



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L021506201 PRORATED TO ZIS-48-LED4-LO-SAL

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUEDATE] 2/23/2015

[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] ZIS-48-LED4-MO-SAL

[LUMINAIRE] 96"L X 48" W X 1.5" H LED LINEAR DIRECT LUMINAIRE DIFFUSED LENS

[LAMPCAT]

[BALLAST]

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 14278 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 132 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 8.14 ft |
| Luminous Width (90-270) | 4.13 ft |
| Luminous Height | 0.14 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 488 | 574 | 594 |
| 55 | 531 | 660 | 694 |
| 65 | 612 | 807 | 871 |
| 75 | 811 | 1123 | 1257 |
| 85 | 1701 | 2353 | 2723 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>7.5</u> | <u>10.0</u> | <u>12.5</u> | <u>15.0</u> | <u>17.5</u> | <u>20.0</u> | <u>22.5</u> |
|--------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1330.452 | 1330.404 | 1330.356 | 1330.320 | 1330.272 | 1330.236 | 1330.188 | 1330.152 | 1330.116 | 1330.188 |
| 5.0 | 1327.596 | 1327.512 | 1327.428 | 1327.368 | 1327.308 | 1327.260 | 1327.224 | 1327.200 | 1327.176 | 1327.176 |
| 7.5 | 1328.712 | 1328.568 | 1328.424 | 1328.256 | 1328.088 | 1328.016 | 1327.704 | 1327.608 | 1327.560 | 1328.160 |
| 10.0 | 1327.296 | 1327.128 | 1326.960 | 1326.816 | 1326.672 | 1326.912 | 1326.960 | 1328.412 | 1330.800 | 1333.152 |
| 12.5 | 1325.016 | 1324.800 | 1324.848 | 1324.536 | 1324.704 | 1324.584 | 1327.476 | 1330.524 | 1333.524 | 1336.488 |
| 15.0 | 1319.040 | 1318.800 | 1318.608 | 1318.764 | 1318.692 | 1322.040 | 1325.952 | 1329.876 | 1333.584 | 1336.968 |
| 17.5 | 1312.752 | 1312.464 | 1312.236 | 1312.224 | 1314.444 | 1319.004 | 1323.564 | 1327.800 | 1331.760 | 1335.708 |
| 20.0 | 1302.468 | 1302.168 | 1301.988 | 1302.132 | 1307.256 | 1312.728 | 1317.972 | 1322.892 | 1327.848 | 1333.116 |
| 22.5 | 1291.452 | 1291.080 | 1290.744 | 1292.760 | 1298.928 | 1305.096 | 1310.688 | 1316.340 | 1322.148 | 1328.412 |
| 25.0 | 1276.608 | 1276.284 | 1276.152 | 1280.448 | 1287.540 | 1294.200 | 1300.740 | 1307.580 | 1314.708 | 1322.184 |
| 27.5 | 1260.900 | 1260.588 | 1260.516 | 1267.308 | 1274.928 | 1282.104 | 1289.424 | 1297.224 | 1305.552 | 1313.112 |
| 30.0 | 1242.264 | 1241.952 | 1242.732 | 1250.796 | 1259.112 | 1267.212 | 1275.552 | 1284.960 | 1293.864 | 1302.804 |
| 32.5 | 1222.548 | 1222.260 | 1224.552 | 1233.564 | 1242.696 | 1251.360 | 1260.924 | 1270.848 | 1280.484 | 1290.228 |
| 35.0 | 1200.180 | 1199.880 | 1203.300 | 1213.416 | 1222.932 | 1232.904 | 1243.740 | 1254.648 | 1265.736 | 1276.884 |
| 37.5 | 1176.864 | 1176.564 | 1181.580 | 1192.320 | 1202.760 | 1213.812 | 1225.368 | 1237.140 | 1249.200 | 1260.228 |
| 40.0 | 1151.448 | 1151.112 | 1157.700 | 1169.016 | 1180.284 | 1192.332 | 1205.112 | 1218.228 | 1231.044 | 1242.948 |
| 42.5 | 1125.312 | 1124.976 | 1133.208 | 1145.304 | 1157.280 | 1170.192 | 1183.884 | 1197.588 | 1210.704 | 1223.532 |
| 45.0 | 1097.580 | 1097.220 | 1107.084 | 1119.660 | 1132.728 | 1146.564 | 1161.384 | 1176.120 | 1189.584 | 1203.048 |
| 47.5 | 1069.008 | 1068.372 | 1079.676 | 1093.008 | 1106.784 | 1121.652 | 1137.048 | 1152.108 | 1166.868 | 1181.172 |
| 50.0 | 1038.204 | 1038.600 | 1050.708 | 1064.856 | 1079.388 | 1095.492 | 1111.608 | 1127.508 | 1142.592 | 1157.736 |
| 52.5 | 1007.172 | 1008.600 | 1021.320 | 1036.164 | 1051.368 | 1068.264 | 1085.052 | 1101.816 | 1117.608 | 1133.172 |
| 55.0 | 975.228 | 977.640 | 990.924 | 1006.620 | 1022.892 | 1040.616 | 1057.908 | 1074.732 | 1091.508 | 1107.684 |
| 57.5 | 942.516 | 945.900 | 959.760 | 976.092 | 993.084 | 1011.336 | 1029.108 | 1047.012 | 1064.148 | 1080.912 |
| 60.0 | 908.772 | 913.224 | 927.708 | 944.772 | 962.712 | 981.336 | 999.192 | 1016.580 | 1034.232 | 1051.632 |
| 62.5 | 873.936 | 879.528 | 894.420 | 912.024 | 930.060 | 948.324 | 966.612 | 984.924 | 1002.756 | 1021.512 |
| 65.0 | 838.644 | 845.448 | 860.772 | 878.844 | 895.680 | 914.088 | 932.796 | 952.080 | 971.076 | 990.528 |
| 67.5 | 804.036 | 811.860 | 827.136 | 844.380 | 861.552 | 881.400 | 900.660 | 920.184 | 939.480 | 959.928 |
| 70.0 | 769.260 | 778.176 | 792.936 | 810.036 | 828.468 | 848.688 | 869.064 | 889.680 | 909.540 | 930.252 |
| 72.5 | 733.788 | 743.328 | 757.104 | 775.572 | 795.864 | 817.296 | 837.360 | 858.444 | 878.424 | 899.868 |
| 75.0 | 698.076 | 707.784 | 721.896 | 742.200 | 762.468 | 784.452 | 804.480 | 825.084 | 845.292 | 867.300 |
| 77.5 | 661.404 | 671.136 | 687.252 | 708.828 | 729.192 | 750.252 | 770.544 | 791.652 | 811.512 | 833.568 |
| 80.0 | 625.080 | 635.568 | 653.580 | 674.340 | 694.752 | 716.436 | 736.524 | 757.896 | 777.744 | 799.476 |
| 82.5 | 589.272 | 602.400 | 620.604 | 642.348 | 662.040 | 683.820 | 703.908 | 724.656 | 744.828 | 767.148 |
| 85.0 | 554.136 | 569.796 | 586.740 | 608.376 | 628.656 | 649.992 | 670.560 | 690.816 | 711.192 | 733.896 |
| 87.5 | 523.104 | 540.276 | 557.640 | 578.052 | 597.672 | 619.236 | 640.416 | 660.624 | 681.000 | 703.812 |
| 90.0 | 536.748 | 535.656 | 556.872 | 578.676 | 602.184 | 624.384 | 647.220 | 669.972 | 693.300 | 717.300 |
| 92.5 | 523.104 | 540.276 | 557.640 | 578.052 | 597.672 | 619.236 | 640.416 | 660.624 | 681.000 | 703.812 |
| 95.0 | 554.136 | 569.796 | 586.740 | 608.376 | 628.656 | 649.992 | 670.560 | 690.816 | 711.192 | 733.896 |
| 97.5 | 589.272 | 602.400 | 620.604 | 642.348 | 662.040 | 683.820 | 703.908 | 724.656 | 744.828 | 767.148 |
| 100.0 | 625.080 | 635.568 | 653.580 | 674.340 | 694.752 | 716.436 | 736.524 | 757.896 | 777.744 | 799.476 |
| 102.5 | 661.404 | 671.136 | 687.252 | 708.828 | 729.192 | 750.252 | 770.544 | 791.652 | 811.512 | 833.568 |
| 105.0 | 698.076 | 707.784 | 721.896 | 742.200 | 762.468 | 784.452 | 804.480 | 825.084 | 845.292 | 867.300 |
| 107.5 | 733.788 | 743.328 | 757.104 | 775.572 | 795.864 | 817.296 | 837.360 | 858.444 | 878.424 | 899.868 |
| 110.0 | 769.260 | 778.176 | 792.936 | 810.036 | 828.468 | 848.688 | 869.064 | 889.668 | 909.540 | 930.252 |
| 112.5 | 804.036 | 811.860 | 827.136 | 844.380 | 861.552 | 881.400 | 900.660 | 920.184 | 939.480 | 959.928 |
| 115.0 | 838.644 | 845.448 | 860.772 | 878.844 | 895.680 | 914.088 | 932.796 | 952.080 | 971.076 | 990.528 |
| 117.5 | 873.936 | 879.528 | 894.420 | 912.024 | 930.060 | 948.324 | 966.612 | 984.924 | 1002.756 | 1021.512 |
| 120.0 | 908.772 | 913.224 | 927.708 | 944.772 | 962.712 | 981.336 | 999.192 | 1016.580 | 1034.232 | 1051.632 |
| 122.5 | 942.516 | 945.900 | 959.760 | 976.092 | 993.084 | 1011.336 | 1029.108 | 1047.012 | 1064.148 | 1080.912 |
| 125.0 | 975.228 | 977.640 | 990.924 | 1006.620 | 1022.892 | 1040.616 | 1057.908 | 1074.732 | 1091.508 | 1107.684 |
| 127.5 | 1007.172 | 1008.600 | 1021.320 | 1036.164 | 1051.368 | 1068.264 | 1085.052 | 1101.816 | 1117.608 | 1133.172 |
| 130.0 | 1038.204 | 1038.600 | 1050.708 | 1064.856 | 1079.388 | 1095.492 | 1111.608 | 1127.508 | 1142.592 | 1157.736 |
| 132.5 | 1069.008 | 1068.372 | 1079.676 | 1093.020 | 1106.784 | 1121.652 | 1137.048 | 1152.108 | 1166.868 | 1181.172 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 1097.580 | 1097.220 | 1107.084 | 1119.660 | 1132.728 | 1146.564 | 1161.384 | 1176.120 | 1189.584 | 1203.048 |
| 137.5 | 1125.312 | 1124.976 | 1133.208 | 1145.304 | 1157.280 | 1170.192 | 1183.884 | 1197.588 | 1210.704 | 1223.532 |
| 140.0 | 1151.448 | 1151.112 | 1157.700 | 1169.016 | 1180.284 | 1192.332 | 1205.112 | 1218.228 | 1231.044 | 1242.948 |
| 142.5 | 1176.864 | 1176.564 | 1181.580 | 1192.320 | 1202.760 | 1213.812 | 1225.368 | 1237.140 | 1249.200 | 1260.228 |
| 145.0 | 1200.180 | 1199.880 | 1203.300 | 1213.416 | 1222.932 | 1232.904 | 1243.740 | 1254.648 | 1265.736 | 1276.884 |
| 147.5 | 1222.548 | 1222.260 | 1224.552 | 1233.564 | 1242.696 | 1251.360 | 1260.924 | 1270.848 | 1280.484 | 1290.228 |
| 150.0 | 1242.264 | 1241.952 | 1242.732 | 1250.796 | 1259.112 | 1267.212 | 1275.552 | 1284.960 | 1293.864 | 1302.804 |
| 152.5 | 1260.900 | 1260.588 | 1260.516 | 1267.308 | 1274.928 | 1282.104 | 1289.424 | 1297.224 | 1305.552 | 1313.112 |
| 155.0 | 1276.608 | 1276.284 | 1276.152 | 1280.448 | 1287.540 | 1294.200 | 1300.740 | 1307.580 | 1314.708 | 1322.184 |
| 157.5 | 1291.452 | 1291.080 | 1290.744 | 1292.760 | 1298.928 | 1305.096 | 1310.688 | 1316.340 | 1322.148 | 1328.412 |
| 160.0 | 1302.468 | 1302.168 | 1301.988 | 1302.132 | 1307.256 | 1312.728 | 1317.972 | 1322.892 | 1327.848 | 1333.116 |
| 162.5 | 1312.752 | 1312.464 | 1312.236 | 1312.224 | 1314.444 | 1319.004 | 1323.564 | 1327.800 | 1331.760 | 1335.720 |
| 165.0 | 1319.040 | 1318.800 | 1318.608 | 1318.764 | 1318.692 | 1322.040 | 1325.952 | 1329.876 | 1333.584 | 1336.968 |
| 167.5 | 1325.016 | 1324.800 | 1324.848 | 1324.536 | 1324.704 | 1324.584 | 1327.476 | 1330.524 | 1333.524 | 1336.488 |
| 170.0 | 1327.296 | 1327.128 | 1326.960 | 1326.816 | 1326.672 | 1326.912 | 1326.960 | 1328.412 | 1330.800 | 1333.152 |
| 172.5 | 1328.712 | 1328.568 | 1328.424 | 1328.256 | 1328.088 | 1328.016 | 1327.704 | 1327.608 | 1327.560 | 1328.160 |
| 175.0 | 1327.596 | 1327.512 | 1327.428 | 1327.368 | 1327.308 | 1327.260 | 1327.224 | 1327.200 | 1327.188 | 1327.176 |
| 177.5 | 1330.452 | 1330.404 | 1330.356 | 1330.320 | 1330.272 | 1330.236 | 1330.188 | 1330.152 | 1330.116 | 1330.188 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>25.0</u> | <u>27.5</u> | <u>30.0</u> | <u>32.5</u> | <u>35.0</u> | <u>37.5</u> | <u>40.0</u> | <u>42.5</u> | <u>45.0</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1330.092 | 1330.008 | 1329.924 | 1329.852 | 1329.768 | 1329.696 | 1329.612 | 1329.528 | 1329.444 | 1329.360 |
| 5.0 | 1327.176 | 1327.752 | 1327.560 | 1327.836 | 1329.048 | 1329.696 | 1330.800 | 1331.880 | 1332.924 | 1333.944 |
| 7.5 | 1329.684 | 1331.160 | 1332.576 | 1333.932 | 1335.228 | 1336.464 | 1337.628 | 1338.864 | 1340.112 | 1341.444 |
| 10.0 | 1335.456 | 1337.724 | 1339.968 | 1341.744 | 1343.532 | 1345.272 | 1346.892 | 1348.272 | 1349.460 | 1350.492 |
| 12.5 | 1339.092 | 1341.528 | 1343.928 | 1346.412 | 1348.608 | 1350.936 | 1353.276 | 1355.568 | 1357.752 | 1359.864 |
| 15.0 | 1340.340 | 1343.700 | 1347.156 | 1350.624 | 1353.936 | 1356.888 | 1359.780 | 1362.384 | 1364.736 | 1367.088 |
| 17.5 | 1339.644 | 1343.784 | 1348.104 | 1352.364 | 1356.384 | 1360.056 | 1363.680 | 1367.232 | 1370.712 | 1373.328 |
| 20.0 | 1338.324 | 1343.856 | 1349.064 | 1353.372 | 1357.620 | 1361.796 | 1365.732 | 1369.392 | 1372.980 | 1376.544 |
| 22.5 | 1334.940 | 1340.424 | 1345.992 | 1351.548 | 1357.260 | 1361.976 | 1367.160 | 1370.664 | 1374.132 | 1377.540 |
| 25.0 | 1329.096 | 1336.092 | 1342.368 | 1348.416 | 1354.176 | 1359.216 | 1364.208 | 1369.128 | 1373.976 | 1378.680 |
| 27.5 | 1320.876 | 1328.736 | 1335.732 | 1342.536 | 1349.112 | 1355.604 | 1361.304 | 1366.824 | 1372.092 | 1376.820 |
| 30.0 | 1311.744 | 1320.204 | 1327.584 | 1334.772 | 1341.960 | 1349.160 | 1356.156 | 1362.732 | 1368.900 | 1374.216 |
| 32.5 | 1300.032 | 1308.492 | 1317.180 | 1325.916 | 1334.736 | 1341.876 | 1349.016 | 1356.132 | 1363.200 | 1369.884 |
| 35.0 | 1286.748 | 1296.300 | 1305.684 | 1314.768 | 1323.648 | 1332.504 | 1341.264 | 1349.460 | 1356.084 | 1362.648 |
| 37.5 | 1271.040 | 1281.972 | 1292.472 | 1302.840 | 1312.992 | 1322.664 | 1331.268 | 1339.728 | 1347.828 | 1355.676 |
| 40.0 | 1254.756 | 1266.000 | 1277.112 | 1288.632 | 1299.972 | 1310.484 | 1320.348 | 1329.540 | 1338.108 | 1346.028 |
| 42.5 | 1235.928 | 1248.240 | 1260.708 | 1273.044 | 1285.584 | 1296.420 | 1307.052 | 1317.156 | 1326.828 | 1335.264 |
| 45.0 | 1215.972 | 1229.304 | 1242.504 | 1255.728 | 1268.412 | 1280.616 | 1292.208 | 1303.320 | 1313.112 | 1322.136 |
| 47.5 | 1195.272 | 1209.312 | 1223.436 | 1237.272 | 1250.556 | 1263.264 | 1275.876 | 1286.868 | 1297.596 | 1307.592 |
| 50.0 | 1172.616 | 1188.156 | 1202.940 | 1217.292 | 1231.596 | 1245.396 | 1257.336 | 1269.120 | 1281.012 | 1291.140 |
| 52.5 | 1149.000 | 1165.032 | 1180.836 | 1196.484 | 1210.884 | 1224.744 | 1238.004 | 1250.544 | 1262.436 | 1273.716 |
| 55.0 | 1124.676 | 1141.308 | 1157.616 | 1173.300 | 1188.780 | 1203.072 | 1217.064 | 1230.900 | 1243.380 | 1255.056 |
| 57.5 | 1098.048 | 1115.640 | 1132.404 | 1148.856 | 1164.708 | 1180.320 | 1195.080 | 1209.180 | 1222.380 | 1234.632 |
| 60.0 | 1069.692 | 1087.752 | 1105.512 | 1122.456 | 1139.184 | 1155.540 | 1170.960 | 1185.636 | 1199.964 | 1211.652 |
| 62.5 | 1041.540 | 1059.648 | 1077.540 | 1094.760 | 1111.860 | 1128.792 | 1145.388 | 1160.436 | 1174.236 | 1187.136 |
| 65.0 | 1010.844 | 1031.244 | 1048.236 | 1065.876 | 1083.852 | 1101.180 | 1118.364 | 1133.688 | 1147.824 | 1161.252 |
| 67.5 | 980.088 | 999.564 | 1017.720 | 1035.924 | 1054.452 | 1072.176 | 1089.972 | 1105.920 | 1119.948 | 1134.156 |
| 70.0 | 951.132 | 970.620 | 989.280 | 1007.088 | 1024.476 | 1042.560 | 1061.448 | 1078.020 | 1091.700 | 1106.268 |
| 72.5 | 921.816 | 942.264 | 960.108 | 977.496 | 994.224 | 1012.032 | 1030.152 | 1047.144 | 1061.928 | 1076.472 |
| 75.0 | 888.660 | 910.632 | 929.856 | 947.004 | 962.940 | 980.496 | 998.268 | 1014.996 | 1031.088 | 1046.592 |
| 77.5 | 854.220 | 876.324 | 897.684 | 915.192 | 930.900 | 948.660 | 966.588 | 983.736 | 1000.536 | 1016.388 |
| 80.0 | 820.572 | 841.584 | 862.344 | 880.008 | 896.940 | 914.760 | 933.264 | 950.976 | 968.856 | 984.432 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 789.084 | 808.200 | 827.436 | 845.220 | 862.776 | 880.524 | 898.236 | 916.752 | 935.676 | 951.168 |
| 85.0 | 756.324 | 774.360 | 792.792 | 810.612 | 829.644 | 847.368 | 865.980 | 885.720 | 905.400 | 920.448 |
| 87.5 | 726.876 | 744.408 | 761.976 | 780.324 | 798.804 | 817.500 | 836.508 | 856.728 | 877.476 | 891.672 |
| 90.0 | 741.624 | 765.756 | 784.512 | 803.376 | 822.960 | 843.312 | 863.436 | 882.720 | 901.212 | 917.892 |
| 92.5 | 726.876 | 744.408 | 761.976 | 780.324 | 798.804 | 817.500 | 836.508 | 856.728 | 877.476 | 891.672 |
| 95.0 | 756.324 | 774.360 | 792.792 | 810.612 | 829.644 | 847.368 | 865.980 | 885.720 | 905.400 | 920.448 |
| 97.5 | 789.084 | 808.200 | 827.436 | 845.220 | 862.776 | 880.524 | 898.236 | 916.752 | 935.676 | 951.168 |
| 100.0 | 820.572 | 841.584 | 862.344 | 880.008 | 896.940 | 914.760 | 933.264 | 950.976 | 968.856 | 984.432 |
| 102.5 | 854.220 | 876.324 | 897.684 | 915.192 | 930.900 | 948.660 | 966.588 | 983.736 | 1000.536 | 1016.388 |
| 105.0 | 888.660 | 910.632 | 929.856 | 947.004 | 962.940 | 980.496 | 998.268 | 1014.996 | 1031.088 | 1046.592 |
| 107.5 | 921.816 | 942.264 | 960.108 | 977.496 | 994.224 | 1012.032 | 1030.152 | 1047.144 | 1061.928 | 1076.472 |
| 110.0 | 951.132 | 970.620 | 989.280 | 1007.088 | 1024.476 | 1042.560 | 1061.448 | 1078.020 | 1091.700 | 1106.268 |
| 112.5 | 980.088 | 999.564 | 1017.720 | 1035.924 | 1054.452 | 1072.176 | 1089.972 | 1105.920 | 1119.948 | 1134.156 |
| 115.0 | 1010.844 | 1031.244 | 1048.236 | 1065.876 | 1083.852 | 1101.180 | 1118.364 | 1133.688 | 1147.824 | 1161.252 |
| 117.5 | 1041.540 | 1059.648 | 1077.540 | 1094.760 | 1111.860 | 1128.792 | 1145.388 | 1160.436 | 1174.236 | 1187.136 |
| 120.0 | 1069.692 | 1087.752 | 1105.512 | 1122.456 | 1139.184 | 1155.540 | 1170.960 | 1185.636 | 1199.964 | 1211.652 |
| 122.5 | 1098.048 | 1115.640 | 1132.404 | 1148.856 | 1164.708 | 1180.320 | 1195.080 | 1209.180 | 1222.380 | 1234.632 |
| 125.0 | 1124.676 | 1141.308 | 1157.616 | 1173.300 | 1188.780 | 1203.072 | 1217.064 | 1230.900 | 1243.380 | 1255.056 |
| 127.5 | 1149.000 | 1165.032 | 1180.836 | 1196.484 | 1210.884 | 1224.744 | 1238.004 | 1250.544 | 1262.436 | 1273.716 |
| 130.0 | 1172.616 | 1188.156 | 1202.940 | 1217.292 | 1231.596 | 1245.396 | 1257.336 | 1269.120 | 1281.012 | 1291.140 |
| 132.5 | 1195.272 | 1209.312 | 1223.436 | 1237.272 | 1250.556 | 1263.264 | 1275.876 | 1286.868 | 1297.596 | 1307.592 |
| 135.0 | 1215.972 | 1229.304 | 1242.504 | 1255.728 | 1268.412 | 1280.616 | 1292.208 | 1303.320 | 1313.112 | 1322.136 |
| 137.5 | 1235.928 | 1248.240 | 1260.708 | 1273.044 | 1285.584 | 1296.420 | 1307.052 | 1317.156 | 1326.828 | 1335.264 |
| 140.0 | 1254.756 | 1266.000 | 1277.112 | 1288.632 | 1299.972 | 1310.484 | 1320.348 | 1329.540 | 1338.108 | 1346.028 |
| 142.5 | 1271.040 | 1281.972 | 1292.472 | 1302.840 | 1312.992 | 1322.664 | 1331.268 | 1339.728 | 1347.828 | 1355.676 |
| 145.0 | 1286.748 | 1296.300 | 1305.684 | 1314.768 | 1323.648 | 1332.504 | 1341.264 | 1349.460 | 1356.084 | 1362.648 |
| 147.5 | 1300.032 | 1308.492 | 1317.180 | 1325.916 | 1334.736 | 1341.876 | 1349.016 | 1356.132 | 1363.200 | 1369.884 |
| 150.0 | 1311.744 | 1320.204 | 1327.584 | 1334.772 | 1341.960 | 1349.160 | 1356.156 | 1362.732 | 1368.900 | 1374.216 |
| 152.5 | 1320.876 | 1328.736 | 1335.732 | 1342.536 | 1349.112 | 1355.604 | 1361.304 | 1366.824 | 1372.092 | 1376.820 |
| 155.0 | 1329.096 | 1336.092 | 1342.368 | 1348.416 | 1354.176 | 1359.216 | 1364.208 | 1369.128 | 1373.976 | 1378.680 |
| 157.5 | 1334.940 | 1340.424 | 1345.992 | 1351.548 | 1357.260 | 1361.976 | 1367.160 | 1370.664 | 1374.132 | 1377.540 |
| 160.0 | 1338.324 | 1343.856 | 1349.064 | 1353.372 | 1357.620 | 1361.796 | 1365.732 | 1369.392 | 1372.980 | 1376.544 |
| 162.5 | 1339.644 | 1343.784 | 1348.104 | 1352.364 | 1356.384 | 1360.056 | 1363.680 | 1367.232 | 1370.712 | 1373.328 |
| 165.0 | 1340.340 | 1343.700 | 1347.156 | 1350.624 | 1353.936 | 1356.888 | 1359.780 | 1362.384 | 1364.736 | 1367.088 |
| 167.5 | 1339.092 | 1341.528 | 1343.928 | 1346.412 | 1348.608 | 1350.936 | 1353.276 | 1355.568 | 1357.752 | 1359.864 |
| 170.0 | 1335.456 | 1337.724 | 1339.968 | 1341.744 | 1343.532 | 1345.272 | 1346.892 | 1348.272 | 1349.460 | 1350.492 |
| 172.5 | 1329.684 | 1331.160 | 1332.576 | 1333.932 | 1335.228 | 1336.464 | 1337.628 | 1338.864 | 1340.112 | 1341.444 |
| 175.0 | 1327.176 | 1327.752 | 1327.560 | 1327.836 | 1329.048 | 1329.696 | 1330.800 | 1331.880 | 1332.924 | 1333.944 |
| 177.5 | 1330.092 | 1330.008 | 1329.924 | 1329.852 | 1329.768 | 1329.696 | 1329.612 | 1329.528 | 1329.444 | 1329.360 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

Vert. Horizontal Angles

| | <u>50.0</u> | <u>52.5</u> | <u>55.0</u> | <u>57.5</u> | <u>60.0</u> | <u>62.5</u> | <u>65.0</u> | <u>67.5</u> | <u>70.0</u> | <u>72.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.276 | 1329.192 | 1329.108 | 1329.024 | 1329.564 | 1328.952 | 1328.832 | 1328.796 | 1328.772 | 1328.736 |
| 5.0 | 1334.928 | 1335.876 | 1336.824 | 1337.592 | 1338.252 | 1338.996 | 1339.380 | 1339.752 | 1340.064 | 1340.328 |
| 7.5 | 1342.728 | 1343.964 | 1345.164 | 1346.316 | 1347.420 | 1348.464 | 1349.460 | 1350.432 | 1351.104 | 1351.740 |
| 10.0 | 1351.392 | 1352.340 | 1353.240 | 1354.452 | 1355.072 | 1357.596 | 1359.060 | 1360.428 | 1361.724 | 1362.912 |
| 12.5 | 1361.868 | 1363.716 | 1364.916 | 1365.708 | 1366.380 | 1366.932 | 1367.928 | 1369.488 | 1370.940 | 1372.308 |
| 15.0 | 1369.308 | 1371.312 | 1373.580 | 1374.852 | 1376.136 | 1376.832 | 1377.156 | 1377.348 | 1378.236 | 1379.700 |
| 17.5 | 1375.356 | 1377.456 | 1379.544 | 1381.368 | 1382.808 | 1384.056 | 1385.064 | 1385.256 | 1385.100 | 1385.208 |
| 20.0 | 1379.496 | 1382.280 | 1384.248 | 1386.000 | 1388.148 | 1389.348 | 1390.380 | 1391.520 | 1391.892 | 1391.532 |
| 22.5 | 1380.924 | 1384.236 | 1387.392 | 1390.344 | 1392.252 | 1393.812 | 1394.964 | 1395.948 | 1396.812 | 1396.920 |
| 25.0 | 1382.352 | 1385.688 | 1388.784 | 1391.772 | 1394.628 | 1396.848 | 1398.204 | 1399.116 | 1399.764 | 1400.280 |
| 27.5 | 1381.476 | 1386.312 | 1389.324 | 1392.420 | 1395.180 | 1397.760 | 1399.968 | 1400.760 | 1400.952 | 1401.264 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 30.0 | 1379.172 | 1383.828 | 1388.016 | 1391.544 | 1394.052 | 1396.500 | 1398.804 | 1401.216 | 1401.168 | 1401.180 |
| 32.5 | 1375.488 | 1379.940 | 1384.236 | 1388.412 | 1392.636 | 1394.856 | 1396.848 | 1398.384 | 1399.548 | 1399.032 |
| 35.0 | 1369.068 | 1375.260 | 1380.360 | 1384.128 | 1387.548 | 1390.872 | 1392.996 | 1394.544 | 1395.948 | 1396.260 |
| 37.5 | 1362.168 | 1368.060 | 1373.484 | 1378.464 | 1382.040 | 1385.424 | 1388.544 | 1389.888 | 1390.536 | 1391.076 |
| 40.0 | 1353.252 | 1359.876 | 1365.744 | 1370.988 | 1375.608 | 1378.020 | 1380.420 | 1383.120 | 1384.080 | 1384.548 |
| 42.5 | 1343.244 | 1349.736 | 1356.048 | 1361.028 | 1365.312 | 1369.440 | 1372.236 | 1374.588 | 1376.460 | 1376.280 |
| 45.0 | 1330.788 | 1337.868 | 1344.132 | 1350.132 | 1355.124 | 1359.120 | 1362.552 | 1364.604 | 1366.488 | 1367.172 |
| 47.5 | 1316.484 | 1325.100 | 1332.000 | 1337.976 | 1343.400 | 1347.852 | 1351.416 | 1354.968 | 1355.940 | 1356.756 |
| 50.0 | 1301.136 | 1310.040 | 1318.056 | 1324.992 | 1330.332 | 1335.240 | 1339.188 | 1341.672 | 1343.892 | 1344.516 |
| 52.5 | 1284.144 | 1293.948 | 1302.504 | 1309.704 | 1316.340 | 1321.224 | 1325.232 | 1328.280 | 1330.500 | 1331.856 |
| 55.0 | 1265.904 | 1275.756 | 1284.744 | 1292.892 | 1299.708 | 1305.612 | 1309.800 | 1313.412 | 1315.944 | 1317.696 |
| 57.5 | 1245.900 | 1255.968 | 1264.752 | 1273.044 | 1280.460 | 1286.712 | 1291.896 | 1295.748 | 1299.144 | 1301.604 |
| 60.0 | 1222.932 | 1233.336 | 1242.564 | 1251.180 | 1258.980 | 1265.580 | 1270.764 | 1275.240 | 1278.840 | 1282.212 |
| 62.5 | 1198.452 | 1209.348 | 1218.696 | 1228.272 | 1236.936 | 1244.844 | 1250.880 | 1254.468 | 1257.156 | 1260.516 |
| 65.0 | 1173.360 | 1184.112 | 1194.480 | 1204.608 | 1214.232 | 1224.012 | 1229.856 | 1232.868 | 1235.928 | 1238.820 |
| 67.5 | 1147.044 | 1158.540 | 1169.724 | 1179.576 | 1189.968 | 1199.796 | 1207.320 | 1211.412 | 1214.364 | 1217.376 |
| 70.0 | 1120.008 | 1132.368 | 1143.984 | 1155.756 | 1167.312 | 1177.548 | 1185.804 | 1191.156 | 1194.168 | 1197.564 |
| 72.5 | 1091.136 | 1104.672 | 1117.380 | 1130.304 | 1143.840 | 1156.500 | 1165.716 | 1169.184 | 1172.976 | 1176.984 |
| 75.0 | 1061.760 | 1076.148 | 1089.300 | 1103.568 | 1117.104 | 1130.148 | 1138.284 | 1143.384 | 1147.488 | 1151.544 |
| 77.5 | 1031.976 | 1046.676 | 1060.176 | 1074.708 | 1088.148 | 1099.344 | 1107.792 | 1114.824 | 1120.080 | 1125.420 |
| 80.0 | 999.576 | 1014.528 | 1029.372 | 1043.772 | 1057.236 | 1068.828 | 1079.112 | 1087.056 | 1092.696 | 1098.756 |
| 82.5 | 967.116 | 982.404 | 998.040 | 1012.632 | 1026.948 | 1040.292 | 1053.048 | 1060.368 | 1065.456 | 1070.808 |
| 85.0 | 935.328 | 950.940 | 966.660 | 981.240 | 995.916 | 1010.736 | 1025.676 | 1031.508 | 1036.176 | 1041.228 |
| 87.5 | 906.648 | 921.696 | 937.260 | 951.852 | 966.552 | 982.596 | 998.496 | 1003.356 | 1007.616 | 1013.100 |
| 90.0 | 873.792 | 888.108 | 902.196 | 916.512 | 930.852 | 945.816 | 961.876 | 978.272 | 995.464 | 1013.984 |
| 92.5 | 840.648 | 854.696 | 868.260 | 881.852 | 895.552 | 909.596 | 923.996 | 938.756 | 953.864 | 969.320 |
| 95.0 | 807.328 | 820.940 | 834.660 | 848.240 | 861.916 | 875.736 | 889.876 | 904.328 | 919.088 | 934.152 |
| 97.5 | 774.116 | 787.404 | 800.040 | 812.632 | 825.948 | 839.292 | 852.948 | 866.904 | 881.160 | 895.716 |
| 100.0 | 741.576 | 754.528 | 767.372 | 780.772 | 794.236 | 807.828 | 821.712 | 835.904 | 850.396 | 865.192 |
| 102.5 | 709.976 | 722.676 | 735.176 | 748.708 | 762.148 | 775.844 | 789.792 | 804.024 | 818.544 | 833.360 |
| 105.0 | 678.360 | 690.112 | 702.480 | 715.608 | 728.232 | 741.012 | 754.056 | 767.368 | 780.948 | 794.792 |
| 107.5 | 646.760 | 658.112 | 669.380 | 681.304 | 693.840 | 706.500 | 719.384 | 732.496 | 745.832 | 759.384 |
| 110.0 | 615.208 | 626.368 | 637.984 | 649.756 | 661.312 | 673.548 | 685.804 | 698.156 | 710.668 | 723.332 |
| 112.5 | 583.744 | 594.540 | 605.724 | 617.576 | 629.968 | 642.796 | 655.864 | 669.176 | 682.728 | 696.512 |
| 115.0 | 552.360 | 563.112 | 574.480 | 586.608 | 598.232 | 610.012 | 622.056 | 634.368 | 646.948 | 659.792 |
| 117.5 | 521.152 | 531.948 | 543.316 | 555.368 | 567.112 | 579.556 | 592.200 | 605.044 | 618.088 | 631.332 |
| 120.0 | 490.160 | 500.976 | 512.344 | 524.368 | 536.112 | 548.556 | 561.200 | 574.044 | 587.088 | 600.332 |
| 122.5 | 459.360 | 469.976 | 481.344 | 493.368 | 505.112 | 517.556 | 530.200 | 543.044 | 556.088 | 569.332 |
| 125.0 | 428.760 | 439.176 | 450.544 | 462.568 | 474.312 | 486.756 | 499.400 | 512.244 | 525.288 | 538.532 |
| 127.5 | 398.400 | 408.616 | 419.984 | 431.908 | 443.552 | 455.996 | 468.740 | 481.684 | 494.828 | 508.172 |
| 130.0 | 368.240 | 378.256 | 389.320 | 400.944 | 412.712 | 424.616 | 436.760 | 449.144 | 461.768 | 474.632 |
| 132.5 | 338.360 | 348.176 | 359.040 | 370.564 | 382.232 | 394.048 | 406.112 | 418.424 | 430.980 | 443.784 |
| 135.0 | 308.760 | 318.276 | 329.040 | 340.564 | 352.232 | 364.048 | 376.112 | 388.424 | 400.980 | 413.784 |
| 137.5 | 279.400 | 288.616 | 299.984 | 311.908 | 323.552 | 335.996 | 348.740 | 361.684 | 374.828 | 388.172 |
| 140.0 | 250.160 | 259.176 | 270.544 | 282.568 | 294.312 | 306.756 | 319.400 | 332.244 | 345.288 | 358.532 |
| 142.5 | 221.160 | 230.176 | 241.544 | 253.568 | 265.312 | 277.756 | 290.400 | 303.244 | 316.288 | 329.532 |
| 145.0 | 192.400 | 201.256 | 212.920 | 224.944 | 236.712 | 248.556 | 260.760 | 273.204 | 285.888 | 298.812 |
| 147.5 | 163.840 | 172.416 | 183.984 | 196.108 | 207.952 | 219.916 | 232.100 | 244.524 | 257.188 | 270.092 |
| 150.0 | 135.440 | 143.776 | 155.040 | 167.564 | 179.312 | 191.276 | 203.560 | 216.172 | 229.016 | 242.092 |
| 152.5 | 107.160 | 115.176 | 126.544 | 138.568 | 150.312 | 162.756 | 175.400 | 188.244 | 201.288 | 214.532 |
| 155.0 | 79.040 | 86.616 | 98.984 | 111.908 | 124.552 | 137.996 | 151.740 | 165.784 | 180.128 | 194.772 |
| 157.5 | 51.160 | 58.276 | 69.920 | 82.564 | 95.312 | 108.256 | 121.500 | 135.044 | 148.888 | 163.032 |
| 160.0 | 23.440 | 29.976 | 41.544 | 53.568 | 65.312 | 77.756 | 90.400 | 103.244 | 116.288 | 129.532 |
| 162.5 | 15.760 | 21.176 | 32.544 | 43.568 | 54.312 | 65.756 | 77.400 | 89.244 | 101.288 | 113.532 |
| 165.0 | 8.160 | 11.176 | 17.544 | 23.568 | 29.312 | 35.756 | 42.400 | 49.244 | 56.288 | 63.532 |
| 167.5 | 4.400 | 5.976 | 9.984 | 13.908 | 17.552 | 21.996 | 26.740 | 31.684 | 36.828 | 42.172 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 170.0 | 1351.392 | 1352.340 | 1353.240 | 1354.452 | 1356.072 | 1357.596 | 1359.060 | 1360.428 | 1361.724 | 1362.912 |
| 172.5 | 1342.728 | 1343.964 | 1345.164 | 1346.316 | 1347.420 | 1348.464 | 1349.460 | 1350.432 | 1351.104 | 1351.740 |
| 175.0 | 1334.928 | 1335.876 | 1336.824 | 1337.592 | 1338.252 | 1338.996 | 1339.380 | 1339.752 | 1340.064 | 1340.328 |
| 177.5 | 1329.276 | 1329.192 | 1329.108 | 1329.024 | 1329.564 | 1328.952 | 1328.832 | 1328.796 | 1328.772 | 1328.736 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | 75.0 | 77.5 | 80.0 | 82.5 | 85.0 | 87.5 | 90.0 | 92.5 | 95.0 | 97.5 |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.024 | 1328.676 | 1328.688 | 1328.700 | 1328.712 | 1328.724 | 1328.724 | 1328.724 | 1328.712 | 1328.700 |
| 5.0 | 1340.544 | 1340.700 | 1340.796 | 1341.276 | 1340.928 | 1341.000 | 1341.036 | 1341.000 | 1340.928 | 1340.856 |
| 7.5 | 1352.436 | 1352.148 | 1352.256 | 1352.292 | 1352.268 | 1352.292 | 1352.328 | 1352.292 | 1352.268 | 1352.304 |
| 10.0 | 1363.872 | 1364.520 | 1364.736 | 1364.844 | 1364.844 | 1364.772 | 1364.832 | 1364.772 | 1364.844 | 1364.844 |
| 12.5 | 1373.580 | 1374.720 | 1375.596 | 1375.440 | 1375.272 | 1375.500 | 1375.056 | 1375.080 | 1375.284 | 1375.452 |
| 15.0 | 1381.068 | 1382.316 | 1383.360 | 1383.708 | 1383.576 | 1383.336 | 1383.240 | 1383.348 | 1383.588 | 1383.720 |
| 17.5 | 1386.600 | 1387.908 | 1389.120 | 1389.864 | 1390.080 | 1389.804 | 1389.396 | 1389.816 | 1390.092 | 1389.876 |
| 20.0 | 1391.496 | 1392.948 | 1394.304 | 1395.492 | 1395.588 | 1395.204 | 1394.880 | 1395.216 | 1395.600 | 1395.492 |
| 22.5 | 1396.128 | 1396.272 | 1397.628 | 1398.864 | 1399.356 | 1399.044 | 1398.636 | 1399.056 | 1399.368 | 1398.864 |
| 25.0 | 1399.776 | 1398.504 | 1399.392 | 1400.604 | 1401.432 | 1400.856 | 1400.184 | 1400.868 | 1401.408 | 1400.616 |
| 27.5 | 1401.384 | 1400.052 | 1399.368 | 1400.748 | 1401.828 | 1401.252 | 1401.000 | 1401.252 | 1401.840 | 1400.748 |
| 30.0 | 1401.036 | 1400.256 | 1398.168 | 1399.068 | 1400.232 | 1399.920 | 1399.200 | 1399.932 | 1400.244 | 1399.068 |
| 32.5 | 1398.588 | 1398.120 | 1395.972 | 1395.528 | 1396.596 | 1396.548 | 1395.828 | 1396.560 | 1396.596 | 1395.528 |
| 35.0 | 1395.348 | 1394.352 | 1392.600 | 1390.632 | 1391.688 | 1391.820 | 1391.112 | 1391.832 | 1391.688 | 1390.632 |
| 37.5 | 1390.044 | 1388.736 | 1387.248 | 1384.248 | 1384.968 | 1385.292 | 1384.572 | 1385.304 | 1384.968 | 1384.296 |
| 40.0 | 1384.332 | 1382.472 | 1380.528 | 1377.564 | 1376.952 | 1377.360 | 1376.640 | 1377.372 | 1376.964 | 1377.600 |
| 42.5 | 1375.788 | 1374.084 | 1371.840 | 1369.164 | 1367.376 | 1367.952 | 1367.268 | 1367.976 | 1367.376 | 1369.212 |
| 45.0 | 1366.512 | 1365.336 | 1362.768 | 1360.212 | 1357.224 | 1357.836 | 1357.344 | 1357.836 | 1357.236 | 1360.248 |
| 47.5 | 1355.892 | 1354.380 | 1351.848 | 1349.064 | 1345.224 | 1345.908 | 1345.548 | 1345.920 | 1345.236 | 1349.100 |
| 50.0 | 1345.200 | 1342.920 | 1340.640 | 1337.328 | 1333.224 | 1333.104 | 1332.996 | 1333.104 | 1333.272 | 1337.364 |
| 52.5 | 1331.736 | 1330.128 | 1327.836 | 1324.188 | 1320.228 | 1319.076 | 1319.268 | 1319.076 | 1320.276 | 1324.236 |
| 55.0 | 1317.636 | 1316.880 | 1314.192 | 1310.964 | 1306.800 | 1304.448 | 1304.892 | 1304.448 | 1306.836 | 1311.012 |
| 57.5 | 1302.996 | 1301.628 | 1299.000 | 1295.592 | 1291.404 | 1288.008 | 1288.716 | 1288.020 | 1291.440 | 1295.628 |
| 60.0 | 1283.904 | 1284.144 | 1282.884 | 1279.956 | 1275.288 | 1271.196 | 1271.856 | 1271.160 | 1275.324 | 1279.992 |
| 62.5 | 1262.940 | 1264.452 | 1263.768 | 1261.140 | 1257.072 | 1252.152 | 1253.196 | 1252.152 | 1257.108 | 1261.164 |
| 65.0 | 1240.308 | 1241.448 | 1241.964 | 1241.532 | 1238.820 | 1233.072 | 1234.116 | 1233.072 | 1238.844 | 1241.556 |
| 67.5 | 1219.332 | 1219.956 | 1219.500 | 1219.596 | 1218.372 | 1213.080 | 1213.680 | 1213.104 | 1218.396 | 1219.620 |
| 70.0 | 1199.064 | 1198.536 | 1197.180 | 1196.184 | 1196.448 | 1193.256 | 1192.872 | 1193.280 | 1196.460 | 1196.196 |
| 72.5 | 1178.004 | 1178.532 | 1176.372 | 1172.340 | 1170.552 | 1169.364 | 1169.352 | 1169.364 | 1170.564 | 1172.376 |
| 75.0 | 1154.736 | 1156.092 | 1153.680 | 1149.324 | 1145.208 | 1144.368 | 1145.568 | 1144.368 | 1145.220 | 1149.348 |
| 77.5 | 1128.528 | 1129.752 | 1129.272 | 1126.140 | 1119.780 | 1115.508 | 1117.200 | 1115.520 | 1119.792 | 1126.164 |
| 80.0 | 1101.576 | 1103.868 | 1102.860 | 1099.968 | 1095.000 | 1087.488 | 1088.628 | 1087.500 | 1095.012 | 1099.992 |
| 82.5 | 1074.660 | 1077.372 | 1076.148 | 1074.876 | 1069.296 | 1061.556 | 1058.808 | 1061.568 | 1069.308 | 1074.888 |
| 85.0 | 1046.244 | 1048.044 | 1048.020 | 1046.124 | 1040.892 | 1035.852 | 1029.108 | 1035.852 | 1040.904 | 1046.136 |
| 87.5 | 1018.428 | 1019.580 | 1020.012 | 1018.176 | 1014.492 | 1009.020 | 1001.820 | 1009.032 | 1014.492 | 1018.176 |
| 90.0 | 1024.920 | 1026.564 | 1024.296 | 1020.924 | 1015.296 | 1018.416 | 1016.340 | 1018.428 | 1015.332 | 1021.020 |
| 92.5 | 1018.428 | 1019.580 | 1020.012 | 1018.176 | 1014.492 | 1009.020 | 1001.820 | 1009.032 | 1014.492 | 1018.176 |
| 95.0 | 1046.244 | 1048.044 | 1048.020 | 1046.124 | 1040.892 | 1035.852 | 1029.108 | 1035.852 | 1040.904 | 1046.136 |
| 97.5 | 1074.660 | 1077.372 | 1076.148 | 1074.876 | 1069.296 | 1061.556 | 1058.808 | 1061.568 | 1069.308 | 1074.888 |
| 100.0 | 1101.576 | 1103.868 | 1102.860 | 1099.968 | 1095.000 | 1087.488 | 1088.628 | 1087.500 | 1095.012 | 1099.992 |
| 102.5 | 1128.528 | 1129.752 | 1129.272 | 1126.140 | 1119.780 | 1115.508 | 1117.200 | 1115.520 | 1119.792 | 1126.164 |
| 105.0 | 1154.736 | 1156.092 | 1153.680 | 1149.324 | 1145.208 | 1144.368 | 1145.568 | 1144.368 | 1145.220 | 1149.348 |
| 107.5 | 1178.004 | 1178.532 | 1176.372 | 1172.340 | 1170.552 | 1169.364 | 1169.352 | 1169.364 | 1170.564 | 1172.376 |
| 110.0 | 1199.064 | 1198.536 | 1197.180 | 1196.184 | 1196.448 | 1193.256 | 1192.872 | 1193.280 | 1196.460 | 1196.196 |
| 112.5 | 1219.332 | 1219.956 | 1219.500 | 1219.596 | 1218.372 | 1213.080 | 1213.680 | 1213.104 | 1218.396 | 1219.620 |
| 115.0 | 1240.308 | 1241.448 | 1241.964 | 1241.532 | 1238.820 | 1233.072 | 1234.116 | 1233.072 | 1238.844 | 1241.556 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 117.5 | 1262.940 | 1264.452 | 1263.768 | 1261.140 | 1257.072 | 1252.152 | 1253.196 | 1252.152 | 1257.108 | 1261.164 |
| 120.0 | 1283.904 | 1284.144 | 1282.884 | 1279.956 | 1275.288 | 1271.196 | 1271.856 | 1271.160 | 1275.324 | 1279.992 |
| 122.5 | 1302.996 | 1301.628 | 1299.000 | 1295.592 | 1291.404 | 1288.008 | 1288.716 | 1288.020 | 1291.440 | 1295.628 |
| 125.0 | 1317.636 | 1316.880 | 1314.192 | 1310.964 | 1306.800 | 1304.448 | 1304.892 | 1304.448 | 1306.836 | 1311.012 |
| 127.5 | 1331.736 | 1330.128 | 1327.836 | 1324.188 | 1320.228 | 1319.076 | 1319.268 | 1319.076 | 1320.276 | 1324.236 |
| 130.0 | 1345.200 | 1342.920 | 1340.640 | 1337.328 | 1333.224 | 1333.104 | 1332.996 | 1333.104 | 1333.272 | 1337.364 |
| 132.5 | 1355.892 | 1354.380 | 1351.848 | 1349.064 | 1345.224 | 1345.908 | 1345.548 | 1345.920 | 1345.236 | 1349.100 |
| 135.0 | 1366.512 | 1365.336 | 1362.768 | 1360.212 | 1357.224 | 1357.836 | 1357.344 | 1357.836 | 1357.236 | 1360.248 |
| 137.5 | 1375.788 | 1374.084 | 1371.840 | 1369.164 | 1367.376 | 1367.952 | 1367.268 | 1367.976 | 1367.376 | 1369.212 |
| 140.0 | 1384.332 | 1382.472 | 1380.528 | 1377.564 | 1376.952 | 1377.360 | 1376.640 | 1377.372 | 1376.964 | 1377.600 |
| 142.5 | 1390.044 | 1388.736 | 1387.248 | 1384.248 | 1384.968 | 1385.292 | 1384.572 | 1385.304 | 1384.968 | 1384.296 |
| 145.0 | 1395.348 | 1394.352 | 1392.600 | 1390.632 | 1391.688 | 1391.820 | 1391.112 | 1391.832 | 1391.688 | 1390.632 |
| 147.5 | 1398.588 | 1398.120 | 1395.972 | 1395.528 | 1396.596 | 1396.548 | 1395.828 | 1396.560 | 1396.596 | 1395.528 |
| 150.0 | 1401.036 | 1400.256 | 1398.168 | 1399.068 | 1400.232 | 1399.920 | 1399.200 | 1399.932 | 1400.244 | 1399.068 |
| 152.5 | 1401.384 | 1400.052 | 1399.368 | 1400.748 | 1401.828 | 1401.252 | 1401.000 | 1401.252 | 1401.840 | 1400.748 |
| 155.0 | 1399.776 | 1398.504 | 1399.392 | 1400.604 | 1401.432 | 1400.856 | 1400.184 | 1400.868 | 1401.408 | 1400.616 |
| 157.5 | 1396.128 | 1396.272 | 1397.628 | 1398.864 | 1399.356 | 1399.044 | 1398.636 | 1399.056 | 1399.368 | 1398.864 |
| 160.0 | 1391.496 | 1392.948 | 1394.304 | 1395.492 | 1395.588 | 1395.204 | 1394.880 | 1395.216 | 1395.600 | 1395.492 |
| 162.5 | 1386.600 | 1387.908 | 1389.120 | 1389.864 | 1390.080 | 1389.804 | 1389.396 | 1389.816 | 1390.092 | 1389.876 |
| 165.0 | 1381.068 | 1382.316 | 1383.360 | 1383.708 | 1383.576 | 1383.336 | 1383.240 | 1383.348 | 1383.588 | 1383.720 |
| 167.5 | 1373.580 | 1374.720 | 1375.596 | 1375.440 | 1375.272 | 1375.500 | 1375.056 | 1375.080 | 1375.284 | 1375.452 |
| 170.0 | 1363.872 | 1364.520 | 1364.736 | 1364.844 | 1364.844 | 1364.772 | 1364.832 | 1364.772 | 1364.844 | 1364.844 |
| 172.5 | 1352.436 | 1352.148 | 1352.256 | 1352.292 | 1352.268 | 1352.292 | 1352.328 | 1352.292 | 1352.268 | 1352.304 |
| 175.0 | 1340.544 | 1340.700 | 1340.796 | 1341.276 | 1340.928 | 1341.000 | 1341.036 | 1341.000 | 1340.928 | 1340.856 |
| 177.5 | 1329.024 | 1328.676 | 1328.688 | 1328.700 | 1328.712 | 1328.724 | 1328.724 | 1328.724 | 1328.712 | 1328.700 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

Vert. Horizontal Angles
Angles

| | <u>100.0</u> | <u>102.5</u> | <u>105.0</u> | <u>107.5</u> | <u>110.0</u> | <u>112.5</u> | <u>115.0</u> | <u>117.5</u> | <u>120.0</u> | <u>122.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1328.688 | 1328.676 | 1329.120 | 1328.748 | 1328.784 | 1328.808 | 1328.832 | 1328.952 | 1329.576 | 1329.036 |
| 5.0 | 1340.808 | 1340.700 | 1340.544 | 1340.340 | 1340.076 | 1339.764 | 1339.392 | 1338.948 | 1338.252 | 1337.592 |
| 7.5 | 1352.268 | 1352.160 | 1352.448 | 1351.752 | 1351.116 | 1350.420 | 1349.460 | 1348.464 | 1347.420 | 1346.316 |
| 10.0 | 1364.736 | 1364.532 | 1363.884 | 1362.912 | 1361.712 | 1360.428 | 1359.060 | 1357.596 | 1356.060 | 1354.452 |
| 12.5 | 1375.608 | 1374.720 | 1373.580 | 1372.308 | 1370.940 | 1369.476 | 1367.928 | 1366.968 | 1366.416 | 1365.744 |
| 15.0 | 1383.372 | 1382.316 | 1381.068 | 1379.700 | 1378.236 | 1377.384 | 1377.192 | 1376.868 | 1376.172 | 1374.888 |
| 17.5 | 1389.120 | 1387.920 | 1386.600 | 1385.208 | 1385.148 | 1385.304 | 1385.100 | 1384.092 | 1382.832 | 1381.392 |
| 20.0 | 1394.304 | 1392.948 | 1391.496 | 1391.568 | 1391.940 | 1391.544 | 1390.416 | 1389.384 | 1388.100 | 1386.036 |
| 22.5 | 1397.640 | 1396.272 | 1396.164 | 1396.968 | 1396.848 | 1395.984 | 1395.000 | 1393.884 | 1392.288 | 1390.380 |
| 25.0 | 1399.392 | 1398.540 | 1399.824 | 1400.316 | 1399.800 | 1399.152 | 1398.240 | 1396.884 | 1394.652 | 1391.796 |
| 27.5 | 1399.368 | 1400.088 | 1401.420 | 1401.300 | 1400.988 | 1400.724 | 1400.016 | 1397.796 | 1395.204 | 1392.456 |
| 30.0 | 1398.216 | 1400.304 | 1401.072 | 1401.216 | 1401.240 | 1401.180 | 1398.840 | 1396.536 | 1394.076 | 1391.580 |
| 32.5 | 1395.984 | 1398.132 | 1398.636 | 1399.068 | 1399.584 | 1398.432 | 1396.884 | 1394.892 | 1392.588 | 1388.436 |
| 35.0 | 1392.648 | 1394.400 | 1395.396 | 1396.308 | 1395.984 | 1394.592 | 1393.044 | 1390.908 | 1387.584 | 1384.164 |
| 37.5 | 1387.284 | 1388.784 | 1390.092 | 1391.124 | 1390.584 | 1389.936 | 1388.580 | 1385.460 | 1382.076 | 1378.500 |
| 40.0 | 1380.576 | 1382.520 | 1384.380 | 1384.584 | 1384.116 | 1383.180 | 1380.456 | 1378.056 | 1375.548 | 1371.024 |
| 42.5 | 1371.888 | 1374.132 | 1375.824 | 1376.316 | 1376.508 | 1374.624 | 1372.284 | 1369.476 | 1365.348 | 1361.064 |
| 45.0 | 1362.816 | 1365.384 | 1366.548 | 1367.220 | 1366.404 | 1364.652 | 1362.588 | 1359.156 | 1355.160 | 1350.168 |
| 47.5 | 1351.896 | 1354.428 | 1355.928 | 1356.804 | 1355.988 | 1354.956 | 1351.464 | 1347.900 | 1343.436 | 1338.012 |
| 50.0 | 1340.688 | 1342.968 | 1345.200 | 1344.564 | 1343.928 | 1341.720 | 1339.224 | 1335.276 | 1330.368 | 1325.028 |
| 52.5 | 1327.884 | 1330.164 | 1331.772 | 1331.904 | 1330.536 | 1328.316 | 1325.268 | 1321.260 | 1316.388 | 1309.728 |
| 55.0 | 1314.228 | 1316.916 | 1317.684 | 1317.732 | 1315.980 | 1313.448 | 1309.848 | 1305.648 | 1299.744 | 1292.928 |
| 57.5 | 1299.036 | 1301.664 | 1303.032 | 1301.652 | 1299.168 | 1295.784 | 1291.932 | 1286.652 | 1280.496 | 1273.080 |
| 60.0 | 1282.920 | 1284.180 | 1283.928 | 1282.248 | 1278.876 | 1275.276 | 1270.800 | 1265.616 | 1259.016 | 1251.216 |
| 62.5 | 1263.804 | 1264.476 | 1262.976 | 1260.540 | 1257.192 | 1254.504 | 1250.928 | 1244.880 | 1236.960 | 1228.308 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 65.0 | 1241.988 | 1241.472 | 1240.332 | 1238.856 | 1235.964 | 1232.904 | 1229.892 | 1224.048 | 1214.268 | 1204.644 |
| 67.5 | 1219.536 | 1219.980 | 1219.356 | 1217.400 | 1214.412 | 1211.448 | 1207.320 | 1199.820 | 1190.004 | 1179.612 |
| 70.0 | 1197.204 | 1198.572 | 1199.100 | 1197.600 | 1194.204 | 1191.204 | 1185.840 | 1177.584 | 1167.348 | 1155.780 |
| 72.5 | 1176.408 | 1178.568 | 1178.040 | 1177.020 | 1173.012 | 1169.208 | 1165.752 | 1156.536 | 1143.840 | 1130.340 |
| 75.0 | 1153.704 | 1156.116 | 1154.760 | 1151.568 | 1147.512 | 1143.408 | 1138.320 | 1130.172 | 1117.128 | 1103.592 |
| 77.5 | 1129.296 | 1129.776 | 1128.552 | 1125.444 | 1120.104 | 1114.848 | 1107.816 | 1099.368 | 1088.172 | 1074.732 |
| 80.0 | 1102.872 | 1103.880 | 1101.600 | 1098.768 | 1092.720 | 1087.080 | 1079.136 | 1068.840 | 1057.260 | 1043.784 |
| 82.5 | 1076.160 | 1077.384 | 1074.672 | 1070.820 | 1065.468 | 1060.380 | 1053.060 | 1040.316 | 1026.960 | 1012.644 |
| 85.0 | 1048.032 | 1048.056 | 1046.244 | 1041.240 | 1036.188 | 1031.520 | 1025.688 | 1010.748 | 995.928 | 981.240 |
| 87.5 | 1020.012 | 1019.580 | 1018.428 | 1013.100 | 1007.628 | 1003.368 | 998.508 | 982.608 | 966.552 | 951.852 |
| 90.0 | 1024.404 | 1026.672 | 1025.040 | 1024.104 | 1021.596 | 1018.392 | 1012.008 | 1002.924 | 990.972 | 976.632 |
| 92.5 | 1020.012 | 1019.580 | 1018.428 | 1013.100 | 1007.628 | 1003.368 | 998.508 | 982.608 | 966.552 | 951.852 |
| 95.0 | 1048.032 | 1048.056 | 1046.244 | 1041.240 | 1036.188 | 1031.520 | 1025.688 | 1010.748 | 995.928 | 981.240 |
| 97.5 | 1076.160 | 1077.384 | 1074.672 | 1070.820 | 1065.468 | 1060.380 | 1053.060 | 1040.316 | 1026.960 | 1012.644 |
| 100.0 | 1102.872 | 1103.880 | 1101.600 | 1098.768 | 1092.720 | 1087.080 | 1079.136 | 1068.840 | 1057.260 | 1043.784 |
| 102.5 | 1129.296 | 1129.776 | 1128.552 | 1125.444 | 1120.104 | 1114.848 | 1107.816 | 1099.368 | 1088.172 | 1074.732 |
| 105.0 | 1153.704 | 1156.116 | 1154.760 | 1151.568 | 1147.512 | 1143.408 | 1138.320 | 1130.172 | 1117.128 | 1103.592 |
| 107.5 | 1176.408 | 1178.568 | 1178.040 | 1177.020 | 1173.012 | 1169.208 | 1165.752 | 1156.536 | 1143.840 | 1130.340 |
| 110.0 | 1197.204 | 1198.572 | 1199.100 | 1197.600 | 1194.204 | 1191.204 | 1185.840 | 1177.584 | 1167.348 | 1155.780 |
| 112.5 | 1219.536 | 1219.980 | 1219.356 | 1217.400 | 1214.412 | 1211.448 | 1207.320 | 1199.820 | 1190.004 | 1179.612 |
| 115.0 | 1241.988 | 1241.472 | 1240.332 | 1238.856 | 1235.964 | 1232.904 | 1229.892 | 1224.048 | 1214.268 | 1204.644 |
| 117.5 | 1263.804 | 1264.476 | 1262.976 | 1260.540 | 1257.192 | 1254.504 | 1250.928 | 1244.880 | 1236.960 | 1228.308 |
| 120.0 | 1282.920 | 1284.180 | 1283.928 | 1282.248 | 1278.876 | 1275.276 | 1270.800 | 1265.616 | 1259.016 | 1251.216 |
| 122.5 | 1299.036 | 1301.664 | 1303.032 | 1301.652 | 1299.168 | 1295.784 | 1291.932 | 1286.652 | 1280.496 | 1273.080 |
| 125.0 | 1314.228 | 1316.916 | 1317.684 | 1317.732 | 1315.980 | 1313.448 | 1309.848 | 1305.648 | 1299.744 | 1292.928 |
| 127.5 | 1327.884 | 1330.164 | 1331.772 | 1331.904 | 1330.536 | 1328.316 | 1325.268 | 1321.260 | 1316.388 | 1309.728 |
| 130.0 | 1340.688 | 1342.968 | 1345.200 | 1344.564 | 1343.928 | 1341.720 | 1339.224 | 1335.276 | 1330.368 | 1325.028 |
| 132.5 | 1351.896 | 1354.428 | 1355.928 | 1356.804 | 1355.988 | 1354.956 | 1351.464 | 1347.900 | 1343.436 | 1338.012 |
| 135.0 | 1362.816 | 1365.384 | 1366.548 | 1367.220 | 1366.404 | 1364.652 | 1362.588 | 1359.156 | 1355.160 | 1350.168 |
| 137.5 | 1371.888 | 1374.132 | 1375.824 | 1376.316 | 1376.508 | 1374.624 | 1372.284 | 1369.476 | 1365.348 | 1361.064 |
| 140.0 | 1380.576 | 1382.520 | 1384.380 | 1384.584 | 1384.116 | 1383.180 | 1380.456 | 1378.056 | 1375.548 | 1371.024 |
| 142.5 | 1387.284 | 1388.784 | 1390.092 | 1391.124 | 1390.584 | 1389.936 | 1388.580 | 1385.460 | 1382.076 | 1378.500 |
| 145.0 | 1392.648 | 1394.400 | 1395.396 | 1396.308 | 1395.984 | 1394.592 | 1393.044 | 1390.908 | 1387.584 | 1384.164 |
| 147.5 | 1395.984 | 1398.132 | 1398.636 | 1399.068 | 1399.584 | 1398.432 | 1396.884 | 1394.892 | 1392.588 | 1388.436 |
| 150.0 | 1398.216 | 1400.304 | 1401.072 | 1401.216 | 1401.240 | 1401.180 | 1398.840 | 1396.536 | 1394.076 | 1391.580 |
| 152.5 | 1399.368 | 1400.088 | 1401.420 | 1401.300 | 1400.988 | 1400.724 | 1400.016 | 1397.796 | 1395.204 | 1392.456 |
| 155.0 | 1399.392 | 1398.540 | 1399.824 | 1400.316 | 1399.800 | 1399.152 | 1398.240 | 1396.884 | 1394.652 | 1391.796 |
| 157.5 | 1397.640 | 1396.272 | 1396.164 | 1396.968 | 1396.848 | 1395.984 | 1395.000 | 1393.884 | 1392.288 | 1390.380 |
| 160.0 | 1394.304 | 1392.948 | 1391.496 | 1391.568 | 1391.940 | 1391.544 | 1390.416 | 1389.384 | 1388.100 | 1386.036 |
| 162.5 | 1389.120 | 1387.920 | 1386.600 | 1385.208 | 1385.148 | 1385.304 | 1385.100 | 1384.092 | 1382.832 | 1381.392 |
| 165.0 | 1383.372 | 1382.316 | 1381.068 | 1379.700 | 1378.236 | 1377.384 | 1377.192 | 1376.868 | 1376.172 | 1374.888 |
| 167.5 | 1375.608 | 1374.720 | 1373.580 | 1372.308 | 1370.940 | 1369.476 | 1367.928 | 1366.968 | 1366.416 | 1365.744 |
| 170.0 | 1364.736 | 1364.532 | 1363.884 | 1362.912 | 1361.712 | 1360.428 | 1359.060 | 1357.596 | 1356.060 | 1354.452 |
| 172.5 | 1352.268 | 1352.160 | 1352.448 | 1351.752 | 1351.116 | 1350.420 | 1349.460 | 1348.464 | 1347.420 | 1346.316 |
| 175.0 | 1340.808 | 1340.700 | 1340.544 | 1340.340 | 1340.076 | 1339.764 | 1339.392 | 1338.948 | 1338.252 | 1337.592 |
| 177.5 | 1328.688 | 1328.676 | 1329.120 | 1328.748 | 1328.784 | 1328.808 | 1328.832 | 1328.952 | 1329.576 | 1329.036 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>125.0</u> | <u>127.5</u> | <u>130.0</u> | <u>132.5</u> | <u>135.0</u> | <u>137.5</u> | <u>140.0</u> | <u>142.5</u> | <u>145.0</u> | <u>147.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.120 | 1329.204 | 1329.288 | 1329.372 | 1329.456 | 1329.540 | 1329.624 | 1329.708 | 1329.780 | 1329.864 |
| 5.0 | 1336.824 | 1335.876 | 1334.928 | 1333.944 | 1332.924 | 1331.880 | 1330.800 | 1329.684 | 1329.048 | 1327.836 |
| 7.5 | 1345.164 | 1343.964 | 1342.716 | 1341.432 | 1340.112 | 1338.852 | 1337.664 | 1336.500 | 1335.264 | 1333.968 |
| 10.0 | 1353.276 | 1352.376 | 1351.428 | 1350.528 | 1349.496 | 1348.308 | 1346.928 | 1345.296 | 1343.556 | 1341.768 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 12.5 | 1364.964 | 1363.752 | 1361.904 | 1359.888 | 1357.788 | 1355.592 | 1353.312 | 1350.948 | 1348.632 | 1346.472 |
| 15.0 | 1373.604 | 1371.336 | 1369.344 | 1367.112 | 1364.760 | 1362.408 | 1359.804 | 1356.912 | 1353.972 | 1350.648 |
| 17.5 | 1379.568 | 1377.480 | 1375.380 | 1373.352 | 1370.736 | 1367.244 | 1363.692 | 1360.080 | 1356.396 | 1352.376 |
| 20.0 | 1384.284 | 1382.316 | 1379.508 | 1376.568 | 1373.004 | 1369.416 | 1365.780 | 1361.808 | 1357.632 | 1353.384 |
| 22.5 | 1387.416 | 1384.248 | 1380.948 | 1377.564 | 1374.156 | 1370.688 | 1367.040 | 1361.988 | 1357.260 | 1351.548 |
| 25.0 | 1388.820 | 1385.712 | 1382.376 | 1378.716 | 1373.988 | 1369.140 | 1364.220 | 1359.240 | 1354.188 | 1348.416 |
| 27.5 | 1389.360 | 1386.372 | 1381.500 | 1376.844 | 1372.104 | 1366.848 | 1361.316 | 1355.628 | 1349.112 | 1342.536 |
| 30.0 | 1388.052 | 1383.852 | 1379.196 | 1374.276 | 1368.924 | 1362.744 | 1356.168 | 1349.172 | 1341.972 | 1334.784 |
| 32.5 | 1384.272 | 1379.964 | 1375.512 | 1369.908 | 1363.224 | 1356.144 | 1349.028 | 1341.888 | 1334.736 | 1325.916 |
| 35.0 | 1380.396 | 1375.284 | 1369.092 | 1362.672 | 1356.108 | 1349.496 | 1341.276 | 1332.504 | 1323.648 | 1314.768 |
| 37.5 | 1373.508 | 1368.084 | 1362.192 | 1355.700 | 1347.852 | 1339.740 | 1331.280 | 1322.676 | 1312.836 | 1302.840 |
| 40.0 | 1365.780 | 1359.900 | 1353.276 | 1346.052 | 1338.132 | 1329.564 | 1320.360 | 1310.496 | 1299.972 | 1288.632 |
| 42.5 | 1356.084 | 1349.772 | 1343.268 | 1335.288 | 1326.840 | 1317.168 | 1307.064 | 1296.432 | 1285.632 | 1273.044 |
| 45.0 | 1344.156 | 1337.904 | 1330.812 | 1322.160 | 1313.136 | 1303.344 | 1292.220 | 1280.436 | 1268.412 | 1255.728 |
| 47.5 | 1332.036 | 1325.076 | 1316.508 | 1307.616 | 1297.620 | 1286.880 | 1275.888 | 1263.276 | 1250.556 | 1237.284 |
| 50.0 | 1318.092 | 1310.076 | 1301.160 | 1291.164 | 1281.024 | 1269.132 | 1257.348 | 1245.396 | 1231.608 | 1217.304 |
| 52.5 | 1302.540 | 1293.840 | 1284.180 | 1273.740 | 1262.460 | 1250.568 | 1238.016 | 1224.756 | 1210.884 | 1196.484 |
| 55.0 | 1284.780 | 1275.792 | 1265.940 | 1255.092 | 1243.404 | 1230.912 | 1217.076 | 1203.084 | 1188.792 | 1173.312 |
| 57.5 | 1264.788 | 1256.004 | 1245.936 | 1234.656 | 1222.404 | 1209.192 | 1195.104 | 1180.332 | 1164.720 | 1148.868 |
| 60.0 | 1242.600 | 1233.360 | 1222.968 | 1211.688 | 1199.952 | 1185.660 | 1170.972 | 1155.540 | 1139.196 | 1122.456 |
| 62.5 | 1218.720 | 1209.372 | 1198.488 | 1187.172 | 1174.260 | 1160.460 | 1145.400 | 1128.804 | 1111.860 | 1094.772 |
| 65.0 | 1194.516 | 1184.148 | 1173.396 | 1161.276 | 1147.848 | 1133.712 | 1118.376 | 1101.192 | 1083.864 | 1065.888 |
| 67.5 | 1169.628 | 1158.576 | 1147.068 | 1134.180 | 1119.972 | 1105.932 | 1089.984 | 1072.188 | 1054.464 | 1035.936 |
| 70.0 | 1144.020 | 1132.404 | 1120.044 | 1106.292 | 1091.712 | 1078.044 | 1061.472 | 1042.584 | 1024.488 | 1007.100 |
| 72.5 | 1117.404 | 1104.696 | 1091.160 | 1076.496 | 1061.940 | 1047.168 | 1030.176 | 1012.044 | 994.236 | 977.508 |
| 75.0 | 1089.324 | 1076.172 | 1061.784 | 1046.616 | 1031.112 | 1015.020 | 998.280 | 980.508 | 962.952 | 947.016 |
| 77.5 | 1060.200 | 1046.700 | 1031.988 | 1016.412 | 1000.560 | 983.748 | 966.600 | 948.672 | 930.912 | 915.204 |
| 80.0 | 1029.384 | 1014.552 | 999.588 | 984.456 | 968.880 | 950.988 | 933.276 | 914.772 | 896.952 | 880.020 |
| 82.5 | 998.052 | 982.416 | 967.128 | 951.192 | 935.688 | 916.764 | 898.248 | 880.536 | 862.788 | 845.232 |
| 85.0 | 966.672 | 950.952 | 935.328 | 920.460 | 905.412 | 885.732 | 865.992 | 847.368 | 829.644 | 810.612 |
| 87.5 | 937.260 | 921.696 | 906.648 | 891.672 | 877.476 | 856.740 | 836.520 | 817.500 | 798.804 | 780.324 |
| 90.0 | 962.316 | 948.228 | 933.900 | 918.000 | 901.296 | 882.816 | 863.520 | 843.396 | 823.032 | 803.448 |
| 92.5 | 937.260 | 921.696 | 906.660 | 891.672 | 877.476 | 856.740 | 836.520 | 817.500 | 798.804 | 780.324 |
| 95.0 | 966.672 | 950.952 | 935.328 | 920.460 | 905.412 | 885.732 | 865.992 | 847.368 | 829.644 | 810.612 |
| 97.5 | 998.052 | 982.416 | 967.128 | 951.192 | 935.688 | 916.764 | 898.248 | 880.536 | 862.788 | 845.232 |
| 100.0 | 1029.384 | 1014.552 | 999.588 | 984.456 | 968.880 | 950.988 | 933.276 | 914.772 | 896.952 | 880.020 |
| 102.5 | 1060.200 | 1046.700 | 1031.988 | 1016.412 | 1000.560 | 983.748 | 966.600 | 948.672 | 930.912 | 915.204 |
| 105.0 | 1089.324 | 1076.172 | 1061.784 | 1046.616 | 1031.112 | 1015.020 | 998.280 | 980.508 | 962.952 | 947.016 |
| 107.5 | 1117.404 | 1104.696 | 1091.160 | 1076.496 | 1061.940 | 1047.168 | 1030.176 | 1012.044 | 994.236 | 977.508 |
| 110.0 | 1144.020 | 1132.404 | 1120.044 | 1106.292 | 1091.712 | 1078.044 | 1061.472 | 1042.584 | 1024.488 | 1007.100 |
| 112.5 | 1169.628 | 1158.576 | 1147.068 | 1134.180 | 1119.972 | 1105.932 | 1089.984 | 1072.188 | 1054.464 | 1035.936 |
| 115.0 | 1194.516 | 1184.148 | 1173.396 | 1161.276 | 1147.848 | 1133.712 | 1118.376 | 1101.192 | 1083.864 | 1065.888 |
| 117.5 | 1218.720 | 1209.372 | 1198.488 | 1187.172 | 1174.260 | 1160.460 | 1145.400 | 1128.804 | 1111.860 | 1094.772 |
| 120.0 | 1242.600 | 1233.360 | 1222.968 | 1211.688 | 1199.952 | 1185.660 | 1170.972 | 1155.540 | 1139.196 | 1122.456 |
| 122.5 | 1264.788 | 1256.004 | 1245.936 | 1234.656 | 1222.404 | 1209.192 | 1195.104 | 1180.332 | 1164.720 | 1148.868 |
| 125.0 | 1284.780 | 1275.792 | 1265.940 | 1255.092 | 1243.404 | 1230.912 | 1217.076 | 1203.084 | 1188.792 | 1173.312 |
| 127.5 | 1302.540 | 1293.840 | 1284.180 | 1273.740 | 1262.460 | 1250.568 | 1238.016 | 1224.756 | 1210.884 | 1196.484 |
| 130.0 | 1318.092 | 1310.076 | 1301.160 | 1291.164 | 1281.024 | 1269.132 | 1257.348 | 1245.396 | 1231.608 | 1217.304 |
| 132.5 | 1332.036 | 1325.076 | 1316.508 | 1307.616 | 1297.620 | 1286.880 | 1275.888 | 1263.276 | 1250.556 | 1237.284 |
| 135.0 | 1344.156 | 1337.904 | 1330.812 | 1322.160 | 1313.136 | 1303.344 | 1292.220 | 1280.436 | 1268.412 | 1255.728 |
| 137.5 | 1356.084 | 1349.772 | 1343.268 | 1335.288 | 1326.840 | 1317.168 | 1307.064 | 1296.432 | 1285.632 | 1273.056 |
| 140.0 | 1365.780 | 1359.900 | 1353.276 | 1346.052 | 1338.132 | 1329.564 | 1320.360 | 1310.496 | 1299.972 | 1288.632 |
| 142.5 | 1373.508 | 1368.084 | 1362.192 | 1355.700 | 1347.852 | 1339.740 | 1331.280 | 1322.676 | 1312.836 | 1302.840 |
| 145.0 | 1380.396 | 1375.284 | 1369.092 | 1362.672 | 1356.108 | 1349.496 | 1341.276 | 1332.504 | 1323.648 | 1314.768 |
| 147.5 | 1384.272 | 1379.964 | 1375.512 | 1369.908 | 1363.224 | 1356.144 | 1349.028 | 1341.888 | 1334.736 | 1325.916 |
| 150.0 | 1388.052 | 1383.852 | 1379.196 | 1374.276 | 1368.924 | 1362.744 | 1356.168 | 1349.172 | 1341.972 | 1334.784 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 152.5 | 1389.360 | 1386.372 | 1381.500 | 1376.844 | 1372.104 | 1366.848 | 1361.316 | 1355.628 | 1349.112 | 1342.536 |
| 155.0 | 1388.820 | 1385.712 | 1382.376 | 1378.716 | 1373.988 | 1369.140 | 1364.220 | 1359.228 | 1354.188 | 1348.416 |
| 157.5 | 1387.416 | 1384.248 | 1380.948 | 1377.564 | 1374.156 | 1370.688 | 1367.040 | 1361.988 | 1357.260 | 1351.548 |
| 160.0 | 1384.284 | 1382.316 | 1379.508 | 1376.568 | 1373.004 | 1369.416 | 1365.780 | 1361.808 | 1357.632 | 1353.384 |
| 162.5 | 1379.568 | 1377.480 | 1375.380 | 1373.352 | 1370.736 | 1367.244 | 1363.692 | 1360.080 | 1356.396 | 1352.376 |
| 165.0 | 1373.604 | 1371.336 | 1369.344 | 1367.112 | 1364.760 | 1362.408 | 1359.804 | 1356.912 | 1353.972 | 1350.648 |
| 167.5 | 1364.964 | 1363.752 | 1361.904 | 1359.888 | 1357.788 | 1355.592 | 1353.312 | 1350.948 | 1348.632 | 1346.472 |
| 170.0 | 1353.276 | 1352.376 | 1351.428 | 1350.528 | 1349.496 | 1348.308 | 1346.928 | 1345.296 | 1343.556 | 1341.768 |
| 172.5 | 1345.164 | 1343.964 | 1342.716 | 1341.432 | 1340.112 | 1338.852 | 1337.664 | 1336.500 | 1335.264 | 1333.968 |
| 175.0 | 1336.824 | 1335.876 | 1334.928 | 1333.944 | 1332.924 | 1331.880 | 1330.800 | 1329.684 | 1329.048 | 1327.836 |
| 177.5 | 1329.120 | 1329.204 | 1329.288 | 1329.372 | 1329.456 | 1329.540 | 1329.624 | 1329.708 | 1329.780 | 1329.864 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>150.0</u> | <u>152.5</u> | <u>155.0</u> | <u>157.5</u> | <u>160.0</u> | <u>162.5</u> | <u>165.0</u> | <u>167.5</u> | <u>170.0</u> | <u>172.5</u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.936 | 1330.008 | 1330.104 | 1330.128 | 1330.116 | 1330.152 | 1330.188 | 1330.236 | 1330.272 | 1330.320 |
| 5.0 | 1327.560 | 1327.644 | 1327.176 | 1327.176 | 1327.176 | 1327.188 | 1327.224 | 1327.260 | 1327.296 | 1327.356 |
| 7.5 | 1332.612 | 1331.184 | 1329.720 | 1328.184 | 1327.596 | 1327.644 | 1327.740 | 1328.052 | 1328.112 | 1328.280 |
| 10.0 | 1339.980 | 1337.748 | 1335.480 | 1333.176 | 1330.824 | 1328.436 | 1326.888 | 1326.924 | 1326.684 | 1326.828 |
| 12.5 | 1343.940 | 1341.552 | 1339.116 | 1336.500 | 1333.548 | 1330.536 | 1327.500 | 1324.596 | 1324.716 | 1324.560 |
| 15.0 | 1347.168 | 1343.700 | 1340.352 | 1336.980 | 1333.596 | 1329.888 | 1325.964 | 1322.052 | 1318.704 | 1318.680 |
| 17.5 | 1348.116 | 1343.796 | 1339.656 | 1335.720 | 1331.772 | 1327.812 | 1323.576 | 1319.016 | 1314.456 | 1312.224 |
| 20.0 | 1349.088 | 1343.856 | 1338.336 | 1333.116 | 1327.848 | 1322.892 | 1317.972 | 1312.728 | 1307.244 | 1302.120 |
| 22.5 | 1346.004 | 1340.436 | 1334.868 | 1328.412 | 1322.148 | 1316.340 | 1310.676 | 1305.084 | 1298.928 | 1292.748 |
| 25.0 | 1342.368 | 1336.116 | 1329.084 | 1322.172 | 1314.696 | 1307.568 | 1300.728 | 1294.188 | 1287.516 | 1280.460 |
| 27.5 | 1335.732 | 1328.724 | 1320.900 | 1313.100 | 1305.540 | 1297.212 | 1289.400 | 1282.080 | 1274.904 | 1267.308 |
| 30.0 | 1327.596 | 1320.204 | 1311.732 | 1302.792 | 1293.852 | 1284.936 | 1275.528 | 1267.188 | 1259.088 | 1250.760 |
| 32.5 | 1317.180 | 1308.480 | 1300.020 | 1290.216 | 1280.472 | 1270.824 | 1260.900 | 1251.324 | 1242.684 | 1233.528 |
| 35.0 | 1305.684 | 1296.300 | 1286.736 | 1276.872 | 1265.712 | 1254.624 | 1243.716 | 1232.904 | 1222.896 | 1213.380 |
| 37.5 | 1292.460 | 1281.960 | 1271.028 | 1260.216 | 1249.176 | 1237.116 | 1225.344 | 1213.812 | 1202.724 | 1192.284 |
| 40.0 | 1277.112 | 1266.000 | 1254.744 | 1242.936 | 1231.032 | 1218.204 | 1205.088 | 1192.308 | 1180.248 | 1168.980 |
| 42.5 | 1260.708 | 1248.192 | 1235.916 | 1223.520 | 1210.680 | 1197.576 | 1183.860 | 1170.168 | 1157.256 | 1145.244 |
| 45.0 | 1242.492 | 1229.292 | 1215.972 | 1203.036 | 1189.572 | 1176.108 | 1161.372 | 1146.528 | 1132.692 | 1119.624 |
| 47.5 | 1223.436 | 1209.300 | 1195.260 | 1181.172 | 1166.856 | 1152.084 | 1137.012 | 1121.616 | 1106.760 | 1092.984 |
| 50.0 | 1202.952 | 1188.168 | 1172.604 | 1157.724 | 1142.580 | 1127.496 | 1111.584 | 1095.468 | 1079.352 | 1064.832 |
| 52.5 | 1180.836 | 1165.032 | 1149.000 | 1133.160 | 1117.584 | 1101.804 | 1085.028 | 1068.240 | 1051.332 | 1036.140 |
| 55.0 | 1157.616 | 1141.308 | 1124.652 | 1107.684 | 1091.496 | 1074.720 | 1057.896 | 1040.568 | 1022.868 | 1006.596 |
| 57.5 | 1132.416 | 1115.640 | 1098.048 | 1080.900 | 1064.136 | 1046.988 | 1029.096 | 1011.312 | 993.060 | 976.080 |
| 60.0 | 1105.512 | 1087.752 | 1069.692 | 1051.632 | 1034.220 | 1016.568 | 999.168 | 981.312 | 962.676 | 944.748 |
| 62.5 | 1077.552 | 1059.648 | 1041.528 | 1021.512 | 1002.744 | 984.912 | 966.600 | 948.312 | 930.036 | 912.000 |
| 65.0 | 1048.248 | 1031.244 | 1010.844 | 990.516 | 971.076 | 952.080 | 932.784 | 914.064 | 895.668 | 878.820 |
| 67.5 | 1017.720 | 999.564 | 980.088 | 959.928 | 939.480 | 920.184 | 900.660 | 881.388 | 861.540 | 844.368 |
| 70.0 | 989.292 | 970.620 | 951.144 | 930.252 | 909.540 | 889.668 | 869.064 | 848.688 | 828.456 | 810.024 |
| 72.5 | 960.120 | 942.276 | 921.816 | 899.868 | 878.424 | 858.444 | 837.360 | 817.296 | 795.852 | 775.560 |
| 75.0 | 929.868 | 910.644 | 888.672 | 867.300 | 845.292 | 825.084 | 804.468 | 784.452 | 762.468 | 742.200 |
| 77.5 | 897.696 | 876.336 | 854.220 | 833.568 | 811.512 | 791.652 | 770.544 | 750.240 | 729.192 | 708.828 |
| 80.0 | 862.356 | 841.596 | 820.584 | 799.476 | 777.744 | 757.896 | 736.524 | 716.436 | 694.752 | 674.340 |
| 82.5 | 827.436 | 808.200 | 789.084 | 767.148 | 744.840 | 724.656 | 703.908 | 683.820 | 662.040 | 642.348 |
| 85.0 | 792.804 | 774.372 | 756.336 | 733.896 | 711.192 | 690.816 | 670.560 | 649.992 | 628.656 | 608.376 |
| 87.5 | 761.976 | 744.408 | 726.876 | 703.812 | 681.000 | 660.624 | 640.416 | 619.236 | 597.672 | 578.052 |
| 90.0 | 784.572 | 765.816 | 741.672 | 717.336 | 693.336 | 670.008 | 647.244 | 624.396 | 602.196 | 578.688 |
| 92.5 | 761.976 | 744.408 | 726.876 | 703.812 | 681.000 | 660.624 | 640.416 | 619.236 | 597.672 | 578.052 |
| 95.0 | 792.804 | 774.372 | 756.336 | 733.896 | 711.192 | 690.816 | 670.560 | 649.992 | 628.656 | 608.376 |
| 97.5 | 827.436 | 808.200 | 789.084 | 767.148 | 744.840 | 724.656 | 703.908 | 683.820 | 662.040 | 642.348 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 100.0 | 862.356 | 841.596 | 820.584 | 799.476 | 777.744 | 757.896 | 736.524 | 716.436 | 694.752 | 674.340 |
| 102.5 | 897.696 | 876.336 | 854.220 | 833.568 | 811.512 | 791.652 | 770.544 | 750.240 | 729.192 | 708.828 |
| 105.0 | 929.868 | 910.644 | 888.672 | 867.300 | 845.292 | 825.084 | 804.468 | 784.452 | 762.468 | 742.200 |
| 107.5 | 960.120 | 942.276 | 921.816 | 899.868 | 878.424 | 858.444 | 837.360 | 817.296 | 795.852 | 775.560 |
| 110.0 | 989.292 | 970.620 | 951.144 | 930.252 | 909.540 | 889.668 | 869.064 | 848.688 | 828.456 | 810.024 |
| 112.5 | 1017.720 | 999.564 | 980.088 | 959.928 | 939.480 | 920.184 | 900.660 | 881.388 | 861.540 | 844.368 |
| 115.0 | 1048.248 | 1031.244 | 1010.844 | 990.516 | 971.076 | 952.080 | 932.784 | 914.064 | 895.668 | 878.820 |
| 117.5 | 1077.552 | 1059.648 | 1041.528 | 1021.512 | 1002.744 | 984.912 | 966.600 | 948.312 | 930.036 | 912.000 |
| 120.0 | 1105.512 | 1087.752 | 1069.692 | 1051.632 | 1034.220 | 1016.568 | 999.168 | 981.312 | 962.676 | 944.748 |
| 122.5 | 1132.416 | 1115.640 | 1098.048 | 1080.900 | 1064.136 | 1046.988 | 1029.096 | 1011.312 | 993.060 | 976.080 |
| 125.0 | 1157.616 | 1141.308 | 1124.652 | 1107.684 | 1091.496 | 1074.720 | 1057.896 | 1040.580 | 1022.868 | 1006.596 |
| 127.5 | 1180.836 | 1165.032 | 1149.000 | 1133.160 | 1117.584 | 1101.804 | 1085.028 | 1068.240 | 1051.332 | 1036.140 |
| 130.0 | 1202.952 | 1188.168 | 1172.604 | 1157.724 | 1142.580 | 1127.496 | 1111.584 | 1095.468 | 1079.352 | 1064.832 |
| 132.5 | 1223.436 | 1209.300 | 1195.260 | 1181.172 | 1166.856 | 1152.084 | 1137.012 | 1121.616 | 1106.760 | 1092.984 |
| 135.0 | 1242.492 | 1229.292 | 1215.972 | 1203.036 | 1189.572 | 1176.108 | 1161.372 | 1146.528 | 1132.692 | 1119.624 |
| 137.5 | 1260.708 | 1248.192 | 1235.916 | 1223.520 | 1210.680 | 1197.576 | 1183.860 | 1170.168 | 1157.256 | 1145.244 |
| 140.0 | 1277.112 | 1266.000 | 1254.744 | 1242.936 | 1231.032 | 1218.204 | 1205.088 | 1192.308 | 1180.248 | 1168.980 |
| 142.5 | 1292.460 | 1281.960 | 1271.028 | 1260.216 | 1249.176 | 1237.116 | 1225.344 | 1213.812 | 1202.724 | 1192.284 |
| 145.0 | 1305.684 | 1296.300 | 1286.736 | 1276.872 | 1265.712 | 1254.624 | 1243.716 | 1232.904 | 1222.896 | 1213.380 |
| 147.5 | 1317.180 | 1308.480 | 1300.020 | 1290.216 | 1280.472 | 1270.824 | 1260.900 | 1251.324 | 1242.684 | 1233.528 |
| 150.0 | 1327.596 | 1320.204 | 1311.732 | 1302.792 | 1293.852 | 1284.936 | 1275.528 | 1267.188 | 1259.088 | 1250.760 |
| 152.5 | 1335.732 | 1328.724 | 1320.900 | 1313.100 | 1305.540 | 1297.212 | 1289.400 | 1282.080 | 1274.904 | 1267.308 |
| 155.0 | 1342.368 | 1336.104 | 1329.084 | 1322.172 | 1314.696 | 1307.568 | 1300.728 | 1294.188 | 1287.516 | 1280.460 |
| 157.5 | 1346.004 | 1340.436 | 1334.868 | 1328.412 | 1322.148 | 1316.340 | 1310.676 | 1305.084 | 1298.928 | 1292.748 |
| 160.0 | 1349.088 | 1343.856 | 1338.336 | 1333.116 | 1327.848 | 1322.892 | 1317.972 | 1312.728 | 1307.244 | 1302.120 |
| 162.5 | 1348.116 | 1343.796 | 1339.656 | 1335.720 | 1331.772 | 1327.812 | 1323.576 | 1319.016 | 1314.456 | 1312.224 |
| 165.0 | 1347.168 | 1343.700 | 1340.352 | 1336.980 | 1333.596 | 1329.888 | 1325.964 | 1322.052 | 1318.704 | 1318.680 |
| 167.5 | 1343.940 | 1341.552 | 1339.116 | 1336.500 | 1333.536 | 1330.536 | 1327.500 | 1324.596 | 1324.716 | 1324.560 |
| 170.0 | 1339.980 | 1337.748 | 1335.480 | 1333.176 | 1330.824 | 1328.436 | 1326.888 | 1326.924 | 1326.684 | 1326.828 |
| 172.5 | 1332.612 | 1331.184 | 1329.720 | 1328.184 | 1327.596 | 1327.644 | 1327.740 | 1328.052 | 1328.112 | 1328.280 |
| 175.0 | 1327.560 | 1327.644 | 1327.176 | 1327.176 | 1327.176 | 1327.188 | 1327.224 | 1327.260 | 1327.296 | 1327.356 |
| 177.5 | 1329.936 | 1330.008 | 1330.104 | 1330.128 | 1330.116 | 1330.152 | 1330.188 | 1330.236 | 1330.272 | 1330.320 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>175.0</u> | <u>177.5</u> | <u>180.0</u> | <u>182.5</u> | <u>185.0</u> | <u>187.5</u> | <u>190.0</u> | <u>192.5</u> | <u>195.0</u> | <u>197.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1330.368 | 1330.404 | 1330.464 | 1330.416 | 1330.368 | 1330.320 | 1330.284 | 1330.236 | 1330.200 | 1330.152 |
| 5.0 | 1327.428 | 1327.500 | 1327.596 | 1327.512 | 1327.428 | 1327.368 | 1327.308 | 1327.260 | 1327.224 | 1327.200 |
| 7.5 | 1328.448 | 1328.592 | 1328.736 | 1328.604 | 1328.448 | 1328.292 | 1328.124 | 1328.052 | 1327.740 | 1327.680 |
| 10.0 | 1326.972 | 1327.140 | 1327.308 | 1327.140 | 1326.984 | 1326.828 | 1326.696 | 1326.972 | 1326.888 | 1328.388 |
| 12.5 | 1324.884 | 1324.812 | 1325.016 | 1324.812 | 1324.884 | 1324.572 | 1324.764 | 1324.584 | 1327.452 | 1330.488 |
| 15.0 | 1318.620 | 1318.800 | 1319.040 | 1318.812 | 1318.620 | 1318.692 | 1318.692 | 1321.992 | 1325.916 | 1329.828 |
| 17.5 | 1312.236 | 1312.464 | 1312.776 | 1312.476 | 1312.248 | 1312.260 | 1314.408 | 1318.956 | 1323.528 | 1327.764 |
| 20.0 | 1301.976 | 1302.156 | 1302.456 | 1302.168 | 1301.976 | 1302.108 | 1307.196 | 1312.668 | 1317.924 | 1322.844 |
| 22.5 | 1290.744 | 1291.092 | 1291.464 | 1291.092 | 1290.744 | 1292.700 | 1298.868 | 1305.036 | 1310.640 | 1316.292 |
| 25.0 | 1276.140 | 1276.260 | 1276.572 | 1276.272 | 1276.140 | 1280.412 | 1287.468 | 1294.140 | 1300.680 | 1307.568 |
| 27.5 | 1260.480 | 1260.552 | 1260.864 | 1260.552 | 1260.480 | 1267.260 | 1274.856 | 1282.032 | 1289.352 | 1297.152 |
| 30.0 | 1242.696 | 1241.916 | 1242.228 | 1241.916 | 1242.624 | 1250.712 | 1259.040 | 1267.140 | 1275.468 | 1284.876 |
| 32.5 | 1224.516 | 1222.224 | 1222.512 | 1222.224 | 1224.504 | 1233.468 | 1242.648 | 1251.276 | 1260.840 | 1270.776 |
| 35.0 | 1203.264 | 1199.844 | 1200.132 | 1199.844 | 1203.216 | 1213.332 | 1222.848 | 1232.856 | 1243.656 | 1254.564 |
| 37.5 | 1181.532 | 1176.516 | 1176.816 | 1176.516 | 1181.484 | 1192.236 | 1202.676 | 1213.800 | 1225.296 | 1237.056 |
| 40.0 | 1157.652 | 1151.064 | 1151.400 | 1151.064 | 1157.604 | 1168.932 | 1180.200 | 1192.260 | 1205.028 | 1218.144 |
| 42.5 | 1133.172 | 1124.940 | 1125.264 | 1124.940 | 1133.124 | 1145.196 | 1157.208 | 1170.108 | 1183.800 | 1197.516 |
| 45.0 | 1107.048 | 1097.184 | 1097.532 | 1097.184 | 1107.000 | 1119.576 | 1132.644 | 1146.480 | 1161.324 | 1176.060 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 47.5 | 1079.640 | 1068.336 | 1068.936 | 1068.336 | 1079.592 | 1092.936 | 1106.712 | 1121.568 | 1136.964 | 1152.072 |
| 50.0 | 1050.672 | 1038.564 | 1038.168 | 1038.528 | 1050.636 | 1064.784 | 1079.316 | 1095.420 | 1111.536 | 1127.448 |
| 52.5 | 1021.308 | 1008.564 | 1007.136 | 1008.528 | 1021.272 | 1036.092 | 1051.296 | 1068.192 | 1084.980 | 1101.768 |
| 55.0 | 990.900 | 977.604 | 975.192 | 977.580 | 990.852 | 1006.560 | 1022.856 | 1040.520 | 1057.860 | 1074.672 |
| 57.5 | 959.724 | 945.876 | 942.492 | 945.840 | 959.688 | 976.044 | 993.024 | 1011.276 | 1029.048 | 1046.952 |
| 60.0 | 927.684 | 913.200 | 908.736 | 913.164 | 927.648 | 944.712 | 962.628 | 981.276 | 999.132 | 1016.532 |
| 62.5 | 894.396 | 879.504 | 873.900 | 879.480 | 894.360 | 911.964 | 930.024 | 948.276 | 966.564 | 984.864 |
| 65.0 | 860.748 | 845.424 | 838.620 | 845.400 | 860.724 | 878.784 | 895.632 | 914.040 | 932.784 | 952.032 |
| 67.5 | 827.124 | 811.836 | 804.012 | 811.824 | 827.100 | 844.344 | 861.516 | 881.364 | 900.624 | 920.148 |
| 70.0 | 792.924 | 778.164 | 769.248 | 778.140 | 792.900 | 810.000 | 828.432 | 848.652 | 869.028 | 889.644 |
| 72.5 | 757.092 | 743.316 | 733.776 | 743.304 | 757.068 | 775.548 | 795.828 | 817.260 | 837.336 | 858.420 |
| 75.0 | 721.896 | 707.772 | 698.076 | 707.760 | 721.872 | 742.188 | 762.444 | 784.428 | 804.468 | 825.060 |
| 77.5 | 687.240 | 671.136 | 661.392 | 671.124 | 687.228 | 708.804 | 729.168 | 750.228 | 770.520 | 791.640 |
| 80.0 | 653.580 | 635.568 | 625.080 | 635.556 | 653.568 | 674.328 | 694.740 | 716.424 | 736.512 | 757.872 |
| 82.5 | 620.592 | 602.400 | 589.272 | 602.388 | 620.592 | 642.336 | 662.028 | 683.808 | 703.896 | 724.644 |
| 85.0 | 586.740 | 569.796 | 554.136 | 569.796 | 586.728 | 608.364 | 628.644 | 649.980 | 670.560 | 690.804 |
| 87.5 | 557.640 | 540.276 | 523.104 | 540.276 | 557.628 | 578.052 | 597.672 | 619.236 | 640.416 | 660.624 |
| 90.0 | 556.884 | 535.656 | 536.748 | 535.632 | 556.788 | 578.592 | 602.100 | 624.300 | 647.136 | 669.900 |
| 92.5 | 557.640 | 540.276 | 523.104 | 540.276 | 557.628 | 578.052 | 597.672 | 619.236 | 640.416 | 660.624 |
| 95.0 | 586.740 | 569.796 | 554.136 | 569.796 | 586.728 | 608.364 | 628.644 | 649.980 | 670.560 | 690.804 |
| 97.5 | 620.592 | 602.400 | 589.272 | 602.388 | 620.592 | 642.336 | 662.028 | 683.808 | 703.896 | 724.644 |
| 100.0 | 653.580 | 635.568 | 625.080 | 635.556 | 653.568 | 674.328 | 694.740 | 716.424 | 736.512 | 757.872 |
| 102.5 | 687.240 | 671.136 | 661.392 | 671.124 | 687.228 | 708.804 | 729.168 | 750.228 | 770.520 | 791.640 |
| 105.0 | 721.896 | 707.772 | 698.076 | 707.760 | 721.872 | 742.188 | 762.444 | 784.428 | 804.468 | 825.060 |
| 107.5 | 757.092 | 743.316 | 733.776 | 743.304 | 757.068 | 775.548 | 795.828 | 817.260 | 837.336 | 858.420 |
| 110.0 | 792.924 | 778.164 | 769.248 | 778.140 | 792.900 | 810.000 | 828.432 | 848.652 | 869.028 | 889.644 |
| 112.5 | 827.124 | 811.836 | 804.012 | 811.824 | 827.100 | 844.344 | 861.516 | 881.364 | 900.624 | 920.148 |
| 115.0 | 860.748 | 845.424 | 838.620 | 845.400 | 860.724 | 878.784 | 895.632 | 914.040 | 932.784 | 952.032 |
| 117.5 | 894.396 | 879.504 | 873.900 | 879.480 | 894.360 | 911.964 | 930.024 | 948.276 | 966.564 | 984.864 |
| 120.0 | 927.684 | 913.200 | 908.736 | 913.164 | 927.648 | 944.712 | 962.628 | 981.276 | 999.132 | 1016.532 |
| 122.5 | 959.724 | 945.876 | 942.492 | 945.840 | 959.688 | 976.044 | 993.024 | 1011.276 | 1029.048 | 1046.952 |
| 125.0 | 990.900 | 977.604 | 975.192 | 977.580 | 990.852 | 1006.560 | 1022.856 | 1040.520 | 1057.860 | 1074.672 |
| 127.5 | 1021.308 | 1008.564 | 1007.136 | 1008.528 | 1021.272 | 1036.092 | 1051.296 | 1068.192 | 1084.980 | 1101.768 |
| 130.0 | 1050.672 | 1038.564 | 1038.168 | 1038.528 | 1050.636 | 1064.784 | 1079.316 | 1095.420 | 1111.536 | 1127.448 |
| 132.5 | 1079.640 | 1068.336 | 1068.936 | 1068.336 | 1079.592 | 1092.936 | 1106.712 | 1121.568 | 1136.964 | 1152.072 |
| 135.0 | 1107.048 | 1097.184 | 1097.532 | 1097.184 | 1107.000 | 1119.576 | 1132.644 | 1146.480 | 1161.324 | 1176.060 |
| 137.5 | 1133.172 | 1124.940 | 1125.264 | 1124.940 | 1133.124 | 1145.196 | 1157.208 | 1170.108 | 1183.800 | 1197.516 |
| 140.0 | 1157.652 | 1151.064 | 1151.400 | 1151.064 | 1157.604 | 1168.932 | 1180.200 | 1192.260 | 1205.028 | 1218.144 |
| 142.5 | 1181.532 | 1176.516 | 1176.816 | 1176.516 | 1181.484 | 1192.236 | 1202.676 | 1213.800 | 1225.296 | 1237.056 |
| 145.0 | 1203.264 | 1199.844 | 1200.132 | 1199.844 | 1203.216 | 1213.332 | 1222.848 | 1232.856 | 1243.656 | 1254.564 |
| 147.5 | 1224.516 | 1222.224 | 1222.512 | 1222.224 | 1224.504 | 1233.468 | 1242.648 | 1251.276 | 1260.840 | 1270.776 |
| 150.0 | 1242.696 | 1241.916 | 1242.228 | 1241.916 | 1242.624 | 1250.712 | 1259.040 | 1267.140 | 1275.468 | 1284.876 |
| 152.5 | 1260.480 | 1260.552 | 1260.864 | 1260.552 | 1260.480 | 1267.260 | 1274.856 | 1282.032 | 1289.352 | 1297.152 |
| 155.0 | 1276.140 | 1276.260 | 1276.572 | 1276.272 | 1276.140 | 1280.412 | 1287.468 | 1294.140 | 1300.680 | 1307.568 |
| 157.5 | 1290.744 | 1291.092 | 1291.464 | 1291.092 | 1290.744 | 1292.700 | 1298.868 | 1305.036 | 1310.640 | 1316.292 |
| 160.0 | 1301.976 | 1302.156 | 1302.456 | 1302.168 | 1301.976 | 1302.108 | 1307.196 | 1312.668 | 1317.924 | 1322.844 |
| 162.5 | 1312.236 | 1312.464 | 1312.776 | 1312.476 | 1312.248 | 1312.260 | 1314.408 | 1318.956 | 1323.528 | 1327.764 |
| 165.0 | 1318.620 | 1318.800 | 1319.040 | 1318.812 | 1318.620 | 1318.692 | 1318.692 | 1322.004 | 1325.916 | 1329.828 |
| 167.5 | 1324.884 | 1324.812 | 1325.016 | 1324.812 | 1324.884 | 1324.572 | 1324.764 | 1324.584 | 1327.452 | 1330.488 |
| 170.0 | 1326.972 | 1327.140 | 1327.308 | 1327.140 | 1326.984 | 1326.828 | 1326.696 | 1326.972 | 1326.888 | 1328.388 |
| 172.5 | 1328.448 | 1328.592 | 1328.736 | 1328.604 | 1328.448 | 1328.292 | 1328.124 | 1328.052 | 1327.740 | 1327.680 |
| 175.0 | 1327.428 | 1327.500 | 1327.596 | 1327.512 | 1327.428 | 1327.368 | 1327.308 | 1327.260 | 1327.224 | 1327.200 |
| 177.5 | 1330.368 | 1330.404 | 1330.464 | 1330.416 | 1330.368 | 1330.320 | 1330.284 | 1330.236 | 1330.200 | 1330.152 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 200.0 | 202.5 | 205.0 | 207.5 | 210.0 | 212.5 | 215.0 | 217.5 | 220.0 | 222.5 |
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1330.116 | 1330.140 | 1330.116 | 1330.020 | 1329.936 | 1329.864 | 1329.792 | 1329.708 | 1329.624 | 1329.540 |
| 5.0 | 1327.176 | 1327.176 | 1327.176 | 1327.644 | 1327.548 | 1327.824 | 1328.952 | 1329.636 | 1330.752 | 1331.832 |
| 7.5 | 1327.596 | 1328.640 | 1329.672 | 1331.148 | 1332.564 | 1333.920 | 1335.216 | 1336.452 | 1337.616 | 1338.804 |
| 10.0 | 1330.776 | 1333.128 | 1335.432 | 1337.700 | 1339.932 | 1341.732 | 1343.520 | 1345.260 | 1346.892 | 1348.272 |
| 12.5 | 1333.488 | 1336.452 | 1339.068 | 1341.516 | 1343.904 | 1346.436 | 1348.584 | 1350.912 | 1353.264 | 1355.544 |
| 15.0 | 1333.548 | 1336.932 | 1340.304 | 1343.664 | 1347.180 | 1350.600 | 1353.924 | 1356.864 | 1359.756 | 1362.372 |
| 17.5 | 1331.736 | 1335.684 | 1339.608 | 1343.748 | 1348.068 | 1352.328 | 1356.348 | 1360.032 | 1363.656 | 1367.208 |
| 20.0 | 1327.800 | 1333.116 | 1338.276 | 1343.808 | 1349.040 | 1353.348 | 1357.596 | 1361.760 | 1365.744 | 1369.368 |
| 22.5 | 1322.088 | 1328.352 | 1334.808 | 1340.388 | 1345.956 | 1351.500 | 1357.272 | 1361.940 | 1367.004 | 1370.652 |
| 25.0 | 1314.636 | 1322.124 | 1329.036 | 1336.068 | 1342.320 | 1348.368 | 1354.140 | 1359.192 | 1364.184 | 1369.104 |
| 27.5 | 1305.636 | 1313.052 | 1320.852 | 1328.712 | 1335.684 | 1342.488 | 1349.064 | 1355.592 | 1361.268 | 1366.800 |
| 30.0 | 1293.792 | 1302.732 | 1311.660 | 1320.156 | 1327.548 | 1334.736 | 1341.924 | 1349.124 | 1356.132 | 1362.696 |
| 32.5 | 1280.412 | 1290.156 | 1299.948 | 1308.432 | 1317.132 | 1325.868 | 1334.664 | 1341.840 | 1348.992 | 1356.108 |
| 35.0 | 1265.652 | 1276.812 | 1286.688 | 1296.240 | 1305.636 | 1314.720 | 1323.600 | 1332.468 | 1341.228 | 1349.460 |
| 37.5 | 1249.104 | 1260.168 | 1270.980 | 1281.912 | 1292.412 | 1302.792 | 1312.788 | 1322.592 | 1331.244 | 1339.692 |
| 40.0 | 1230.972 | 1242.876 | 1254.696 | 1265.952 | 1277.052 | 1288.572 | 1299.912 | 1310.448 | 1320.312 | 1329.516 |
| 42.5 | 1210.668 | 1223.472 | 1235.856 | 1248.132 | 1260.648 | 1272.996 | 1285.584 | 1296.384 | 1307.016 | 1317.120 |
| 45.0 | 1189.512 | 1202.988 | 1215.912 | 1229.244 | 1242.444 | 1255.668 | 1268.364 | 1280.388 | 1292.172 | 1303.296 |
| 47.5 | 1166.808 | 1181.124 | 1195.212 | 1209.252 | 1223.376 | 1237.224 | 1250.508 | 1263.228 | 1275.816 | 1286.832 |
| 50.0 | 1142.520 | 1157.676 | 1172.556 | 1188.120 | 1202.892 | 1217.244 | 1231.548 | 1245.396 | 1257.300 | 1269.096 |
| 52.5 | 1117.536 | 1133.112 | 1148.940 | 1164.972 | 1180.776 | 1196.424 | 1210.836 | 1224.708 | 1237.968 | 1250.520 |
| 55.0 | 1091.448 | 1107.636 | 1124.604 | 1141.248 | 1157.568 | 1173.264 | 1188.744 | 1203.048 | 1217.028 | 1230.876 |
| 57.5 | 1064.088 | 1080.864 | 1098.000 | 1115.592 | 1132.368 | 1148.820 | 1164.672 | 1180.284 | 1195.056 | 1209.156 |
| 60.0 | 1034.184 | 1051.584 | 1069.644 | 1087.716 | 1105.464 | 1122.420 | 1139.148 | 1155.492 | 1170.936 | 1185.612 |
| 62.5 | 1002.708 | 1021.464 | 1041.468 | 1059.612 | 1077.504 | 1094.724 | 1111.812 | 1128.756 | 1145.352 | 1160.424 |
| 65.0 | 971.040 | 990.480 | 1010.796 | 1031.208 | 1048.200 | 1065.840 | 1083.828 | 1101.156 | 1118.340 | 1133.676 |
| 67.5 | 939.444 | 959.892 | 980.052 | 999.528 | 1017.684 | 1035.900 | 1054.428 | 1072.152 | 1089.948 | 1105.896 |
| 70.0 | 909.540 | 930.216 | 951.108 | 970.596 | 989.256 | 1007.064 | 1024.452 | 1042.536 | 1061.424 | 1078.008 |
| 72.5 | 878.388 | 899.832 | 921.780 | 942.240 | 960.096 | 977.472 | 994.212 | 1012.008 | 1030.140 | 1047.132 |
| 75.0 | 845.268 | 867.264 | 888.636 | 910.620 | 929.844 | 946.992 | 962.928 | 980.484 | 998.256 | 1014.984 |
| 77.5 | 811.488 | 833.532 | 854.196 | 876.312 | 897.672 | 915.180 | 930.888 | 948.648 | 966.576 | 983.724 |
| 80.0 | 777.744 | 799.464 | 820.560 | 841.572 | 862.332 | 879.996 | 896.928 | 914.748 | 933.264 | 950.976 |
| 82.5 | 744.816 | 767.136 | 789.084 | 808.188 | 827.424 | 845.220 | 862.776 | 880.512 | 898.236 | 916.752 |
| 85.0 | 711.180 | 733.884 | 756.324 | 774.360 | 792.792 | 810.612 | 829.632 | 847.356 | 865.980 | 885.720 |
| 87.5 | 681.000 | 703.812 | 726.864 | 744.396 | 761.976 | 780.324 | 798.804 | 817.500 | 836.508 | 856.728 |
| 90.0 | 693.216 | 717.204 | 741.540 | 765.696 | 784.464 | 803.328 | 822.900 | 843.252 | 863.376 | 882.684 |
| 92.5 | 681.000 | 703.812 | 726.864 | 744.396 | 761.976 | 780.324 | 798.804 | 817.500 | 836.508 | 856.728 |
| 95.0 | 711.180 | 733.884 | 756.324 | 774.360 | 792.792 | 810.612 | 829.632 | 847.356 | 865.980 | 885.720 |
| 97.5 | 744.816 | 767.136 | 789.084 | 808.188 | 827.424 | 845.220 | 862.776 | 880.512 | 898.236 | 916.752 |
| 100.0 | 777.744 | 799.464 | 820.560 | 841.572 | 862.332 | 879.996 | 896.928 | 914.748 | 933.264 | 950.976 |
| 102.5 | 811.488 | 833.532 | 854.196 | 876.312 | 897.672 | 915.180 | 930.888 | 948.648 | 966.576 | 983.724 |
| 105.0 | 845.268 | 867.264 | 888.636 | 910.620 | 929.844 | 946.992 | 962.928 | 980.484 | 998.256 | 1014.984 |
| 107.5 | 878.388 | 899.832 | 921.780 | 942.240 | 960.096 | 977.472 | 994.212 | 1012.008 | 1030.140 | 1047.132 |
| 110.0 | 909.540 | 930.216 | 951.108 | 970.596 | 989.256 | 1007.064 | 1024.452 | 1042.536 | 1061.424 | 1078.008 |
| 112.5 | 939.444 | 959.892 | 980.052 | 999.528 | 1017.684 | 1035.900 | 1054.428 | 1072.152 | 1089.948 | 1105.896 |
| 115.0 | 971.040 | 990.480 | 1010.796 | 1031.208 | 1048.200 | 1065.840 | 1083.828 | 1101.156 | 1118.340 | 1133.676 |
| 117.5 | 1002.708 | 1021.464 | 1041.468 | 1059.612 | 1077.504 | 1094.724 | 1111.812 | 1128.756 | 1145.352 | 1160.424 |
| 120.0 | 1034.184 | 1051.584 | 1069.644 | 1087.716 | 1105.464 | 1122.420 | 1139.148 | 1155.492 | 1170.936 | 1185.612 |
| 122.5 | 1064.088 | 1080.864 | 1098.000 | 1115.592 | 1132.368 | 1148.820 | 1164.672 | 1180.284 | 1195.056 | 1209.156 |
| 125.0 | 1091.448 | 1107.636 | 1124.604 | 1141.248 | 1157.568 | 1173.264 | 1188.744 | 1203.048 | 1217.028 | 1230.876 |
| 127.5 | 1117.536 | 1133.112 | 1148.940 | 1164.972 | 1180.776 | 1196.424 | 1210.836 | 1224.708 | 1237.968 | 1250.520 |
| 130.0 | 1142.520 | 1157.676 | 1172.556 | 1188.120 | 1202.892 | 1217.244 | 1231.548 | 1245.396 | 1257.300 | 1269.096 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 132.5 | 1166.808 | 1181.124 | 1195.212 | 1209.252 | 1223.376 | 1237.224 | 1250.508 | 1263.228 | 1275.816 | 1286.832 |
| 135.0 | 1189.512 | 1202.988 | 1215.912 | 1229.244 | 1242.444 | 1255.668 | 1268.364 | 1280.388 | 1292.172 | 1303.296 |
| 137.5 | 1210.668 | 1223.472 | 1235.856 | 1248.132 | 1260.648 | 1272.996 | 1285.584 | 1296.384 | 1307.016 | 1317.120 |
| 140.0 | 1230.972 | 1242.876 | 1254.696 | 1265.952 | 1277.052 | 1288.572 | 1299.912 | 1310.448 | 1320.312 | 1329.516 |
| 142.5 | 1249.104 | 1260.168 | 1270.980 | 1281.912 | 1292.412 | 1302.792 | 1312.788 | 1322.592 | 1331.244 | 1339.692 |
| 145.0 | 1265.652 | 1276.812 | 1286.688 | 1296.240 | 1305.636 | 1314.720 | 1323.600 | 1332.468 | 1341.228 | 1349.460 |
| 147.5 | 1280.412 | 1290.156 | 1299.948 | 1308.432 | 1317.132 | 1325.868 | 1334.664 | 1341.840 | 1348.992 | 1356.108 |
| 150.0 | 1293.792 | 1302.732 | 1311.660 | 1320.156 | 1327.548 | 1334.736 | 1341.924 | 1349.124 | 1356.132 | 1362.696 |
| 152.5 | 1305.636 | 1313.052 | 1320.852 | 1328.712 | 1335.684 | 1342.488 | 1349.064 | 1355.592 | 1361.268 | 1366.800 |
| 155.0 | 1314.636 | 1322.124 | 1329.036 | 1336.068 | 1342.320 | 1348.368 | 1354.140 | 1359.192 | 1364.184 | 1369.104 |
| 157.5 | 1322.088 | 1328.352 | 1334.808 | 1340.388 | 1345.956 | 1351.500 | 1357.272 | 1361.940 | 1367.004 | 1370.652 |
| 160.0 | 1327.800 | 1333.116 | 1338.276 | 1343.808 | 1349.040 | 1353.348 | 1357.596 | 1361.760 | 1365.744 | 1369.368 |
| 162.5 | 1331.736 | 1335.684 | 1339.608 | 1343.748 | 1348.068 | 1352.328 | 1356.348 | 1360.032 | 1363.656 | 1367.208 |
| 165.0 | 1333.548 | 1336.932 | 1340.304 | 1343.664 | 1347.180 | 1350.600 | 1353.924 | 1356.864 | 1359.756 | 1362.372 |
| 167.5 | 1333.488 | 1336.452 | 1339.068 | 1341.516 | 1343.904 | 1346.436 | 1348.584 | 1350.912 | 1353.264 | 1355.544 |
| 170.0 | 1330.776 | 1333.128 | 1335.432 | 1337.700 | 1339.932 | 1341.732 | 1343.520 | 1345.260 | 1346.892 | 1348.272 |
| 172.5 | 1327.596 | 1328.640 | 1329.672 | 1331.148 | 1332.564 | 1333.920 | 1335.216 | 1336.452 | 1337.616 | 1338.804 |
| 175.0 | 1327.176 | 1327.176 | 1327.176 | 1327.644 | 1327.548 | 1327.824 | 1328.952 | 1329.636 | 1330.752 | 1331.832 |
| 177.5 | 1330.116 | 1330.140 | 1330.116 | 1330.020 | 1329.936 | 1329.864 | 1329.792 | 1329.708 | 1329.624 | 1329.540 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>225.0</u> | <u>227.5</u> | <u>230.0</u> | <u>232.5</u> | <u>235.0</u> | <u>237.5</u> | <u>240.0</u> | <u>242.5</u> | <u>245.0</u> | <u>247.5</u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.468 | 1329.384 | 1329.300 | 1329.216 | 1329.132 | 1329.048 | 1329.672 | 1329.048 | 1328.832 | 1328.808 |
| 5.0 | 1332.876 | 1333.896 | 1334.880 | 1335.828 | 1336.776 | 1337.556 | 1338.216 | 1338.900 | 1339.344 | 1339.716 |
| 7.5 | 1340.064 | 1341.396 | 1342.680 | 1343.928 | 1345.128 | 1346.280 | 1347.384 | 1348.428 | 1349.424 | 1350.372 |
| 10.0 | 1349.460 | 1350.540 | 1351.392 | 1352.340 | 1353.228 | 1354.404 | 1356.024 | 1357.560 | 1359.012 | 1360.392 |
| 12.5 | 1357.740 | 1359.840 | 1361.856 | 1363.704 | 1364.928 | 1365.708 | 1366.380 | 1366.944 | 1367.904 | 1369.452 |
| 15.0 | 1364.724 | 1367.076 | 1369.296 | 1371.300 | 1373.616 | 1374.840 | 1376.136 | 1376.844 | 1377.168 | 1377.360 |
| 17.5 | 1370.736 | 1373.304 | 1375.344 | 1377.444 | 1379.544 | 1381.368 | 1382.808 | 1384.068 | 1385.076 | 1385.280 |
| 20.0 | 1372.968 | 1376.508 | 1379.484 | 1382.280 | 1384.248 | 1386.000 | 1388.076 | 1389.384 | 1390.392 | 1391.520 |
| 22.5 | 1374.132 | 1377.528 | 1380.912 | 1384.200 | 1387.380 | 1390.344 | 1392.264 | 1393.860 | 1394.976 | 1395.972 |
| 25.0 | 1373.952 | 1378.668 | 1382.340 | 1385.688 | 1388.784 | 1391.772 | 1394.628 | 1396.860 | 1398.264 | 1399.140 |
| 27.5 | 1372.068 | 1376.808 | 1381.464 | 1386.348 | 1389.324 | 1392.420 | 1395.180 | 1397.772 | 1400.016 | 1400.700 |
| 30.0 | 1368.876 | 1374.240 | 1379.160 | 1383.816 | 1388.028 | 1391.556 | 1394.064 | 1396.512 | 1398.828 | 1401.096 |
| 32.5 | 1363.176 | 1369.872 | 1375.476 | 1379.940 | 1384.236 | 1388.412 | 1392.504 | 1394.880 | 1396.848 | 1398.420 |
| 35.0 | 1356.072 | 1362.636 | 1369.056 | 1375.248 | 1380.372 | 1384.140 | 1387.572 | 1390.884 | 1393.032 | 1394.580 |
| 37.5 | 1347.804 | 1355.652 | 1362.168 | 1368.060 | 1373.484 | 1378.476 | 1382.052 | 1385.448 | 1388.568 | 1389.924 |
| 40.0 | 1338.084 | 1346.016 | 1353.240 | 1359.876 | 1365.744 | 1371.012 | 1375.464 | 1378.044 | 1380.444 | 1383.156 |
| 42.5 | 1326.804 | 1335.240 | 1343.208 | 1349.736 | 1356.060 | 1361.040 | 1365.324 | 1369.452 | 1372.272 | 1374.624 |
| 45.0 | 1313.100 | 1322.124 | 1330.776 | 1337.868 | 1344.132 | 1350.144 | 1355.136 | 1359.144 | 1362.576 | 1364.640 |
| 47.5 | 1297.572 | 1307.580 | 1316.472 | 1325.040 | 1332.000 | 1337.988 | 1343.424 | 1347.876 | 1351.440 | 1354.944 |
| 50.0 | 1281.024 | 1291.128 | 1301.124 | 1310.040 | 1318.056 | 1325.004 | 1330.344 | 1335.252 | 1339.212 | 1341.708 |
| 52.5 | 1262.424 | 1273.692 | 1284.132 | 1293.804 | 1302.504 | 1309.704 | 1316.376 | 1321.248 | 1325.256 | 1328.304 |
| 55.0 | 1243.356 | 1255.044 | 1265.904 | 1275.756 | 1284.744 | 1292.904 | 1299.720 | 1305.624 | 1309.824 | 1313.436 |
| 57.5 | 1222.356 | 1234.620 | 1245.900 | 1255.968 | 1264.752 | 1273.056 | 1280.472 | 1286.640 | 1291.920 | 1295.784 |
| 60.0 | 1199.904 | 1211.652 | 1222.932 | 1233.336 | 1242.576 | 1251.192 | 1258.992 | 1265.592 | 1270.788 | 1275.264 |
| 62.5 | 1174.224 | 1187.136 | 1198.452 | 1209.372 | 1218.696 | 1228.296 | 1236.936 | 1244.856 | 1250.904 | 1254.492 |
| 65.0 | 1147.812 | 1161.240 | 1173.360 | 1184.112 | 1194.492 | 1204.632 | 1214.232 | 1224.024 | 1229.880 | 1232.892 |
| 67.5 | 1119.936 | 1134.144 | 1147.032 | 1158.540 | 1169.604 | 1179.576 | 1189.968 | 1199.820 | 1207.284 | 1211.436 |
| 70.0 | 1091.688 | 1106.256 | 1120.008 | 1132.368 | 1143.984 | 1155.756 | 1167.312 | 1177.560 | 1185.816 | 1191.192 |
| 72.5 | 1061.916 | 1076.460 | 1091.124 | 1104.672 | 1117.368 | 1130.304 | 1143.792 | 1156.500 | 1165.728 | 1169.196 |
| 75.0 | 1031.076 | 1046.580 | 1061.760 | 1076.160 | 1089.300 | 1103.568 | 1117.104 | 1130.148 | 1138.308 | 1143.396 |
| 77.5 | 1000.536 | 1016.388 | 1031.964 | 1046.676 | 1060.176 | 1074.708 | 1088.148 | 1099.356 | 1107.804 | 1114.824 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 80.0 | 968.856 | 984.432 | 999.564 | 1014.528 | 1029.360 | 1043.772 | 1057.236 | 1068.828 | 1079.112 | 1087.068 |
| 82.5 | 935.676 | 951.168 | 967.116 | 982.404 | 998.040 | 1012.632 | 1026.948 | 1040.292 | 1053.048 | 1060.380 |
| 85.0 | 905.400 | 920.448 | 935.328 | 950.940 | 966.660 | 981.240 | 995.928 | 1010.736 | 1025.676 | 1031.520 |
| 87.5 | 877.476 | 891.672 | 906.648 | 921.696 | 937.260 | 951.852 | 966.552 | 982.596 | 998.496 | 1003.356 |
| 90.0 | 901.260 | 917.868 | 933.780 | 948.108 | 962.184 | 976.512 | 990.840 | 1002.828 | 1011.900 | 1018.320 |
| 92.5 | 877.476 | 891.672 | 906.648 | 921.696 | 937.260 | 951.852 | 966.552 | 982.596 | 998.496 | 1003.356 |
| 95.0 | 905.400 | 920.448 | 935.328 | 950.940 | 966.660 | 981.240 | 995.928 | 1010.736 | 1025.676 | 1031.520 |
| 97.5 | 935.676 | 951.168 | 967.116 | 982.404 | 998.040 | 1012.632 | 1026.948 | 1040.292 | 1053.048 | 1060.380 |
| 100.0 | 968.856 | 984.432 | 999.564 | 1014.528 | 1029.360 | 1043.772 | 1057.236 | 1068.828 | 1079.112 | 1087.068 |
| 102.5 | 1000.536 | 1016.388 | 1031.964 | 1046.676 | 1060.176 | 1074.708 | 1088.148 | 1099.356 | 1107.804 | 1114.824 |
| 105.0 | 1031.076 | 1046.580 | 1061.760 | 1076.160 | 1089.300 | 1103.568 | 1117.104 | 1130.148 | 1138.308 | 1143.396 |
| 107.5 | 1061.916 | 1076.460 | 1091.124 | 1104.672 | 1117.368 | 1130.304 | 1143.792 | 1156.500 | 1165.728 | 1169.196 |
| 110.0 | 1091.688 | 1106.256 | 1120.008 | 1132.368 | 1143.984 | 1155.756 | 1167.312 | 1177.560 | 1185.816 | 1191.192 |
| 112.5 | 1119.936 | 1134.144 | 1147.032 | 1158.540 | 1169.604 | 1179.576 | 1189.968 | 1199.820 | 1207.284 | 1211.436 |
| 115.0 | 1147.812 | 1161.240 | 1173.360 | 1184.112 | 1194.492 | 1204.632 | 1214.232 | 1224.024 | 1229.880 | 1232.892 |
| 117.5 | 1174.224 | 1187.136 | 1198.452 | 1209.372 | 1218.696 | 1228.296 | 1236.936 | 1244.856 | 1250.904 | 1254.492 |
| 120.0 | 1199.904 | 1211.652 | 1222.932 | 1233.336 | 1242.576 | 1251.192 | 1258.992 | 1265.592 | 1270.788 | 1275.264 |
| 122.5 | 1222.356 | 1234.620 | 1245.900 | 1255.968 | 1264.752 | 1273.056 | 1280.472 | 1286.640 | 1291.920 | 1295.784 |
| 125.0 | 1243.356 | 1255.044 | 1265.904 | 1275.756 | 1284.744 | 1292.904 | 1299.720 | 1305.624 | 1309.824 | 1313.436 |
| 127.5 | 1262.424 | 1273.692 | 1284.132 | 1293.804 | 1302.504 | 1309.704 | 1316.376 | 1321.248 | 1325.256 | 1328.304 |
| 130.0 | 1281.024 | 1291.128 | 1301.124 | 1310.040 | 1318.056 | 1325.004 | 1330.344 | 1335.252 | 1339.212 | 1341.708 |
| 132.5 | 1297.572 | 1307.580 | 1316.472 | 1325.040 | 1332.000 | 1337.988 | 1343.424 | 1347.876 | 1351.440 | 1354.944 |
| 135.0 | 1313.100 | 1322.124 | 1330.776 | 1337.868 | 1344.132 | 1350.144 | 1355.136 | 1359.144 | 1362.576 | 1364.640 |
| 137.5 | 1326.804 | 1335.240 | 1343.208 | 1349.736 | 1356.060 | 1361.040 | 1365.324 | 1369.452 | 1372.272 | 1374.624 |
| 140.0 | 1338.084 | 1346.016 | 1353.240 | 1359.876 | 1365.744 | 1371.012 | 1375.464 | 1378.044 | 1380.444 | 1383.156 |
| 142.5 | 1347.804 | 1355.652 | 1362.168 | 1368.060 | 1373.484 | 1378.476 | 1382.052 | 1385.448 | 1388.568 | 1389.924 |
| 145.0 | 1356.072 | 1362.636 | 1369.056 | 1375.248 | 1380.372 | 1384.140 | 1387.572 | 1390.884 | 1393.032 | 1394.580 |
| 147.5 | 1363.176 | 1369.872 | 1375.476 | 1379.940 | 1384.236 | 1388.412 | 1392.504 | 1394.880 | 1396.848 | 1398.420 |
| 150.0 | 1368.876 | 1374.240 | 1379.160 | 1383.816 | 1388.028 | 1391.556 | 1394.064 | 1396.512 | 1398.828 | 1401.096 |
| 152.5 | 1372.068 | 1376.808 | 1381.464 | 1386.348 | 1389.324 | 1392.420 | 1395.180 | 1397.772 | 1400.016 | 1400.700 |
| 155.0 | 1373.952 | 1378.668 | 1382.340 | 1385.688 | 1388.784 | 1391.772 | 1394.628 | 1396.860 | 1398.264 | 1399.140 |
| 157.5 | 1374.132 | 1377.528 | 1380.912 | 1384.200 | 1387.380 | 1390.344 | 1392.264 | 1393.860 | 1394.976 | 1395.972 |
| 160.0 | 1372.968 | 1376.508 | 1379.484 | 1382.280 | 1384.248 | 1386.000 | 1388.076 | 1389.384 | 1390.392 | 1391.520 |
| 162.5 | 1370.736 | 1373.304 | 1375.344 | 1377.444 | 1379.544 | 1381.368 | 1382.808 | 1384.068 | 1385.076 | 1385.280 |
| 165.0 | 1364.724 | 1367.076 | 1369.296 | 1371.300 | 1373.616 | 1374.840 | 1376.136 | 1376.844 | 1377.168 | 1377.360 |
| 167.5 | 1357.740 | 1359.840 | 1361.856 | 1363.704 | 1364.928 | 1365.708 | 1366.380 | 1366.944 | 1367.904 | 1369.452 |
| 170.0 | 1349.460 | 1350.540 | 1351.392 | 1352.340 | 1353.228 | 1354.404 | 1356.024 | 1357.560 | 1359.012 | 1360.392 |
| 172.5 | 1340.064 | 1341.396 | 1342.680 | 1343.928 | 1345.128 | 1346.280 | 1347.384 | 1348.428 | 1349.424 | 1350.372 |
| 175.0 | 1332.876 | 1333.896 | 1334.880 | 1335.828 | 1336.776 | 1337.556 | 1338.216 | 1338.900 | 1339.344 | 1339.716 |
| 177.5 | 1329.468 | 1329.384 | 1329.300 | 1329.216 | 1329.132 | 1329.048 | 1329.672 | 1329.048 | 1328.832 | 1328.808 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

Vert. Horizontal Angles

| | <u>250.0</u> | <u>252.5</u> | <u>255.0</u> | <u>257.5</u> | <u>260.0</u> | <u>262.5</u> | <u>265.0</u> | <u>267.5</u> | <u>270.0</u> | <u>272.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1328.772 | 1328.736 | 1329.108 | 1328.664 | 1328.688 | 1328.700 | 1328.712 | 1328.712 | 1328.712 | 1328.712 |
| 5.0 | 1340.028 | 1340.292 | 1340.508 | 1340.664 | 1340.760 | 1340.808 | 1340.880 | 1340.964 | 1340.988 | 1340.964 |
| 7.5 | 1351.080 | 1351.716 | 1352.508 | 1352.124 | 1352.232 | 1352.268 | 1352.244 | 1352.268 | 1352.304 | 1352.268 |
| 10.0 | 1361.676 | 1362.876 | 1363.836 | 1364.496 | 1364.700 | 1364.808 | 1364.808 | 1364.736 | 1364.784 | 1364.736 |
| 12.5 | 1370.916 | 1372.284 | 1373.544 | 1374.696 | 1375.632 | 1375.476 | 1375.260 | 1375.056 | 1375.044 | 1375.476 |
| 15.0 | 1378.212 | 1379.664 | 1381.032 | 1382.292 | 1383.348 | 1383.696 | 1383.576 | 1383.324 | 1383.216 | 1383.312 |
| 17.5 | 1385.124 | 1385.196 | 1386.588 | 1387.896 | 1389.096 | 1389.852 | 1390.128 | 1389.888 | 1389.468 | 1389.876 |
| 20.0 | 1391.916 | 1391.556 | 1391.484 | 1392.936 | 1394.292 | 1395.480 | 1395.588 | 1395.216 | 1394.856 | 1395.204 |
| 22.5 | 1396.824 | 1396.956 | 1396.164 | 1396.260 | 1397.628 | 1398.864 | 1399.368 | 1399.020 | 1398.612 | 1399.008 |
| 25.0 | 1399.788 | 1400.304 | 1399.812 | 1398.540 | 1399.392 | 1400.604 | 1401.408 | 1400.868 | 1400.172 | 1400.868 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.5 | 1400.976 | 1401.288 | 1401.420 | 1400.088 | 1399.368 | 1400.736 | 1401.828 | 1401.264 | 1401.012 | 1401.252 |
| 30.0 | 1401.240 | 1401.216 | 1401.072 | 1400.304 | 1398.216 | 1399.080 | 1400.244 | 1399.944 | 1399.200 | 1399.932 |
| 32.5 | 1399.584 | 1399.068 | 1398.636 | 1398.108 | 1395.984 | 1395.528 | 1396.608 | 1396.584 | 1395.840 | 1396.572 |
| 35.0 | 1395.972 | 1396.308 | 1395.396 | 1394.400 | 1392.660 | 1390.644 | 1391.700 | 1391.856 | 1391.112 | 1391.844 |
| 37.5 | 1390.572 | 1391.112 | 1390.092 | 1388.784 | 1387.296 | 1384.308 | 1384.992 | 1385.328 | 1384.596 | 1385.316 |
| 40.0 | 1384.104 | 1384.584 | 1384.380 | 1382.532 | 1380.588 | 1377.624 | 1376.988 | 1377.396 | 1376.652 | 1377.384 |
| 42.5 | 1376.508 | 1376.316 | 1375.836 | 1374.132 | 1371.900 | 1369.224 | 1367.400 | 1368.000 | 1367.292 | 1367.988 |
| 45.0 | 1366.404 | 1367.220 | 1366.560 | 1365.396 | 1362.828 | 1360.272 | 1357.260 | 1357.860 | 1357.356 | 1357.860 |
| 47.5 | 1355.988 | 1356.804 | 1355.940 | 1354.428 | 1351.908 | 1349.124 | 1345.248 | 1345.944 | 1345.572 | 1345.944 |
| 50.0 | 1343.928 | 1344.564 | 1345.188 | 1342.968 | 1340.700 | 1337.376 | 1333.284 | 1333.128 | 1333.020 | 1333.128 |
| 52.5 | 1330.524 | 1331.904 | 1331.772 | 1330.176 | 1327.896 | 1324.248 | 1320.288 | 1319.100 | 1319.292 | 1319.100 |
| 55.0 | 1315.968 | 1317.720 | 1317.684 | 1316.928 | 1314.252 | 1311.024 | 1306.848 | 1304.472 | 1304.904 | 1304.472 |
| 57.5 | 1299.168 | 1301.652 | 1303.044 | 1301.664 | 1299.048 | 1295.640 | 1291.464 | 1288.032 | 1288.740 | 1288.044 |
| 60.0 | 1278.864 | 1282.248 | 1283.928 | 1284.192 | 1282.932 | 1280.004 | 1275.336 | 1271.172 | 1271.868 | 1271.220 |
| 62.5 | 1257.180 | 1260.540 | 1262.976 | 1264.488 | 1263.804 | 1261.176 | 1257.108 | 1252.164 | 1253.208 | 1252.176 |
| 65.0 | 1235.952 | 1238.844 | 1240.332 | 1241.484 | 1242.000 | 1241.556 | 1238.856 | 1233.084 | 1234.128 | 1233.096 |
| 67.5 | 1214.388 | 1217.388 | 1219.356 | 1219.980 | 1219.536 | 1219.632 | 1218.408 | 1213.104 | 1213.692 | 1213.092 |
| 70.0 | 1194.192 | 1197.588 | 1199.088 | 1198.560 | 1197.204 | 1196.208 | 1196.472 | 1193.292 | 1192.884 | 1193.268 |
| 72.5 | 1173.000 | 1177.008 | 1178.028 | 1178.556 | 1176.396 | 1172.376 | 1170.576 | 1169.376 | 1169.352 | 1169.364 |
| 75.0 | 1147.512 | 1151.556 | 1154.748 | 1156.116 | 1153.692 | 1149.336 | 1145.232 | 1144.380 | 1145.580 | 1144.368 |
| 77.5 | 1120.092 | 1125.432 | 1128.552 | 1129.764 | 1129.284 | 1126.164 | 1119.792 | 1115.520 | 1117.200 | 1115.508 |
| 80.0 | 1092.708 | 1098.756 | 1101.588 | 1103.880 | 1102.872 | 1099.980 | 1095.012 | 1087.500 | 1088.628 | 1087.488 |
| 82.5 | 1065.456 | 1070.808 | 1074.672 | 1077.384 | 1076.148 | 1074.888 | 1069.308 | 1061.568 | 1058.808 | 1061.556 |
| 85.0 | 1036.188 | 1041.240 | 1046.244 | 1048.056 | 1048.032 | 1046.136 | 1040.904 | 1035.852 | 1029.108 | 1035.852 |
| 87.5 | 1007.628 | 1013.100 | 1018.428 | 1019.580 | 1020.012 | 1018.176 | 1014.492 | 1009.032 | 1001.820 | 1009.032 |
| 90.0 | 1021.524 | 1024.044 | 1024.980 | 1026.636 | 1024.356 | 1021.008 | 1015.320 | 1018.440 | 1016.352 | 1018.416 |
| 92.5 | 1007.628 | 1013.100 | 1018.428 | 1019.580 | 1020.012 | 1018.176 | 1014.492 | 1009.032 | 1001.820 | 1009.032 |
| 95.0 | 1036.188 | 1041.240 | 1046.244 | 1048.056 | 1048.032 | 1046.136 | 1040.904 | 1035.852 | 1029.108 | 1035.852 |
| 97.5 | 1065.456 | 1070.808 | 1074.672 | 1077.384 | 1076.148 | 1074.888 | 1069.308 | 1061.568 | 1058.808 | 1061.556 |
| 100.0 | 1092.708 | 1098.756 | 1101.588 | 1103.880 | 1102.872 | 1099.980 | 1095.012 | 1087.500 | 1088.628 | 1087.488 |
| 102.5 | 1120.092 | 1125.432 | 1128.552 | 1129.764 | 1129.284 | 1126.164 | 1119.792 | 1115.520 | 1117.200 | 1115.508 |
| 105.0 | 1147.512 | 1151.556 | 1154.748 | 1156.116 | 1153.692 | 1149.336 | 1145.232 | 1144.380 | 1145.580 | 1144.368 |
| 107.5 | 1173.000 | 1177.008 | 1178.028 | 1178.556 | 1176.396 | 1172.376 | 1170.576 | 1169.376 | 1169.352 | 1169.364 |
| 110.0 | 1194.192 | 1197.588 | 1199.088 | 1198.560 | 1197.204 | 1196.208 | 1196.472 | 1193.292 | 1192.884 | 1193.268 |
| 112.5 | 1214.388 | 1217.388 | 1219.356 | 1219.980 | 1219.536 | 1219.632 | 1218.408 | 1213.104 | 1213.692 | 1213.092 |
| 115.0 | 1235.952 | 1238.844 | 1240.332 | 1241.484 | 1242.000 | 1241.556 | 1238.856 | 1233.084 | 1234.128 | 1233.096 |
| 117.5 | 1257.180 | 1260.540 | 1262.976 | 1264.488 | 1263.804 | 1261.176 | 1257.108 | 1252.164 | 1253.208 | 1252.176 |
| 120.0 | 1278.864 | 1282.248 | 1283.928 | 1284.192 | 1282.932 | 1280.004 | 1275.336 | 1271.172 | 1271.868 | 1271.220 |
| 122.5 | 1299.168 | 1301.652 | 1303.044 | 1301.664 | 1299.048 | 1295.640 | 1291.464 | 1288.032 | 1288.740 | 1288.044 |
| 125.0 | 1315.968 | 1317.720 | 1317.684 | 1316.928 | 1314.252 | 1311.024 | 1306.848 | 1304.472 | 1304.904 | 1304.472 |
| 127.5 | 1330.524 | 1331.904 | 1331.772 | 1330.176 | 1327.896 | 1324.248 | 1320.288 | 1319.100 | 1319.292 | 1319.100 |
| 130.0 | 1343.928 | 1344.564 | 1345.188 | 1342.968 | 1340.700 | 1337.376 | 1333.284 | 1333.128 | 1333.020 | 1333.128 |
| 132.5 | 1355.988 | 1356.804 | 1355.940 | 1354.428 | 1351.908 | 1349.124 | 1345.248 | 1345.944 | 1345.572 | 1345.944 |
| 135.0 | 1366.404 | 1367.220 | 1366.560 | 1365.396 | 1362.828 | 1360.272 | 1357.260 | 1357.860 | 1357.356 | 1357.860 |
| 137.5 | 1376.508 | 1376.316 | 1375.836 | 1374.132 | 1371.900 | 1369.224 | 1367.400 | 1368.000 | 1367.292 | 1367.988 |
| 140.0 | 1384.104 | 1384.584 | 1384.380 | 1382.532 | 1380.588 | 1377.624 | 1376.988 | 1377.396 | 1376.652 | 1377.384 |
| 142.5 | 1390.572 | 1391.112 | 1390.092 | 1388.784 | 1387.296 | 1384.308 | 1384.992 | 1385.328 | 1384.596 | 1385.316 |
| 145.0 | 1395.972 | 1396.308 | 1395.396 | 1394.400 | 1392.660 | 1390.644 | 1391.700 | 1391.856 | 1391.112 | 1391.844 |
| 147.5 | 1399.584 | 1399.068 | 1398.636 | 1398.108 | 1395.984 | 1395.528 | 1396.608 | 1396.584 | 1395.840 | 1396.572 |
| 150.0 | 1401.240 | 1401.216 | 1401.072 | 1400.304 | 1398.216 | 1399.080 | 1400.244 | 1399.944 | 1399.200 | 1399.932 |
| 152.5 | 1400.976 | 1401.288 | 1401.420 | 1400.088 | 1399.368 | 1400.736 | 1401.828 | 1401.264 | 1401.012 | 1401.252 |
| 155.0 | 1399.788 | 1400.304 | 1399.812 | 1398.540 | 1399.392 | 1400.604 | 1401.408 | 1400.868 | 1400.172 | 1400.868 |
| 157.5 | 1396.824 | 1396.956 | 1396.164 | 1396.260 | 1397.628 | 1398.864 | 1399.368 | 1399.020 | 1398.612 | 1399.008 |
| 160.0 | 1391.916 | 1391.556 | 1391.484 | 1392.936 | 1394.292 | 1395.480 | 1395.588 | 1395.216 | 1394.856 | 1395.204 |
| 162.5 | 1385.124 | 1385.196 | 1386.588 | 1387.896 | 1389.096 | 1389.852 | 1390.128 | 1389.888 | 1389.468 | 1389.876 |
| 165.0 | 1378.212 | 1379.664 | 1381.032 | 1382.292 | 1383.348 | 1383.696 | 1383.576 | 1383.324 | 1383.216 | 1383.312 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 167.5 | 1370.916 | 1372.284 | 1373.544 | 1374.696 | 1375.632 | 1375.476 | 1375.260 | 1375.056 | 1375.044 | 1375.476 |
| 170.0 | 1361.676 | 1362.876 | 1363.836 | 1364.496 | 1364.700 | 1364.808 | 1364.808 | 1364.736 | 1364.784 | 1364.736 |
| 172.5 | 1351.080 | 1351.716 | 1352.508 | 1352.124 | 1352.232 | 1352.268 | 1352.244 | 1352.268 | 1352.304 | 1352.268 |
| 175.0 | 1340.028 | 1340.292 | 1340.508 | 1340.664 | 1340.760 | 1340.808 | 1340.880 | 1340.964 | 1340.988 | 1340.964 |
| 177.5 | 1328.772 | 1328.736 | 1329.108 | 1328.664 | 1328.688 | 1328.700 | 1328.712 | 1328.712 | 1328.712 | 1328.712 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

Vert. Horizontal Angles

| | <u>275.0</u> | <u>277.5</u> | <u>280.0</u> | <u>282.5</u> | <u>285.0</u> | <u>287.5</u> | <u>290.0</u> | <u>292.5</u> | <u>295.0</u> | <u>297.5</u> |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1328.712 | 1328.700 | 1328.688 | 1328.664 | 1329.012 | 1328.724 | 1328.760 | 1328.796 | 1328.820 | 1329.036 |
| 5.0 | 1340.880 | 1341.240 | 1340.748 | 1340.652 | 1340.496 | 1340.280 | 1340.028 | 1339.704 | 1339.332 | 1338.948 |
| 7.5 | 1352.232 | 1352.256 | 1352.220 | 1352.112 | 1352.508 | 1351.704 | 1351.080 | 1350.408 | 1349.436 | 1348.440 |
| 10.0 | 1364.796 | 1364.808 | 1364.700 | 1364.484 | 1363.836 | 1362.876 | 1361.688 | 1360.404 | 1359.024 | 1357.572 |
| 12.5 | 1375.248 | 1375.464 | 1375.620 | 1374.696 | 1373.556 | 1372.296 | 1370.928 | 1369.464 | 1367.916 | 1366.908 |
| 15.0 | 1383.564 | 1383.684 | 1383.348 | 1382.304 | 1381.044 | 1379.676 | 1378.224 | 1377.336 | 1377.132 | 1376.820 |
| 17.5 | 1390.116 | 1389.864 | 1389.108 | 1387.908 | 1386.600 | 1385.208 | 1385.100 | 1385.256 | 1385.064 | 1384.056 |
| 20.0 | 1395.576 | 1395.492 | 1394.292 | 1392.948 | 1391.496 | 1391.532 | 1391.892 | 1391.520 | 1390.380 | 1389.372 |
| 22.5 | 1399.356 | 1398.876 | 1397.640 | 1396.284 | 1396.128 | 1396.932 | 1396.824 | 1395.960 | 1394.976 | 1393.824 |
| 25.0 | 1401.468 | 1400.616 | 1399.404 | 1398.516 | 1399.788 | 1400.304 | 1399.788 | 1399.140 | 1398.252 | 1396.872 |
| 27.5 | 1401.828 | 1400.748 | 1399.380 | 1400.064 | 1401.408 | 1401.288 | 1400.976 | 1400.772 | 1399.992 | 1397.784 |
| 30.0 | 1400.256 | 1399.092 | 1398.192 | 1400.280 | 1401.060 | 1401.204 | 1401.204 | 1401.228 | 1398.840 | 1396.536 |
| 32.5 | 1396.620 | 1395.540 | 1395.984 | 1398.156 | 1398.624 | 1399.068 | 1399.584 | 1398.432 | 1396.860 | 1394.892 |
| 35.0 | 1391.712 | 1390.656 | 1392.624 | 1394.388 | 1395.396 | 1396.296 | 1395.984 | 1394.592 | 1393.044 | 1390.920 |
| 37.5 | 1385.004 | 1384.284 | 1387.284 | 1388.784 | 1390.092 | 1391.124 | 1390.584 | 1389.936 | 1388.592 | 1385.472 |
| 40.0 | 1376.988 | 1377.600 | 1380.576 | 1382.520 | 1384.380 | 1384.596 | 1384.116 | 1383.168 | 1380.468 | 1378.068 |
| 42.5 | 1367.412 | 1369.200 | 1371.888 | 1374.132 | 1375.836 | 1376.328 | 1376.520 | 1374.648 | 1372.296 | 1369.488 |
| 45.0 | 1357.260 | 1360.248 | 1362.816 | 1365.384 | 1366.560 | 1367.220 | 1366.548 | 1364.664 | 1362.612 | 1359.180 |
| 47.5 | 1345.260 | 1349.100 | 1351.896 | 1354.428 | 1355.940 | 1356.816 | 1356.000 | 1355.016 | 1351.476 | 1347.912 |
| 50.0 | 1333.260 | 1337.364 | 1340.688 | 1342.968 | 1345.248 | 1344.576 | 1343.940 | 1341.732 | 1339.248 | 1335.300 |
| 52.5 | 1320.264 | 1324.236 | 1327.872 | 1330.164 | 1331.784 | 1331.916 | 1330.548 | 1328.328 | 1325.292 | 1321.284 |
| 55.0 | 1306.836 | 1311.012 | 1314.240 | 1316.916 | 1317.684 | 1317.744 | 1315.992 | 1313.460 | 1309.860 | 1305.672 |
| 57.5 | 1291.440 | 1295.628 | 1299.036 | 1301.664 | 1303.044 | 1301.664 | 1299.192 | 1295.808 | 1291.944 | 1286.772 |
| 60.0 | 1275.324 | 1279.992 | 1282.920 | 1284.192 | 1283.940 | 1282.260 | 1278.888 | 1275.288 | 1270.824 | 1265.628 |
| 62.5 | 1257.096 | 1261.164 | 1263.804 | 1264.488 | 1262.976 | 1260.552 | 1257.204 | 1254.516 | 1250.940 | 1244.892 |
| 65.0 | 1238.844 | 1241.556 | 1242.000 | 1241.484 | 1240.344 | 1238.868 | 1235.964 | 1232.916 | 1229.904 | 1224.060 |
| 67.5 | 1218.384 | 1219.620 | 1219.524 | 1219.980 | 1219.368 | 1217.412 | 1214.412 | 1211.460 | 1207.344 | 1199.832 |
| 70.0 | 1196.460 | 1196.196 | 1197.204 | 1198.572 | 1199.100 | 1197.600 | 1194.204 | 1191.192 | 1185.840 | 1177.596 |
| 72.5 | 1170.564 | 1172.364 | 1176.396 | 1178.568 | 1178.040 | 1177.008 | 1173.012 | 1169.208 | 1165.752 | 1156.536 |
| 75.0 | 1145.220 | 1149.336 | 1153.692 | 1156.116 | 1154.760 | 1151.568 | 1147.512 | 1143.408 | 1138.320 | 1130.184 |
| 77.5 | 1119.792 | 1126.152 | 1129.296 | 1129.776 | 1128.552 | 1125.444 | 1120.104 | 1114.848 | 1107.816 | 1099.380 |
| 80.0 | 1095.000 | 1099.980 | 1102.872 | 1103.880 | 1101.588 | 1098.768 | 1092.720 | 1087.080 | 1079.136 | 1068.840 |
| 82.5 | 1069.296 | 1074.888 | 1076.148 | 1077.384 | 1074.672 | 1070.820 | 1065.468 | 1060.380 | 1053.060 | 1040.316 |
| 85.0 | 1040.904 | 1046.124 | 1048.032 | 1048.056 | 1046.244 | 1041.240 | 1036.188 | 1031.520 | 1025.688 | 1010.748 |
| 87.5 | 1014.492 | 1018.176 | 1020.012 | 1019.580 | 1018.428 | 1013.100 | 1007.628 | 1003.356 | 998.496 | 982.608 |
| 90.0 | 1015.344 | 1020.960 | 1024.356 | 1026.636 | 1025.004 | 1024.068 | 1021.560 | 1018.368 | 1011.984 | 1002.912 |
| 92.5 | 1014.492 | 1018.176 | 1020.012 | 1019.580 | 1018.428 | 1013.100 | 1007.628 | 1003.356 | 998.496 | 982.608 |
| 95.0 | 1040.904 | 1046.124 | 1048.032 | 1048.056 | 1046.244 | 1041.240 | 1036.188 | 1031.520 | 1025.688 | 1010.748 |
| 97.5 | 1069.296 | 1074.888 | 1076.148 | 1077.384 | 1074.672 | 1070.820 | 1065.468 | 1060.380 | 1053.060 | 1040.316 |
| 100.0 | 1095.000 | 1099.980 | 1102.872 | 1103.880 | 1101.588 | 1098.768 | 1092.720 | 1087.080 | 1079.136 | 1068.840 |
| 102.5 | 1119.792 | 1126.152 | 1129.296 | 1129.776 | 1128.552 | 1125.444 | 1120.104 | 1114.848 | 1107.816 | 1099.380 |
| 105.0 | 1145.220 | 1149.336 | 1153.692 | 1156.116 | 1154.760 | 1151.568 | 1147.512 | 1143.408 | 1138.320 | 1130.184 |
| 107.5 | 1170.564 | 1172.364 | 1176.396 | 1178.568 | 1178.040 | 1177.008 | 1173.012 | 1169.208 | 1165.752 | 1156.536 |
| 110.0 | 1196.460 | 1196.196 | 1197.204 | 1198.572 | 1199.100 | 1197.600 | 1194.204 | 1191.192 | 1185.840 | 1177.596 |
| 112.5 | 1218.384 | 1219.620 | 1219.524 | 1219.980 | 1219.368 | 1217.412 | 1214.412 | 1211.460 | 1207.344 | 1199.832 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 115.0 | 1238.844 | 1241.556 | 1242.000 | 1241.484 | 1240.344 | 1238.868 | 1235.964 | 1232.916 | 1229.904 | 1224.060 |
| 117.5 | 1257.096 | 1261.164 | 1263.804 | 1264.488 | 1262.976 | 1260.552 | 1257.204 | 1254.516 | 1250.940 | 1244.892 |
| 120.0 | 1275.324 | 1279.992 | 1282.920 | 1284.192 | 1283.940 | 1282.260 | 1278.888 | 1275.288 | 1270.824 | 1265.628 |
| 122.5 | 1291.440 | 1295.628 | 1299.036 | 1301.664 | 1303.044 | 1301.664 | 1299.192 | 1295.808 | 1291.944 | 1286.772 |
| 125.0 | 1306.836 | 1311.012 | 1314.240 | 1316.916 | 1317.684 | 1317.744 | 1315.992 | 1313.460 | 1309.860 | 1305.672 |
| 127.5 | 1320.264 | 1324.236 | 1327.872 | 1330.164 | 1331.784 | 1331.916 | 1330.548 | 1328.328 | 1325.292 | 1321.284 |
| 130.0 | 1333.260 | 1337.364 | 1340.688 | 1342.968 | 1345.248 | 1344.576 | 1343.940 | 1341.732 | 1339.248 | 1335.300 |
| 132.5 | 1345.260 | 1349.100 | 1351.896 | 1354.428 | 1355.940 | 1356.816 | 1356.000 | 1355.016 | 1351.476 | 1347.912 |
| 135.0 | 1357.260 | 1360.248 | 1362.816 | 1365.384 | 1366.560 | 1367.220 | 1366.548 | 1364.664 | 1362.612 | 1359.180 |
| 137.5 | 1367.412 | 1369.200 | 1371.888 | 1374.132 | 1375.836 | 1376.328 | 1376.520 | 1374.648 | 1372.296 | 1369.488 |
| 140.0 | 1376.988 | 1377.600 | 1380.576 | 1382.520 | 1384.380 | 1384.596 | 1384.116 | 1383.168 | 1380.468 | 1378.068 |
| 142.5 | 1385.004 | 1384.284 | 1387.284 | 1388.772 | 1390.092 | 1391.124 | 1390.584 | 1389.936 | 1388.592 | 1385.472 |
| 145.0 | 1391.712 | 1390.656 | 1392.624 | 1394.388 | 1395.396 | 1396.296 | 1395.984 | 1394.592 | 1393.044 | 1390.920 |
| 147.5 | 1396.620 | 1395.540 | 1395.984 | 1398.156 | 1398.624 | 1399.068 | 1399.584 | 1398.432 | 1396.860 | 1394.892 |
| 150.0 | 1400.256 | 1399.092 | 1398.192 | 1400.280 | 1401.060 | 1401.204 | 1401.204 | 1401.228 | 1398.840 | 1396.536 |
| 152.5 | 1401.828 | 1400.748 | 1399.380 | 1400.064 | 1401.408 | 1401.288 | 1400.976 | 1400.772 | 1399.992 | 1397.784 |
| 155.0 | 1401.468 | 1400.616 | 1399.404 | 1398.516 | 1399.788 | 1400.304 | 1399.788 | 1399.140 | 1398.252 | 1396.872 |
| 157.5 | 1399.356 | 1398.876 | 1397.640 | 1396.284 | 1396.128 | 1396.932 | 1396.824 | 1395.960 | 1394.976 | 1393.824 |
| 160.0 | 1395.576 | 1395.492 | 1394.292 | 1392.948 | 1391.496 | 1391.532 | 1391.892 | 1391.520 | 1390.380 | 1389.372 |
| 162.5 | 1390.116 | 1389.864 | 1389.108 | 1387.908 | 1386.600 | 1385.208 | 1385.100 | 1385.256 | 1385.064 | 1384.056 |
| 165.0 | 1383.564 | 1383.684 | 1383.348 | 1382.304 | 1381.044 | 1379.676 | 1378.224 | 1377.336 | 1377.132 | 1376.820 |
| 167.5 | 1375.248 | 1375.464 | 1375.620 | 1374.696 | 1373.556 | 1372.296 | 1370.928 | 1369.464 | 1367.916 | 1366.908 |
| 170.0 | 1364.796 | 1364.808 | 1364.700 | 1364.484 | 1363.836 | 1362.876 | 1361.688 | 1360.404 | 1359.024 | 1357.572 |
| 172.5 | 1352.232 | 1352.256 | 1352.220 | 1352.112 | 1352.508 | 1351.704 | 1351.080 | 1350.408 | 1349.436 | 1348.440 |
| 175.0 | 1340.880 | 1341.240 | 1340.748 | 1340.652 | 1340.496 | 1340.280 | 1340.028 | 1339.704 | 1339.332 | 1338.948 |
| 177.5 | 1328.712 | 1328.700 | 1328.688 | 1328.664 | 1329.012 | 1328.724 | 1328.760 | 1328.796 | 1328.820 | 1329.036 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>300.0</u> | <u>302.5</u> | <u>305.0</u> | <u>307.5</u> | <u>310.0</u> | <u>312.5</u> | <u>315.0</u> | <u>317.5</u> | <u>320.0</u> | <u>322.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.660 | 1329.036 | 1329.120 | 1329.204 | 1329.288 | 1329.372 | 1329.456 | 1329.540 | 1329.624 | 1329.696 |
| 5.0 | 1338.204 | 1337.556 | 1336.776 | 1335.840 | 1334.892 | 1333.908 | 1332.888 | 1331.832 | 1330.752 | 1329.648 |
| 7.5 | 1347.384 | 1346.292 | 1345.140 | 1343.940 | 1342.692 | 1341.408 | 1340.076 | 1338.816 | 1337.592 | 1336.428 |
| 10.0 | 1356.036 | 1354.416 | 1353.204 | 1352.304 | 1351.368 | 1350.504 | 1349.436 | 1348.248 | 1346.868 | 1345.248 |
| 12.5 | 1366.356 | 1365.684 | 1364.904 | 1363.692 | 1361.844 | 1359.840 | 1357.728 | 1355.532 | 1353.252 | 1350.900 |
| 15.0 | 1376.124 | 1374.828 | 1373.604 | 1371.300 | 1369.296 | 1367.076 | 1364.724 | 1362.360 | 1359.756 | 1356.864 |
| 17.5 | 1382.808 | 1381.356 | 1379.544 | 1377.444 | 1375.344 | 1373.304 | 1370.736 | 1367.220 | 1363.668 | 1360.044 |
| 20.0 | 1388.148 | 1386.000 | 1384.248 | 1382.292 | 1379.496 | 1376.520 | 1372.980 | 1369.392 | 1365.720 | 1361.784 |
| 22.5 | 1392.264 | 1390.356 | 1387.392 | 1384.224 | 1380.936 | 1377.540 | 1374.144 | 1370.664 | 1367.196 | 1361.976 |
| 25.0 | 1394.640 | 1391.784 | 1388.808 | 1385.700 | 1382.364 | 1378.692 | 1373.988 | 1369.140 | 1364.208 | 1359.228 |
| 27.5 | 1395.204 | 1392.444 | 1389.348 | 1386.324 | 1381.500 | 1376.844 | 1372.104 | 1366.836 | 1361.316 | 1355.604 |
| 30.0 | 1394.076 | 1391.580 | 1388.052 | 1383.852 | 1379.196 | 1374.240 | 1368.924 | 1362.756 | 1356.180 | 1349.172 |
| 32.5 | 1392.660 | 1388.448 | 1384.272 | 1379.976 | 1375.524 | 1369.920 | 1363.236 | 1356.156 | 1349.040 | 1341.900 |
| 35.0 | 1387.596 | 1384.176 | 1380.408 | 1375.296 | 1369.104 | 1362.696 | 1356.120 | 1349.484 | 1341.288 | 1332.528 |
| 37.5 | 1382.088 | 1378.512 | 1373.532 | 1368.108 | 1362.216 | 1355.700 | 1347.864 | 1339.764 | 1331.304 | 1322.652 |
| 40.0 | 1375.656 | 1371.048 | 1365.792 | 1359.924 | 1353.300 | 1346.076 | 1338.156 | 1329.576 | 1320.372 | 1310.520 |
| 42.5 | 1365.360 | 1361.088 | 1356.108 | 1349.796 | 1343.268 | 1335.312 | 1326.864 | 1317.192 | 1307.088 | 1296.456 |
| 45.0 | 1355.184 | 1350.192 | 1344.180 | 1337.928 | 1330.836 | 1322.196 | 1313.160 | 1303.368 | 1292.256 | 1280.724 |
| 47.5 | 1343.460 | 1338.036 | 1332.048 | 1325.148 | 1316.544 | 1307.640 | 1297.644 | 1286.904 | 1275.888 | 1263.300 |
| 50.0 | 1330.380 | 1325.052 | 1318.116 | 1310.100 | 1301.184 | 1291.188 | 1281.072 | 1269.168 | 1257.372 | 1245.444 |
| 52.5 | 1316.388 | 1309.752 | 1302.552 | 1294.068 | 1284.204 | 1273.752 | 1262.484 | 1250.592 | 1238.040 | 1224.780 |
| 55.0 | 1299.768 | 1292.952 | 1284.804 | 1275.816 | 1265.964 | 1255.116 | 1243.428 | 1230.936 | 1217.100 | 1203.120 |
| 57.5 | 1280.520 | 1273.104 | 1264.812 | 1256.028 | 1245.960 | 1234.680 | 1222.428 | 1209.228 | 1195.128 | 1180.356 |
| 60.0 | 1259.040 | 1251.240 | 1242.624 | 1233.384 | 1222.992 | 1211.712 | 1200.000 | 1185.684 | 1170.996 | 1155.564 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 62.5 | 1236.984 | 1228.332 | 1218.744 | 1209.396 | 1198.500 | 1187.196 | 1174.284 | 1160.484 | 1145.424 | 1128.816 |
| 65.0 | 1214.280 | 1204.656 | 1194.540 | 1184.160 | 1173.408 | 1161.300 | 1147.872 | 1133.724 | 1118.400 | 1101.204 |
| 67.5 | 1190.016 | 1179.624 | 1169.832 | 1158.588 | 1147.080 | 1134.192 | 1119.984 | 1105.956 | 1089.996 | 1072.200 |
| 70.0 | 1167.360 | 1155.792 | 1144.020 | 1132.416 | 1120.056 | 1106.304 | 1091.724 | 1078.056 | 1061.472 | 1042.584 |
| 72.5 | 1143.864 | 1130.340 | 1117.416 | 1104.708 | 1091.160 | 1076.508 | 1061.952 | 1047.168 | 1030.176 | 1012.056 |
| 75.0 | 1117.128 | 1103.604 | 1089.336 | 1076.172 | 1061.784 | 1046.616 | 1031.112 | 1015.020 | 998.292 | 980.520 |
| 77.5 | 1088.184 | 1074.732 | 1060.200 | 1046.700 | 1032.000 | 1016.412 | 1000.560 | 983.748 | 966.612 | 948.672 |
| 80.0 | 1057.260 | 1043.784 | 1029.384 | 1014.552 | 999.588 | 984.456 | 968.880 | 951.000 | 933.276 | 914.772 |
| 82.5 | 1026.960 | 1012.644 | 998.052 | 982.416 | 967.128 | 951.192 | 935.688 | 916.764 | 898.248 | 880.536 |
| 85.0 | 995.928 | 981.240 | 966.672 | 950.952 | 935.328 | 920.460 | 905.412 | 885.732 | 865.992 | 847.368 |
| 87.5 | 966.552 | 951.852 | 937.260 | 921.696 | 906.648 | 891.672 | 877.476 | 856.728 | 836.520 | 817.500 |
| 90.0 | 990.960 | 976.632 | 962.304 | 948.216 | 933.900 | 917.988 | 901.284 | 882.804 | 863.508 | 843.384 |
| 92.5 | 966.552 | 951.852 | 937.260 | 921.696 | 906.648 | 891.672 | 877.476 | 856.728 | 836.520 | 817.500 |
| 95.0 | 995.928 | 981.240 | 966.672 | 950.952 | 935.328 | 920.460 | 905.412 | 885.732 | 865.992 | 847.368 |
| 97.5 | 1026.960 | 1012.644 | 998.052 | 982.416 | 967.128 | 951.192 | 935.688 | 916.764 | 898.248 | 880.536 |
| 100.0 | 1057.260 | 1043.784 | 1029.384 | 1014.552 | 999.588 | 984.456 | 968.880 | 951.000 | 933.276 | 914.772 |
| 102.5 | 1088.184 | 1074.732 | 1060.200 | 1046.700 | 1032.000 | 1016.412 | 1000.560 | 983.748 | 966.612 | 948.672 |
| 105.0 | 1117.128 | 1103.604 | 1089.336 | 1076.172 | 1061.784 | 1046.616 | 1031.112 | 1015.020 | 998.292 | 980.520 |
| 107.5 | 1143.864 | 1130.340 | 1117.416 | 1104.708 | 1091.160 | 1076.508 | 1061.952 | 1047.168 | 1030.176 | 1012.056 |
| 110.0 | 1167.360 | 1155.792 | 1144.020 | 1132.416 | 1120.056 | 1106.304 | 1091.724 | 1078.056 | 1061.472 | 1042.584 |
| 112.5 | 1190.016 | 1179.624 | 1169.832 | 1158.588 | 1147.080 | 1134.192 | 1119.984 | 1105.956 | 1089.996 | 1072.200 |
| 115.0 | 1214.280 | 1204.656 | 1194.540 | 1184.160 | 1173.408 | 1161.300 | 1147.872 | 1133.724 | 1118.400 | 1101.204 |
| 117.5 | 1236.984 | 1228.332 | 1218.744 | 1209.396 | 1198.500 | 1187.196 | 1174.284 | 1160.484 | 1145.424 | 1128.816 |
| 120.0 | 1259.040 | 1251.240 | 1242.624 | 1233.384 | 1222.992 | 1211.712 | 1200.000 | 1185.684 | 1170.996 | 1155.564 |
| 122.5 | 1280.520 | 1273.104 | 1264.812 | 1256.028 | 1245.960 | 1234.680 | 1222.428 | 1209.228 | 1195.128 | 1180.356 |
| 125.0 | 1299.768 | 1292.952 | 1284.804 | 1275.816 | 1265.964 | 1255.116 | 1243.428 | 1230.936 | 1217.100 | 1203.120 |
| 127.5 | 1316.388 | 1309.752 | 1302.552 | 1294.068 | 1284.204 | 1273.752 | 1262.484 | 1250.592 | 1238.040 | 1224.780 |
| 130.0 | 1330.380 | 1325.052 | 1318.116 | 1310.100 | 1301.184 | 1291.188 | 1281.072 | 1269.168 | 1257.372 | 1245.444 |
| 132.5 | 1343.460 | 1338.036 | 1332.048 | 1325.148 | 1316.544 | 1307.640 | 1297.644 | 1286.904 | 1275.888 | 1263.300 |
| 135.0 | 1355.184 | 1350.192 | 1344.180 | 1337.928 | 1330.836 | 1322.196 | 1313.160 | 1303.368 | 1292.256 | 1280.724 |
| 137.5 | 1365.360 | 1361.088 | 1356.108 | 1349.796 | 1343.268 | 1335.312 | 1326.864 | 1317.192 | 1307.088 | 1296.456 |
| 140.0 | 1375.656 | 1371.048 | 1365.792 | 1359.924 | 1353.300 | 1346.076 | 1338.156 | 1329.576 | 1320.372 | 1310.520 |
| 142.5 | 1382.088 | 1378.512 | 1373.532 | 1368.108 | 1362.216 | 1355.700 | 1347.864 | 1339.764 | 1331.304 | 1322.652 |
| 145.0 | 1387.596 | 1384.176 | 1380.408 | 1375.296 | 1369.104 | 1362.696 | 1356.120 | 1349.484 | 1341.288 | 1332.528 |
| 147.5 | 1392.660 | 1388.448 | 1384.272 | 1379.976 | 1375.524 | 1369.920 | 1363.236 | 1356.156 | 1349.040 | 1341.900 |
| 150.0 | 1394.076 | 1391.568 | 1388.052 | 1383.852 | 1379.196 | 1374.240 | 1368.924 | 1362.756 | 1356.180 | 1349.172 |
| 152.5 | 1395.204 | 1392.444 | 1389.348 | 1386.324 | 1381.500 | 1376.844 | 1372.104 | 1366.836 | 1361.316 | 1355.604 |
| 155.0 | 1394.640 | 1391.784 | 1388.808 | 1385.700 | 1382.364 | 1378.692 | 1373.988 | 1369.140 | 1364.208 | 1359.228 |
| 157.5 | 1392.264 | 1390.356 | 1387.392 | 1384.224 | 1380.936 | 1377.540 | 1374.144 | 1370.664 | 1367.196 | 1361.976 |
| 160.0 | 1388.148 | 1386.000 | 1384.248 | 1382.292 | 1379.496 | 1376.520 | 1372.980 | 1369.392 | 1365.720 | 1361.784 |
| 162.5 | 1382.808 | 1381.356 | 1379.544 | 1377.444 | 1375.344 | 1373.304 | 1370.736 | 1367.220 | 1363.668 | 1360.044 |
| 165.0 | 1376.124 | 1374.828 | 1373.604 | 1371.300 | 1369.296 | 1367.076 | 1364.724 | 1362.360 | 1359.756 | 1356.864 |
| 167.5 | 1366.356 | 1365.684 | 1364.904 | 1363.692 | 1361.844 | 1359.840 | 1357.728 | 1355.532 | 1353.252 | 1350.900 |
| 170.0 | 1356.036 | 1354.416 | 1353.204 | 1352.304 | 1351.368 | 1350.504 | 1349.436 | 1348.248 | 1346.868 | 1345.248 |
| 172.5 | 1347.384 | 1346.292 | 1345.140 | 1343.940 | 1342.692 | 1341.408 | 1340.076 | 1338.816 | 1337.592 | 1336.428 |
| 175.0 | 1338.204 | 1337.556 | 1336.776 | 1335.840 | 1334.892 | 1333.908 | 1332.888 | 1331.832 | 1330.752 | 1329.648 |
| 177.5 | 1329.660 | 1329.036 | 1329.120 | 1329.204 | 1329.288 | 1329.372 | 1329.456 | 1329.540 | 1329.624 | 1329.696 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

Vert. Angles **Horizontal Angles**

| | <u>325.0</u> | <u>327.5</u> | <u>330.0</u> | <u>332.5</u> | <u>335.0</u> | <u>337.5</u> | <u>340.0</u> | <u>342.5</u> | <u>345.0</u> | <u>347.5</u> |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1329.780 | 1329.852 | 1329.936 | 1330.008 | 1330.104 | 1330.188 | 1330.116 | 1330.152 | 1330.200 | 1330.236 |
| 5.0 | 1328.964 | 1327.836 | 1327.560 | 1327.740 | 1327.188 | 1327.188 | 1327.188 | 1327.200 | 1327.236 | 1327.272 |
| 7.5 | 1335.192 | 1333.896 | 1332.528 | 1331.112 | 1329.636 | 1328.616 | 1327.560 | 1327.644 | 1327.716 | 1328.016 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 10.0 | 1343.508 | 1341.720 | 1339.920 | 1337.688 | 1335.420 | 1333.116 | 1330.764 | 1328.376 | 1326.960 | 1326.960 |
| 12.5 | 1348.584 | 1346.388 | 1343.892 | 1341.504 | 1339.068 | 1336.452 | 1333.488 | 1330.476 | 1327.440 | 1324.584 |
| 15.0 | 1353.900 | 1350.600 | 1347.180 | 1343.676 | 1340.316 | 1336.944 | 1333.560 | 1329.840 | 1325.916 | 1322.004 |
| 17.5 | 1356.360 | 1352.340 | 1348.080 | 1343.760 | 1339.620 | 1335.696 | 1331.736 | 1327.776 | 1323.528 | 1318.968 |
| 20.0 | 1357.608 | 1353.360 | 1349.052 | 1343.832 | 1338.300 | 1333.128 | 1327.824 | 1322.868 | 1317.948 | 1312.692 |
| 22.5 | 1357.284 | 1351.536 | 1345.980 | 1340.412 | 1334.904 | 1328.388 | 1322.112 | 1316.316 | 1310.664 | 1305.060 |
| 25.0 | 1354.176 | 1348.416 | 1342.356 | 1336.080 | 1329.084 | 1322.172 | 1314.684 | 1307.604 | 1300.716 | 1294.176 |
| 27.5 | 1349.124 | 1342.548 | 1335.732 | 1328.748 | 1320.864 | 1313.100 | 1305.684 | 1297.200 | 1289.400 | 1282.080 |
| 30.0 | 1341.972 | 1334.784 | 1327.596 | 1320.204 | 1311.720 | 1302.792 | 1293.852 | 1284.936 | 1275.528 | 1267.188 |
| 32.5 | 1334.724 | 1325.928 | 1317.192 | 1308.504 | 1300.008 | 1290.216 | 1280.472 | 1270.836 | 1260.900 | 1251.336 |
| 35.0 | 1323.672 | 1314.792 | 1305.696 | 1296.312 | 1286.760 | 1276.872 | 1265.724 | 1254.636 | 1243.728 | 1232.892 |
| 37.5 | 1313.076 | 1302.864 | 1292.484 | 1281.984 | 1271.040 | 1260.240 | 1249.176 | 1237.128 | 1225.356 | 1213.824 |
| 40.0 | 1299.984 | 1288.656 | 1277.136 | 1266.024 | 1254.768 | 1242.948 | 1231.044 | 1218.216 | 1205.100 | 1192.320 |
| 42.5 | 1285.620 | 1273.080 | 1260.732 | 1248.252 | 1235.940 | 1223.544 | 1210.728 | 1197.588 | 1183.860 | 1170.180 |
| 45.0 | 1268.448 | 1255.740 | 1242.528 | 1229.316 | 1215.996 | 1203.060 | 1189.584 | 1176.096 | 1161.372 | 1146.540 |
| 47.5 | 1250.580 | 1237.308 | 1223.460 | 1209.324 | 1195.284 | 1181.184 | 1166.868 | 1152.120 | 1137.036 | 1121.628 |
| 50.0 | 1231.632 | 1217.328 | 1202.976 | 1188.180 | 1172.628 | 1157.748 | 1142.592 | 1127.508 | 1111.596 | 1095.480 |
| 52.5 | 1210.908 | 1196.496 | 1180.860 | 1165.044 | 1149.012 | 1133.184 | 1117.608 | 1101.804 | 1085.040 | 1068.252 |
| 55.0 | 1188.816 | 1173.336 | 1157.640 | 1141.320 | 1124.688 | 1107.696 | 1091.508 | 1074.732 | 1057.896 | 1040.592 |
| 57.5 | 1164.744 | 1148.880 | 1132.428 | 1115.664 | 1098.060 | 1080.924 | 1064.148 | 1047.012 | 1029.108 | 1011.324 |
| 60.0 | 1139.220 | 1122.480 | 1105.536 | 1087.776 | 1069.704 | 1051.644 | 1034.232 | 1016.580 | 999.180 | 981.324 |
| 62.5 | 1111.884 | 1094.784 | 1077.564 | 1059.672 | 1041.540 | 1021.524 | 1002.756 | 984.912 | 966.612 | 948.312 |
| 65.0 | 1083.888 | 1065.900 | 1048.260 | 1031.256 | 1010.856 | 990.528 | 971.076 | 952.080 | 932.808 | 914.076 |
| 67.5 | 1054.476 | 1035.948 | 1017.732 | 999.576 | 980.100 | 959.928 | 939.492 | 920.184 | 900.660 | 881.400 |
| 70.0 | 1024.500 | 1007.112 | 989.292 | 970.632 | 951.144 | 930.252 | 909.552 | 889.668 | 869.064 | 848.688 |
| 72.5 | 994.248 | 977.508 | 960.132 | 942.276 | 921.816 | 899.868 | 878.424 | 858.444 | 837.360 | 817.284 |
| 75.0 | 962.964 | 947.028 | 929.868 | 910.644 | 888.672 | 867.300 | 845.292 | 825.084 | 804.480 | 784.440 |
| 77.5 | 930.912 | 915.204 | 897.696 | 876.336 | 854.220 | 833.556 | 811.512 | 791.652 | 770.544 | 750.240 |
| 80.0 | 896.952 | 880.020 | 862.356 | 841.596 | 820.584 | 799.476 | 777.756 | 757.896 | 736.524 | 716.436 |
| 82.5 | 862.788 | 845.232 | 827.436 | 808.200 | 789.084 | 767.148 | 744.828 | 724.656 | 703.908 | 683.820 |
| 85.0 | 829.644 | 810.612 | 792.804 | 774.372 | 756.324 | 733.896 | 711.192 | 690.816 | 670.560 | 649.980 |
| 87.5 | 798.804 | 780.324 | 761.976 | 744.408 | 726.876 | 703.812 | 681.000 | 660.624 | 640.416 | 619.236 |
| 90.0 | 823.008 | 803.436 | 784.560 | 765.792 | 741.636 | 717.300 | 693.300 | 669.960 | 647.196 | 624.360 |
| 92.5 | 798.804 | 780.324 | 761.976 | 744.408 | 726.876 | 703.812 | 681.000 | 660.624 | 640.416 | 619.236 |
| 95.0 | 829.644 | 810.612 | 792.804 | 774.372 | 756.324 | 733.896 | 711.192 | 690.816 | 670.560 | 649.980 |
| 97.5 | 862.788 | 845.232 | 827.436 | 808.200 | 789.084 | 767.148 | 744.828 | 724.656 | 703.908 | 683.820 |
| 100.0 | 896.952 | 880.020 | 862.356 | 841.596 | 820.584 | 799.476 | 777.756 | 757.896 | 736.524 | 716.436 |
| 102.5 | 930.912 | 915.204 | 897.696 | 876.336 | 854.220 | 833.556 | 811.512 | 791.652 | 770.544 | 750.240 |
| 105.0 | 962.964 | 947.028 | 929.868 | 910.644 | 888.672 | 867.300 | 845.292 | 825.084 | 804.480 | 784.440 |
| 107.5 | 994.248 | 977.508 | 960.132 | 942.276 | 921.816 | 899.868 | 878.424 | 858.444 | 837.360 | 817.284 |
| 110.0 | 1024.500 | 1007.112 | 989.292 | 970.632 | 951.144 | 930.252 | 909.552 | 889.668 | 869.064 | 848.688 |
| 112.5 | 1054.476 | 1035.948 | 1017.732 | 999.576 | 980.100 | 959.928 | 939.492 | 920.184 | 900.660 | 881.400 |
| 115.0 | 1083.888 | 1065.900 | 1048.260 | 1031.256 | 1010.856 | 990.528 | 971.076 | 952.080 | 932.808 | 914.076 |
| 117.5 | 1111.884 | 1094.784 | 1077.564 | 1059.672 | 1041.540 | 1021.524 | 1002.756 | 984.912 | 966.612 | 948.312 |
| 120.0 | 1139.220 | 1122.480 | 1105.536 | 1087.776 | 1069.704 | 1051.644 | 1034.232 | 1016.580 | 999.180 | 981.324 |
| 122.5 | 1164.744 | 1148.880 | 1132.428 | 1115.664 | 1098.060 | 1080.924 | 1064.148 | 1047.012 | 1029.108 | 1011.324 |
| 125.0 | 1188.816 | 1173.336 | 1157.640 | 1141.320 | 1124.688 | 1107.696 | 1091.508 | 1074.732 | 1057.896 | 1040.592 |
| 127.5 | 1210.908 | 1196.496 | 1180.860 | 1165.044 | 1149.012 | 1133.184 | 1117.608 | 1101.804 | 1085.040 | 1068.252 |
| 130.0 | 1231.632 | 1217.328 | 1202.976 | 1188.180 | 1172.628 | 1157.748 | 1142.592 | 1127.508 | 1111.596 | 1095.480 |
| 132.5 | 1250.580 | 1237.308 | 1223.460 | 1209.324 | 1195.284 | 1181.184 | 1166.868 | 1152.120 | 1137.036 | 1121.628 |
| 135.0 | 1268.448 | 1255.740 | 1242.528 | 1229.316 | 1215.996 | 1203.060 | 1189.584 | 1176.096 | 1161.372 | 1146.540 |
| 137.5 | 1285.620 | 1273.080 | 1260.732 | 1248.252 | 1235.940 | 1223.544 | 1210.728 | 1197.588 | 1183.860 | 1170.180 |
| 140.0 | 1299.984 | 1288.656 | 1277.136 | 1266.024 | 1254.768 | 1242.948 | 1231.044 | 1218.216 | 1205.100 | 1192.320 |
| 142.5 | 1313.076 | 1302.864 | 1292.484 | 1281.984 | 1271.040 | 1260.240 | 1249.176 | 1237.128 | 1225.356 | 1213.824 |
| 145.0 | 1323.672 | 1314.792 | 1305.696 | 1296.312 | 1286.760 | 1276.872 | 1265.724 | 1254.636 | 1243.728 | 1232.892 |
| 147.5 | 1334.724 | 1325.928 | 1317.192 | 1308.504 | 1300.008 | 1290.216 | 1280.472 | 1270.836 | 1260.900 | 1251.336 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 150.0 | 1341.972 | 1334.784 | 1327.596 | 1320.204 | 1311.720 | 1302.792 | 1293.852 | 1284.936 | 1275.528 | 1267.188 |
| 152.5 | 1349.124 | 1342.548 | 1335.732 | 1328.748 | 1320.864 | 1313.100 | 1305.684 | 1297.200 | 1289.400 | 1282.080 |
| 155.0 | 1354.176 | 1348.404 | 1342.356 | 1336.080 | 1329.084 | 1322.172 | 1314.684 | 1307.604 | 1300.716 | 1294.176 |
| 157.5 | 1357.284 | 1351.536 | 1345.980 | 1340.412 | 1334.904 | 1328.388 | 1322.112 | 1316.316 | 1310.664 | 1305.060 |
| 160.0 | 1357.608 | 1353.360 | 1349.052 | 1343.832 | 1338.300 | 1333.128 | 1327.824 | 1322.868 | 1317.948 | 1312.692 |
| 162.5 | 1356.360 | 1352.340 | 1348.080 | 1343.760 | 1339.620 | 1335.696 | 1331.736 | 1327.776 | 1323.528 | 1318.968 |
| 165.0 | 1353.900 | 1350.600 | 1347.180 | 1343.676 | 1340.316 | 1336.944 | 1333.560 | 1329.840 | 1325.916 | 1322.004 |
| 167.5 | 1348.584 | 1346.388 | 1343.892 | 1341.504 | 1339.068 | 1336.452 | 1333.488 | 1330.476 | 1327.440 | 1324.584 |
| 170.0 | 1343.508 | 1341.720 | 1339.920 | 1337.688 | 1335.420 | 1333.116 | 1330.764 | 1328.376 | 1326.960 | 1326.960 |
| 172.5 | 1335.192 | 1333.896 | 1332.528 | 1331.112 | 1329.636 | 1328.616 | 1327.560 | 1327.644 | 1327.716 | 1328.016 |
| 175.0 | 1328.964 | 1327.836 | 1327.560 | 1327.740 | 1327.188 | 1327.188 | 1327.188 | 1327.200 | 1327.236 | 1327.272 |
| 177.5 | 1329.780 | 1329.852 | 1329.936 | 1330.008 | 1330.104 | 1330.188 | 1330.116 | 1330.152 | 1330.200 | 1330.236 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

**Vert.
Angles**

Horizontal Angles

| | <u>350.0</u> | <u>352.5</u> | <u>355.0</u> | <u>357.5</u> | <u>360.0</u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |
| 2.5 | 1330.284 | 1330.320 | 1330.368 | 1330.416 | 1330.452 |
| 5.0 | 1327.308 | 1327.368 | 1327.440 | 1327.512 | 1327.596 |
| 7.5 | 1328.100 | 1328.268 | 1328.424 | 1328.568 | 1328.712 |
| 10.0 | 1326.684 | 1326.828 | 1326.972 | 1327.128 | 1327.296 |
| 12.5 | 1324.752 | 1324.536 | 1324.860 | 1324.812 | 1325.016 |
| 15.0 | 1318.692 | 1318.764 | 1318.620 | 1318.812 | 1319.040 |
| 17.5 | 1314.408 | 1312.272 | 1312.248 | 1312.476 | 1312.752 |
| 20.0 | 1307.220 | 1302.132 | 1301.988 | 1302.180 | 1302.468 |
| 22.5 | 1298.892 | 1292.724 | 1290.756 | 1291.092 | 1291.452 |
| 25.0 | 1287.504 | 1280.412 | 1276.164 | 1276.296 | 1276.608 |
| 27.5 | 1274.904 | 1267.272 | 1260.528 | 1260.588 | 1260.900 |
| 30.0 | 1259.088 | 1250.760 | 1242.672 | 1241.964 | 1242.264 |
| 32.5 | 1242.672 | 1233.528 | 1224.552 | 1222.272 | 1222.548 |
| 35.0 | 1222.908 | 1213.392 | 1203.264 | 1199.892 | 1200.180 |
| 37.5 | 1202.736 | 1192.296 | 1181.544 | 1176.564 | 1176.864 |
| 40.0 | 1180.260 | 1168.992 | 1157.664 | 1151.124 | 1151.448 |
| 42.5 | 1157.268 | 1145.280 | 1133.172 | 1124.988 | 1125.312 |
| 45.0 | 1132.704 | 1119.636 | 1107.048 | 1097.232 | 1097.580 |
| 47.5 | 1106.772 | 1092.996 | 1079.640 | 1068.372 | 1069.008 |
| 50.0 | 1079.364 | 1064.832 | 1050.684 | 1038.576 | 1038.204 |
| 52.5 | 1051.344 | 1036.140 | 1021.296 | 1008.576 | 1007.172 |
| 55.0 | 1022.892 | 1006.608 | 990.900 | 977.616 | 975.228 |
| 57.5 | 993.072 | 976.080 | 959.736 | 945.876 | 942.516 |
| 60.0 | 962.688 | 944.760 | 927.684 | 913.200 | 908.772 |
| 62.5 | 930.060 | 912.000 | 894.396 | 879.504 | 873.936 |
| 65.0 | 895.668 | 878.832 | 860.748 | 845.424 | 838.644 |
| 67.5 | 861.540 | 844.368 | 827.124 | 811.836 | 804.036 |
| 70.0 | 828.444 | 810.024 | 792.924 | 778.164 | 769.260 |
| 72.5 | 795.852 | 775.560 | 757.092 | 743.316 | 733.788 |
| 75.0 | 762.456 | 742.188 | 721.884 | 707.772 | 698.076 |
| 77.5 | 729.192 | 708.816 | 687.240 | 671.136 | 661.404 |
| 80.0 | 694.752 | 674.340 | 653.580 | 635.568 | 625.080 |
| 82.5 | 662.040 | 642.348 | 620.592 | 602.388 | 589.272 |
| 85.0 | 628.644 | 608.364 | 586.728 | 569.796 | 554.136 |
| 87.5 | 597.672 | 578.052 | 557.628 | 540.276 | 523.104 |
| 90.0 | 602.148 | 578.628 | 556.812 | 535.656 | 536.748 |
| 92.5 | 597.672 | 578.052 | 557.628 | 540.276 | 523.104 |
| 95.0 | 628.644 | 608.364 | 586.728 | 569.796 | 554.136 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 97.5 | 662.040 | 642.348 | 620.592 | 602.388 | 589.272 |
| 100.0 | 694.752 | 674.340 | 653.580 | 635.568 | 625.080 |
| 102.5 | 729.192 | 708.816 | 687.240 | 671.136 | 661.404 |
| 105.0 | 762.456 | 742.188 | 721.884 | 707.772 | 698.076 |
| 107.5 | 795.852 | 775.560 | 757.092 | 743.316 | 733.788 |
| 110.0 | 828.444 | 810.024 | 792.924 | 778.164 | 769.260 |
| 112.5 | 861.540 | 844.368 | 827.124 | 811.836 | 804.036 |
| 115.0 | 895.668 | 878.832 | 860.748 | 845.424 | 838.644 |
| 117.5 | 930.060 | 912.000 | 894.396 | 879.504 | 873.936 |
| 120.0 | 962.688 | 944.760 | 927.684 | 913.200 | 908.772 |
| 122.5 | 993.072 | 976.080 | 959.736 | 945.876 | 942.516 |
| 125.0 | 1022.892 | 1006.608 | 990.900 | 977.616 | 975.228 |
| 127.5 | 1051.344 | 1036.140 | 1021.296 | 1008.576 | 1007.172 |
| 130.0 | 1079.364 | 1064.832 | 1050.684 | 1038.576 | 1038.204 |
| 132.5 | 1106.772 | 1092.996 | 1079.640 | 1068.372 | 1069.008 |
| 135.0 | 1132.704 | 1119.636 | 1107.048 | 1097.232 | 1097.580 |
| 137.5 | 1157.268 | 1145.280 | 1133.172 | 1124.988 | 1125.312 |
| 140.0 | 1180.260 | 1168.992 | 1157.664 | 1151.124 | 1151.448 |
| 142.5 | 1202.736 | 1192.296 | 1181.544 | 1176.564 | 1176.864 |
| 145.0 | 1222.908 | 1213.392 | 1203.264 | 1199.892 | 1200.180 |
| 147.5 | 1242.672 | 1233.528 | 1224.552 | 1222.272 | 1222.548 |
| 150.0 | 1259.088 | 1250.760 | 1242.672 | 1241.964 | 1242.264 |
| 152.5 | 1274.904 | 1267.272 | 1260.528 | 1260.588 | 1260.900 |
| 155.0 | 1287.504 | 1280.412 | 1276.164 | 1276.296 | 1276.608 |
| 157.5 | 1298.892 | 1292.724 | 1290.756 | 1291.092 | 1291.452 |
| 160.0 | 1307.220 | 1302.132 | 1301.988 | 1302.180 | 1302.468 |
| 162.5 | 1314.408 | 1312.272 | 1312.248 | 1312.476 | 1312.752 |
| 165.0 | 1318.692 | 1318.764 | 1318.620 | 1318.812 | 1319.040 |
| 167.5 | 1324.752 | 1324.536 | 1324.860 | 1324.812 | 1325.016 |
| 170.0 | 1326.684 | 1326.828 | 1326.972 | 1327.128 | 1327.296 |
| 172.5 | 1328.100 | 1328.268 | 1328.424 | 1328.568 | 1328.712 |
| 175.0 | 1327.308 | 1327.368 | 1327.440 | 1327.512 | 1327.596 |
| 177.5 | 1330.284 | 1330.320 | 1330.368 | 1330.416 | 1330.452 |
| 180.0 | 1329.648 | 1329.648 | 1329.648 | 1329.648 | 1329.648 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 512.43 | N.A. | 3.60 |
| 0-30 | 1140.26 | N.A. | 8.00 |
| 0-40 | 1974.93 | N.A. | 13.80 |
| 0-60 | 4040.05 | N.A. | 28.30 |
| 0-80 | 6184.25 | N.A. | 43.30 |
| 0-90 | 7139.03 | N.A. | 50.00 |
| 10-90 | 7011.28 | N.A. | 49.10 |
| 20-40 | 1462.51 | N.A. | 10.20 |
| 20-50 | 2450.44 | N.A. | 17.20 |
| 40-70 | 3160.08 | N.A. | 22.10 |
| 60-80 | 2144.2 | N.A. | 15.00 |
| 70-80 | 1049.24 | N.A. | 7.30 |
| 80-90 | 954.78 | N.A. | 6.70 |
| 90-110 | 2004.02 | N.A. | 14.00 |
| 90-120 | 3098.98 | N.A. | 21.70 |
| 90-130 | 4176.16 | N.A. | 29.20 |
| 90-150 | 5998.77 | N.A. | 42.00 |
| 90-180 | 7139.03 | N.A. | 50.00 |
| 110-180 | 5135.01 | N.A. | 36.00 |
| 0-180 | 14278.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 127.75 |
| 10-20 | 384.68 |
| 20-30 | 627.84 |
| 30-40 | 834.67 |
| 40-50 | 987.93 |
| 50-60 | 1077.18 |
| 60-70 | 1094.96 |
| 70-80 | 1049.24 |
| 80-90 | 954.78 |
| 90-100 | 954.78 |
| 100-110 | 1049.24 |
| 110-120 | 1094.96 |
| 120-130 | 1077.18 |
| 130-140 | 987.93 |
| 140-150 | 834.67 |
| 150-160 | 627.84 |
| 160-170 | 384.68 |
| 170-180 | 127.75 |

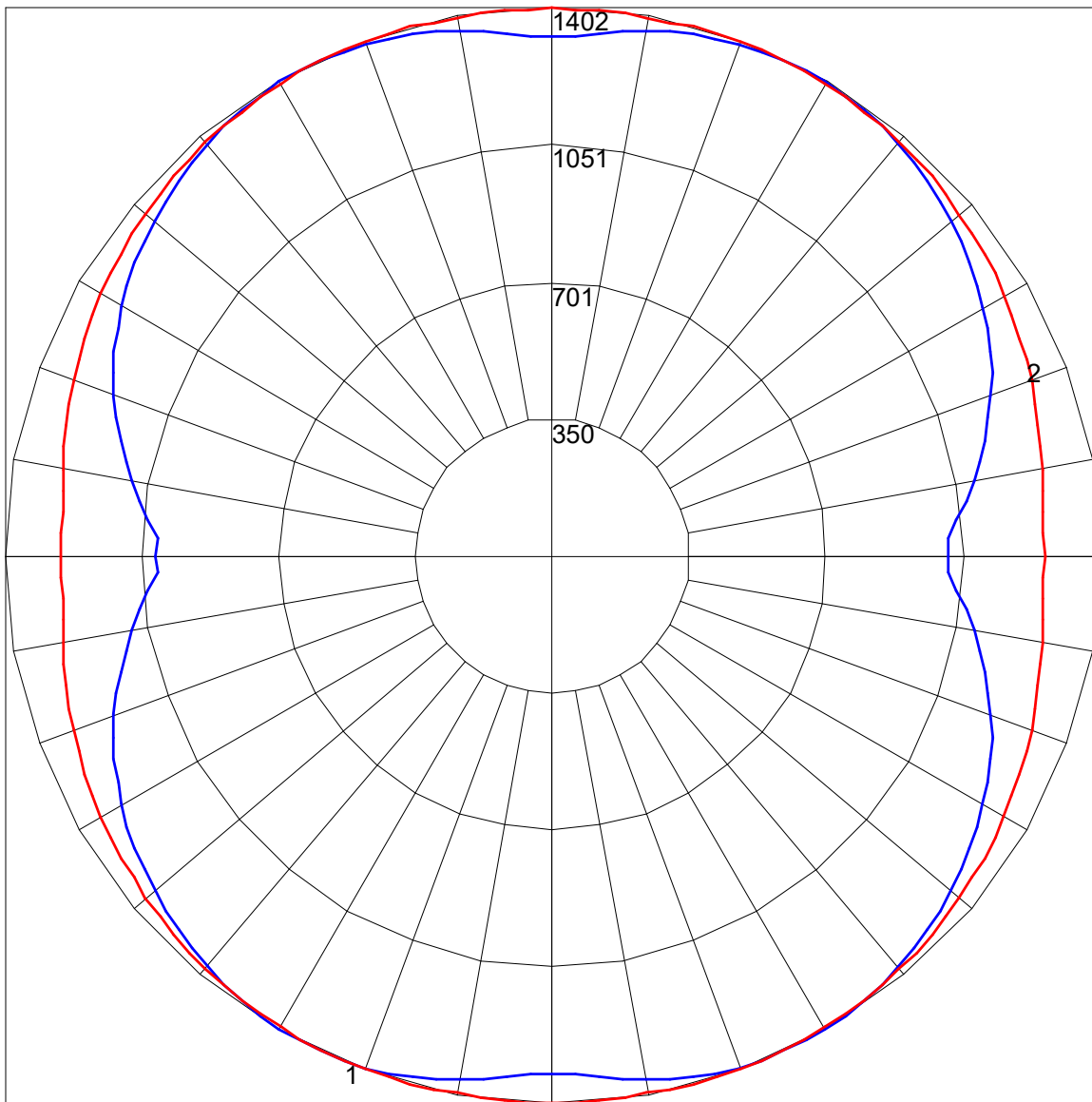
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-48-LED4-MO-SAL.IES

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 95 | 89 | 84 | 79 | 87 | 82 | 77 | 73 | 68 | 65 | 62 | 56 | 53 | 51 | 44 | 43 | 41 | 35 |
| 2 | 85 | 76 | 68 | 62 | 77 | 70 | 63 | 57 | 58 | 53 | 49 | 47 | 43 | 40 | 37 | 35 | 32 | 27 |
| 3 | 77 | 66 | 57 | 50 | 70 | 60 | 53 | 47 | 50 | 44 | 39 | 41 | 36 | 33 | 32 | 29 | 26 | 22 |
| 4 | 70 | 57 | 48 | 42 | 63 | 53 | 45 | 39 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 18 |
| 5 | 64 | 51 | 42 | 35 | 58 | 47 | 39 | 33 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 15 |
| 6 | 58 | 45 | 36 | 30 | 53 | 42 | 34 | 28 | 35 | 28 | 24 | 28 | 23 | 20 | 22 | 19 | 16 | 13 |
| 7 | 54 | 41 | 32 | 26 | 49 | 37 | 30 | 24 | 31 | 25 | 21 | 26 | 21 | 17 | 20 | 17 | 14 | 11 |
| 8 | 50 | 37 | 28 | 23 | 45 | 34 | 26 | 21 | 28 | 22 | 18 | 23 | 19 | 15 | 19 | 15 | 12 | 10 |
| 9 | 46 | 33 | 25 | 20 | 42 | 31 | 24 | 19 | 26 | 20 | 16 | 21 | 17 | 13 | 17 | 13 | 11 | 8 |
| 10 | 43 | 30 | 23 | 18 | 40 | 28 | 21 | 17 | 24 | 18 | 14 | 20 | 15 | 12 | 16 | 12 | 10 | 8 |

POLAR GRAPH



Maximum Candela = 1401.84 Located At Horizontal Angle = 95, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (95 - 275) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)