | 71.318 |
| 90.0 | 0.000 | 3.777 | 13.413 | 15.797 | 27.732 | 43.558 | 48.771 | 53.754 | 63.075 | 70.629 |
| 90.5 | 0.000 | 4.208 | 13.370 | 15.841 | 27.172 | 42.438 | 47.952 | 52.074 | 62.902 | 70.514 |
| 91.0 | 0.000 | 3.863 | 13.255 | 15.841 | 27.502 | 42.452 | 46.890 | 51.787 | 62.773 | 71.807 |
| 91.5 | 0.000 | 3.834 | 13.083 | 16.257 | 27.717 | 41.289 | 45.927 | 51.586 | 63.420 | 74.262 |
| 92.0 | 0.000 | 3.447 | 13.385 | 16.515 | 28.392 | 41.030 | 45.985 | 50.925 | 65.028 | 76.416 |
| 92.5 | 0.000 | 3.964 | 13.399 | 16.343 | 27.416 | 40.628 | 45.611 | 51.212 | 66.536 | 78.298 |
| 93.0 | 0.000 | 4.036 | 14.132 | 16.760 | 28.320 | 39.752 | 45.540 | 52.002 | 68.116 | 80.610 |
| 93.5 | 0.000 | 3.418 | 13.701 | 16.989 | 28.507 | 40.240 | 45.827 | 52.792 | 70.442 | 83.784 |
| 94.0 | 0.000 | 3.878 | 13.859 | 17.018 | 27.703 | 40.025 | 46.157 | 53.367 | 72.639 | 86.082 |
| 94.5 | 0.000 | 4.165 | 14.132 | 17.348 | 27.732 | 40.283 | 47.019 | 54.989 | 74.607 | 87.877 |
| 95.0 | 0.000 | 3.633 | 14.347 | 17.550 | 27.803 | 40.887 | 47.708 | 56.670 | 76.589 | 89.744 |
| 95.5 | 0.000 | 4.165 | 14.318 | 17.650 | 28.148 | 41.073 | 48.742 | 57.890 | 78.513 | 91.898 |
| 96.0 | 0.000 | 3.777 | 14.160 | 17.004 | 27.890 | 41.921 | 49.862 | 59.556 | 80.509 | 93.176 |
| 96.5 | 0.000 | 4.036 | 14.304 | 17.636 | 28.249 | 42.739 | 51.428 | 61.452 | 81.946 | 96.034 |
| 97.0 | 1.766 | 3.935 | 14.218 | 17.923 | 28.206 | 43.371 | 52.562 | 63.089 | 83.554 | 96.407 |
| 97.5 | 0.000 | 4.409 | 14.692 | 17.779 | 28.766 | 43.989 | 54.099 | 64.094 | 84.602 | 96.968 |
| 98.0 | 0.000 | 4.380 | 14.720 | 17.923 | 29.010 | 45.138 | 54.645 | 65.344 | 85.866 | 95.905 |
| 98.5 | 0.000 | 4.193 | 14.792 | 18.081 | 29.441 | 46.143 | 56.095 | 66.967 | 86.354 | 95.747 |
| 99.0 | 0.000 | 4.366 | 15.438 | 18.354 | 30.159 | 47.005 | 57.302 | 67.096 | 86.814 | 94.971 |
| 99.5 | 0.000 | 4.811 | 14.921 | 18.354 | 30.360 | 47.708 | 58.178 | 69.379 | 86.067 | 93.751 |
| 100.0 | 0.000 | 4.308 | 15.697 | 18.483 | 31.250 | 48.556 | 59.068 | 69.853 | 85.306 | 91.625 |
| 100.5 | 0.000 | 4.567 | 15.381 | 19.043 | 30.920 | 49.791 | 59.628 | 69.896 | 84.646 | 89.543 |
| 101.0 | 0.000 | 4.912 | 16.372 | 19.086 | 31.466 | 50.796 | 59.786 | 70.040 | 83.224 | 88.006 |
| 101.5 | 0.000 | 4.739 | 16.300 | 19.546 | 31.638 | 51.255 | 60.748 | 69.624 | 81.314 | 85.522 |
| 102.0 | 0.000 | 5.170 | 16.602 | 19.129 | 32.729 | 51.169 | 60.361 | 69.250 | 79.906 | 83.051 |
| 102.5 | 0.000 | 5.184 | 16.903 | 20.307 | 32.600 | 51.571 | 60.576 | 68.360 | 77.824 | 81.026 |
| 103.0 | 0.000 | 5.228 | 16.717 | 20.336 | 32.658 | 51.816 | 60.418 | 67.599 | 75.067 | 78.226 |
| 103.5 | 0.000 | 4.998 | 17.176 | 20.580 | 33.246 | 52.002 | 59.327 | 65.861 | 73.501 | 76.057 |
| 104.0 | 0.000 | 5.371 | 17.363 | 20.982 | 33.807 | 51.543 | 59.384 | 64.870 | 71.634 | 73.961 |
| 104.5 | 0.000 | 5.745 | 17.679 | 21.039 | 33.404 | 51.198 | 57.962 | 62.960 | 69.451 | 71.835 |
| 105.0 | 0.000 | 5.716 | 17.147 | 21.269 | 34.252 | 50.049 | 57.043 | 61.825 | 67.311 | 69.911 |
| 105.5 | 0.000 | 5.630 | 17.492 | 21.628 | 34.395 | 50.092 | 56.095 | 59.944 | 65.617 | 67.900 |
| 106.0 | 1.781 | 5.429 | 17.707 | 22.016 | 34.812 | 49.719 | 54.630 | 58.666 | 64.066 | 66.335 |
| 106.5 | 0.000 | 5.902 | 18.124 | 21.542 | 34.481 | 49.331 | 53.812 | 57.503 | 62.730 | 65.014 |
| 107.0 | 1.896 | 6.549 | 18.067 | 22.303 | 34.510 | 48.197 | 52.634 | 56.555 | 61.337 | 64.252 |
| 107.5 | 1.723 | 6.175 | 18.727 | 22.605 | 34.611 | 47.378 | 52.361 | 55.808 | 60.705 | 63.276 |
| 108.0 | 0.000 | 6.692 | 19.244 | 22.777 | 34.697 | 46.717 | 51.643 | 55.363 | 60.289 | 62.357 |
| 108.5 | 1.896 | 6.951 | 19.431 | 22.289 | 34.094 | 46.301 | 50.595 | 54.142 | 59.341 | 62.041 |
| 109.0 | 0.000 | 6.707 | 19.488 | 23.050 | 34.252 | 45.640 | 50.365 | 53.683 | 59.097 | 61.509 |
| 109.5 | 1.967 | 6.692 | 19.847 | 22.519 | 34.252 | 45.267 | 49.590 | 53.338 | 59.125 | 61.179 |
| 110.0 | 0.000 | 7.497 | 19.790 | 23.696 | 33.907 | 45.439 | 49.561 | 52.878 | 58.336 | 60.619 |
| 110.5 | 0.000 | 7.094 | 20.206 | 23.639 | 34.252 | 45.080 | 49.704 | 53.525 | 58.307 | 60.389 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 111.0 | 1.810 | 7.511 | 20.178 | 23.524 | 34.166 | 45.051 | 49.604 | 52.505 | 58.293 | 60.461 |
| 111.5 | 1.723 | 7.324 | 20.393 | 23.553 | 34.065 | 45.281 | 49.719 | 53.122 | 58.407 | 60.346 |
| 112.0 | 2.355 | 7.841 | 20.508 | 23.955 | 34.008 | 45.655 | 49.992 | 53.252 | 59.183 | 60.734 |
| 112.5 | 2.571 | 7.597 | 21.355 | 23.811 | 33.993 | 45.439 | 49.733 | 53.510 | 59.341 | 61.323 |
| 113.0 | 0.000 | 8.157 | 21.039 | 24.816 | 34.324 | 45.884 | 50.552 | 53.539 | 59.025 | 61.136 |
| 113.5 | 2.011 | 7.956 | 21.398 | 24.687 | 34.869 | 46.373 | 51.040 | 54.099 | 60.231 | 61.667 |
| 114.0 | 0.000 | 7.985 | 21.125 | 24.974 | 34.941 | 46.516 | 50.853 | 54.932 | 60.361 | 62.199 |
| 114.5 | 1.853 | 8.128 | 21.858 | 25.104 | 35.156 | 47.048 | 51.399 | 55.363 | 60.691 | 62.457 |
| 115.0 | 1.967 | 8.473 | 21.973 | 25.520 | 35.358 | 47.062 | 51.988 | 56.181 | 61.481 | 63.204 |
| 115.5 | 0.000 | 8.344 | 22.375 | 25.563 | 35.602 | 47.967 | 52.045 | 56.124 | 61.653 | 63.348 |
| 116.0 | 2.599 | 8.689 | 22.676 | 25.319 | 35.860 | 48.197 | 53.122 | 56.411 | 61.840 | 64.166 |
| 116.5 | 1.795 | 8.473 | 22.504 | 25.908 | 35.788 | 48.240 | 53.352 | 57.158 | 62.960 | 64.626 |
| 117.0 | 1.953 | 8.890 | 22.547 | 25.908 | 36.449 | 49.345 | 53.668 | 58.063 | 63.075 | 65.243 |
| 117.5 | 0.000 | 8.818 | 22.519 | 25.678 | 36.664 | 48.843 | 54.702 | 58.479 | 63.750 | 65.890 |
| 118.0 | 2.298 | 8.071 | 22.892 | 25.506 | 37.067 | 49.604 | 54.803 | 58.896 | 63.822 | 65.775 |
| 118.5 | 2.097 | 9.435 | 22.964 | 26.468 | 37.311 | 50.193 | 54.932 | 59.025 | 64.439 | 66.622 |
| 119.0 | 2.312 | 9.220 | 23.308 | 27.229 | 38.057 | 50.379 | 54.989 | 59.384 | 65.014 | 66.837 |
| 119.5 | 0.000 | 9.163 | 23.107 | 26.856 | 37.641 | 50.896 | 55.679 | 59.700 | 65.459 | 67.929 |
| 120.0 | 3.073 | 8.990 | 23.380 | 26.597 | 37.899 | 51.083 | 55.808 | 60.533 | 65.531 | 67.685 |
| 120.5 | 2.958 | 8.588 | 23.323 | 26.870 | 38.330 | 51.026 | 56.339 | 60.806 | 65.904 | 68.446 |
| 121.0 | 2.800 | 9.119 | 23.007 | 26.310 | 38.187 | 51.313 | 56.512 | 60.892 | 66.593 | 68.776 |
| 121.5 | 2.973 | 9.378 | 22.490 | 26.856 | 37.871 | 51.011 | 56.871 | 60.992 | 66.794 | 69.035 |
| 122.0 | 2.757 | 9.277 | 22.834 | 26.468 | 37.756 | 51.399 | 56.698 | 61.438 | 67.053 | 69.250 |
| 122.5 | 2.384 | 9.249 | 23.222 | 26.640 | 38.000 | 50.738 | 56.124 | 61.122 | 66.579 | 69.265 |
| 123.0 | 2.858 | 9.177 | 23.036 | 26.540 | 37.368 | 51.112 | 56.756 | 61.265 | 66.967 | 69.265 |
| 123.5 | 2.542 | 8.559 | 22.849 | 26.080 | 37.799 | 50.968 | 56.540 | 60.519 | 67.110 | 69.135 |
| 124.0 | 3.002 | 8.803 | 22.274 | 26.238 | 37.483 | 50.351 | 56.641 | 60.231 | 66.680 | 69.451 |
| 124.5 | 2.887 | 8.760 | 22.045 | 25.577 | 36.636 | 50.322 | 55.909 | 60.648 | 66.364 | 69.250 |
| 125.0 | 3.303 | 8.689 | 21.714 | 25.477 | 36.463 | 50.351 | 55.133 | 59.987 | 66.478 | 69.207 |
| 125.5 | 2.456 | 8.689 | 21.269 | 25.017 | 35.515 | 50.063 | 54.831 | 59.642 | 66.277 | 69.279 |
| 126.0 | 3.504 | 8.818 | 21.039 | 24.615 | 35.559 | 49.058 | 54.573 | 59.140 | 66.119 | 68.676 |
| 126.5 | 2.815 | 9.033 | 21.255 | 24.529 | 35.128 | 48.800 | 54.042 | 58.508 | 65.588 | 68.618 |
| 127.0 | 3.030 | 8.330 | 21.355 | 23.940 | 34.826 | 48.455 | 53.754 | 58.580 | 64.813 | 67.843 |
| 127.5 | 3.145 | 8.588 | 20.163 | 23.423 | 33.921 | 47.995 | 53.137 | 57.876 | 64.152 | 67.283 |
| 128.0 | 3.016 | 8.330 | 20.005 | 23.409 | 33.649 | 46.732 | 52.462 | 56.655 | 63.563 | 66.665 |
| 128.5 | 2.844 | 8.200 | 19.718 | 22.576 | 32.672 | 46.416 | 51.729 | 55.865 | 63.104 | 66.177 |
| 129.0 | 3.030 | 8.157 | 19.460 | 22.303 | 32.557 | 45.525 | 50.753 | 55.262 | 62.773 | 65.430 |
| 129.5 | 3.547 | 7.870 | 19.201 | 22.016 | 31.767 | 45.051 | 49.661 | 54.717 | 61.739 | 64.597 |
| 130.0 | 3.088 | 8.128 | 18.655 | 21.944 | 31.983 | 44.420 | 49.202 | 53.797 | 60.777 | 63.721 |
| 130.5 | 2.614 | 7.927 | 18.239 | 21.039 | 30.618 | 43.271 | 48.613 | 53.525 | 59.513 | 63.046 |
| 131.0 | 3.519 | 7.884 | 18.296 | 20.580 | 29.498 | 42.337 | 47.320 | 52.304 | 58.407 | 62.228 |
| 131.5 | 3.346 | 7.999 | 17.262 | 20.364 | 29.484 | 41.691 | 46.459 | 50.810 | 57.804 | 61.251 |
| 132.0 | 3.447 | 6.980 | 16.831 | 19.618 | 28.234 | 40.499 | 45.813 | 50.336 | 57.158 | 59.915 |
| 132.5 | 3.691 | 7.540 | 17.176 | 19.574 | 28.292 | 39.795 | 44.664 | 49.676 | 55.966 | 59.125 |
| 133.0 | 3.691 | 7.296 | 16.587 | 18.943 | 27.717 | 38.919 | 43.831 | 48.369 | 55.147 | 58.450 |
| 133.5 | 3.691 | 6.678 | 15.841 | 18.497 | 26.669 | 38.402 | 42.696 | 47.522 | 53.855 | 57.661 |
| 134.0 | 4.079 | 7.597 | 15.740 | 17.966 | 26.051 | 37.081 | 41.849 | 46.200 | 52.749 | 56.210 |
| 134.5 | 4.265 | 7.080 | 15.280 | 18.067 | 25.233 | 36.822 | 40.657 | 45.568 | 51.830 | 55.176 |
| 135.0 | 3.361 | 6.807 | 15.639 | 17.535 | 24.989 | 35.243 | 39.551 | 44.075 | 50.322 | 54.329 |
| 135.5 | 3.691 | 6.750 | 14.433 | 17.291 | 24.615 | 34.668 | 38.761 | 42.868 | 49.546 | 52.807 |
| 136.0 | 3.878 | 6.807 | 14.146 | 16.702 | 23.983 | 33.462 | 37.928 | 41.978 | 49.058 | 51.629 |
| 136.5 | 3.289 | 6.692 | 13.988 | 16.128 | 22.949 | 32.586 | 36.966 | 41.016 | 47.407 | 50.408 |
| 137.0 | 3.231 | 6.147 | 14.246 | 16.200 | 22.791 | 31.308 | 35.602 | 39.853 | 45.856 | 48.943 |
| 137.5 | 3.806 | 6.520 | 13.327 | 15.481 | 22.691 | 30.762 | 34.740 | 38.618 | 44.721 | 47.995 |
| 138.0 | 3.418 | 6.549 | 13.485 | 15.008 | 21.657 | 30.144 | 33.835 | 37.497 | 43.213 | 46.559 |
| 138.5 | 4.064 | 6.836 | 12.753 | 14.447 | 21.082 | 29.398 | 33.074 | 36.722 | 42.107 | 45.540 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 139.0 | 4.337 | 6.276 | 12.983 | 14.447 | 20.278 | 28.550 | 31.753 | 35.616 | 41.562 | 44.491 |
| 139.5 | 3.763 | 6.247 | 12.466 | 13.930 | 20.048 | 27.502 | 30.877 | 34.826 | 40.240 | 43.055 |
| 140.0 | 4.423 | 5.816 | 12.135 | 13.758 | 19.273 | 27.358 | 29.843 | 33.979 | 39.020 | 41.763 |
| 140.5 | 4.007 | 6.132 | 11.719 | 13.270 | 18.785 | 26.396 | 29.225 | 32.485 | 38.201 | 40.815 |
| 141.0 | 3.203 | 6.233 | 11.906 | 13.370 | 18.540 | 25.965 | 28.306 | 31.652 | 37.239 | 39.680 |
| 141.5 | 3.935 | 5.788 | 11.561 | 13.040 | 18.038 | 24.615 | 28.091 | 31.020 | 35.875 | 38.115 |
| 142.0 | 4.165 | 5.931 | 10.800 | 12.624 | 18.023 | 24.070 | 26.870 | 29.340 | 35.472 | 37.354 |
| 142.5 | 3.763 | 5.500 | 11.202 | 12.437 | 17.162 | 23.409 | 26.410 | 29.125 | 33.850 | 36.506 |
| 143.0 | 3.978 | 5.960 | 10.857 | 11.819 | 17.420 | 23.323 | 25.980 | 28.335 | 32.844 | 35.042 |
| 143.5 | 3.820 | 6.075 | 10.441 | 11.848 | 16.788 | 22.303 | 24.989 | 27.430 | 31.552 | 34.410 |
| 144.0 | 4.136 | 5.543 | 10.656 | 11.202 | 16.085 | 22.131 | 24.184 | 27.229 | 31.150 | 33.333 |
| 144.5 | 3.504 | 5.342 | 10.383 | 11.417 | 15.166 | 21.269 | 23.452 | 26.195 | 30.719 | 32.299 |
| 145.0 | 4.265 | 4.983 | 10.369 | 11.274 | 15.424 | 20.896 | 23.351 | 25.233 | 29.311 | 31.796 |
| 145.5 | 3.662 | 5.917 | 10.125 | 11.073 | 15.539 | 20.695 | 22.404 | 24.773 | 28.809 | 31.020 |
| 146.0 | 3.978 | 5.156 | 9.565 | 10.828 | 14.850 | 20.537 | 21.757 | 23.983 | 27.947 | 30.202 |
| 146.5 | 4.208 | 5.931 | 9.565 | 10.484 | 14.706 | 19.747 | 21.169 | 22.863 | 26.913 | 29.010 |
| 147.0 | 4.064 | 5.113 | 9.507 | 10.340 | 14.519 | 18.512 | 20.953 | 22.777 | 26.683 | 28.076 |
| 147.5 | 3.791 | 5.615 | 9.249 | 10.110 | 14.232 | 18.540 | 20.738 | 22.045 | 25.534 | 28.378 |
| 148.0 | 4.208 | 5.299 | 9.048 | 9.895 | 13.801 | 17.865 | 19.804 | 21.470 | 24.931 | 27.042 |
| 148.5 | 4.553 | 5.314 | 9.119 | 9.866 | 13.816 | 17.248 | 19.158 | 21.528 | 24.558 | 26.296 |
| 149.0 | 4.136 | 5.228 | 9.134 | 9.694 | 13.227 | 17.664 | 19.201 | 20.680 | 23.711 | 25.520 |
| 149.5 | 4.955 | 5.443 | 8.516 | 9.249 | 13.040 | 16.946 | 18.196 | 19.862 | 23.150 | 24.572 |
| 150.0 | 4.481 | 5.529 | 8.531 | 9.292 | 12.523 | 17.061 | 17.865 | 19.747 | 22.576 | 23.897 |
| 150.5 | 4.150 | 4.955 | 8.358 | 9.335 | 11.834 | 16.013 | 17.880 | 19.388 | 21.671 | 23.380 |
| 151.0 | 4.754 | 5.328 | 8.416 | 8.918 | 12.221 | 15.841 | 17.176 | 19.402 | 21.039 | 22.533 |
| 151.5 | 4.696 | 5.314 | 8.042 | 8.861 | 12.164 | 15.352 | 16.831 | 18.052 | 20.364 | 22.504 |
| 152.0 | 4.481 | 5.529 | 7.813 | 8.717 | 11.848 | 15.324 | 16.530 | 17.478 | 20.135 | 21.413 |
| 152.5 | 4.581 | 5.113 | 7.813 | 8.617 | 11.518 | 15.137 | 15.496 | 17.392 | 19.819 | 20.953 |
| 153.0 | 4.093 | 5.256 | 7.870 | 8.157 | 10.771 | 14.246 | 15.683 | 16.903 | 19.373 | 21.097 |
| 153.5 | 4.179 | 4.868 | 7.497 | 8.215 | 10.398 | 13.729 | 14.893 | 16.587 | 19.000 | 19.804 |
| 154.0 | 4.323 | 5.041 | 7.683 | 8.258 | 10.354 | 14.088 | 14.591 | 16.085 | 17.880 | 19.905 |
| 154.5 | 4.308 | 5.055 | 7.181 | 8.114 | 10.469 | 14.088 | 14.534 | 15.654 | 17.535 | 19.072 |
| 155.0 | 4.481 | 5.098 | 6.879 | 7.468 | 9.723 | 13.284 | 13.916 | 15.122 | 17.506 | 18.856 |
| 155.5 | 4.323 | 5.285 | 7.181 | 8.028 | 9.809 | 13.184 | 13.284 | 15.252 | 16.630 | 17.794 |
| 156.0 | 3.964 | 4.868 | 7.238 | 7.712 | 9.579 | 12.566 | 13.241 | 14.649 | 16.731 | 17.305 |
| 156.5 | 4.265 | 4.596 | 7.209 | 7.525 | 8.789 | 12.394 | 13.083 | 14.002 | 16.128 | 17.205 |
| 157.0 | 4.653 | 4.739 | 6.692 | 6.362 | 9.076 | 11.762 | 13.313 | 13.887 | 15.869 | 16.717 |
| 157.5 | 4.395 | 4.926 | 6.233 | 6.621 | 9.119 | 11.934 | 12.221 | 13.672 | 15.194 | 15.869 |
| 158.0 | 4.854 | 4.768 | 6.707 | 7.066 | 9.091 | 11.432 | 12.221 | 13.270 | 14.232 | 16.171 |
| 158.5 | 4.193 | 4.366 | 6.060 | 6.850 | 8.401 | 11.001 | 11.891 | 12.796 | 14.189 | 15.266 |
| 159.0 | 4.007 | 4.754 | 6.319 | 6.606 | 8.315 | 10.872 | 11.446 | 13.011 | 14.203 | 14.950 |
| 159.5 | 3.490 | 4.639 | 6.477 | 6.218 | 8.358 | 10.211 | 11.144 | 12.351 | 14.017 | 15.036 |
| 160.0 | 4.122 | 4.553 | 5.572 | 6.262 | 7.827 | 10.024 | 10.814 | 11.561 | 13.557 | 14.261 |
| 160.5 | 4.208 | 4.280 | 5.644 | 6.333 | 7.956 | 9.565 | 9.866 | 11.690 | 12.954 | 14.031 |
| 161.0 | 3.676 | 4.093 | 5.917 | 5.615 | 7.353 | 9.550 | 10.053 | 10.699 | 12.580 | 13.514 |
| 161.5 | 3.978 | 4.323 | 5.285 | 5.587 | 7.425 | 9.277 | 9.665 | 10.943 | 12.193 | 13.011 |
| 162.0 | 4.337 | 4.395 | 5.199 | 5.701 | 7.166 | 8.861 | 10.082 | 10.670 | 12.035 | 12.882 |
| 162.5 | 3.590 | 4.782 | 5.041 | 5.802 | 7.511 | 9.005 | 9.306 | 9.967 | 11.676 | 12.265 |
| 163.0 | 4.064 | 4.624 | 5.228 | 5.414 | 6.448 | 8.488 | 9.005 | 9.737 | 11.001 | 12.193 |
| 163.5 | 3.992 | 4.351 | 5.342 | 5.529 | 6.822 | 8.574 | 8.545 | 9.622 | 10.656 | 11.949 |
| 164.0 | 4.337 | 4.265 | 5.371 | 5.256 | 6.391 | 8.559 | 8.186 | 9.263 | 10.900 | 11.834 |
| 164.5 | 3.720 | 3.820 | 5.342 | 5.141 | 6.937 | 8.243 | 7.999 | 8.775 | 10.814 | 11.202 |
| 165.0 | 4.754 | 3.849 | 5.500 | 5.184 | 6.104 | 7.899 | 7.568 | 8.588 | 9.924 | 10.642 |
| 165.5 | 3.992 | 4.509 | 5.486 | 5.084 | 6.118 | 7.353 | 7.597 | 7.942 | 9.220 | 10.268 |
| 166.0 | 4.438 | 4.624 | 5.113 | 4.395 | 5.888 | 7.454 | 7.712 | 8.100 | 9.234 | 9.723 |
| 166.5 | 4.280 | 4.251 | 4.639 | 4.926 | 5.543 | 7.252 | 6.994 | 7.468 | 8.631 | 9.507 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.0 | 4.107 | 4.107 | 4.897 | 4.581 | 5.199 | 6.606 | 6.750 | 7.353 | 8.646 | 9.163 |
| 167.5 | 3.935 | 4.509 | 5.070 | 4.222 | 5.113 | 6.276 | 7.123 | 7.281 | 8.373 | 9.177 |
| 168.0 | 4.524 | 4.280 | 4.711 | 4.610 | 5.457 | 6.721 | 6.764 | 7.152 | 8.301 | 8.531 |
| 168.5 | 4.136 | 3.878 | 4.912 | 4.768 | 5.601 | 6.032 | 6.391 | 6.793 | 7.726 | 8.416 |
| 169.0 | 3.892 | 4.050 | 4.940 | 4.667 | 5.572 | 5.414 | 6.003 | 6.276 | 6.448 | 7.626 |
| 169.5 | 4.193 | 4.179 | 5.156 | 4.495 | 5.256 | 5.946 | 5.745 | 6.032 | 6.836 | 7.698 |
| 170.0 | 4.639 | 4.021 | 4.926 | 4.423 | 5.041 | 5.831 | 5.342 | 5.931 | 6.692 | 6.678 |
| 170.5 | 4.495 | 4.452 | 4.653 | 4.050 | 4.998 | 5.314 | 5.960 | 6.506 | 6.707 | 6.276 |
| 171.0 | 4.538 | 4.366 | 4.380 | 4.466 | 4.854 | 5.658 | 5.429 | 5.587 | 5.960 | 6.563 |
| 171.5 | 4.868 | 4.265 | 4.581 | 4.021 | 4.380 | 5.141 | 5.658 | 5.845 | 5.874 | 6.448 |
| 172.0 | 4.538 | 4.222 | 4.380 | 4.696 | 4.983 | 5.098 | 5.098 | 5.429 | 5.859 | 6.233 |
| 172.5 | 3.820 | 4.136 | 4.021 | 4.064 | 4.380 | 4.567 | 4.711 | 5.184 | 5.558 | 5.472 |
| 173.0 | 4.079 | 4.265 | 4.308 | 4.409 | 5.012 | 4.667 | 4.768 | 5.026 | 5.357 | 5.242 |
| 173.5 | 3.547 | 4.136 | 4.222 | 4.754 | 4.021 | 4.825 | 4.782 | 4.739 | 5.371 | 4.969 |
| 174.0 | 4.481 | 3.878 | 4.768 | 3.547 | 4.323 | 4.093 | 4.596 | 4.395 | 4.423 | 5.070 |
| 174.5 | 4.466 | 3.949 | 4.122 | 3.763 | 3.978 | 4.538 | 4.696 | 4.380 | 5.084 | 4.854 |
| 175.0 | 4.251 | 3.547 | 4.208 | 4.179 | 4.208 | 4.136 | 4.624 | 4.323 | 4.696 | 4.840 |
| 175.5 | 4.423 | 4.093 | 4.251 | 3.863 | 4.050 | 3.791 | 3.878 | 3.906 | 4.610 | 4.581 |
| 176.0 | 4.237 | 4.122 | 4.079 | 3.605 | 3.720 | 4.466 | 4.280 | 4.237 | 4.538 | 4.639 |
| 176.5 | 4.897 | 3.504 | 4.007 | 3.633 | 3.892 | 3.935 | 4.222 | 3.978 | 4.395 | 4.509 |
| 177.0 | 3.619 | 3.949 | 3.691 | 4.122 | 4.610 | 3.935 | 4.021 | 3.791 | 4.624 | 4.624 |
| 177.5 | 3.863 | 3.863 | 4.021 | 3.748 | 3.519 | 3.763 | 3.375 | 3.662 | 4.567 | 3.964 |
| 178.0 | 4.323 | 3.633 | 4.208 | 3.734 | 4.308 | 4.150 | 3.849 | 3.461 | 3.806 | 3.878 |
| 178.5 | 3.777 | 3.447 | 4.021 | 3.892 | 4.007 | 4.136 | 4.050 | 3.490 | 3.834 | 4.567 |
| 179.0 | 4.136 | 3.691 | 4.351 | 3.461 | 4.366 | 3.978 | 3.662 | 3.289 | 3.547 | 3.863 |
| 179.5 | 4.581 | 4.150 | 3.691 | 3.605 | 3.619 | 3.791 | 3.863 | 3.705 | 3.002 | 4.193 |
| 180.0 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 | 3.791 |

Vert. Horizontal Angles
Angles

| | <u>70.0</u> | <u>80.0</u> | <u>90.0</u> |
|------|-------------|-------------|-------------|
| 0.0 | 1419.356 | 1419.356 | 1419.356 |
| 0.5 | 1418.882 | 1419.385 | 1421.726 |
| 1.0 | 1420.002 | 1420.160 | 1421.855 |
| 1.5 | 1422.013 | 1423.277 | 1425.230 |
| 2.0 | 1425.029 | 1426.307 | 1428.217 |
| 2.5 | 1429.624 | 1430.314 | 1432.597 |
| 3.0 | 1433.344 | 1434.952 | 1437.681 |
| 3.5 | 1437.638 | 1438.715 | 1441.042 |
| 4.0 | 1441.113 | 1442.794 | 1444.704 |
| 4.5 | 1444.445 | 1446.011 | 1448.509 |
| 5.0 | 1448.380 | 1449.773 | 1452.760 |
| 5.5 | 1452.401 | 1452.732 | 1455.690 |
| 6.0 | 1455.791 | 1454.685 | 1456.638 |
| 6.5 | 1458.218 | 1455.848 | 1457.500 |
| 7.0 | 1458.936 | 1455.360 | 1456.064 |
| 7.5 | 1458.519 | 1454.096 | 1453.493 |
| 8.0 | 1456.466 | 1450.190 | 1449.974 |
| 8.5 | 1452.775 | 1445.867 | 1444.833 |
| 9.0 | 1446.729 | 1438.859 | 1437.466 |
| 9.5 | 1440.367 | 1431.779 | 1428.734 |
| 10.0 | 1432.511 | 1422.300 | 1418.681 |
| 10.5 | 1422.688 | 1411.946 | 1407.623 |
| 11.0 | 1411.759 | 1402.209 | 1397.182 |
| 11.5 | 1401.333 | 1392.888 | 1387.962 |
| 12.0 | 1391.624 | 1383.654 | 1379.403 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------------|----------|----------|----------|
| 12.5 | 1382.993 | 1376.014 | 1372.696 |
| 13.0 | 1375.382 | 1370.097 | 1367.957 |
| 13.5 | 1369.551 | 1365.472 | 1364.252 |
| 14.0 | 1364.553 | 1362.528 | 1362.284 |
| 14.5 | 1362.198 | 1362.974 | 1362.586 |
| 15.0 | 1361.351 | 1365.228 | 1364.711 |
| 15.5 | 1362.658 | 1369.264 | 1369.005 |
| 16.0 | 1366.004 | 1375.583 | 1374.908 |
| 16.5 | 1370.140 | 1381.098 | 1379.819 |
| 17.0 | 1375.640 | 1386.052 | 1384.788 |
| 17.5 | 1380.351 | 1390.203 | 1389.068 |
| 18.0 | 1383.568 | 1392.874 | 1391.122 |
| 18.5 | 1385.420 | 1392.285 | 1389.915 |
| 19.0 | 1384.286 | 1388.091 | 1385.420 |
| 19.5 | 1381.471 | 1381.500 | 1377.938 |
| 20.0 | 1376.014 | 1373.084 | 1368.302 |
| 20.5 | 1368.215 | 1362.356 | 1357.617 |
| 21.0 | 1358.622 | 1350.838 | 1346.271 |
| 21.5 | 1347.664 | 1338.660 | 1333.116 |
| 22.0 | 1336.003 | 1326.639 | 1321.383 |
| 22.5 | 1324.571 | 1315.509 | 1311.000 |
| 23.0 | 1312.393 | 1305.902 | 1300.732 |
| 23.5 | 1301.507 | 1297.242 | 1293.393 |
| 24.0 | 1292.029 | 1291.124 | 1286.974 |
| 24.5 | 1284.532 | 1286.385 | 1283.642 |
| 25.0 | 1277.754 | 1283.441 | 1280.942 |
| 25.5 | 1273.072 | 1281.545 | 1280.956 |
| 26.0 | 1270.228 | 1278.845 | 1279.965 |
| 26.5 | 1267.198 | 1275.599 | 1276.662 |
| 27.0 | 1264.958 | 1270.271 | 1271.650 |
| 27.5 | 1262.430 | 1264.211 | 1264.872 |
| 28.0 | 1258.150 | 1255.939 | 1256.169 |
| 28.5 | 1251.989 | 1247.552 | 1247.336 |
| 29.0 | 1245.197 | 1239.912 | 1239.222 |
| 29.5 | 1236.924 | 1231.855 | 1231.424 |
| 30.0 | 1228.537 | 1225.163 | 1224.057 |
| 30.5 | 1220.308 | 1218.829 | 1217.781 |
| 31.0 | 1212.826 | 1213.113 | 1215.311 |
| 31.5 | 1205.588 | 1207.828 | 1212.453 |
| 32.0 | 1199.485 | 1202.917 | 1208.704 |
| 32.5 | 1193.122 | 1198.034 | 1204.698 |
| 33.0 | 1186.660 | 1191.887 | 1199.887 |
| 33.5 | 1180.169 | 1184.247 | 1190.164 |
| 34.0 | 1172.930 | 1174.625 | 1178.847 |
| 34.5 | 1165.463 | 1162.863 | 1165.549 |
| 35.0 | 1157.061 | 1150.053 | 1150.570 |
| 35.5 | 1146.836 | 1135.936 | 1135.347 |
| 36.0 | 1136.194 | 1122.551 | 1120.497 |
| 36.5 | 1123.212 | 1109.023 | 1108.175 |
| 37.0 | 1109.339 | 1097.045 | 1097.749 |
| 37.5 | 1095.753 | 1086.116 | 1086.820 |
| 38.0 | 1081.765 | 1074.986 | 1076.997 |
| 38.5 | 1068.897 | 1064.732 | 1065.982 |
| 39.0 | 1056.748 | 1054.220 | 1054.723 |
| 39.5 | 1044.023 | 1043.018 | 1043.822 |
| 40.0 | 1031.472 | 1031.127 | 1032.262 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------------|----------|----------|----------|
| 40.5 | 1018.690 | 1019.150 | 1021.132 |
| 41.0 | 1006.124 | 1006.799 | 1009.743 |
| 41.5 | 993.500 | 994.678 | 999.561 |
| 42.0 | 980.159 | 983.749 | 989.278 |
| 42.5 | 966.185 | 971.628 | 977.114 |
| 43.0 | 952.513 | 959.019 | 965.338 |
| 43.5 | 938.482 | 945.361 | 951.350 |
| 44.0 | 924.250 | 930.584 | 936.716 |
| 44.5 | 909.185 | 914.858 | 918.807 |
| 45.0 | 893.804 | 897.509 | 900.554 |
| 45.5 | 877.131 | 879.256 | 881.769 |
| 46.0 | 860.026 | 859.639 | 859.667 |
| 46.5 | 841.917 | 839.878 | 838.140 |
| 47.0 | 823.807 | 818.494 | 815.995 |
| 47.5 | 804.994 | 797.727 | 794.051 |
| 48.0 | 785.132 | 775.510 | 770.800 |
| 48.5 | 765.716 | 753.351 | 748.956 |
| 49.0 | 745.639 | 731.220 | 726.854 |
| 49.5 | 725.088 | 709.348 | 704.034 |
| 50.0 | 704.666 | 688.122 | 682.708 |
| 50.5 | 683.957 | 666.293 | 660.807 |
| 51.0 | 662.932 | 644.664 | 640.069 |
| 51.5 | 642.122 | 624.329 | 619.489 |
| 52.0 | 621.514 | 604.324 | 598.608 |
| 52.5 | 600.920 | 584.519 | 579.033 |
| 53.0 | 580.742 | 565.189 | 559.143 |
| 53.5 | 562.159 | 546.936 | 541.148 |
| 54.0 | 543.374 | 528.884 | 523.541 |
| 54.5 | 524.848 | 511.707 | 506.020 |
| 55.0 | 507.083 | 495.091 | 489.390 |
| 55.5 | 490.309 | 479.466 | 473.751 |
| 56.0 | 474.153 | 464.689 | 457.982 |
| 56.5 | 458.757 | 450.098 | 444.080 |
| 57.0 | 444.396 | 435.865 | 429.245 |
| 57.5 | 430.150 | 421.935 | 416.033 |
| 58.0 | 416.363 | 408.234 | 402.461 |
| 58.5 | 402.763 | 395.611 | 388.602 |
| 59.0 | 390.369 | 382.312 | 375.605 |
| 59.5 | 377.688 | 369.444 | 363.815 |
| 60.0 | 365.481 | 357.324 | 350.646 |
| 60.5 | 353.891 | 345.289 | 339.300 |
| 61.0 | 342.259 | 333.297 | 327.955 |
| 61.5 | 331.028 | 321.851 | 316.609 |
| 62.0 | 320.760 | 311.353 | 305.996 |
| 62.5 | 310.376 | 300.726 | 294.680 |
| 63.0 | 299.649 | 289.868 | 284.584 |
| 63.5 | 290.213 | 279.873 | 274.157 |
| 64.0 | 279.930 | 270.079 | 264.851 |
| 64.5 | 270.438 | 261.347 | 255.559 |
| 65.0 | 261.778 | 253.305 | 248.393 |
| 65.5 | 253.649 | 245.305 | 239.891 |
| 66.0 | 245.176 | 237.148 | 232.811 |
| 66.5 | 237.766 | 230.197 | 226.147 |
| 67.0 | 230.671 | 222.959 | 219.182 |
| 67.5 | 224.051 | 216.425 | 212.547 |
| 68.0 | 216.798 | 209.503 | 205.998 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------------|---------|---------|---------|
| 68.5 | 209.919 | 203.356 | 200.484 |
| 69.0 | 203.715 | 196.678 | 194.351 |
| 69.5 | 197.482 | 191.077 | 188.564 |
| 70.0 | 191.135 | 185.146 | 183.351 |
| 70.5 | 185.476 | 180.134 | 178.597 |
| 71.0 | 179.961 | 175.036 | 173.772 |
| 71.5 | 174.461 | 170.698 | 169.506 |
| 72.0 | 169.765 | 166.677 | 166.663 |
| 72.5 | 165.830 | 163.159 | 164.221 |
| 73.0 | 162.311 | 159.956 | 161.148 |
| 73.5 | 158.276 | 156.610 | 158.922 |
| 74.0 | 154.829 | 154.169 | 155.562 |
| 74.5 | 151.067 | 151.598 | 154.441 |
| 75.0 | 148.309 | 149.932 | 153.379 |
| 75.5 | 145.236 | 148.008 | 152.029 |
| 76.0 | 143.311 | 146.902 | 151.411 |
| 76.5 | 141.588 | 145.925 | 151.368 |
| 77.0 | 140.611 | 146.141 | 152.359 |
| 77.5 | 138.759 | 146.959 | 152.445 |
| 78.0 | 138.587 | 146.787 | 153.364 |
| 78.5 | 137.854 | 146.500 | 153.235 |
| 79.0 | 137.696 | 147.060 | 153.494 |
| 79.5 | 136.562 | 147.792 | 155.231 |
| 80.0 | 136.475 | 147.677 | 154.039 |
| 80.5 | 136.418 | 146.945 | 153.896 |
| 81.0 | 135.140 | 145.738 | 153.321 |
| 81.5 | 133.776 | 144.546 | 151.440 |
| 82.0 | 132.713 | 143.039 | 148.424 |
| 82.5 | 130.860 | 140.123 | 145.092 |
| 83.0 | 128.175 | 136.059 | 140.123 |
| 83.5 | 124.929 | 130.975 | 134.163 |
| 84.0 | 120.491 | 124.182 | 126.552 |
| 84.5 | 115.192 | 118.797 | 119.357 |
| 85.0 | 109.447 | 111.918 | 112.751 |
| 85.5 | 103.344 | 105.742 | 106.489 |
| 86.0 | 97.499 | 100.228 | 100.673 |
| 86.5 | 91.683 | 95.115 | 96.479 |
| 87.0 | 87.245 | 90.993 | 91.970 |
| 87.5 | 81.888 | 86.828 | 89.112 |
| 88.0 | 79.461 | 84.847 | 87.446 |
| 88.5 | 76.373 | 82.376 | 85.220 |
| 89.0 | 74.751 | 80.940 | 83.267 |
| 89.5 | 72.984 | 79.978 | 83.051 |
| 90.0 | 72.481 | 80.452 | 83.870 |
| 90.5 | 72.611 | 82.793 | 86.886 |
| 91.0 | 74.865 | 84.559 | 89.255 |
| 91.5 | 76.991 | 87.949 | 91.625 |
| 92.0 | 79.519 | 90.577 | 94.756 |
| 92.5 | 81.371 | 93.061 | 96.939 |
| 93.0 | 84.387 | 95.460 | 100.486 |
| 93.5 | 86.872 | 98.418 | 102.597 |
| 94.0 | 89.413 | 100.960 | 105.139 |
| 94.5 | 91.151 | 102.712 | 107.150 |
| 95.0 | 92.616 | 104.723 | 109.132 |
| 95.5 | 95.086 | 106.331 | 109.921 |
| 96.0 | 97.226 | 107.753 | 111.128 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|--------------|--------|---------|---------|
| 96.5 | 98.533 | 107.667 | 109.218 |
| 97.0 | 98.562 | 107.379 | 109.088 |
| 97.5 | 98.849 | 105.958 | 107.035 |
| 98.0 | 98.231 | 104.177 | 105.010 |
| 98.5 | 97.815 | 102.382 | 102.841 |
| 99.0 | 96.221 | 100.500 | 100.788 |
| 99.5 | 94.526 | 97.341 | 98.016 |
| 100.0 | 92.717 | 95.259 | 95.215 |
| 100.5 | 90.419 | 92.903 | 93.722 |
| 101.0 | 87.992 | 90.706 | 90.376 |
| 101.5 | 86.311 | 87.891 | 88.020 |
| 102.0 | 84.172 | 85.837 | 86.354 |
| 102.5 | 81.673 | 83.339 | 83.425 |
| 103.0 | 78.829 | 80.624 | 81.141 |
| 103.5 | 76.819 | 77.666 | 78.068 |
| 104.0 | 74.205 | 74.636 | 75.512 |
| 104.5 | 72.051 | 72.683 | 73.487 |
| 105.0 | 70.112 | 71.160 | 71.620 |
| 105.5 | 68.676 | 69.825 | 69.695 |
| 106.0 | 66.852 | 68.676 | 68.360 |
| 106.5 | 65.631 | 67.240 | 67.441 |
| 107.0 | 64.066 | 66.163 | 66.234 |
| 107.5 | 63.161 | 64.899 | 65.243 |
| 108.0 | 62.831 | 63.721 | 63.937 |
| 108.5 | 62.156 | 62.989 | 64.051 |
| 109.0 | 61.380 | 62.946 | 62.773 |
| 109.5 | 61.179 | 62.701 | 63.017 |
| 110.0 | 60.849 | 62.314 | 62.113 |
| 110.5 | 60.964 | 61.998 | 61.912 |
| 111.0 | 60.992 | 61.754 | 61.897 |
| 111.5 | 60.791 | 61.581 | 61.280 |
| 112.0 | 61.208 | 62.472 | 62.687 |
| 112.5 | 60.691 | 62.141 | 62.658 |
| 113.0 | 61.739 | 62.859 | 63.147 |
| 113.5 | 61.969 | 63.003 | 62.730 |
| 114.0 | 62.500 | 63.247 | 63.707 |
| 114.5 | 62.429 | 63.879 | 63.434 |
| 115.0 | 63.534 | 64.238 | 64.267 |
| 115.5 | 63.735 | 64.482 | 64.827 |
| 116.0 | 64.296 | 65.200 | 65.042 |
| 116.5 | 64.755 | 65.315 | 65.416 |
| 117.0 | 65.358 | 66.349 | 65.732 |
| 117.5 | 65.660 | 66.981 | 66.636 |
| 118.0 | 66.062 | 67.010 | 67.024 |
| 118.5 | 66.938 | 67.757 | 67.283 |
| 119.0 | 67.627 | 68.360 | 67.900 |
| 119.5 | 67.699 | 68.805 | 68.317 |
| 120.0 | 68.475 | 68.618 | 68.977 |
| 120.5 | 68.288 | 68.647 | 68.791 |
| 121.0 | 68.834 | 69.423 | 69.207 |
| 121.5 | 68.848 | 69.710 | 69.509 |
| 122.0 | 69.609 | 69.954 | 69.695 |
| 122.5 | 69.437 | 70.485 | 70.586 |
| 123.0 | 69.581 | 70.126 | 70.098 |
| 123.5 | 70.040 | 71.160 | 70.169 |
| 124.0 | 69.796 | 70.356 | 71.505 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------|--------|--------|--------|
| 124.5 | 69.868 | 70.327 | 69.738 |
| 125.0 | 69.293 | 70.514 | 70.155 |
| 125.5 | 68.963 | 69.925 | 70.327 |
| 126.0 | 68.776 | 69.882 | 69.609 |
| 126.5 | 68.647 | 69.379 | 69.394 |
| 127.0 | 68.159 | 69.509 | 68.906 |
| 127.5 | 68.044 | 68.302 | 69.063 |
| 128.0 | 67.197 | 68.173 | 68.546 |
| 128.5 | 66.464 | 67.541 | 68.389 |
| 129.0 | 66.163 | 67.139 | 67.182 |
| 129.5 | 65.272 | 66.119 | 66.608 |
| 130.0 | 64.884 | 65.516 | 66.680 |
| 130.5 | 63.448 | 64.985 | 64.985 |
| 131.0 | 62.529 | 63.879 | 64.468 |
| 131.5 | 61.639 | 63.434 | 63.147 |
| 132.0 | 60.748 | 62.587 | 62.400 |
| 132.5 | 59.714 | 61.380 | 60.921 |
| 133.0 | 58.996 | 60.389 | 60.490 |
| 133.5 | 58.048 | 59.355 | 59.542 |
| 134.0 | 56.540 | 58.264 | 58.450 |
| 134.5 | 55.564 | 57.129 | 57.618 |
| 135.0 | 54.932 | 56.469 | 56.181 |
| 135.5 | 52.677 | 55.004 | 55.506 |
| 136.0 | 52.275 | 53.797 | 53.912 |
| 136.5 | 50.437 | 52.878 | 52.850 |
| 137.0 | 49.676 | 51.557 | 52.605 |
| 137.5 | 48.398 | 50.308 | 51.026 |
| 138.0 | 47.119 | 49.130 | 49.417 |
| 138.5 | 45.856 | 48.254 | 48.168 |
| 139.0 | 44.606 | 47.048 | 47.881 |
| 139.5 | 43.314 | 45.712 | 46.660 |
| 140.0 | 42.667 | 44.678 | 45.396 |
| 140.5 | 41.317 | 43.141 | 43.558 |
| 141.0 | 39.953 | 41.648 | 43.026 |
| 141.5 | 39.005 | 41.030 | 41.605 |
| 142.0 | 37.828 | 39.752 | 39.996 |
| 142.5 | 36.937 | 39.637 | 39.321 |
| 143.0 | 35.386 | 37.770 | 38.445 |
| 143.5 | 34.855 | 36.190 | 37.325 |
| 144.0 | 33.203 | 35.171 | 35.717 |
| 144.5 | 33.002 | 34.855 | 34.869 |
| 145.0 | 31.868 | 33.419 | 34.223 |
| 145.5 | 31.164 | 33.060 | 33.074 |
| 146.0 | 30.489 | 32.485 | 32.471 |
| 146.5 | 29.110 | 31.078 | 31.351 |
| 147.0 | 28.062 | 30.101 | 30.949 |
| 147.5 | 27.531 | 29.599 | 30.116 |
| 148.0 | 26.611 | 28.407 | 28.622 |
| 148.5 | 26.410 | 27.933 | 27.732 |
| 149.0 | 25.262 | 26.870 | 27.071 |
| 149.5 | 25.132 | 26.511 | 27.215 |
| 150.0 | 24.543 | 25.477 | 26.425 |
| 150.5 | 23.797 | 24.587 | 25.262 |
| 151.0 | 23.208 | 24.127 | 24.874 |
| 151.5 | 22.073 | 23.323 | 24.500 |
| 152.0 | 22.131 | 23.265 | 23.366 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-------|--------|--------|--------|
| 152.5 | 21.240 | 22.921 | 22.720 |
| 153.0 | 20.939 | 22.260 | 22.303 |
| 153.5 | 20.221 | 21.628 | 21.772 |
| 154.0 | 19.675 | 21.197 | 21.327 |
| 154.5 | 18.813 | 20.321 | 20.810 |
| 155.0 | 18.397 | 19.517 | 20.508 |
| 155.5 | 18.181 | 19.503 | 19.057 |
| 156.0 | 17.837 | 18.986 | 19.460 |
| 156.5 | 17.248 | 18.411 | 18.741 |
| 157.0 | 16.846 | 17.923 | 18.440 |
| 157.5 | 16.731 | 17.392 | 17.550 |
| 158.0 | 15.754 | 17.205 | 17.420 |
| 158.5 | 15.467 | 16.702 | 16.630 |
| 159.0 | 14.850 | 16.774 | 15.941 |
| 159.5 | 14.447 | 16.271 | 15.496 |
| 160.0 | 14.275 | 15.496 | 15.639 |
| 160.5 | 13.615 | 14.692 | 15.467 |
| 161.0 | 13.930 | 14.433 | 14.692 |
| 161.5 | 12.968 | 14.390 | 13.902 |
| 162.0 | 12.796 | 13.959 | 13.859 |
| 162.5 | 12.423 | 13.241 | 13.600 |
| 163.0 | 11.906 | 13.270 | 13.299 |
| 163.5 | 11.776 | 12.954 | 12.509 |
| 164.0 | 11.360 | 12.351 | 12.896 |
| 164.5 | 10.584 | 12.006 | 12.049 |
| 165.0 | 10.685 | 11.518 | 11.417 |
| 165.5 | 10.484 | 10.742 | 10.886 |
| 166.0 | 10.067 | 10.656 | 9.967 |
| 166.5 | 9.378 | 10.311 | 10.426 |
| 167.0 | 9.277 | 9.866 | 9.694 |
| 167.5 | 8.531 | 9.794 | 9.062 |
| 168.0 | 8.071 | 9.407 | 9.206 |
| 168.5 | 8.430 | 8.531 | 8.531 |
| 169.0 | 7.195 | 8.286 | 9.220 |
| 169.5 | 7.310 | 8.114 | 8.315 |
| 170.0 | 6.951 | 7.454 | 8.272 |
| 170.5 | 6.348 | 7.482 | 7.224 |
| 171.0 | 5.946 | 7.454 | 7.267 |
| 171.5 | 5.989 | 6.807 | 6.879 |
| 172.0 | 6.003 | 6.692 | 6.147 |
| 172.5 | 5.587 | 7.051 | 5.788 |
| 173.0 | 5.127 | 5.658 | 5.673 |
| 173.5 | 4.481 | 6.104 | 5.730 |
| 174.0 | 4.639 | 4.897 | 5.615 |
| 174.5 | 4.653 | 5.213 | 5.371 |
| 175.0 | 4.395 | 5.299 | 4.768 |
| 175.5 | 4.538 | 4.739 | 4.825 |
| 176.0 | 4.553 | 4.538 | 4.323 |
| 176.5 | 3.849 | 4.754 | 4.251 |
| 177.0 | 3.949 | 4.466 | 4.179 |
| 177.5 | 3.777 | 4.366 | 3.906 |
| 178.0 | 3.633 | 4.093 | 4.079 |
| 178.5 | 3.590 | 4.308 | 3.949 |
| 179.0 | 3.317 | 3.777 | 4.395 |
| 179.5 | 3.289 | 3.562 | 4.093 |
| 180.0 | 3.791 | 3.791 | 3.791 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 529.45 | N.A. | 13.90 |
| 0-30 | 1125.83 | N.A. | 29.60 |
| 0-40 | 1840.87 | N.A. | 48.50 |
| 0-60 | 3032.56 | N.A. | 79.80 |
| 0-80 | 3474.38 | N.A. | 91.40 |
| 0-90 | 3559.12 | N.A. | 93.70 |
| 10-90 | 3421.82 | N.A. | 90.10 |
| 20-40 | 1311.43 | N.A. | 34.50 |
| 20-50 | 2007.41 | N.A. | 52.80 |
| 40-70 | 1476.17 | N.A. | 38.90 |
| 60-80 | 441.82 | N.A. | 11.60 |
| 70-80 | 157.34 | N.A. | 4.10 |
| 80-90 | 84.74 | N.A. | 2.20 |
| 90-110 | 105.62 | N.A. | 2.80 |
| 90-120 | 148.86 | N.A. | 3.90 |
| 90-130 | 190.14 | N.A. | 5.00 |
| 90-150 | 231.29 | N.A. | 6.10 |
| 90-180 | 240.35 | N.A. | 6.30 |
| 110-180 | 134.73 | N.A. | 3.50 |
| 0-180 | 3799.47 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 137.30 |
| 10-20 | 392.15 |
| 20-30 | 596.39 |
| 30-40 | 715.04 |
| 40-50 | 695.99 |
| 50-60 | 495.70 |
| 60-70 | 284.48 |
| 70-80 | 157.34 |
| 80-90 | 84.74 |
| 90-100 | 55.94 |
| 100-110 | 49.69 |
| 110-120 | 43.23 |
| 120-130 | 41.29 |
| 130-140 | 27.44 |
| 140-150 | 13.71 |
| 150-160 | 6.26 |
| 160-170 | 2.33 |
| 170-180 | 0.47 |

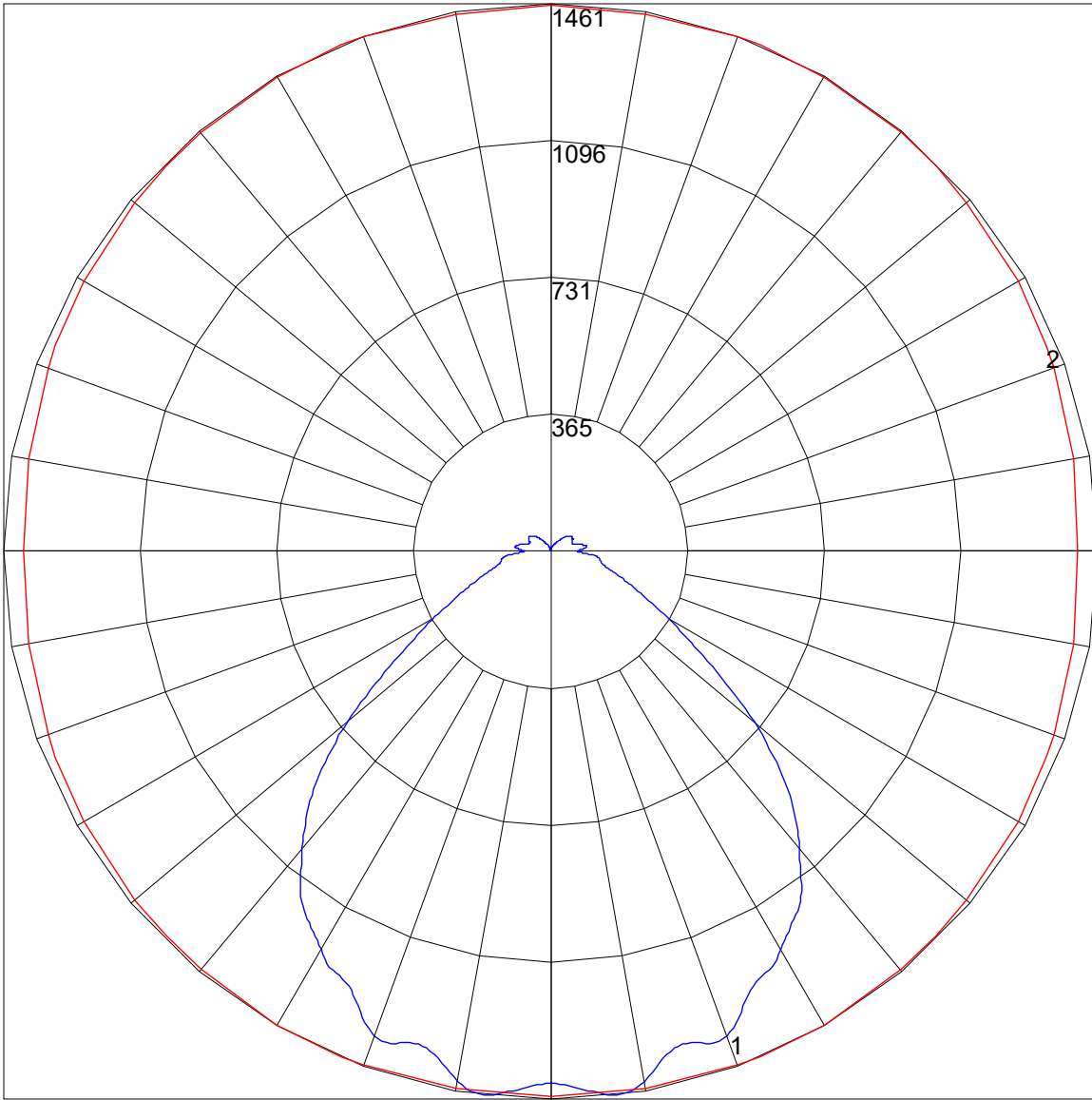
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 770-48LED32DMV30.IES

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 | 118 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1 | 108 | 104 | 100 | 96 | | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 90 | 88 | 86 | 86 | 84 | 82 | 80 |
| 2 | 99 | 92 | 85 | 80 | | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 80 | 77 | 73 | 77 | 73 | 71 | 68 |
| 3 | 91 | 81 | 74 | 68 | | 88 | 79 | 72 | 67 | 75 | 70 | 65 | 72 | 67 | 63 | 69 | 64 | 61 | 59 |
| 4 | 84 | 73 | 64 | 58 | | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 65 | 59 | 55 | 62 | 57 | 53 | 51 |
| 5 | 77 | 65 | 57 | 51 | | 75 | 64 | 56 | 50 | 61 | 54 | 49 | 58 | 52 | 48 | 56 | 51 | 47 | 45 |
| 6 | 72 | 59 | 51 | 44 | | 69 | 58 | 50 | 44 | 55 | 48 | 43 | 53 | 47 | 42 | 51 | 46 | 41 | 39 |
| 7 | 66 | 54 | 45 | 39 | | 64 | 53 | 45 | 39 | 50 | 44 | 38 | 49 | 42 | 38 | 47 | 41 | 37 | 35 |
| 8 | 62 | 49 | 41 | 35 | | 60 | 48 | 40 | 35 | 46 | 39 | 34 | 45 | 38 | 34 | 43 | 37 | 33 | 31 |
| 9 | 58 | 45 | 37 | 32 | | 56 | 44 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 31 | 40 | 34 | 30 | 28 |
| 10 | 54 | 42 | 34 | 29 | | 53 | 41 | 34 | 29 | 39 | 33 | 28 | 38 | 32 | 28 | 37 | 31 | 28 | 26 |

POLAR GRAPH



Maximum Candela = 1461.334 Located At Horizontal Angle = 67.5, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)