

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

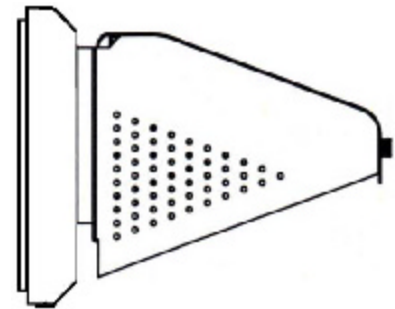
DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST]
 [TESTLAB]
 [TESTDATE]
 [ISSUE DATE]
 [NEARFIELD]
 [LAMPPOSITION]
 [OTHER] EVERFINE GO-2000A_V1 SYSTEM
 [MANUFAC]ESCO LIGHTING WPLA50N19
 [LUMINAIRE]

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

| | |
|------------------------------|---------------|
| NEMA Type | 5 H x 7 V |
| Maximum Candela | 2163.445 |
| Maximum Candela Angle | -15H -47.5V |
| Horizontal Beam Angle (50%) | 38.0 |
| Vertical Beam Angle (50%) | 122.8 |
| Horizontal Field Angle (10%) | 80.4 |
| Vertical Field Angle (10%) | 154.4 |
| Lumens Per Lamp | 3040 (1 lamp) |
| Total Lamp Lumens | 3040 |
| Beam Lumens | 1547 |
| Beam Efficiency | 51 % |
| Field Lumens | 2704 |
| Field Efficiency | 89 % |
| Spill Lumens | 339 |
| Luminaire Lumens | 3044 |
| Total Efficiency | 100 % |
| Total Luminaire Watts | 32 |
| Ballast Factor | 1.00 |



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AXIAL CANDELA

| DEG. | HOR. | DEG. | VERT. |
|-------|----------|-------|----------|
| 90 | 3.155 | 90 | 4.197 |
| 85 | 63.765 | 85 | 15.884 |
| 75 | 82.991 | 75 | 300.442 |
| 65 | 144.051 | 65 | 728.824 |
| 55 | 136.751 | 55 | 1706.045 |
| 47.5 | 172.018 | 47.5 | 1676.541 |
| 42.5 | 201.438 | 42.5 | 1533.67 |
| 37.5 | 206.439 | 37.5 | 1394.804 |
| 33 | 228.42 | 33 | 1280.918 |
| 29 | 269.065 | 29 | 1185.081 |
| 25.5 | 306.159 | 25.5 | 1106.206 |
| 22.5 | 334.727 | 22.5 | 1052.348 |
| 19.5 | 376.382 | 19.5 | 994.106 |
| 17 | 430.371 | 17 | 954.479 |
| 15 | 482.529 | 15 | 925.205 |
| 13 | 533.249 | 13 | 898.547 |
| 11 | 581.549 | 11 | 875.136 |
| 9 | 632.013 | 9 | 856.429 |
| 7 | 690.11 | 7 | 841.47 |
| 5 | 764.632 | 5 | 830.994 |
| 3 | 824.075 | 3 | 823.8 |
| 1 | 873.597 | 1 | 821.765 |
| 0 | 843.89 | 0 | 843.89 |
| -1 | 925.058 | -1 | 823.738 |
| -3 | 963.274 | -3 | 831.414 |
| -5 | 1002.227 | -5 | 843.481 |
| -7 | 1043.53 | -7 | 862.406 |
| -9 | 1093.052 | -9 | 882.978 |
| -11 | 1139.442 | -11 | 907.519 |
| -13 | 1176.762 | -13 | 939.384 |
| -15 | 1208.022 | -15 | 975.134 |
| -17 | 1241.27 | -17 | 1012.122 |
| -19.5 | 1283.689 | -19.5 | 1062.756 |
| -22.5 | 1318.214 | -22.5 | 1120.686 |
| -25.5 | 1305.269 | -25.5 | 1191.558 |
| -29 | 1134.211 | -29 | 1286.006 |
| -33 | 845.345 | -33 | 1362.75 |
| -37.5 | 515.494 | -37.5 | 1454.056 |
| -42.5 | 362.914 | -42.5 | 1575.065 |
| -47.5 | 263.577 | -47.5 | 1707.312 |
| -55 | 219.134 | -55 | 1572.848 |
| -65 | 164.708 | -65 | 613.34 |
| -75 | 101.241 | -75 | 269.51 |
| -85 | 136.764 | -85 | 14.178 |
| -90 | 7.185 | -90 | 4.758 |

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CANDELA TABULATION

Maximum Candela = 2163.445
 Beam Edge = 1081.7225 Cd (50% of Max.)
 Field Edge = 216.3445 Cd (10% of Max.)
 * Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <u>-90.0</u> | <u>-85.0</u> | <u>-75.0</u> | <u>-65.0</u> | <u>-55.0</u> | <u>-47.5</u> | <u>-42.5</u> | <u>-37.5</u> | <u>-33.0</u> | <u>-29.0</u> |
| 90.0 | 6.811 | 5.570 | 3.938 | 3.793 | 3.831 | 3.698 | 3.837 | 3.812 | 3.645 | 3.544 |
| 85.0 | 6.844 | 20.201 | 44.274 | 57.846 | 50.344 | 23.110 | 22.143 | 21.271 | 21.476 | 23.154 |
| 75.0 | 6.907 | 50.364 | 103.697 | 136.333 | 157.161 | 173.504 | 124.039 | 97.850 | 124.080 | 148.240 |
| 65.0 | 6.968 | 77.751 | 144.218 | 123.601 | 148.465 | 126.851 | 161.089 | 202.177 | 259.495 * | 318.226 * |
| 55.0 | 7.025 | 98.496 | 128.422 | 113.951 | 139.627 | 170.287 | 210.926 | 281.548 * | 408.312 * | 606.755 * |
| 47.5 | 7.063 | 110.635 | 107.536 | 125.858 | 146.402 | 194.758 | 249.958 * | 381.685 * | 547.299 * | 846.130 * |
| 42.5 | 7.086 | 117.940 | 100.334 | 134.240 | 157.961 | 209.450 | 287.709 * | 423.789 * | 628.144 * | 875.397 * |
| 37.5 | 7.107 | 124.248 | 96.515 | 139.374 | 169.141 | 218.817 * | 307.852 * | 456.133 * | 676.789 * | 952.834 * |
| 33.0 | 7.124 | 129.281 | 94.498 | 143.781 | 180.214 | 233.838 * | 306.933 * | 477.260 * | 662.039 * | 975.541 * |
| 29.0 | 7.137 | 133.222 | 95.761 | 146.566 | 187.232 | 243.647 * | 322.228 * | 487.224 * | 701.515 * | 995.061 * |
| 25.5 | 7.147 | 136.045 | 97.114 | 150.136 | 193.791 | 246.616 * | 331.733 * | 486.650 * | 722.187 * | 1020.011 * |
| 22.5 | 7.156 | 136.460 | 98.098 | 151.963 | 198.363 | 248.233 * | 334.529 * | 503.777 * | 730.214 * | 1038.634 * |
| 19.5 | 7.163 | 136.757 | 98.966 | 154.162 | 201.798 | 252.553 * | 341.642 * | 511.665 * | 755.608 * | 1037.930 * |
| 17.0 | 7.168 | 136.924 | 99.869 | 155.533 | 204.173 | 253.800 * | 344.847 * | 513.162 * | 778.337 * | 1065.441 * |
| 15.0 | 7.172 | 137.010 | 100.030 | 156.624 | 205.293 | 254.801 * | 349.354 * | 519.390 * | 798.150 * | 1087.049 * |
| 13.0 | 7.175 | 137.057 | 100.408 | 157.725 | 207.942 | 254.421 * | 349.736 * | 521.712 * | 829.742 * | 1100.143 * |
| 11.0 | 7.178 | 137.072 | 100.726 | 159.028 | 210.535 | 253.102 * | 349.339 * | 517.947 * | 823.250 * | 1095.323 * |
| 9.0 | 7.180 | 137.057 | 100.979 | 160.259 | 212.486 | 256.436 * | 351.957 * | 510.730 * | 825.376 * | 1098.669 * |
| 7.0 | 7.182 | 137.018 | 101.166 | 161.410 | 214.228 | 259.037 * | 356.244 * | 504.328 * | 815.487 * | 1092.798 * |
| 5.0 | 7.183 | 136.960 | 101.282 | 162.475 | 215.768 | 260.962 * | 360.343 * | 509.096 * | 826.373 * | 1090.499 * |
| 3.0 | 7.184 | 136.888 | 101.324 | 163.445 | 217.108 * | 262.418 * | 362.706 * | 515.766 * | 838.702 * | 1116.775 * |
| 1.0 | 7.185 | 136.807 | 101.289 | 164.314 | 218.256 * | 263.341 * | 363.295 * | 516.893 * | 845.306 * | 1130.792 * |
| 0.0 | 7.185 | 136.764 | 101.241 | 164.708 | 219.134 * | 263.577 * | 362.914 * | 515.494 * | 845.345 * | 1134.211 * |
| -1.0 | 7.185 | 136.764 | 101.423 | 164.656 | 219.030 * | 264.689 * | 367.176 * | 523.966 * | 857.792 * | 1147.203 * |
| -3.0 | 7.184 | 137.030 | 101.726 | 164.468 | 219.405 * | 266.426 * | 374.314 * | 536.547 * | 876.080 * | 1166.306 * |
| -5.0 | 7.183 | 137.193 | 101.946 | 164.162 | 219.508 * | 267.529 * | 379.575 * | 542.292 * | 888.400 * | 1174.029 * |
| -7.0 | 7.182 | 137.339 | 102.081 | 163.735 | 219.284 * | 268.039 * | 382.930 * | 545.655 * | 885.376 * | 1179.533 * |
| -9.0 | 7.180 | 137.459 | 102.132 | 163.185 | 218.676 * | 267.685 * | 385.913 * | 549.029 * | 879.488 * | 1180.359 * |
| -11.0 | 7.178 | 137.549 | 102.099 | 162.509 | 217.636 * | 266.382 * | 383.455 * | 552.638 * | 876.146 * | 1172.353 * |
| -13.0 | 7.175 | 137.600 | 101.980 | 161.704 | 216.485 * | 268.140 * | 381.297 * | 558.327 * | 878.207 * | 1169.014 * |
| -15.0 | 7.172 | 137.607 | 101.777 | 161.055 | 215.457 | 268.584 * | 376.086 * | 554.633 * | 858.292 * | 1180.883 * |
| -17.0 | 7.169 | 137.565 | 101.799 | 160.350 | 215.105 | 268.244 * | 369.767 * | 553.461 * | 861.888 * | 1167.168 * |
| -19.5 | 7.164 | 137.435 | 101.091 | 159.359 | 212.763 | 267.823 * | 367.533 * | 564.256 * | 839.950 * | 1167.913 * |
| -22.5 | 7.157 | 137.150 | 100.441 | 158.128 | 209.900 | 262.706 * | 372.469 * | 563.224 * | 825.057 * | 1186.699 * |
| -25.5 | 7.149 | 136.712 | 99.631 | 156.822 | 205.803 | 266.599 * | 372.156 * | 554.242 * | 835.812 * | 1172.092 * |
| -29.0 | 7.138 | 133.994 | 99.179 | 153.683 | 197.625 | 267.193 * | 367.377 * | 557.522 * | 824.164 * | 1156.450 * |
| -33.0 | 7.125 | 130.203 | 99.099 | 151.060 | 191.270 | 258.018 * | 356.131 * | 543.945 * | 762.840 * | 1161.512 * |
| -37.5 | 7.108 | 125.356 | 101.824 | 145.445 | 182.117 | 243.796 * | 345.458 * | 514.472 * | 779.469 * | 1128.469 * |
| -42.5 | 7.088 | 119.277 | 108.114 | 138.852 | 169.414 | 230.008 * | 314.238 * | 476.322 * | 732.644 * | 1038.569 * |
| -47.5 | 7.065 | 112.523 | 116.715 | 129.045 | 156.881 | 212.305 | 269.081 * | 414.826 * | 609.568 * | 951.289 * |
| -55.0 | 7.027 | 101.594 | 135.557 | 118.781 | 151.790 | 178.600 | 227.913 * | 303.532 * | 428.953 * | 615.739 * |
| -65.0 | 6.971 | 78.058 | 146.003 | 133.063 | 159.812 | 124.692 | 162.318 | 209.676 | 264.566 * | 313.987 * |
| -75.0 | 6.910 | 48.319 | 101.088 | 124.915 | 140.010 | 95.068 | 92.197 | 92.655 | 114.169 | 134.454 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -85.0 | 6.846 | 19.376 | 34.785 | 39.981 | 34.187 | 17.680 | 18.345 | 18.418 | 17.770 | 18.313 |
| -90.0 | 6.814 | 6.260 | 5.583 | 5.493 | 5.589 | 5.656 | 5.656 | 5.581 | 5.445 | 5.318 |

Vert. Horizontal Angles
Angles

| | <u>-25.5</u> | <u>-22.5</u> | <u>-19.5</u> | <u>-17.0</u> | <u>-15.0</u> | <u>-13.0</u> | <u>-11.0</u> | <u>-9.0</u> | <u>-7.0</u> | <u>-5.0</u> |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| 90.0 | 3.581 | 3.613 | 3.646 | 3.675 | 3.698 | 3.721 | 3.745 | 3.800 | 3.888 | 3.976 |
| 85.0 | 28.294 | 32.768 | 36.041 | 33.220 | 30.885 | 28.482 | 26.011 | 23.952 | 22.306 | 20.561 |
| 75.0 | 183.589 | 213.777 | 245.689 | 270.358 | 285.566 | 303.037 | 320.963 | 331.482 | 326.055 | 319.684 |
| 65.0 | 391.973 | 471.667 | 557.220 | 634.253 | 690.905 | 747.935 | 810.842 | 871.441 | 849.702 | 821.334 |
| 55.0 | 826.783 | 1176.398 | 1526.738 | 1832.203 | 1913.406 | 1956.925 | 1995.237 | 2031.862 | 1999.279 | 1919.419 |
| 47.5 | 1212.014 | 1534.226 | 1764.629 | 1940.718 | 2067.257 | 2077.540 | 2081.448 | 2078.057 | 2049.319 | 1938.214 |
| 42.5 | 1255.655 | 1565.408 | 1782.560 | 1903.858 | 1979.185 | 2003.727 | 1969.632 | 1929.374 | 1894.004 | 1793.393 |
| 37.5 | 1263.412 | 1548.739 | 1793.154 | 1826.719 | 1831.314 | 1826.343 | 1789.493 | 1740.430 | 1698.128 | 1627.327 |
| 33.0 | 1279.201 | 1509.876 | 1662.167 | 1711.514 | 1686.095 | 1655.528 | 1632.934 | 1591.125 | 1547.079 | 1492.564 |
| 29.0 | 1296.114 | 1512.790 | 1584.202 | 1589.942 | 1565.937 | 1529.878 | 1504.720 | 1469.452 | 1424.283 | 1380.415 |
| 25.5 | 1290.050 | 1465.979 | 1525.566 | 1496.234 | 1461.488 | 1429.758 | 1400.927 | 1368.642 | 1315.261 | 1266.956 |
| 22.5 | 1309.241 | 1442.486 | 1462.616 | 1434.399 | 1393.748 | 1350.954 | 1313.406 | 1278.388 | 1238.861 | 1187.828 |
| 19.5 | 1302.631 | 1411.136 | 1407.406 | 1367.053 | 1328.105 | 1288.874 | 1252.017 | 1206.868 | 1163.128 | 1113.379 |
| 17.0 | 1303.671 | 1384.177 | 1365.046 | 1321.722 | 1280.819 | 1244.127 | 1199.592 | 1155.589 | 1109.109 | 1064.114 |
| 15.0 | 1302.435 | 1361.402 | 1334.883 | 1288.986 | 1252.533 | 1211.058 | 1172.340 | 1121.839 | 1073.338 | 1027.745 |
| 13.0 | 1303.618 | 1343.241 | 1316.624 | 1268.043 | 1223.723 | 1187.759 | 1151.710 | 1093.913 | 1037.510 | 997.502 |
| 11.0 | 1296.932 | 1324.304 | 1294.564 | 1249.309 | 1209.474 | 1170.250 | 1121.895 | 1072.873 | 1014.590 | 971.398 |
| 9.0 | 1292.987 | 1306.719 | 1275.402 | 1235.101 | 1193.795 | 1154.483 | 1109.949 | 1054.965 | 998.256 | 947.692 |
| 7.0 | 1282.871 | 1296.307 | 1261.694 | 1218.416 | 1182.529 | 1148.550 | 1105.164 | 1043.244 | 985.229 | 936.626 |
| 5.0 | 1276.863 | 1288.209 | 1254.487 | 1210.198 | 1175.783 | 1140.949 | 1100.136 | 1045.183 | 984.087 | 931.604 |
| 3.0 | 1287.660 | 1294.497 | 1254.543 | 1207.408 | 1172.390 | 1141.169 | 1100.841 | 1049.152 | 993.629 | 942.395 |
| 1.0 | 1299.871 | 1310.010 | 1273.330 | 1228.788 | 1194.235 | 1160.931 | 1120.569 | 1068.280 | 1017.010 | 967.171 |
| 0.0 | 1305.269 | 1318.214 | 1283.689 | 1241.270 | 1208.022 | 1176.762 | 1139.442 | 1093.052 | 1043.530 | 1002.227 |
| -1.0 | 1312.158 | 1323.526 | 1286.903 | 1243.937 | 1208.463 | 1176.521 | 1134.562 | 1083.538 | 1034.216 | 985.895 |
| -3.0 | 1324.547 | 1335.291 | 1295.307 | 1252.432 | 1211.771 | 1178.303 | 1134.804 | 1083.790 | 1025.697 | 966.566 |
| -5.0 | 1336.727 | 1349.554 | 1309.002 | 1263.708 | 1223.960 | 1186.570 | 1140.013 | 1077.077 | 1021.527 | 965.565 |
| -7.0 | 1347.866 | 1366.736 | 1329.034 | 1278.702 | 1236.704 | 1192.567 | 1146.285 | 1089.726 | 1029.706 | 973.993 |
| -9.0 | 1357.864 | 1383.143 | 1345.415 | 1293.171 | 1249.020 | 1211.268 | 1164.427 | 1104.401 | 1046.851 | 998.196 |
| -11.0 | 1364.036 | 1401.131 | 1372.979 | 1318.515 | 1276.534 | 1237.294 | 1188.805 | 1135.648 | 1074.169 | 1021.846 |
| -13.0 | 1377.850 | 1424.169 | 1399.060 | 1350.431 | 1311.796 | 1266.352 | 1217.839 | 1168.386 | 1115.323 | 1058.812 |
| -15.0 | 1391.923 | 1448.498 | 1435.144 | 1385.223 | 1343.722 | 1301.587 | 1257.476 | 1209.925 | 1153.763 | 1098.268 |
| -17.0 | 1401.276 | 1474.490 | 1470.742 | 1429.277 | 1383.567 | 1343.710 | 1305.123 | 1260.626 | 1197.039 | 1141.676 |
| -19.5 | 1410.548 | 1510.624 | 1516.586 | 1487.451 | 1448.363 | 1404.596 | 1375.477 | 1315.731 | 1258.301 | 1205.984 |
| -22.5 | 1437.453 | 1554.667 | 1583.054 | 1564.434 | 1534.507 | 1496.806 | 1452.586 | 1402.847 | 1344.490 | 1285.827 |
| -25.5 | 1442.902 | 1598.914 | 1659.784 | 1657.291 | 1640.180 | 1592.802 | 1545.236 | 1498.281 | 1439.062 | 1382.452 |
| -29.0 | 1473.900 | 1676.066 | 1752.616 | 1788.756 | 1775.926 | 1729.343 | 1686.073 | 1630.080 | 1560.860 | 1503.445 |
| -33.0 | 1492.740 | 1699.295 | 1836.023 | 1898.704 | 1879.656 | 1848.772 | 1809.591 | 1738.997 | 1674.077 | 1600.923 |
| -37.5 | 1467.850 | 1717.507 | 1917.155 | 1961.942 | 1975.887 | 1980.605 | 1930.915 | 1861.797 | 1794.116 | 1705.724 |
| -42.5 | 1421.409 | 1719.815 | 1922.050 | 2032.004 | 2103.125 | 2117.035 | 2061.164 | 2002.091 | 1942.850 | 1837.359 |
| -47.5 | 1343.497 | 1670.198 | 1895.873 | 2050.210 | 2163.445 | 2148.922 | 2130.373 | 2107.387 | 2067.484 | 1965.843 |
| -55.0 | 819.510 | 1109.552 | 1423.916 | 1673.773 | 1746.128 | 1780.967 | 1804.089 | 1818.469 | 1788.715 | 1729.878 |
| -65.0 | 386.723 | 459.986 | 540.425 | 597.542 | 629.852 | 659.670 | 685.451 | 709.097 | 689.895 | 669.855 |
| -75.0 | 167.081 | 195.094 | 222.228 | 242.446 | 254.228 | 267.020 | 278.583 | 284.705 | 281.767 | 278.724 |
| -85.0 | 23.343 | 27.714 | 30.749 | 27.547 | 24.878 | 22.121 | 19.287 | 17.491 | 16.829 | 16.118 |

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CANDELA TABULATION - (Cont.)

| | 5.188 | 5.076 | 4.976 | 4.938 | 4.908 | 4.878 | 4.848 | 4.825 | 4.810 | 4.795 |
|---------------------|--------------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| Vert. Angles | Horizontal Angles | | | | | | | | | |
| | -3.0 | -1.0 | 0.0 | 1.0 | 3.0 | 5.0 | 7.0 | 9.0 | 11.0 | 13.0 |
| 90.0 | 4.064 | 4.153 | 4.197 | 4.216 | 4.254 | 4.292 | 4.330 | 4.369 | 4.384 | 4.375 |
| 85.0 | 18.734 | 16.845 | 15.884 | 17.829 | 21.682 | 25.458 | 29.130 | 32.670 | 33.441 | 31.759 |
| 75.0 | 312.493 * | 304.607 * | 300.442 * | 291.497 * | 273.262 * | 254.621 * | 235.641 * | 216.392 * | 198.167 | 180.603 |
| 65.0 | 787.458 * | 749.219 * | 728.824 * | 699.814 * | 640.285 * | 579.509 * | 518.401 * | 455.723 * | 421.606 * | 388.608 * |
| 55.0 | 1835.093 * | 1747.412 * | 1706.045 * | 1621.756 * | 1458.729 * | 1294.149 * | 1128.091 * | 975.462 * | 846.536 * | 715.956 * |
| 47.5 | 1832.276 * | 1728.060 * | 1676.541 * | 1606.304 * | 1466.658 * | 1327.680 * | 1188.792 * | 1054.922 * | 921.420 * | 785.723 * |
| 42.5 | 1687.851 * | 1584.584 * | 1533.670 * | 1468.532 * | 1339.317 * | 1211.250 * | 1084.691 * | 963.919 * | 845.054 * | 724.016 * |
| 37.5 | 1531.445 * | 1439.507 * | 1394.804 * | 1334.250 * | 1214.737 * | 1096.382 * | 980.204 * | 868.005 * | 756.082 * | 655.525 * |
| 33.0 | 1405.577 * | 1321.572 * | 1280.918 * | 1226.524 * | 1119.221 * | 1012.235 * | 904.304 * | 796.119 * | 687.634 * | 615.544 * |
| 29.0 | 1299.270 * | 1222.085 * | 1185.081 * | 1137.324 * | 1043.238 * | 949.925 * | 848.266 * | 744.399 * | 655.622 * | 585.390 * |
| 25.5 | 1205.782 * | 1138.511 * | 1106.206 * | 1064.057 * | 981.072 * | 894.819 * | 801.758 * | 706.781 * | 632.332 * | 557.998 * |
| 22.5 | 1134.272 * | 1077.940 * | 1052.348 * | 1012.468 * | 934.699 * | 852.212 * | 765.822 * | 685.437 * | 610.899 * | 538.539 * |
| 19.5 | 1068.627 * | 1018.272 * | 994.106 * | 959.380 * | 891.013 * | 813.506 * | 732.275 * | 662.836 * | 592.291 * | 528.003 * |
| 17.0 | 1021.829 * | 975.661 * | 954.479 * | 922.197 * | 858.992 * | 784.485 * | 712.300 * | 642.637 * | 579.681 * | 517.021 * |
| 15.0 | 986.747 * | 945.618 * | 925.205 * | 896.029 * | 835.721 * | 764.108 * | 695.999 * | 629.585 * | 570.889 * | 511.447 * |
| 13.0 | 957.914 * | 918.763 * | 898.547 * | 871.929 * | 814.776 * | 747.189 * | 680.665 * | 618.155 * | 559.720 * | 512.904 * |
| 11.0 | 932.914 * | 893.844 * | 875.136 * | 850.847 * | 796.641 * | 734.228 * | 667.779 * | 605.180 * | 557.214 * | 510.610 * |
| 9.0 | 911.540 * | 873.547 * | 856.429 * | 833.421 * | 782.381 * | 723.632 * | 659.820 * | 603.866 * | 555.123 * | 506.763 * |
| 7.0 | 897.078 * | 859.275 * | 841.470 * | 820.726 * | 772.701 * | 713.547 * | 654.972 * | 600.400 * | 551.037 * | 506.982 * |
| 5.0 | 885.013 * | 848.458 * | 830.994 * | 811.082 * | 767.421 * | 714.514 * | 656.312 * | 600.198 * | 555.016 * | 512.095 * |
| 3.0 | 887.143 * | 843.234 * | 823.800 * | 805.497 * | 770.549 * | 721.625 * | 664.310 * | 611.951 * | 562.494 * | 518.199 * |
| 1.0 | 914.506 * | 850.776 * | 821.765 * | 818.624 * | 798.586 * | 744.021 * | 680.038 * | 625.445 * | 572.854 * | 527.544 * |
| 0.0 | 963.274 * | 925.058 * | 843.890 * | 873.597 * | 824.075 * | 764.632 * | 690.110 * | 632.013 * | 581.549 * | 533.249 * |
| -1.0 | 939.009 * | 861.876 * | 823.738 * | 812.511 * | 784.927 * | 740.166 * | 683.081 * | 622.524 * | 574.465 * | 529.948 * |
| -3.0 | 909.785 * | 853.149 * | 831.414 * | 812.888 * | 773.973 * | 726.220 * | 667.067 * | 611.148 * | 565.751 * | 524.631 * |
| -5.0 | 911.004 * | 864.807 * | 843.481 * | 824.176 * | 777.984 * | 727.225 * | 671.060 * | 615.298 * | 567.897 * | 521.100 * |
| -7.0 | 923.318 * | 880.863 * | 862.406 * | 840.137 * | 791.793 * | 737.368 * | 677.155 * | 622.899 * | 576.229 * | 529.258 * |
| -9.0 | 946.880 * | 904.935 * | 882.978 * | 859.352 * | 809.445 * | 751.464 * | 692.902 * | 633.254 * | 581.684 * | 537.245 * |
| -11.0 | 974.516 * | 931.145 * | 907.519 * | 883.690 * | 830.369 * | 769.345 * | 707.150 * | 647.421 * | 596.289 * | 540.554 * |
| -13.0 | 1009.585 * | 962.588 * | 939.384 * | 911.934 * | 854.467 * | 790.717 * | 724.533 * | 664.434 * | 605.264 * | 555.354 * |
| -15.0 | 1053.817 * | 1000.568 * | 975.134 * | 945.240 * | 885.147 * | 814.188 * | 745.875 * | 680.461 * | 623.101 * | 568.618 * |
| -17.0 | 1096.750 * | 1039.344 * | 1012.122 * | 979.637 * | 915.921 * | 841.019 * | 769.172 * | 700.507 * | 639.816 * | 581.168 * |
| -19.5 | 1153.812 * | 1091.647 * | 1062.756 * | 1025.690 * | 952.863 * | 876.396 * | 798.432 * | 729.034 * | 658.025 * | 599.410 * |
| -22.5 | 1223.160 * | 1152.742 * | 1120.686 * | 1080.923 * | 1004.932 * | 925.279 * | 841.656 * | 764.009 * | 692.437 * | 622.711 * |
| -25.5 | 1307.768 * | 1228.991 * | 1191.558 * | 1148.034 * | 1062.926 * | 977.512 * | 889.141 * | 801.311 * | 727.443 * | 652.402 * |
| -29.0 | 1411.828 * | 1326.634 * | 1286.006 * | 1235.407 * | 1135.788 * | 1038.232 * | 945.162 * | 851.932 * | 767.991 * | 694.233 * |
| -33.0 | 1504.447 * | 1409.508 * | 1362.750 * | 1310.676 * | 1207.595 * | 1105.489 * | 1009.725 * | 915.007 * | 819.794 * | 742.901 * |
| -37.5 | 1603.798 * | 1503.566 * | 1454.056 * | 1401.713 * | 1298.208 * | 1196.300 * | 1098.208 * | 1000.779 * | 901.897 * | 807.087 * |
| -42.5 | 1730.097 * | 1626.022 * | 1575.065 * | 1524.562 * | 1425.302 * | 1327.994 * | 1230.490 * | 1117.236 * | 1001.786 * | 884.243 * |
| -47.5 | 1861.825 * | 1758.567 * | 1707.312 * | 1647.908 * | 1529.377 * | 1410.200 * | 1288.560 * | 1157.989 * | 1022.981 * | 883.385 * |
| -55.0 | 1666.524 * | 1598.434 * | 1572.848 * | 1489.449 * | 1339.900 * | 1186.606 * | 1030.431 * | 891.325 * | 783.027 * | 682.614 * |
| -65.0 | 648.246 * | 625.273 * | 613.340 * | 591.223 * | 546.357 * | 500.912 * | 455.204 * | 409.546 * | 403.162 * | 401.646 * |
| -75.0 | 275.401 * | 271.624 * | 269.510 * | 260.750 * | 242.824 * | 224.577 * | 206.271 | 188.170 | 176.128 | 166.515 |
| -85.0 | 15.366 | 14.580 | 14.178 | 15.788 | 18.981 | 22.121 | 25.188 | 28.160 | 29.318 | 28.846 |
| -90.0 | 4.780 | 4.765 | 4.758 | 4.806 | 4.904 | 5.001 | 5.099 | 5.197 | 5.331 | 5.504 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | <u>15.0</u> | <u>17.0</u> | <u>19.5</u> | <u>22.5</u> | <u>25.5</u> | <u>29.0</u> | <u>33.0</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> |
| 90.0 | 4.367 | 4.359 | 4.349 | 4.292 | 4.227 | 4.151 | 4.220 | 4.357 | 4.284 | 3.985 |
| 85.0 | 30.107 | 28.507 | 26.615 | 25.073 | 23.466 | 21.233 | 21.750 | 23.680 | 22.263 | 17.787 |
| 75.0 | 163.242 | 147.165 | 125.434 | 116.121 | 106.566 | 96.170 | 81.959 | 70.900 | 63.981 | 55.303 |
| 65.0 | 360.065 * | 335.306 * | 315.437 * | 298.583 * | 275.118 * | 229.636 * | 166.885 | 111.811 | 93.048 | 77.380 |
| 55.0 | 589.043 * | 482.373 * | 417.124 * | 344.035 * | 274.894 * | 228.540 * | 186.981 | 157.696 | 128.015 | 110.385 |
| 47.5 | 647.255 * | 576.517 * | 490.392 * | 393.017 * | 326.372 * | 258.720 * | 198.627 | 165.133 | 138.568 | 127.506 |
| 42.5 | 633.349 * | 563.758 * | 475.635 * | 387.970 * | 330.472 * | 262.972 * | 214.710 | 173.030 | 146.747 | 130.284 |
| 37.5 | 589.351 * | 522.464 * | 439.235 * | 375.586 * | 314.562 * | 265.005 * | 224.824 * | 182.431 | 153.181 | 133.664 |
| 33.0 | 548.411 * | 480.882 * | 420.272 * | 353.998 * | 299.566 * | 264.642 * | 227.944 * | 190.620 | 157.275 | 139.862 |
| 29.0 | 514.969 * | 460.994 * | 399.503 * | 334.976 * | 298.874 * | 260.975 * | 228.046 * | 191.740 | 164.180 | 145.414 |
| 25.5 | 495.422 * | 441.756 * | 379.466 * | 334.313 * | 295.840 * | 259.349 * | 226.097 * | 192.269 | 173.180 | 150.733 |
| 22.5 | 481.445 * | 425.192 * | 376.016 * | 329.814 * | 292.799 * | 260.302 * | 221.928 * | 202.887 | 178.348 | 154.625 |
| 19.5 | 463.205 * | 417.202 * | 370.856 * | 325.988 * | 292.910 * | 257.052 * | 224.740 * | 215.445 | 182.211 | 159.481 |
| 17.0 | 462.052 * | 413.485 * | 365.219 * | 326.638 * | 291.170 * | 257.403 * | 224.849 * | 221.315 * | 183.541 | 161.553 |
| 15.0 | 458.893 * | 407.569 * | 363.595 * | 324.839 * | 292.105 * | 259.756 * | 224.333 * | 216.987 * | 186.309 | 163.592 |
| 13.0 | 457.656 * | 408.669 * | 361.069 * | 323.319 * | 294.314 * | 262.441 * | 226.371 * | 211.351 | 189.182 | 165.824 |
| 11.0 | 458.096 * | 406.026 * | 357.706 * | 325.481 * | 294.969 * | 263.850 * | 225.207 * | 207.360 | 191.264 | 167.566 |
| 9.0 | 451.299 * | 407.052 * | 362.053 * | 327.184 * | 296.729 * | 264.540 * | 223.882 * | 204.657 | 193.188 | 169.545 |
| 7.0 | 459.163 * | 409.919 * | 363.420 * | 326.433 * | 298.728 * | 264.391 * | 222.799 * | 203.485 | 195.935 | 170.874 |
| 5.0 | 464.948 * | 412.986 * | 366.359 * | 325.757 * | 298.198 * | 265.243 * | 225.079 * | 204.182 | 198.398 | 171.643 |
| 3.0 | 468.309 * | 411.165 * | 368.323 * | 328.927 * | 301.418 * | 268.101 * | 226.796 * | 205.250 | 200.099 | 171.960 |
| 1.0 | 478.049 * | 424.928 * | 374.273 * | 333.508 * | 304.835 * | 269.096 * | 228.123 * | 206.087 | 201.136 | 172.062 |
| 0.0 | 482.529 * | 430.371 * | 376.382 * | 334.727 * | 306.159 * | 269.065 * | 228.420 * | 206.439 | 201.438 | 172.018 |
| -1.0 | 479.810 * | 429.104 * | 375.623 * | 335.071 * | 305.345 * | 269.534 * | 228.832 * | 205.809 | 201.054 | 171.833 |
| -3.0 | 471.980 * | 423.452 * | 371.121 * | 333.484 * | 302.565 * | 269.516 * | 228.912 * | 204.453 | 199.899 | 171.256 |
| -5.0 | 475.517 * | 428.151 * | 375.004 * | 332.501 * | 298.972 * | 267.930 * | 228.571 * | 202.981 | 198.213 | 170.411 |
| -7.0 | 481.958 * | 429.458 * | 376.462 * | 334.821 * | 300.988 * | 267.280 * | 226.499 * | 201.620 | 195.984 | 169.538 |
| -9.0 | 488.353 * | 439.029 * | 384.393 * | 334.917 * | 300.349 * | 265.844 * | 226.644 * | 202.070 | 193.658 | 168.488 |
| -11.0 | 495.448 * | 447.529 * | 390.237 * | 340.718 * | 302.459 * | 264.879 * | 226.862 * | 203.658 | 190.172 | 167.254 |
| -13.0 | 503.010 * | 453.507 * | 396.228 * | 342.821 * | 305.585 * | 266.429 * | 226.332 * | 205.442 | 186.283 | 165.606 |
| -15.0 | 514.000 * | 458.206 * | 405.344 * | 349.396 * | 306.809 * | 268.648 * | 225.901 * | 207.069 | 182.427 | 163.585 |
| -17.0 | 524.897 * | 470.381 * | 409.345 * | 355.007 * | 311.280 * | 270.183 * | 228.719 * | 208.743 | 179.520 | 161.446 |
| -19.5 | 539.690 * | 486.148 * | 424.759 * | 359.356 * | 316.555 * | 272.190 * | 231.267 * | 208.543 | 176.988 | 158.284 |
| -22.5 | 563.747 * | 504.443 * | 441.774 * | 374.975 * | 320.226 * | 277.826 * | 232.653 * | 202.529 | 175.456 | 152.874 |
| -25.5 | 586.517 * | 529.894 * | 458.320 * | 391.625 * | 332.466 * | 281.191 * | 239.458 * | 197.180 | 171.908 | 149.750 |
| -29.0 | 619.342 * | 557.070 * | 486.971 * | 404.488 * | 348.788 * | 288.883 * | 245.189 * | 199.083 | 166.099 | 146.278 |
| -33.0 | 669.039 * | 593.611 * | 519.083 * | 434.642 * | 360.875 * | 305.690 * | 243.709 * | 199.830 | 161.631 | 141.958 |
| -37.5 | 729.771 * | 651.174 * | 550.415 * | 465.230 * | 382.638 * | 312.165 * | 249.070 * | 192.639 | 159.497 | 136.301 |
| -42.5 | 782.486 * | 693.608 * | 580.059 * | 465.173 * | 386.112 * | 302.205 * | 240.472 * | 186.377 | 153.119 | 133.931 |
| -47.5 | 740.947 * | 655.156 * | 554.154 * | 439.932 * | 361.365 * | 286.217 * | 218.625 * | 176.423 | 145.007 | 131.514 |
| -55.0 | 587.823 * | 505.381 * | 433.263 * | 354.522 * | 282.872 * | 242.932 * | 204.790 | 168.945 | 132.343 | 113.266 |
| -65.0 | 404.316 * | 413.308 * | 408.930 * | 358.791 * | 293.950 * | 220.240 * | 164.664 | 115.756 | 96.541 | 81.834 |
| -75.0 | 156.297 | 146.832 | 131.167 | 118.664 | 107.818 | 94.946 | 88.214 | 91.778 | 82.683 | 63.492 |
| -85.0 | 28.352 | 27.842 | 27.194 | 25.081 | 22.497 | 19.594 | 21.988 | 25.721 | 25.636 | 22.964 |
| -90.0 | 5.676 | 5.849 | 6.064 | 6.529 | 7.034 | 7.624 | 8.424 | 9.371 | 10.129 | 10.596 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
| | <u>55.0</u> | <u>65.0</u> | <u>75.0</u> | <u>85.0</u> | <u>90.0</u> |
| 90.0 | 3.549 | 3.125 | 3.098 | 3.182 | 3.144 |
| 85.0 | 23.019 | 34.450 | 17.728 | 3.571 | 3.145 |
| 75.0 | 87.642 | 123.952 | 81.152 | 13.183 | 3.147 |
| 65.0 | 76.892 | 118.980 | 110.871 | 30.842 | 3.149 |
| 55.0 | 92.846 | 86.196 | 105.819 | 43.822 | 3.150 |
| 47.5 | 114.413 | 85.752 | 87.433 | 50.522 | 3.151 |
| 42.5 | 125.717 | 93.833 | 81.814 | 54.396 | 3.152 |
| 37.5 | 130.428 | 108.196 | 80.946 | 57.498 | 3.153 |
| 33.0 | 128.343 | 120.306 | 81.680 | 59.913 | 3.153 |
| 29.0 | 127.280 | 124.797 | 82.542 | 61.748 | 3.153 |
| 25.5 | 127.597 | 128.640 | 83.280 | 63.050 | 3.154 |
| 22.5 | 128.364 | 130.624 | 83.515 | 63.511 | 3.154 |
| 19.5 | 129.591 | 132.792 | 83.712 | 63.873 | 3.154 |
| 17.0 | 131.077 | 135.339 | 84.000 | 64.099 | 3.154 |
| 15.0 | 131.616 | 137.086 | 83.844 | 64.230 | 3.154 |
| 13.0 | 132.535 | 138.577 | 83.781 | 64.315 | 3.155 |
| 11.0 | 133.594 | 139.819 | 83.711 | 64.356 | 3.155 |
| 9.0 | 134.682 | 140.941 | 83.631 | 64.351 | 3.155 |
| 7.0 | 135.484 | 141.926 | 83.535 | 64.300 | 3.155 |
| 5.0 | 136.026 | 142.758 | 83.417 | 64.204 | 3.155 |
| 3.0 | 136.337 | 143.419 | 83.272 | 64.062 | 3.155 |
| 1.0 | 136.446 | 143.891 | 83.094 | 63.759 | 3.155 |
| 0.0 | 136.751 | 144.051 | 82.991 | 63.765 | 3.155 |
| -1.0 | 136.553 | 143.931 | 83.102 | 63.858 | 3.155 |
| -3.0 | 136.655 | 143.549 | 83.299 | 64.011 | 3.155 |
| -5.0 | 136.551 | 143.006 | 83.469 | 64.117 | 3.155 |
| -7.0 | 136.209 | 142.337 | 83.621 | 64.175 | 3.155 |
| -9.0 | 135.596 | 141.578 | 83.765 | 64.185 | 3.156 |
| -11.0 | 134.684 | 140.762 | 83.909 | 64.146 | 3.156 |
| -13.0 | 133.843 | 139.924 | 84.063 | 64.058 | 3.156 |
| -15.0 | 133.081 | 138.836 | 84.236 | 63.919 | 3.156 |
| -17.0 | 132.296 | 137.559 | 84.487 | 63.730 | 3.156 |
| -19.5 | 130.690 | 135.722 | 84.516 | 63.422 | 3.156 |
| -22.5 | 129.091 | 133.988 | 84.729 | 62.946 | 3.156 |
| -25.5 | 128.090 | 131.689 | 85.018 | 62.354 | 3.156 |
| -29.0 | 128.035 | 127.668 | 85.280 | 61.002 | 3.156 |
| -33.0 | 130.093 | 121.649 | 85.754 | 59.146 | 3.156 |
| -37.5 | 131.598 | 110.226 | 87.169 | 56.743 | 3.156 |
| -42.5 | 125.167 | 96.312 | 89.747 | 53.696 | 3.156 |
| -47.5 | 117.265 | 89.440 | 98.624 | 49.961 | 3.156 |
| -55.0 | 95.522 | 97.008 | 115.929 | 43.600 | 3.155 |
| -65.0 | 85.938 | 145.452 | 106.439 | 33.141 | 3.154 |
| -75.0 | 95.600 | 119.583 | 76.732 | 16.655 | 3.153 |
| -85.0 | 28.061 | 34.847 | 21.944 | 6.708 | 3.151 |
| -90.0 | 10.733 | 10.375 | 9.643 | 6.159 | 3.150 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1521.88

Total Field Lumens (one side of beam only) = 1352.2

* Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | | |
|-----------------|-------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|--|
| | <u>0</u> | <u>1</u> | <u>3</u> | <u>5</u> | <u>7</u> | <u>9</u> | <u>11</u> | <u>13</u> | <u>15</u> | <u>17</u> | |
| 90 | | | | | | | | | | | |
| 85 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | |
| 75 | 0.48 | 0.96 | 0.95 | 0.93 | 0.92 | 0.89 | 0.84 | 0.78 | 0.72 | 0.83 | |
| 65 | 1.56 * | 3.09 * | 3.03 * | 2.96 * | 2.87 * | 2.72 * | 2.51 * | 2.31 * | 2.11 * | 2.38 * | |
| 55 | 3.69 * | 7.26 * | 7.09 * | 6.90 * | 6.66 * | 6.31 * | 5.87 * | 5.44 * | 5.01 * | 5.51 * | |
| 47.5 | 3.85 * | 7.59 * | 7.45 * | 7.30 * | 7.07 * | 6.74 * | 6.36 * | 5.96 * | 5.52 * | 6.12 * | |
| 42.5 | 2.44 * | 4.84 * | 4.78 * | 4.73 * | 4.62 * | 4.44 * | 4.25 * | 4.03 * | 3.77 * | 4.29 * | |
| 37.5 | 2.22 * | 4.41 * | 4.37 * | 4.31 * | 4.21 * | 4.07 * | 3.94 * | 3.78 * | 3.61 * | 4.21 * | |
| 33 | 1.83 * | 3.63 * | 3.59 * | 3.53 * | 3.44 * | 3.33 * | 3.22 * | 3.13 * | 3.03 * | 3.60 * | |
| 29 | 1.50 * | 2.98 * | 2.95 * | 2.90 * | 2.81 * | 2.72 * | 2.64 * | 2.57 * | 2.51 * | 3.00 * | |
| 25.5 | 1.22 * | 2.42 * | 2.40 * | 2.35 * | 2.29 * | 2.23 * | 2.16 * | 2.11 * | 2.06 * | 2.49 * | |
| 22.5 | 0.98 * | 1.95 * | 1.93 * | 1.89 * | 1.85 * | 1.80 * | 1.75 * | 1.71 * | 1.68 * | 2.05 * | |
| 19.5 | 0.93 * | 1.85 * | 1.82 * | 1.79 * | 1.75 * | 1.71 * | 1.67 * | 1.63 * | 1.61 * | 1.97 * | |
| 17 | 0.74 * | 1.47 * | 1.45 * | 1.42 * | 1.39 * | 1.37 * | 1.34 * | 1.31 * | 1.29 * | 1.59 * | |
| 15 | 0.57 * | 1.13 * | 1.12 * | 1.10 * | 1.08 * | 1.06 * | 1.04 * | 1.03 * | 1.01 * | 1.24 * | |
| 13 | 0.55 * | 1.10 * | 1.08 * | 1.06 * | 1.05 * | 1.04 * | 1.02 * | 1.01 * | 0.99 * | 1.22 * | |
| 11 | 0.54 * | 1.07 * | 1.06 * | 1.04 * | 1.02 * | 1.02 * | 1.01 * | 0.99 * | 0.98 * | 1.20 * | |
| 9 | 0.53 * | 1.05 * | 1.03 * | 1.02 * | 1.01 * | 1.00 * | 1.00 * | 0.98 * | 0.97 * | 1.19 * | |
| 7 | 0.52 * | 1.03 * | 1.02 * | 1.00 * | 1.00 * | 0.99 * | 0.99 * | 0.98 * | 0.96 * | 1.18 * | |
| 5 | 0.51 * | 1.01 * | 1.01 * | 1.00 * | 0.99 * | 0.99 * | 0.99 * | 0.97 * | 0.96 * | 1.17 * | |
| 3 | 0.50 * | 1.01 * | 1.01 * | 1.00 * | 1.00 * | 0.99 * | 0.99 * | 0.97 * | 0.96 * | 1.17 * | |
| 1 | 0.50 * | 1.02 * | 1.02 * | 1.02 * | 1.01 * | 1.01 * | 1.00 * | 0.98 * | 0.96 * | 1.18 * | |
| | 0.26 * | 0.53 * | 0.53 * | 0.52 * | 0.52 * | 0.51 * | 0.51 * | 0.50 * | 0.49 * | 0.60 * | |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 0.26 * | 0.53 * | 0.53 * | 0.53 * | 0.52 * | 0.51 * | 0.51 * | 0.50 * | 0.49 * | 0.60 * |
| -1 | 0.51 * | 1.03 * | 1.04 * | 1.03 * | 1.03 * | 1.02 * | 1.02 * | 1.00 * | 0.98 * | 1.21 * |
| -3 | 0.51 * | 1.02 * | 1.03 * | 1.03 * | 1.02 * | 1.02 * | 1.02 * | 1.00 * | 0.99 * | 1.21 * |
| -5 | 0.52 * | 1.04 * | 1.03 * | 1.03 * | 1.03 * | 1.03 * | 1.02 * | 1.01 * | 1.00 * | 1.23 * |
| -7 | 0.53 * | 1.06 * | 1.05 * | 1.05 * | 1.04 * | 1.04 * | 1.03 * | 1.02 * | 1.01 * | 1.24 * |
| -9 | 0.55 * | 1.09 * | 1.08 * | 1.07 * | 1.06 * | 1.06 * | 1.05 * | 1.04 * | 1.03 * | 1.26 * |
| -11 | 0.56 * | 1.12 * | 1.11 * | 1.10 * | 1.09 * | 1.08 * | 1.07 * | 1.06 * | 1.05 * | 1.29 * |
| -13 | 0.58 * | 1.16 * | 1.15 * | 1.14 * | 1.13 * | 1.11 * | 1.10 * | 1.09 * | 1.07 * | 1.32 * |
| -15 | 0.60 * | 1.20 * | 1.19 * | 1.18 * | 1.16 * | 1.15 * | 1.14 * | 1.12 * | 1.10 * | 1.35 * |
| -17 | 0.79 * | 1.57 * | 1.55 * | 1.53 * | 1.51 * | 1.50 * | 1.47 * | 1.45 * | 1.42 * | 1.74 * |
| -19.5 | 1.00 * | 1.98 * | 1.97 * | 1.94 * | 1.91 * | 1.89 * | 1.86 * | 1.82 * | 1.79 * | 2.17 * |
| -22.5 | 1.05 * | 2.10 * | 2.09 * | 2.06 * | 2.03 * | 2.00 * | 1.96 * | 1.93 * | 1.88 * | 2.28 * |
| -25.5 | 1.32 * | 2.63 * | 2.61 * | 2.58 * | 2.54 * | 2.50 * | 2.45 * | 2.40 * | 2.35 * | 2.81 * |
| -29 | 1.61 * | 3.21 * | 3.19 * | 3.16 * | 3.11 * | 3.07 * | 3.01 * | 2.94 * | 2.86 * | 3.41 * |
| -33 | 1.93 * | 3.85 * | 3.84 * | 3.81 * | 3.76 * | 3.71 * | 3.63 * | 3.54 * | 3.41 * | 4.04 * |
| -37.5 | 2.31 * | 4.61 * | 4.61 * | 4.59 * | 4.54 * | 4.45 * | 4.35 * | 4.20 * | 4.00 * | 4.66 * |
| -42.5 | 2.50 * | 4.99 * | 4.97 * | 4.95 * | 4.87 * | 4.72 * | 4.56 * | 4.37 * | 4.11 * | 4.69 * |
| -47.5 | 3.73 * | 7.36 * | 7.23 * | 7.08 * | 6.87 * | 6.59 * | 6.28 * | 5.95 * | 5.56 * | 6.23 * |
| -55 | 3.30 * | 6.47 * | 6.30 * | 6.10 * | 5.88 * | 5.63 * | 5.36 * | 5.09 * | 4.80 * | 5.42 * |
| -65 | 1.34 * | 2.63 * | 2.57 * | 2.50 * | 2.43 * | 2.35 * | 2.26 * | 2.17 * | 2.08 * | 2.44 * |
| -75 | 0.43 | 0.85 | 0.83 | 0.81 | 0.79 | 0.77 | 0.74 | 0.70 | 0.66 | 0.77 |
| -85 | 0.01 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 |
| -90 | | | | | | | | | | |
| Total | 51.88 | 102.96 | 101.72 | 100.11 | 97.96 | 95.22 | 92.09 | 88.69 | 84.91 | 99.72 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMENS TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| | <u>19.5</u> | <u>22.5</u> | <u>25.5</u> | <u>29</u> | <u>33</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> | <u>55</u> | <u>65</u> |
| 90 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.12 | 0.17 | 0.11 |
| 85 | 0.88 | 0.76 | 0.75 | 0.70 | 0.65 | 0.65 | 0.68 | 1.05 | 1.28 | 0.78 |
| 75 | 2.50 | 2.15 | 2.07 | 1.86 | 1.56 | 1.35 | 1.18 | 1.61 | 1.85 | 1.23 |
| 65 | 5.45 * | 4.24 * | 3.73 * | 3.14 | 2.48 | 1.96 | 1.45 | 1.68 | 1.71 | 1.21 |
| 55 | 6.12 * | 4.76 * | 4.07 * | 3.21 * | 2.44 | 1.87 | 1.34 | 1.47 | 1.29 | 0.82 |
| 47.5 | 4.48 * | 3.65 * | 3.18 * | 2.50 * | 1.91 | 1.43 | 1.00 | 1.08 | 0.94 | 0.53 |
| 42.5 | 4.46 * | 3.67 * | 3.27 * | 2.68 * | 2.08 | 1.55 | 1.07 | 1.14 | 1.01 | 0.54 |
| 37.5 | 3.89 * | 3.26 * | 2.99 * | 2.50 * | 1.95 | 1.46 | 1.00 | 1.07 | 0.96 | 0.51 |
| 33 | 3.32 * | 2.87 * | 2.69 * | 2.25 * | 1.77 | 1.34 | 0.92 | 0.99 | 0.88 | 0.46 |
| 29 | 2.81 * | 2.49 * | 2.37 * | 2.02 * | 1.58 | 1.20 | 0.84 | 0.89 | 0.79 | 0.41 |
| 25.5 | 2.34 * | 2.12 * | 2.05 * | 1.75 * | 1.38 | 1.05 | 0.73 | 0.78 | 0.69 | 0.36 |
| 22.5 | 2.28 * | 2.10 * | 2.06 * | 1.77 * | 1.41 | 1.08 | 0.75 | 0.79 | 0.70 | 0.36 |
| 19.5 | 1.85 * | 1.73 * | 1.72 * | 1.50 * | 1.20 * | 0.92 | 0.63 | 0.67 | 0.59 | 0.31 |
| 17 | 1.46 * | 1.37 * | 1.39 * | 1.23 * | 0.98 * | 0.74 | 0.51 | 0.54 | 0.48 | 0.25 |
| 15 | 1.44 * | 1.37 * | 1.40 * | 1.25 * | 0.99 * | 0.74 | 0.51 | 0.54 | 0.48 | 0.25 |
| 13 | 1.42 * | 1.36 * | 1.40 * | 1.26 * | 1.00 * | 0.74 | 0.52 | 0.54 | 0.49 | 0.25 |
| 11 | 1.40 * | 1.35 * | 1.40 * | 1.26 * | 0.99 | 0.74 | 0.52 | 0.55 | 0.49 | 0.25 |
| 9 | 1.39 * | 1.34 * | 1.40 * | 1.26 * | 0.98 | 0.73 | 0.53 | 0.55 | 0.49 | 0.25 |
| 7 | 1.38 * | 1.33 * | 1.39 * | 1.25 * | 0.98 | 0.74 | 0.53 | 0.56 | 0.50 | 0.25 |
| 5 | 1.38 * | 1.34 * | 1.40 * | 1.27 * | 0.99 | 0.75 | 0.54 | 0.56 | 0.50 | 0.26 |
| 3 | 1.39 * | 1.35 * | 1.42 * | 1.29 * | 1.00 * | 0.75 | 0.54 | 0.56 | 0.50 | 0.26 |
| 1 | 0.70 * | 0.68 * | 0.71 * | 0.65 * | 0.50 * | 0.38 | 0.27 | 0.28 | 0.25 | 0.13 |
| 0 | 0.71 * | 0.68 * | 0.72 * | 0.65 * | 0.51 * | 0.38 | 0.27 | 0.28 | 0.25 | 0.13 |
| -1 | 1.42 * | 1.37 * | 1.44 * | 1.32 * | 1.02 * | 0.76 | 0.54 | 0.57 | 0.51 | 0.26 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| -3 | 1.43 * | 1.38 * | 1.45 * | 1.33 * | 1.04 | 0.77 | 0.55 | 0.57 | 0.50 | 0.26 |
| -5 | 1.44 * | 1.39 * | 1.46 * | 1.34 * | 1.04 | 0.77 | 0.55 | 0.57 | 0.50 | 0.26 |
| -7 | 1.46 * | 1.40 * | 1.47 * | 1.33 * | 1.04 | 0.77 | 0.55 | 0.57 | 0.50 | 0.26 |
| -9 | 1.48 * | 1.42 * | 1.47 * | 1.33 * | 1.04 | 0.78 | 0.54 | 0.56 | 0.50 | 0.25 |
| -11 | 1.51 * | 1.43 * | 1.47 * | 1.33 * | 1.04 | 0.78 | 0.54 | 0.56 | 0.50 | 0.25 |
| -13 | 1.54 * | 1.45 * | 1.48 * | 1.32 * | 1.04 | 0.77 | 0.54 | 0.56 | 0.49 | 0.25 |
| -15 | 1.57 * | 1.47 * | 1.49 * | 1.32 * | 1.03 * | 0.77 | 0.53 | 0.56 | 0.49 | 0.25 |
| -17 | 2.00 * | 1.86 * | 1.87 * | 1.64 * | 1.29 * | 0.96 | 0.66 | 0.69 | 0.61 | 0.31 |
| -19.5 | 2.48 * | 2.28 * | 2.27 * | 1.97 * | 1.54 * | 1.15 | 0.78 | 0.82 | 0.72 | 0.37 |
| -22.5 | 2.58 * | 2.33 * | 2.29 * | 1.98 * | 1.53 * | 1.14 | 0.78 | 0.81 | 0.72 | 0.37 |
| -25.5 | 3.15 * | 2.80 * | 2.69 * | 2.30 * | 1.79 * | 1.32 | 0.90 | 0.93 | 0.82 | 0.43 |
| -29 | 3.76 * | 3.29 * | 3.12 * | 2.60 * | 2.00 * | 1.49 | 1.00 | 1.04 | 0.91 | 0.48 |
| -33 | 4.39 * | 3.77 * | 3.52 * | 2.90 * | 2.19 * | 1.62 | 1.09 | 1.14 | 1.00 | 0.53 |
| -37.5 | 4.98 * | 4.19 * | 3.81 * | 3.12 * | 2.36 * | 1.71 | 1.15 | 1.21 | 1.04 | 0.57 |
| -42.5 | 4.93 * | 4.07 * | 3.61 * | 2.86 * | 2.14 | 1.56 | 1.07 | 1.14 | 0.97 | 0.56 |
| -47.5 | 6.30 * | 4.99 * | 4.36 * | 3.48 * | 2.65 | 2.01 | 1.42 | 1.55 | 1.36 | 0.88 |
| -55 | 5.43 * | 4.24 * | 3.76 * | 3.21 | 2.60 | 2.07 | 1.50 | 1.77 | 1.88 | 1.30 |
| -65 | 2.60 * | 2.18 * | 2.04 | 1.82 | 1.60 | 1.38 | 1.08 | 1.51 | 1.91 | 1.24 |
| -75 | 0.83 | 0.72 | 0.70 | 0.66 | 0.66 | 0.65 | 0.56 | 0.89 | 1.17 | 0.72 |
| -85 | 0.07 | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 | 0.08 | 0.12 | 0.16 | 0.11 |
| -90 | | | | | | | | | | |
| Total | 108.45 | 94.15 | 89.50 | 76.55 | 60.16 | 45.93 | 32.80 | 36.43 | 34.57 | 19.82 |

| Vert. Angles | Horizontal Angles | | |
|---------------------|--------------------------|-----------|--------------|
| | 75 | 85 | 90 |
| 90 | | | Total |
| | 0.03 | 0.00 | 1.37 |
| 85 | | | |
| | 0.22 | 0.01 | 16.68 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMENS TABULATION - (Cont.)

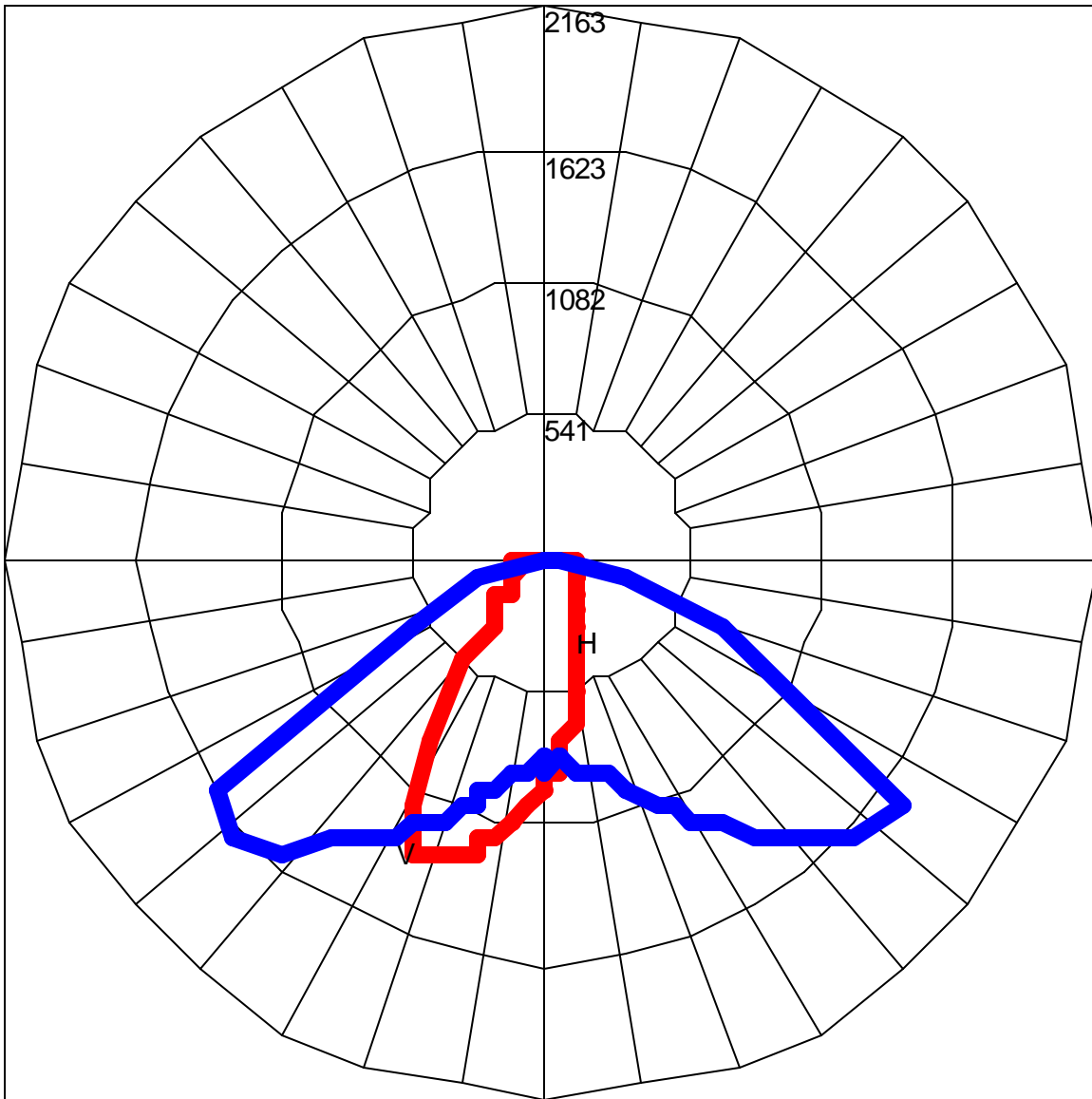
| | | | |
|-------------|------|------|-------|
| 75 | 0.40 | 0.02 | 43.31 |
| 65 | 0.49 | 0.02 | 87.31 |
| 55 | 0.36 | 0.02 | 91.73 |
| 47.5 | 0.23 | 0.01 | 63.14 |
| 42.5 | 0.24 | 0.02 | 60.86 |
| 37.5 | 0.22 | 0.01 | 52.14 |
| 33 | 0.20 | 0.01 | 44.29 |
| 29 | 0.17 | 0.01 | 37.32 |
| 25.5 | 0.15 | 0.01 | 30.99 |
| 22.5 | 0.15 | 0.01 | 30.20 |
| 19.5 | 0.13 | 0.01 | 24.63 |
| 17 | 0.10 | 0.01 | 19.41 |
| 15 | 0.10 | 0.01 | 19.21 |
| 13 | 0.10 | 0.01 | 19.01 |
| 11 | 0.10 | 0.01 | 18.83 |
| 9 | 0.10 | 0.01 | 18.69 |
| 7 | 0.10 | 0.01 | 18.63 |
| 5 | 0.10 | 0.01 | 18.68 |
| 3 | 0.10 | 0.01 | 18.88 |
| 1 | 0.05 | 0.00 | 9.58 |
| 0 | 0.05 | 0.00 | 9.62 |
| -1 | 0.10 | 0.01 | 19.18 |
| -3 | 0.10 | 0.01 | 19.24 |
| -5 | 0.10 | 0.01 | 19.36 |
| -7 | 0.10 | 0.01 | 19.54 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

LUMENS TABULATION - (Cont.)

| | | | |
|--------------|------|------|---------|
| -9 | 0.10 | 0.01 | 19.77 |
| -11 | 0.10 | 0.01 | 20.06 |
| -13 | 0.10 | 0.01 | 20.41 |
| -15 | 0.10 | 0.01 | 20.79 |
| -17 | 0.13 | 0.01 | 26.58 |
| -19.5 | 0.15 | 0.01 | 32.87 |
| -22.5 | 0.15 | 0.01 | 34.08 |
| -25.5 | 0.18 | 0.01 | 41.50 |
| -29 | 0.20 | 0.01 | 49.50 |
| -33 | 0.22 | 0.01 | 57.90 |
| -37.5 | 0.24 | 0.02 | 66.73 |
| -42.5 | 0.25 | 0.01 | 67.90 |
| -47.5 | 0.38 | 0.02 | 92.29 |
| -55 | 0.50 | 0.02 | 82.63 |
| -65 | 0.40 | 0.02 | 40.55 |
| -75 | 0.22 | 0.01 | 15.14 |
| -85 | 0.04 | 0.00 | 1.34 |
| -90 | | | |
| Total | 7.79 | 0.46 | 1521.88 |

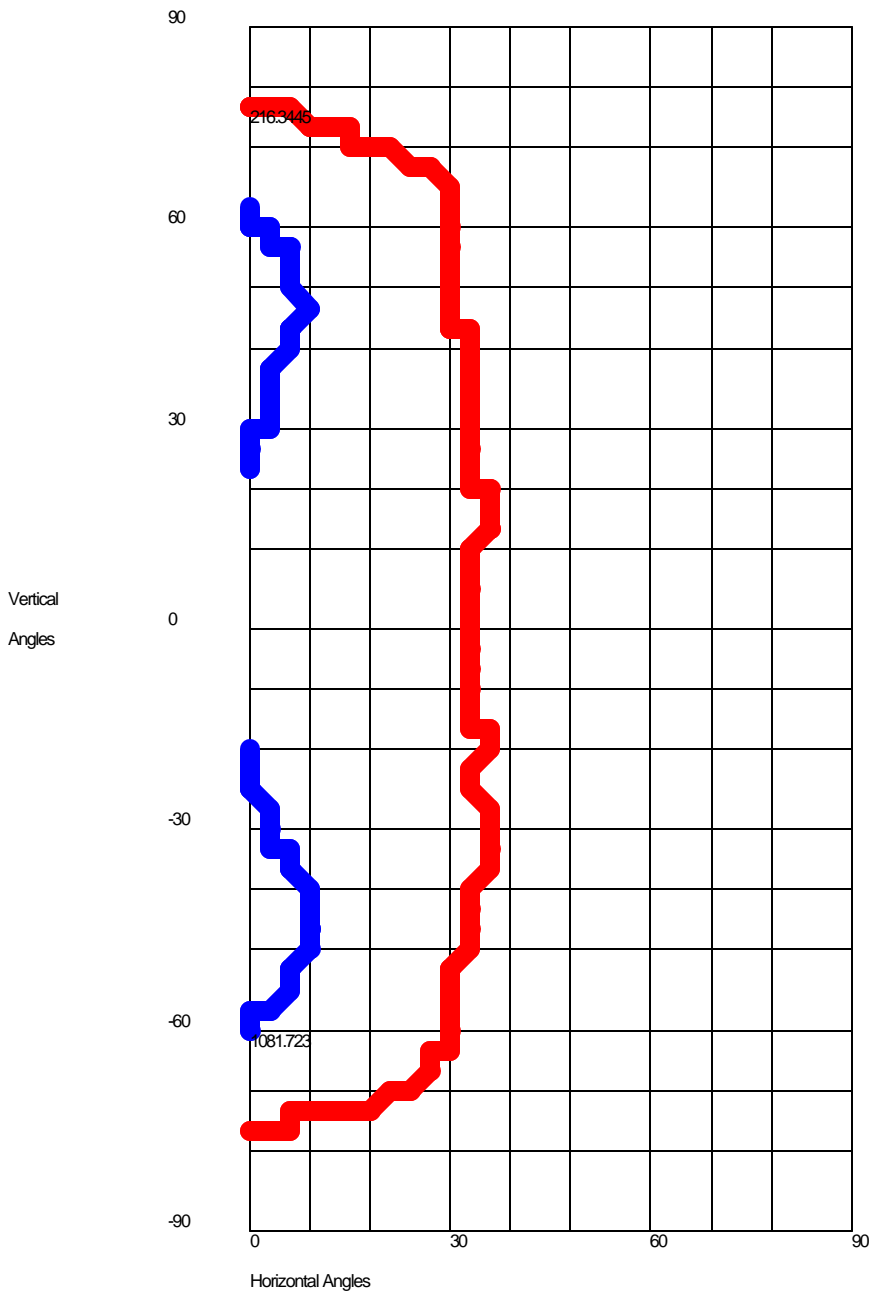
AXIAL CANDELA DISPLAY



Maximum Candela = 2163.445 Located At Horizontal Angle =-15, Vertical Angle =-47.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

IES FLOOD REPORT
PHOTOMETRIC FILENAME : WPLA50N19.IES

ISOCANDELA CURVES



Maximum Candela = 2163.445 Located At Horizontal Angle = -15, Vertical Angle = -47.5
50% Maximum Candela = 1081.7225
10% Maximum Candela = 216.3445