



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_39W_3500K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2024-03-19

[TEST DATE] 2/23/2024

[MANUFAC] H.E. WILLIAMS, INC.

[LUMCAT] FS-4-LS-8CS-DIM-UNV_39W_3500K

[LUMINAIRE] 45 inch Lumen/Wattage selectable, CCT selectable, LED stri

[MORE] p w/frosted acrylic lens

[LAMP] LED

[BALLAST] 0-10V DIMMING DRIVER

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5733 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 146 |
| Total Luminaire Watts | 39.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.18 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.34 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 3.71 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.04 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 24713 | 23384 | 24240 |
| 55 | 22494 | 21649 | 23064 |
| 65 | 19816 | 19749 | 21816 |
| 75 | 16317 | 17705 | 20281 |
| 85 | 11283 | 16299 | 19304 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0.0 | 1804.269 | 1804.269 | 1804.269 | 1804.269 | 1804.269 | 1804.269 | 1804.269 | 1804.269 | 1804.269 |
| 0.5 | 1780.529 | 1811.251 | 1807.062 | 1807.062 | 1798.683 | 1808.458 | 1807.062 | 1814.044 | 1781.925 |
| 1.0 | 1779.132 | 1809.855 | 1804.269 | 1808.458 | 1797.286 | 1808.458 | 1804.269 | 1812.648 | 1781.925 |
| 1.5 | 1781.925 | 1809.855 | 1801.476 | 1807.062 | 1798.683 | 1808.458 | 1804.269 | 1811.251 | 1781.925 |
| 2.0 | 1781.925 | 1808.458 | 1804.269 | 1808.458 | 1797.286 | 1811.251 | 1804.269 | 1812.648 | 1780.529 |
| 2.5 | 1780.529 | 1807.062 | 1801.476 | 1807.062 | 1797.286 | 1805.665 | 1804.269 | 1809.855 | 1777.736 |
| 3.0 | 1776.339 | 1807.062 | 1800.079 | 1807.062 | 1797.286 | 1807.062 | 1802.872 | 1811.251 | 1777.736 |
| 3.5 | 1777.736 | 1804.269 | 1798.683 | 1802.872 | 1794.493 | 1804.269 | 1801.476 | 1807.062 | 1779.132 |
| 4.0 | 1773.546 | 1801.476 | 1795.890 | 1804.269 | 1795.890 | 1802.872 | 1800.079 | 1808.458 | 1774.943 |
| 4.5 | 1774.943 | 1797.286 | 1795.890 | 1801.476 | 1793.097 | 1802.872 | 1797.286 | 1805.665 | 1772.150 |
| 5.0 | 1767.960 | 1795.890 | 1791.700 | 1800.079 | 1793.097 | 1801.476 | 1795.890 | 1802.872 | 1772.150 |
| 5.5 | 1766.564 | 1795.890 | 1790.304 | 1798.683 | 1793.097 | 1800.079 | 1795.890 | 1800.079 | 1767.960 |
| 6.0 | 1763.771 | 1791.700 | 1787.511 | 1797.286 | 1788.907 | 1797.286 | 1791.700 | 1800.079 | 1766.564 |
| 6.5 | 1760.978 | 1788.907 | 1786.114 | 1793.097 | 1786.114 | 1795.890 | 1790.304 | 1797.286 | 1763.771 |
| 7.0 | 1756.788 | 1784.718 | 1783.322 | 1788.907 | 1783.322 | 1793.097 | 1788.907 | 1795.890 | 1765.167 |
| 7.5 | 1755.392 | 1783.322 | 1779.132 | 1788.907 | 1780.529 | 1790.304 | 1784.718 | 1793.097 | 1759.581 |
| 8.0 | 1752.599 | 1779.132 | 1776.339 | 1784.718 | 1780.529 | 1788.907 | 1783.322 | 1790.304 | 1756.788 |
| 8.5 | 1748.409 | 1774.943 | 1772.150 | 1780.529 | 1774.943 | 1784.718 | 1780.529 | 1786.114 | 1751.202 |
| 9.0 | 1745.616 | 1770.753 | 1766.564 | 1779.132 | 1772.150 | 1780.529 | 1776.339 | 1784.718 | 1748.409 |
| 9.5 | 1737.237 | 1766.564 | 1766.564 | 1776.339 | 1769.357 | 1779.132 | 1773.546 | 1779.132 | 1744.220 |
| 10.0 | 1735.841 | 1765.167 | 1759.581 | 1767.960 | 1767.960 | 1774.943 | 1770.753 | 1776.339 | 1742.823 |
| 10.5 | 1726.065 | 1756.788 | 1756.788 | 1767.960 | 1760.978 | 1772.150 | 1766.564 | 1770.753 | 1735.841 |
| 11.0 | 1724.669 | 1755.392 | 1752.599 | 1762.374 | 1758.185 | 1767.960 | 1759.581 | 1763.771 | 1735.841 |
| 11.5 | 1719.083 | 1748.409 | 1747.013 | 1758.185 | 1755.392 | 1762.374 | 1756.788 | 1762.374 | 1728.858 |
| 12.0 | 1713.497 | 1742.823 | 1744.220 | 1753.995 | 1749.806 | 1759.581 | 1751.202 | 1756.788 | 1721.876 |
| 12.5 | 1706.514 | 1737.237 | 1738.634 | 1751.202 | 1749.806 | 1752.599 | 1747.013 | 1749.806 | 1719.083 |
| 13.0 | 1703.721 | 1734.444 | 1731.651 | 1745.616 | 1744.220 | 1749.806 | 1742.823 | 1747.013 | 1710.704 |
| 13.5 | 1699.532 | 1727.462 | 1728.858 | 1738.634 | 1738.634 | 1744.220 | 1738.634 | 1742.823 | 1705.118 |
| 14.0 | 1691.153 | 1720.479 | 1721.876 | 1734.444 | 1733.048 | 1740.030 | 1731.651 | 1737.237 | 1699.532 |
| 14.5 | 1681.378 | 1713.497 | 1714.893 | 1728.858 | 1727.462 | 1733.048 | 1727.462 | 1731.651 | 1695.342 |
| 15.0 | 1677.188 | 1709.307 | 1712.100 | 1726.065 | 1721.876 | 1728.858 | 1720.479 | 1724.669 | 1688.360 |
| 15.5 | 1671.602 | 1705.118 | 1703.721 | 1719.083 | 1716.290 | 1721.876 | 1716.290 | 1717.686 | 1682.774 |
| 16.0 | 1667.413 | 1695.342 | 1698.135 | 1714.893 | 1709.307 | 1716.290 | 1707.911 | 1712.100 | 1672.999 |
| 16.5 | 1654.844 | 1689.756 | 1689.756 | 1709.307 | 1703.721 | 1710.704 | 1700.928 | 1705.118 | 1671.602 |
| 17.0 | 1647.862 | 1682.774 | 1685.567 | 1702.325 | 1698.135 | 1702.325 | 1695.342 | 1699.532 | 1661.827 |
| 17.5 | 1640.879 | 1674.395 | 1677.188 | 1693.946 | 1691.153 | 1695.342 | 1686.963 | 1693.946 | 1657.637 |
| 18.0 | 1636.690 | 1664.620 | 1668.809 | 1685.567 | 1685.567 | 1686.963 | 1681.378 | 1682.774 | 1649.258 |
| 18.5 | 1628.311 | 1659.034 | 1661.827 | 1681.378 | 1678.585 | 1681.378 | 1672.999 | 1677.188 | 1642.276 |
| 19.0 | 1617.139 | 1650.655 | 1653.448 | 1672.999 | 1670.206 | 1674.395 | 1667.413 | 1668.809 | 1633.897 |
| 19.5 | 1611.553 | 1643.672 | 1646.465 | 1666.016 | 1661.827 | 1666.016 | 1660.430 | 1661.827 | 1624.121 |
| 20.0 | 1603.174 | 1633.897 | 1638.086 | 1657.637 | 1654.844 | 1660.430 | 1652.051 | 1653.448 | 1617.139 |
| 20.5 | 1593.398 | 1625.518 | 1631.104 | 1650.655 | 1647.862 | 1650.655 | 1645.069 | 1645.069 | 1610.156 |
| 21.0 | 1586.416 | 1617.139 | 1621.328 | 1640.879 | 1639.483 | 1645.069 | 1633.897 | 1639.483 | 1598.984 |
| 21.5 | 1575.244 | 1608.760 | 1612.949 | 1632.500 | 1633.897 | 1638.086 | 1628.311 | 1629.707 | 1592.002 |
| 22.0 | 1568.262 | 1601.777 | 1605.967 | 1624.121 | 1625.518 | 1628.311 | 1619.932 | 1621.328 | 1583.623 |
| 22.5 | 1555.693 | 1589.209 | 1596.191 | 1617.139 | 1619.932 | 1624.121 | 1611.553 | 1611.553 | 1572.451 |
| 23.0 | 1547.314 | 1580.830 | 1587.812 | 1607.363 | 1611.553 | 1614.346 | 1604.570 | 1603.174 | 1566.865 |
| 23.5 | 1540.332 | 1571.055 | 1580.830 | 1600.381 | 1605.967 | 1610.156 | 1596.191 | 1594.795 | 1557.090 |
| 24.0 | 1526.367 | 1562.676 | 1571.055 | 1592.002 | 1597.588 | 1601.777 | 1587.812 | 1582.227 | 1543.125 |
| 24.5 | 1520.781 | 1554.297 | 1561.279 | 1585.020 | 1590.605 | 1594.795 | 1578.037 | 1573.848 | 1534.746 |
| 25.0 | 1509.609 | 1540.332 | 1552.900 | 1578.037 | 1586.416 | 1587.812 | 1569.658 | 1565.469 | 1526.367 |
| 25.5 | 1497.040 | 1531.953 | 1540.332 | 1571.055 | 1579.434 | 1579.434 | 1562.676 | 1557.090 | 1517.988 |
| 26.0 | 1485.869 | 1523.574 | 1531.953 | 1559.883 | 1571.055 | 1571.055 | 1552.900 | 1547.314 | 1505.419 |
| 26.5 | 1476.093 | 1511.005 | 1523.574 | 1554.297 | 1564.072 | 1562.676 | 1543.125 | 1536.142 | 1497.040 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.0 | 1467.714 | 1501.230 | 1515.195 | 1544.521 | 1552.900 | 1554.297 | 1533.349 | 1526.367 | 1485.869 |
| 27.5 | 1455.146 | 1492.851 | 1505.419 | 1537.539 | 1545.918 | 1544.521 | 1524.970 | 1516.591 | 1474.697 |
| 28.0 | 1445.370 | 1478.886 | 1492.851 | 1529.160 | 1538.935 | 1536.142 | 1513.798 | 1505.419 | 1464.921 |
| 28.5 | 1435.595 | 1469.111 | 1484.472 | 1519.384 | 1530.556 | 1527.763 | 1505.419 | 1495.644 | 1455.146 |
| 29.0 | 1424.423 | 1457.939 | 1474.697 | 1511.005 | 1522.177 | 1517.988 | 1495.644 | 1485.869 | 1442.577 |
| 29.5 | 1413.251 | 1448.163 | 1464.921 | 1501.230 | 1512.402 | 1509.609 | 1487.265 | 1473.300 | 1431.405 |
| 30.0 | 1399.286 | 1436.991 | 1455.146 | 1491.454 | 1504.023 | 1501.230 | 1476.093 | 1463.525 | 1418.837 |
| 30.5 | 1388.254 | 1425.819 | 1443.974 | 1483.076 | 1495.644 | 1491.454 | 1466.318 | 1452.353 | 1407.665 |
| 31.0 | 1376.523 | 1413.251 | 1434.198 | 1473.300 | 1487.265 | 1483.076 | 1455.146 | 1441.181 | 1399.286 |
| 31.5 | 1367.725 | 1400.682 | 1424.423 | 1463.525 | 1477.490 | 1474.697 | 1446.767 | 1430.009 | 1384.204 |
| 32.0 | 1353.062 | 1392.024 | 1413.251 | 1455.146 | 1469.111 | 1466.318 | 1436.991 | 1418.837 | 1373.870 |
| 32.5 | 1343.566 | 1379.456 | 1402.079 | 1445.370 | 1460.732 | 1456.542 | 1424.423 | 1406.268 | 1364.234 |
| 33.0 | 1329.880 | 1368.284 | 1389.790 | 1436.991 | 1453.749 | 1448.163 | 1413.251 | 1393.979 | 1348.593 |
| 33.5 | 1317.591 | 1356.414 | 1379.316 | 1428.612 | 1443.974 | 1436.991 | 1403.475 | 1383.226 | 1338.678 |
| 34.0 | 1306.419 | 1344.683 | 1371.216 | 1417.440 | 1435.595 | 1428.612 | 1394.538 | 1372.753 | 1328.484 |
| 34.5 | 1293.432 | 1331.556 | 1359.346 | 1407.665 | 1427.216 | 1418.837 | 1383.506 | 1358.648 | 1314.240 |
| 35.0 | 1283.237 | 1320.244 | 1349.431 | 1399.286 | 1417.440 | 1409.061 | 1373.032 | 1347.755 | 1304.883 |
| 35.5 | 1270.529 | 1307.257 | 1339.516 | 1390.209 | 1410.458 | 1399.286 | 1361.162 | 1334.628 | 1289.801 |
| 36.0 | 1255.587 | 1293.851 | 1327.506 | 1380.294 | 1400.682 | 1391.745 | 1349.990 | 1323.037 | 1279.746 |
| 36.5 | 1242.599 | 1282.260 | 1318.289 | 1369.960 | 1392.443 | 1381.550 | 1339.656 | 1310.888 | 1268.155 |
| 37.0 | 1232.545 | 1268.993 | 1305.721 | 1362.139 | 1383.925 | 1372.334 | 1328.065 | 1298.738 | 1258.519 |
| 37.5 | 1219.138 | 1258.101 | 1295.527 | 1351.945 | 1374.847 | 1361.301 | 1318.708 | 1287.567 | 1246.370 |
| 38.0 | 1204.754 | 1245.392 | 1283.936 | 1342.868 | 1365.910 | 1351.526 | 1307.536 | 1276.115 | 1231.986 |
| 38.5 | 1193.164 | 1232.684 | 1274.579 | 1332.673 | 1355.855 | 1341.890 | 1295.247 | 1264.804 | 1218.300 |
| 39.0 | 1179.199 | 1219.138 | 1262.849 | 1322.758 | 1346.359 | 1331.835 | 1285.472 | 1253.911 | 1205.034 |
| 39.5 | 1165.932 | 1205.453 | 1252.235 | 1312.424 | 1337.701 | 1322.060 | 1273.602 | 1241.622 | 1189.533 |
| 40.0 | 1151.688 | 1194.420 | 1241.203 | 1302.928 | 1329.601 | 1313.262 | 1262.569 | 1230.310 | 1175.009 |
| 40.5 | 1139.678 | 1181.852 | 1230.310 | 1292.873 | 1318.848 | 1303.207 | 1251.677 | 1215.926 | 1161.324 |
| 41.0 | 1124.456 | 1167.747 | 1218.719 | 1283.656 | 1308.095 | 1293.432 | 1240.505 | 1203.218 | 1147.638 |
| 41.5 | 1111.888 | 1153.922 | 1209.223 | 1274.160 | 1300.833 | 1282.399 | 1228.495 | 1187.997 | 1133.813 |
| 42.0 | 1097.364 | 1141.633 | 1197.074 | 1263.686 | 1291.197 | 1274.579 | 1217.463 | 1173.613 | 1121.384 |
| 42.5 | 1084.377 | 1128.506 | 1185.483 | 1254.470 | 1281.981 | 1263.407 | 1205.034 | 1160.765 | 1107.698 |
| 43.0 | 1070.412 | 1116.915 | 1174.311 | 1243.996 | 1272.484 | 1252.654 | 1194.560 | 1145.404 | 1094.013 |
| 43.5 | 1058.262 | 1104.905 | 1162.580 | 1233.522 | 1263.966 | 1242.320 | 1184.226 | 1131.858 | 1082.003 |
| 44.0 | 1046.392 | 1090.661 | 1151.688 | 1224.305 | 1254.330 | 1233.383 | 1171.518 | 1117.334 | 1067.619 |
| 44.5 | 1029.774 | 1077.255 | 1138.281 | 1213.552 | 1244.694 | 1223.886 | 1162.022 | 1104.486 | 1054.911 |
| 45.0 | 1017.624 | 1063.988 | 1129.065 | 1203.777 | 1235.198 | 1211.877 | 1150.989 | 1089.963 | 1041.784 |
| 45.5 | 1005.056 | 1051.001 | 1116.077 | 1193.443 | 1223.747 | 1202.939 | 1139.399 | 1078.232 | 1028.657 |
| 46.0 | 991.231 | 1039.968 | 1105.324 | 1182.131 | 1214.251 | 1193.303 | 1128.506 | 1064.407 | 1013.854 |
| 46.5 | 979.081 | 1026.841 | 1093.314 | 1170.540 | 1205.173 | 1181.573 | 1117.334 | 1051.978 | 1001.704 |
| 47.0 | 964.837 | 1012.737 | 1082.003 | 1162.301 | 1195.119 | 1173.473 | 1107.000 | 1039.130 | 989.136 |
| 47.5 | 950.872 | 1000.168 | 1070.412 | 1150.710 | 1186.181 | 1163.558 | 1095.688 | 1025.864 | 973.076 |
| 48.0 | 939.979 | 987.181 | 1059.799 | 1142.471 | 1174.730 | 1150.850 | 1084.656 | 1012.457 | 962.184 |
| 48.5 | 924.758 | 974.193 | 1048.347 | 1129.763 | 1165.653 | 1141.493 | 1073.205 | 999.610 | 946.124 |
| 49.0 | 915.820 | 963.301 | 1037.734 | 1120.127 | 1155.598 | 1131.299 | 1061.335 | 987.181 | 933.556 |
| 49.5 | 903.810 | 948.777 | 1026.422 | 1109.933 | 1144.705 | 1121.523 | 1046.811 | 973.356 | 921.127 |
| 50.0 | 889.706 | 937.605 | 1015.111 | 1099.459 | 1135.768 | 1111.050 | 1036.337 | 960.089 | 910.374 |
| 50.5 | 875.741 | 927.690 | 1001.285 | 1088.846 | 1125.713 | 1100.157 | 1024.328 | 947.660 | 898.504 |
| 51.0 | 862.614 | 915.541 | 991.789 | 1078.093 | 1116.356 | 1089.683 | 1011.061 | 933.974 | 883.142 |
| 51.5 | 849.626 | 903.391 | 979.361 | 1068.876 | 1107.698 | 1079.349 | 999.470 | 926.014 | 869.875 |
| 52.0 | 835.941 | 889.845 | 969.026 | 1058.681 | 1096.806 | 1069.155 | 986.902 | 913.306 | 855.771 |
| 52.5 | 823.372 | 877.556 | 957.436 | 1047.928 | 1086.611 | 1058.402 | 975.869 | 901.995 | 842.923 |
| 53.0 | 809.268 | 864.010 | 945.286 | 1037.734 | 1076.137 | 1049.325 | 964.558 | 888.309 | 830.355 |
| 53.5 | 796.560 | 851.442 | 933.974 | 1026.841 | 1065.664 | 1038.153 | 951.989 | 875.182 | 815.692 |
| 54.0 | 782.734 | 839.711 | 923.780 | 1016.228 | 1054.492 | 1027.679 | 941.795 | 862.334 | 801.447 |
| 54.5 | 769.328 | 826.026 | 915.541 | 1004.497 | 1045.834 | 1017.764 | 929.506 | 848.928 | 788.739 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|---------|---------|---------|---------|----------|----------|---------|---------|---------|
| 55.0 | 754.944 | 813.178 | 904.788 | 994.443 | 1035.360 | 1006.452 | 922.523 | 836.779 | 774.635 |
| 55.5 | 741.817 | 801.727 | 892.918 | 982.991 | 1024.048 | 995.699 | 911.631 | 823.931 | 760.670 |
| 56.0 | 728.690 | 787.762 | 881.187 | 971.819 | 1014.552 | 985.645 | 899.621 | 810.664 | 748.241 |
| 56.5 | 716.122 | 774.774 | 869.457 | 961.765 | 1002.822 | 972.797 | 887.052 | 796.420 | 733.997 |
| 57.0 | 702.436 | 761.647 | 858.145 | 950.313 | 992.767 | 962.184 | 875.322 | 783.991 | 719.054 |
| 57.5 | 689.588 | 749.777 | 847.532 | 939.700 | 980.757 | 950.593 | 863.312 | 770.026 | 705.927 |
| 58.0 | 677.020 | 736.650 | 834.823 | 928.807 | 969.306 | 939.421 | 851.023 | 757.597 | 692.661 |
| 58.5 | 663.474 | 723.663 | 823.093 | 921.266 | 958.692 | 930.204 | 839.432 | 744.610 | 678.556 |
| 59.0 | 651.045 | 711.094 | 812.619 | 913.167 | 948.358 | 921.266 | 826.724 | 730.785 | 666.127 |
| 59.5 | 637.639 | 698.805 | 800.330 | 900.040 | 936.628 | 910.793 | 815.412 | 718.635 | 651.883 |
| 60.0 | 624.791 | 686.376 | 787.622 | 889.147 | 929.785 | 899.202 | 803.263 | 705.927 | 639.873 |
| 60.5 | 611.804 | 673.668 | 775.752 | 879.232 | 919.730 | 888.030 | 792.510 | 692.242 | 625.070 |
| 61.0 | 597.699 | 661.100 | 764.720 | 866.664 | 909.396 | 876.020 | 780.081 | 680.511 | 611.943 |
| 61.5 | 584.991 | 648.392 | 753.548 | 855.073 | 898.504 | 864.569 | 768.769 | 666.546 | 598.677 |
| 62.0 | 572.004 | 635.963 | 742.096 | 844.180 | 886.354 | 854.235 | 755.782 | 654.257 | 585.131 |
| 62.5 | 559.156 | 623.813 | 730.645 | 832.868 | 874.484 | 841.666 | 744.889 | 641.130 | 572.004 |
| 63.0 | 546.727 | 611.105 | 719.054 | 821.557 | 863.312 | 830.634 | 732.880 | 628.841 | 559.156 |
| 63.5 | 533.600 | 599.235 | 707.324 | 809.407 | 852.280 | 819.043 | 720.590 | 615.993 | 546.308 |
| 64.0 | 520.054 | 586.806 | 696.152 | 798.096 | 840.828 | 807.871 | 709.279 | 603.285 | 532.343 |
| 64.5 | 506.089 | 574.378 | 683.723 | 786.226 | 828.539 | 797.118 | 696.990 | 590.996 | 519.356 |
| 65.0 | 493.940 | 562.926 | 672.132 | 774.914 | 817.228 | 784.829 | 685.818 | 578.427 | 506.229 |
| 65.5 | 481.790 | 550.498 | 660.681 | 764.440 | 806.754 | 773.517 | 674.646 | 565.859 | 493.521 |
| 66.0 | 468.523 | 538.208 | 649.788 | 751.313 | 795.023 | 761.508 | 662.077 | 553.151 | 480.394 |
| 66.5 | 456.932 | 526.338 | 637.778 | 740.560 | 782.734 | 749.777 | 651.045 | 540.722 | 467.546 |
| 67.0 | 444.224 | 514.747 | 626.187 | 728.830 | 771.423 | 737.348 | 638.477 | 528.712 | 455.396 |
| 67.5 | 432.215 | 502.737 | 615.155 | 716.541 | 759.134 | 726.316 | 627.863 | 516.842 | 442.968 |
| 68.0 | 419.786 | 491.147 | 602.726 | 706.346 | 747.962 | 714.865 | 615.714 | 504.553 | 430.958 |
| 68.5 | 407.636 | 479.695 | 592.113 | 693.638 | 736.371 | 702.436 | 603.844 | 492.543 | 417.551 |
| 69.0 | 395.487 | 467.267 | 580.662 | 683.304 | 724.640 | 691.543 | 592.392 | 481.231 | 405.681 |
| 69.5 | 382.639 | 455.676 | 569.350 | 671.015 | 712.770 | 680.092 | 581.360 | 469.082 | 392.415 |
| 70.0 | 371.048 | 444.224 | 557.480 | 659.703 | 700.900 | 667.663 | 569.350 | 456.653 | 380.544 |
| 70.5 | 359.457 | 431.935 | 546.448 | 647.693 | 689.449 | 656.771 | 557.899 | 444.643 | 368.534 |
| 71.0 | 346.749 | 421.043 | 535.276 | 637.080 | 677.858 | 645.040 | 546.727 | 432.773 | 356.106 |
| 71.5 | 335.298 | 409.312 | 524.802 | 625.629 | 666.267 | 634.287 | 534.857 | 421.043 | 343.817 |
| 72.0 | 323.428 | 398.699 | 512.792 | 613.479 | 654.536 | 622.277 | 524.243 | 409.871 | 330.969 |
| 72.5 | 311.697 | 387.247 | 502.039 | 602.447 | 643.644 | 611.385 | 512.653 | 397.861 | 318.959 |
| 73.0 | 299.827 | 376.495 | 490.588 | 590.437 | 631.634 | 599.095 | 501.620 | 386.270 | 308.066 |
| 73.5 | 288.655 | 365.602 | 479.835 | 578.567 | 619.624 | 587.784 | 490.588 | 374.958 | 295.917 |
| 74.0 | 277.204 | 354.290 | 469.082 | 568.512 | 608.592 | 576.333 | 479.137 | 363.647 | 284.466 |
| 74.5 | 265.054 | 342.839 | 457.351 | 556.642 | 596.582 | 565.300 | 468.803 | 351.916 | 272.316 |
| 75.0 | 253.463 | 332.365 | 446.878 | 546.029 | 585.968 | 553.570 | 458.050 | 341.163 | 261.284 |
| 75.5 | 242.990 | 321.752 | 436.683 | 534.298 | 574.378 | 542.398 | 446.738 | 329.712 | 249.833 |
| 76.0 | 231.399 | 311.139 | 425.930 | 523.825 | 563.066 | 531.645 | 436.544 | 319.238 | 238.521 |
| 76.5 | 220.925 | 300.805 | 415.457 | 512.653 | 551.615 | 520.054 | 425.511 | 307.927 | 228.187 |
| 77.0 | 210.591 | 290.471 | 404.983 | 501.341 | 540.163 | 509.301 | 414.479 | 297.453 | 217.155 |
| 77.5 | 199.978 | 280.276 | 394.789 | 490.867 | 529.690 | 497.989 | 404.005 | 286.421 | 206.541 |
| 78.0 | 189.085 | 270.082 | 384.734 | 479.975 | 517.959 | 487.376 | 393.951 | 276.506 | 195.928 |
| 78.5 | 178.751 | 260.446 | 374.400 | 469.361 | 507.346 | 476.763 | 383.756 | 266.311 | 185.454 |
| 79.0 | 168.557 | 250.531 | 364.764 | 458.608 | 496.174 | 465.870 | 373.283 | 256.536 | 175.539 |
| 79.5 | 159.200 | 240.755 | 355.268 | 448.414 | 485.980 | 456.374 | 363.647 | 246.481 | 164.926 |
| 80.0 | 149.704 | 230.980 | 345.492 | 437.661 | 475.785 | 445.342 | 353.592 | 236.706 | 155.430 |
| 80.5 | 139.929 | 221.623 | 335.857 | 427.885 | 464.613 | 435.427 | 344.236 | 227.908 | 145.654 |
| 81.0 | 130.432 | 212.686 | 326.500 | 417.551 | 454.558 | 424.813 | 334.739 | 218.272 | 136.577 |
| 81.5 | 121.355 | 203.609 | 317.004 | 407.776 | 444.224 | 414.898 | 325.383 | 209.474 | 127.360 |
| 82.0 | 112.418 | 194.950 | 307.927 | 398.000 | 433.192 | 405.123 | 316.026 | 200.816 | 118.423 |
| 82.5 | 104.178 | 186.013 | 298.849 | 389.063 | 423.137 | 394.789 | 306.530 | 192.297 | 109.904 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 83.0 | 95.380 | 177.634 | 289.912 | 379.287 | 413.641 | 385.013 | 298.012 | 183.778 | 101.385 |
| 83.5 | 87.141 | 169.534 | 281.114 | 369.791 | 403.586 | 375.936 | 288.795 | 175.539 | 93.146 |
| 84.0 | 79.042 | 161.574 | 272.595 | 360.435 | 394.090 | 366.719 | 280.555 | 167.440 | 85.046 |
| 84.5 | 71.221 | 153.754 | 264.077 | 351.637 | 384.594 | 357.363 | 271.897 | 159.619 | 77.505 |
| 85.0 | 63.959 | 146.492 | 255.558 | 342.420 | 375.377 | 348.006 | 263.379 | 152.078 | 69.685 |
| 85.5 | 56.698 | 138.811 | 247.738 | 333.343 | 366.021 | 339.348 | 255.279 | 143.978 | 62.423 |
| 86.0 | 49.436 | 131.689 | 239.917 | 325.104 | 356.944 | 330.690 | 246.900 | 136.717 | 55.022 |
| 86.5 | 42.593 | 124.707 | 232.376 | 316.585 | 348.285 | 321.752 | 239.219 | 129.315 | 47.900 |
| 87.0 | 35.750 | 117.864 | 224.556 | 308.346 | 339.487 | 313.652 | 231.678 | 122.333 | 40.778 |
| 87.5 | 29.466 | 111.440 | 217.294 | 300.805 | 331.108 | 305.692 | 223.858 | 115.490 | 33.935 |
| 88.0 | 23.321 | 104.458 | 210.451 | 293.124 | 323.428 | 297.872 | 216.736 | 108.508 | 27.092 |
| 88.5 | 17.177 | 98.453 | 204.167 | 286.141 | 315.607 | 290.750 | 210.033 | 101.665 | 20.109 |
| 89.0 | 11.032 | 92.727 | 198.302 | 279.299 | 308.765 | 283.488 | 203.469 | 95.660 | 13.546 |
| 89.5 | 5.446 | 87.979 | 192.716 | 273.014 | 301.922 | 277.204 | 197.883 | 90.353 | 7.122 |
| 90.0 | 1.955 | 83.650 | 187.828 | 266.870 | 295.358 | 270.780 | 192.716 | 85.745 | 2.234 |
| 90.5 | 1.257 | 80.019 | 183.080 | 261.005 | 288.795 | 264.496 | 187.549 | 81.834 | 1.257 |
| 91.0 | 1.257 | 76.947 | 178.332 | 255.279 | 282.650 | 258.910 | 182.242 | 78.762 | 1.117 |
| 91.5 | 1.257 | 74.712 | 174.282 | 249.693 | 276.785 | 253.463 | 178.193 | 76.388 | 1.117 |
| 92.0 | 1.257 | 72.757 | 170.093 | 244.805 | 271.478 | 248.576 | 174.282 | 74.433 | 1.117 |
| 92.5 | 1.257 | 70.942 | 167.160 | 240.336 | 266.311 | 243.828 | 170.931 | 72.618 | 1.117 |
| 93.0 | 1.257 | 69.266 | 164.088 | 236.007 | 261.423 | 239.499 | 167.858 | 70.802 | 1.117 |
| 93.5 | 1.257 | 67.590 | 161.295 | 232.237 | 257.234 | 235.449 | 164.926 | 69.126 | 1.117 |
| 94.0 | 1.257 | 66.054 | 158.642 | 228.327 | 253.045 | 231.678 | 162.412 | 67.451 | 1.117 |
| 94.5 | 1.257 | 64.518 | 156.268 | 224.975 | 249.274 | 228.187 | 159.759 | 65.775 | 1.117 |
| 95.0 | 1.257 | 62.982 | 153.894 | 221.623 | 245.643 | 224.416 | 157.105 | 64.239 | 1.117 |
| 95.5 | 1.257 | 61.585 | 151.240 | 218.272 | 241.593 | 221.204 | 154.592 | 62.842 | 1.117 |
| 96.0 | 1.257 | 60.189 | 149.006 | 214.920 | 238.102 | 217.713 | 152.078 | 61.446 | 1.117 |
| 96.5 | 1.257 | 58.792 | 146.492 | 211.848 | 234.611 | 214.641 | 149.425 | 59.910 | 1.117 |
| 97.0 | 1.257 | 57.396 | 144.258 | 208.357 | 230.980 | 211.010 | 147.190 | 58.513 | 1.117 |
| 97.5 | 1.257 | 55.999 | 141.744 | 205.564 | 227.489 | 208.077 | 144.816 | 57.256 | 1.117 |
| 98.0 | 1.257 | 54.743 | 139.510 | 202.212 | 224.277 | 204.866 | 142.303 | 55.860 | 1.117 |
| 98.5 | 1.257 | 53.625 | 137.415 | 199.280 | 221.065 | 201.654 | 140.068 | 54.463 | 1.117 |
| 99.0 | 1.257 | 52.229 | 134.901 | 196.487 | 217.853 | 198.581 | 137.694 | 53.206 | 1.117 |
| 99.5 | 1.257 | 50.972 | 132.806 | 193.554 | 214.501 | 195.649 | 135.460 | 51.950 | 1.117 |
| 100.0 | 1.257 | 49.855 | 130.432 | 190.621 | 211.289 | 192.716 | 133.086 | 50.693 | 1.117 |
| 100.5 | 1.257 | 48.598 | 128.338 | 187.689 | 207.938 | 189.923 | 130.991 | 49.576 | 1.257 |
| 101.0 | 1.257 | 47.620 | 126.243 | 184.756 | 205.005 | 187.130 | 128.896 | 48.319 | 1.257 |
| 101.5 | 1.257 | 46.364 | 124.009 | 181.963 | 202.073 | 184.058 | 126.522 | 47.201 | 1.257 |
| 102.0 | 1.396 | 45.386 | 122.053 | 179.170 | 198.721 | 181.544 | 124.567 | 46.084 | 1.257 |
| 102.5 | 1.396 | 44.269 | 119.959 | 176.517 | 195.509 | 178.891 | 122.333 | 44.967 | 1.257 |
| 103.0 | 1.396 | 43.291 | 117.864 | 173.724 | 192.576 | 176.098 | 120.238 | 43.850 | 1.257 |
| 103.5 | 1.396 | 42.174 | 115.769 | 171.350 | 189.783 | 173.305 | 118.283 | 42.733 | 1.257 |
| 104.0 | 1.396 | 41.197 | 113.954 | 168.836 | 186.990 | 170.651 | 116.049 | 41.615 | 1.257 |
| 104.5 | 1.396 | 40.219 | 111.859 | 165.903 | 184.337 | 167.998 | 114.093 | 40.638 | 1.396 |
| 105.0 | 1.396 | 39.241 | 110.044 | 163.529 | 181.265 | 165.484 | 112.138 | 39.660 | 1.396 |
| 105.5 | 1.396 | 38.264 | 108.228 | 161.016 | 178.611 | 162.691 | 110.183 | 38.683 | 1.396 |
| 106.0 | 1.396 | 37.286 | 106.273 | 158.362 | 175.958 | 160.178 | 108.089 | 37.705 | 1.396 |
| 106.5 | 1.396 | 36.448 | 104.458 | 156.128 | 172.886 | 157.664 | 106.273 | 36.867 | 1.396 |
| 107.0 | 1.536 | 35.471 | 102.642 | 153.614 | 170.512 | 155.011 | 104.318 | 35.890 | 1.396 |
| 107.5 | 1.536 | 34.633 | 100.687 | 150.961 | 167.998 | 152.637 | 102.642 | 35.052 | 1.396 |
| 108.0 | 1.536 | 33.795 | 98.872 | 148.866 | 165.345 | 150.263 | 100.827 | 34.214 | 1.396 |
| 108.5 | 1.536 | 32.818 | 97.336 | 146.352 | 162.831 | 148.028 | 98.872 | 33.237 | 1.536 |
| 109.0 | 1.536 | 31.980 | 95.520 | 143.978 | 160.317 | 145.654 | 97.056 | 32.399 | 1.536 |
| 109.5 | 1.536 | 31.142 | 93.705 | 141.604 | 157.943 | 143.280 | 95.380 | 31.561 | 1.536 |
| 110.0 | 1.536 | 30.444 | 92.169 | 139.370 | 155.430 | 140.906 | 93.705 | 30.723 | 1.536 |
| 110.5 | 1.536 | 29.606 | 90.493 | 137.275 | 152.916 | 138.532 | 91.889 | 29.885 | 1.536 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|--------|--------|---------|---------|---------|--------|--------|-------|
| 111.0 | 1.536 | 28.768 | 88.817 | 135.041 | 150.682 | 136.577 | 90.213 | 29.187 | 1.536 |
| 111.5 | 1.676 | 28.070 | 87.281 | 132.946 | 148.308 | 134.203 | 88.398 | 28.349 | 1.536 |
| 112.0 | 1.676 | 27.232 | 85.605 | 130.572 | 146.073 | 131.969 | 86.862 | 27.511 | 1.536 |
| 112.5 | 1.676 | 26.533 | 83.929 | 128.757 | 143.699 | 129.874 | 85.186 | 26.813 | 1.676 |
| 113.0 | 1.676 | 25.835 | 82.533 | 126.383 | 141.325 | 127.779 | 83.510 | 25.975 | 1.676 |
| 113.5 | 1.676 | 25.137 | 80.717 | 124.288 | 138.951 | 125.405 | 81.974 | 25.277 | 1.676 |
| 114.0 | 1.676 | 24.299 | 79.321 | 122.333 | 136.996 | 123.310 | 80.438 | 24.578 | 1.676 |
| 114.5 | 1.676 | 23.601 | 77.785 | 120.238 | 134.622 | 121.355 | 78.762 | 23.740 | 1.676 |
| 115.0 | 1.676 | 23.042 | 76.249 | 118.283 | 132.527 | 119.260 | 77.086 | 23.042 | 1.676 |
| 115.5 | 1.676 | 22.204 | 74.712 | 116.328 | 130.293 | 117.166 | 75.550 | 22.344 | 1.676 |
| 116.0 | 1.676 | 21.646 | 73.316 | 114.093 | 128.198 | 115.211 | 74.014 | 21.646 | 1.815 |
| 116.5 | 1.676 | 20.947 | 71.780 | 112.278 | 126.103 | 113.256 | 72.618 | 21.087 | 1.815 |
| 117.0 | 1.676 | 20.249 | 70.244 | 110.183 | 123.869 | 111.161 | 71.081 | 20.389 | 1.815 |
| 117.5 | 1.676 | 19.551 | 68.847 | 108.368 | 121.914 | 109.206 | 69.545 | 19.691 | 1.815 |
| 118.0 | 1.676 | 18.992 | 67.590 | 106.273 | 119.819 | 107.251 | 68.149 | 18.992 | 1.815 |
| 118.5 | 1.676 | 18.294 | 66.194 | 104.458 | 117.864 | 105.296 | 66.752 | 18.434 | 1.815 |
| 119.0 | 1.676 | 17.735 | 64.797 | 102.642 | 115.769 | 103.480 | 65.356 | 17.735 | 1.815 |
| 119.5 | 1.676 | 17.037 | 63.401 | 100.827 | 113.675 | 101.665 | 63.959 | 17.177 | 1.815 |
| 120.0 | 1.676 | 16.479 | 62.004 | 98.732 | 111.719 | 99.570 | 62.423 | 16.479 | 1.815 |
| 120.5 | 1.676 | 15.920 | 60.608 | 97.196 | 109.625 | 97.755 | 61.166 | 15.920 | 1.955 |
| 121.0 | 1.676 | 15.222 | 59.351 | 95.241 | 107.530 | 95.939 | 59.770 | 15.361 | 1.955 |
| 121.5 | 1.676 | 14.524 | 58.094 | 93.425 | 105.854 | 94.124 | 58.513 | 14.663 | 1.955 |
| 122.0 | 1.676 | 13.965 | 56.837 | 91.610 | 103.620 | 92.308 | 57.256 | 14.105 | 1.955 |
| 122.5 | 1.676 | 13.406 | 55.441 | 89.794 | 101.804 | 90.353 | 55.999 | 13.546 | 1.955 |
| 123.0 | 1.676 | 12.848 | 54.184 | 88.119 | 99.849 | 88.677 | 54.603 | 12.987 | 1.955 |
| 123.5 | 1.676 | 12.289 | 52.927 | 86.303 | 97.894 | 87.002 | 53.346 | 12.429 | 1.955 |
| 124.0 | 1.676 | 11.731 | 51.810 | 84.488 | 96.079 | 85.186 | 52.089 | 11.870 | 1.955 |
| 124.5 | 1.676 | 11.172 | 50.553 | 82.812 | 94.263 | 83.231 | 50.832 | 11.312 | 2.095 |
| 125.0 | 1.676 | 10.613 | 49.296 | 81.136 | 92.448 | 81.555 | 49.576 | 10.753 | 2.095 |
| 125.5 | 1.676 | 10.055 | 48.039 | 79.460 | 90.493 | 79.879 | 48.319 | 10.194 | 2.095 |
| 126.0 | 1.676 | 9.636 | 46.783 | 77.924 | 88.677 | 78.204 | 47.062 | 9.636 | 2.095 |
| 126.5 | 1.676 | 9.077 | 45.665 | 76.249 | 86.862 | 76.528 | 45.945 | 9.077 | 2.095 |
| 127.0 | 1.676 | 8.519 | 44.548 | 74.573 | 84.907 | 74.852 | 44.827 | 8.658 | 2.095 |
| 127.5 | 1.676 | 8.100 | 43.431 | 73.037 | 83.231 | 73.176 | 43.571 | 8.100 | 2.095 |
| 128.0 | 1.676 | 7.541 | 42.174 | 71.361 | 81.555 | 71.780 | 42.453 | 7.681 | 2.234 |
| 128.5 | 1.676 | 7.122 | 40.917 | 69.825 | 79.879 | 70.244 | 41.336 | 7.262 | 2.234 |
| 129.0 | 1.676 | 6.703 | 39.800 | 68.149 | 78.064 | 68.568 | 40.219 | 6.843 | 2.234 |
| 129.5 | 1.676 | 6.424 | 38.823 | 66.613 | 76.388 | 67.032 | 39.102 | 6.564 | 2.234 |
| 130.0 | 1.815 | 6.005 | 37.845 | 65.077 | 74.712 | 65.496 | 38.124 | 6.145 | 2.234 |
| 130.5 | 1.815 | 5.726 | 36.588 | 63.680 | 73.037 | 64.099 | 37.007 | 5.865 | 2.374 |
| 131.0 | 1.815 | 5.446 | 35.611 | 62.284 | 71.361 | 62.423 | 35.890 | 5.586 | 2.374 |
| 131.5 | 1.815 | 5.167 | 34.633 | 60.747 | 69.685 | 61.027 | 34.912 | 5.307 | 2.374 |
| 132.0 | 1.815 | 4.888 | 33.516 | 59.351 | 68.009 | 59.491 | 33.795 | 5.027 | 2.374 |
| 132.5 | 1.815 | 4.608 | 32.538 | 57.815 | 66.473 | 58.094 | 32.818 | 4.748 | 2.374 |
| 133.0 | 1.815 | 4.469 | 31.561 | 56.279 | 64.937 | 56.558 | 31.840 | 4.608 | 2.514 |
| 133.5 | 1.815 | 4.329 | 30.444 | 54.882 | 63.261 | 55.161 | 30.723 | 4.469 | 2.514 |
| 134.0 | 1.815 | 4.189 | 29.326 | 53.486 | 61.865 | 53.625 | 29.745 | 4.329 | 2.514 |
| 134.5 | 1.815 | 4.050 | 28.209 | 52.089 | 60.189 | 52.229 | 28.768 | 4.189 | 2.514 |
| 135.0 | 1.815 | 3.910 | 27.092 | 50.693 | 58.653 | 50.832 | 27.790 | 4.050 | 2.514 |
| 135.5 | 1.815 | 3.771 | 26.114 | 49.157 | 57.117 | 49.436 | 26.813 | 3.910 | 2.514 |
| 136.0 | 1.815 | 3.631 | 24.997 | 47.760 | 55.580 | 48.039 | 25.835 | 3.771 | 2.514 |
| 136.5 | 1.815 | 3.631 | 24.020 | 46.503 | 54.044 | 46.643 | 24.997 | 3.771 | 2.653 |
| 137.0 | 1.815 | 3.491 | 22.902 | 45.246 | 52.508 | 45.246 | 24.020 | 3.631 | 2.653 |
| 137.5 | 1.815 | 3.491 | 21.925 | 43.850 | 51.112 | 43.990 | 23.042 | 3.631 | 2.653 |
| 138.0 | 1.815 | 3.352 | 20.947 | 42.453 | 49.715 | 42.593 | 22.204 | 3.491 | 2.653 |
| 138.5 | 1.815 | 3.352 | 20.109 | 41.197 | 48.319 | 41.336 | 21.366 | 3.491 | 2.653 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 139.0 | 1.955 | 3.352 | 19.132 | 39.940 | 46.922 | 39.940 | 20.528 | 3.352 | 2.793 |
| 139.5 | 1.955 | 3.212 | 18.154 | 38.683 | 45.526 | 38.823 | 19.691 | 3.352 | 2.793 |
| 140.0 | 1.955 | 3.212 | 17.317 | 37.426 | 44.129 | 37.426 | 18.713 | 3.352 | 2.793 |
| 140.5 | 1.955 | 3.212 | 16.479 | 36.030 | 42.733 | 36.169 | 17.875 | 3.212 | 2.793 |
| 141.0 | 1.955 | 3.072 | 15.780 | 34.912 | 41.336 | 34.912 | 17.037 | 3.212 | 2.793 |
| 141.5 | 1.955 | 3.072 | 14.942 | 33.655 | 39.940 | 33.795 | 16.199 | 3.212 | 2.933 |
| 142.0 | 1.955 | 3.072 | 14.244 | 32.538 | 38.683 | 32.538 | 15.361 | 3.212 | 2.933 |
| 142.5 | 1.955 | 2.933 | 13.546 | 31.281 | 37.286 | 31.281 | 14.524 | 3.072 | 2.933 |
| 143.0 | 1.955 | 2.933 | 12.848 | 30.164 | 36.030 | 30.025 | 13.825 | 3.072 | 2.933 |
| 143.5 | 2.095 | 2.933 | 12.149 | 28.907 | 34.773 | 28.907 | 12.987 | 3.072 | 2.933 |
| 144.0 | 2.095 | 2.933 | 11.451 | 27.790 | 33.376 | 27.790 | 12.289 | 2.933 | 2.933 |
| 144.5 | 2.095 | 2.933 | 10.753 | 26.673 | 32.119 | 26.533 | 11.451 | 2.933 | 3.072 |
| 145.0 | 2.095 | 2.793 | 10.194 | 25.416 | 30.862 | 25.416 | 10.753 | 2.933 | 3.072 |
| 145.5 | 2.095 | 2.793 | 9.496 | 24.299 | 29.606 | 24.299 | 10.055 | 2.933 | 3.072 |
| 146.0 | 2.095 | 2.793 | 8.938 | 23.321 | 28.349 | 23.182 | 9.357 | 2.933 | 3.072 |
| 146.5 | 2.095 | 2.793 | 8.379 | 22.204 | 27.092 | 22.065 | 8.798 | 2.933 | 3.072 |
| 147.0 | 2.095 | 2.793 | 7.820 | 21.087 | 25.975 | 20.947 | 8.239 | 2.793 | 3.072 |
| 147.5 | 2.095 | 2.793 | 7.262 | 19.970 | 24.718 | 19.970 | 7.681 | 2.793 | 3.212 |
| 148.0 | 2.234 | 2.793 | 6.843 | 18.853 | 23.601 | 18.853 | 7.262 | 2.793 | 3.212 |
| 148.5 | 2.234 | 2.793 | 6.424 | 17.735 | 22.344 | 17.875 | 6.843 | 2.793 | 3.212 |
| 149.0 | 2.234 | 2.793 | 6.145 | 16.479 | 21.227 | 16.758 | 6.424 | 2.793 | 3.212 |
| 149.5 | 2.234 | 2.793 | 5.726 | 15.501 | 20.109 | 15.780 | 6.145 | 2.793 | 3.212 |
| 150.0 | 2.234 | 2.793 | 5.446 | 14.384 | 18.992 | 14.803 | 5.865 | 2.933 | 3.212 |
| 150.5 | 2.234 | 2.793 | 5.307 | 13.406 | 17.875 | 13.825 | 5.586 | 2.793 | 3.352 |
| 151.0 | 2.234 | 2.793 | 5.027 | 12.429 | 16.758 | 12.848 | 5.307 | 2.793 | 3.352 |
| 151.5 | 2.374 | 2.793 | 4.888 | 11.591 | 15.780 | 12.010 | 5.167 | 2.933 | 3.352 |
| 152.0 | 2.374 | 2.933 | 4.748 | 10.613 | 14.663 | 11.032 | 4.888 | 2.933 | 3.352 |
| 152.5 | 2.374 | 2.933 | 4.608 | 9.915 | 13.686 | 10.194 | 4.748 | 2.933 | 3.352 |
| 153.0 | 2.374 | 2.933 | 4.469 | 9.217 | 12.568 | 9.357 | 4.608 | 2.933 | 3.352 |
| 153.5 | 2.374 | 2.933 | 4.329 | 8.519 | 11.591 | 8.658 | 4.469 | 2.933 | 3.352 |
| 154.0 | 2.374 | 2.933 | 4.189 | 7.820 | 10.613 | 8.100 | 4.329 | 2.933 | 3.491 |
| 154.5 | 2.514 | 2.933 | 4.050 | 7.262 | 9.775 | 7.401 | 4.189 | 2.933 | 3.491 |
| 155.0 | 2.514 | 2.933 | 3.910 | 6.703 | 8.938 | 6.843 | 4.050 | 2.933 | 3.491 |
| 155.5 | 2.514 | 3.072 | 3.910 | 6.284 | 8.239 | 6.424 | 4.050 | 2.933 | 3.491 |
| 156.0 | 2.514 | 3.072 | 3.771 | 5.865 | 7.541 | 6.005 | 3.910 | 3.072 | 3.491 |
| 156.5 | 2.653 | 3.072 | 3.771 | 5.446 | 6.982 | 5.586 | 3.771 | 3.072 | 3.491 |
| 157.0 | 2.653 | 3.072 | 3.631 | 5.167 | 6.424 | 5.307 | 3.771 | 3.072 | 3.491 |
| 157.5 | 2.653 | 3.072 | 3.631 | 5.027 | 5.865 | 5.027 | 3.631 | 3.072 | 3.491 |
| 158.0 | 2.653 | 3.072 | 3.491 | 4.748 | 5.586 | 4.748 | 3.631 | 3.072 | 3.631 |
| 158.5 | 2.653 | 3.212 | 3.491 | 4.608 | 5.167 | 4.608 | 3.491 | 3.072 | 3.631 |
| 159.0 | 2.793 | 3.212 | 3.352 | 4.329 | 4.888 | 4.329 | 3.491 | 3.212 | 3.631 |
| 159.5 | 2.793 | 3.212 | 3.352 | 4.189 | 4.608 | 4.189 | 3.352 | 3.212 | 3.631 |
| 160.0 | 2.793 | 3.212 | 3.352 | 4.050 | 4.469 | 4.050 | 3.352 | 3.212 | 3.631 |
| 160.5 | 2.793 | 3.212 | 3.212 | 3.910 | 4.189 | 3.910 | 3.352 | 3.212 | 3.631 |
| 161.0 | 2.793 | 3.212 | 3.212 | 3.771 | 4.050 | 3.771 | 3.212 | 3.212 | 3.631 |
| 161.5 | 2.933 | 3.212 | 3.212 | 3.771 | 3.910 | 3.771 | 3.212 | 3.212 | 3.631 |
| 162.0 | 2.933 | 3.352 | 3.212 | 3.631 | 3.771 | 3.631 | 3.212 | 3.212 | 3.631 |
| 162.5 | 2.933 | 3.352 | 3.212 | 3.491 | 3.631 | 3.491 | 3.212 | 3.352 | 3.631 |
| 163.0 | 2.933 | 3.352 | 3.212 | 3.352 | 3.491 | 3.491 | 3.212 | 3.352 | 3.771 |
| 163.5 | 2.933 | 3.352 | 3.212 | 3.352 | 3.352 | 3.352 | 3.212 | 3.352 | 3.771 |
| 164.0 | 3.072 | 3.352 | 3.212 | 3.212 | 3.352 | 3.212 | 3.212 | 3.352 | 3.771 |
| 164.5 | 3.072 | 3.352 | 3.212 | 3.212 | 3.212 | 3.212 | 3.212 | 3.352 | 3.771 |
| 165.0 | 3.072 | 3.491 | 3.212 | 3.212 | 3.212 | 3.212 | 3.212 | 3.352 | 3.771 |
| 165.5 | 3.072 | 3.491 | 3.212 | 3.212 | 3.072 | 3.212 | 3.212 | 3.491 | 3.771 |
| 166.0 | 3.212 | 3.491 | 3.352 | 3.212 | 3.072 | 3.072 | 3.352 | 3.491 | 3.771 |
| 166.5 | 3.212 | 3.491 | 3.352 | 3.212 | 3.072 | 3.072 | 3.352 | 3.491 | 3.771 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_39W_3500K_.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.0 | 3.212 | 3.491 | 3.352 | 3.072 | 2.933 | 3.072 | 3.352 | 3.491 | 3.771 |
| 167.5 | 3.212 | 3.491 | 3.352 | 3.072 | 2.933 | 3.072 | 3.352 | 3.491 | 3.771 |
| 168.0 | 3.212 | 3.491 | 3.352 | 3.072 | 2.933 | 3.072 | 3.352 | 3.491 | 3.771 |
| 168.5 | 3.352 | 3.631 | 3.352 | 3.072 | 2.933 | 3.072 | 3.352 | 3.491 | 3.771 |
| 169.0 | 3.352 | 3.631 | 3.352 | 3.212 | 2.933 | 3.212 | 3.352 | 3.631 | 3.771 |
| 169.5 | 3.352 | 3.631 | 3.352 | 3.212 | 2.933 | 3.212 | 3.352 | 3.631 | 3.771 |
| 170.0 | 3.352 | 3.631 | 3.352 | 3.212 | 2.933 | 3.072 | 3.352 | 3.631 | 3.771 |
| 170.5 | 3.352 | 3.631 | 3.352 | 3.212 | 2.933 | 3.212 | 3.352 | 3.631 | 3.771 |
| 171.0 | 3.352 | 3.631 | 3.491 | 3.212 | 2.933 | 3.212 | 3.352 | 3.631 | 3.771 |
| 171.5 | 3.352 | 3.631 | 3.491 | 3.212 | 2.933 | 3.212 | 3.491 | 3.631 | 3.771 |
| 172.0 | 3.352 | 3.631 | 3.491 | 3.212 | 2.933 | 3.212 | 3.491 | 3.631 | 3.771 |
| 172.5 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 173.0 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 173.5 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 174.0 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 174.5 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 175.0 | 3.491 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 175.5 | 3.631 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 176.0 | 3.631 | 3.631 | 3.491 | 3.212 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 176.5 | 3.631 | 3.631 | 3.491 | 3.352 | 3.072 | 3.212 | 3.491 | 3.631 | 3.771 |
| 177.0 | 3.631 | 3.771 | 3.491 | 3.352 | 3.072 | 3.212 | 3.491 | 3.771 | 3.771 |
| 177.5 | 3.631 | 3.771 | 3.491 | 3.352 | 3.072 | 3.212 | 3.491 | 3.771 | 3.771 |
| 178.0 | 3.631 | 3.771 | 3.491 | 3.352 | 3.072 | 3.352 | 3.491 | 3.771 | 3.771 |
| 178.5 | 3.631 | 3.771 | 3.491 | 3.352 | 3.072 | 3.352 | 3.491 | 3.771 | 3.771 |
| 179.0 | 3.771 | 3.771 | 3.491 | 3.352 | 3.072 | 3.352 | 3.631 | 3.771 | 3.771 |
| 179.5 | 3.771 | 3.771 | 3.491 | 3.352 | 3.072 | 3.352 | 3.491 | 3.771 | 3.771 |
| 180.0 | 3.491 | 3.491 | 3.491 | 3.491 | 3.491 | 3.491 | 3.491 | 3.491 | 3.491 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_39W_3500K_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 653.75 | N.A. | 11.40 |
| 0-30 | 1373.26 | N.A. | 24.00 |
| 0-40 | 2226.53 | N.A. | 38.80 |
| 0-60 | 3919.44 | N.A. | 68.40 |
| 0-80 | 5051.52 | N.A. | 88.10 |
| 0-90 | 5320.68 | N.A. | 92.80 |
| 10-90 | 5150.34 | N.A. | 89.80 |
| 20-40 | 1572.78 | N.A. | 27.40 |
| 20-50 | 2452.59 | N.A. | 42.80 |
| 40-70 | 2358.77 | N.A. | 41.10 |
| 60-80 | 1132.08 | N.A. | 19.70 |
| 70-80 | 466.22 | N.A. | 8.10 |
| 80-90 | 269.16 | N.A. | 4.70 |
| 90-110 | 263.88 | N.A. | 4.60 |
| 90-120 | 335.17 | N.A. | 5.80 |
| 90-130 | 377.86 | N.A. | 6.60 |
| 90-150 | 408.99 | N.A. | 7.10 |
| 90-180 | 412.81 | N.A. | 7.20 |
| 110-180 | 148.92 | N.A. | 2.60 |
| 0-180 | 5733.49 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 170.35 |
| 10-20 | 483.40 |
| 20-30 | 719.51 |
| 30-40 | 853.27 |
| 40-50 | 879.81 |
| 50-60 | 813.10 |
| 60-70 | 665.86 |
| 70-80 | 466.22 |
| 80-90 | 269.16 |
| 90-100 | 155.86 |
| 100-110 | 108.02 |
| 110-120 | 71.28 |
| 120-130 | 42.69 |
| 130-140 | 22.13 |
| 140-150 | 9.00 |
| 150-160 | 2.54 |
| 160-170 | 0.95 |
| 170-180 | 0.33 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_39W_3500K_.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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 106 | 100 | 96 | 91 | 102 | 97 | 93 | 89 | 92 | 88 | 85 | 87 | 84 | 81 | 82 | 79 | 77 | 75 |
| 2 | 96 | 87 | 80 | 73 | 92 | 84 | 78 | 72 | 80 | 74 | 69 | 75 | 71 | 66 | 71 | 67 | 64 | 61 |
| 3 | 87 | 76 | 67 | 61 | 84 | 74 | 66 | 60 | 70 | 63 | 58 | 66 | 60 | 56 | 63 | 58 | 54 | 51 |
| 4 | 80 | 67 | 58 | 51 | 77 | 65 | 57 | 50 | 62 | 55 | 49 | 59 | 52 | 47 | 56 | 50 | 46 | 44 |
| 5 | 73 | 60 | 51 | 44 | 70 | 58 | 50 | 43 | 55 | 48 | 42 | 53 | 46 | 41 | 50 | 44 | 40 | 38 |
| 6 | 67 | 54 | 45 | 38 | 65 | 53 | 44 | 38 | 50 | 42 | 37 | 48 | 41 | 36 | 45 | 40 | 35 | 33 |
| 7 | 63 | 49 | 40 | 34 | 60 | 48 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 32 | 41 | 36 | 31 | 29 |
| 8 | 58 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 28 | 26 |
| 9 | 54 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 38 | 31 | 26 | 37 | 30 | 26 | 35 | 29 | 25 | 23 |
| 10 | 51 | 38 | 30 | 24 | 49 | 37 | 29 | 24 | 35 | 28 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_39W_3500K_.IES

UGR TABLE - CORRECTED

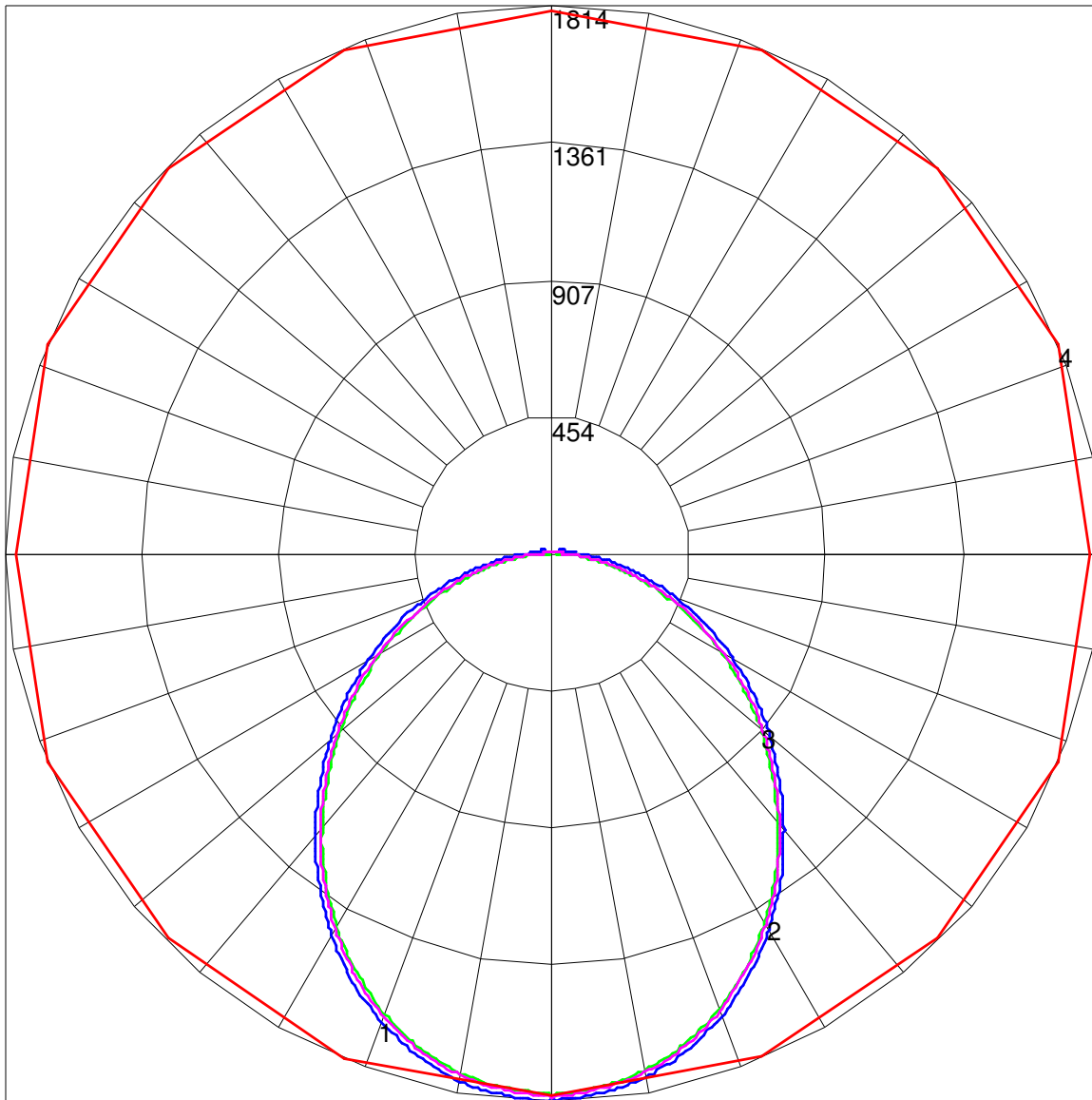
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 20.9 | 22.5 | 21.4 | 22.9 | 23.4 | 23.4 | 24.9 | 23.8 | 25.4 | 25.8 |
| | 3H | 22.4 | 23.8 | 22.9 | 24.3 | 24.8 | 25.8 | 27.2 | 26.3 | 27.6 | 28.2 |
| | 4H | 22.9 | 24.2 | 23.4 | 24.7 | 25.2 | 26.9 | 28.2 | 27.4 | 28.7 | 29.3 |
| | 6H | 23.2 | 24.4 | 23.7 | 24.9 | 25.5 | 28.0 | 29.3 | 28.6 | 29.8 | 30.3 |
| | 8H | 23.3 | 24.4 | 23.8 | 25.0 | 25.5 | 28.6 | 29.8 | 29.2 | 30.3 | 30.9 |
| | 12H | 23.3 | 24.4 | 23.8 | 24.9 | 25.5 | 29.2 | 30.4 | 29.8 | 30.9 | 31.5 |
| 4H | 2H | 21.9 | 23.2 | 22.4 | 23.7 | 24.2 | 23.8 | 25.1 | 24.3 | 25.6 | 26.1 |
| | 3H | 23.6 | 24.7 | 24.1 | 25.3 | 25.8 | 26.5 | 27.6 | 27.0 | 28.1 | 28.7 |
| | 4H | 24.2 | 25.2 | 24.7 | 25.8 | 26.4 | 27.7 | 28.8 | 28.3 | 29.3 | 29.9 |
| | 6H | 24.6 | 25.5 | 25.2 | 26.1 | 26.7 | 29.1 | 30.0 | 29.6 | 30.5 | 31.1 |
| | 8H | 24.7 | 25.6 | 25.3 | 26.2 | 26.8 | 29.7 | 30.6 | 30.3 | 31.1 | 31.8 |
| | 12H | 24.8 | 25.6 | 25.4 | 26.2 | 26.8 | 30.5 | 31.2 | 31.0 | 31.8 | 32.5 |
| 8H | 4H | 24.9 | 25.8 | 25.5 | 26.3 | 26.9 | 27.9 | 28.8 | 28.5 | 29.4 | 30.0 |
| | 6H | 25.5 | 26.2 | 26.1 | 26.8 | 27.5 | 29.4 | 30.2 | 30.0 | 30.8 | 31.4 |
| | 8H | 25.7 | 26.4 | 26.3 | 27.0 | 27.6 | 30.3 | 30.9 | 30.9 | 31.5 | 32.1 |
| | 12H | 25.8 | 26.4 | 26.5 | 27.0 | 27.7 | 31.2 | 31.7 | 31.8 | 32.3 | 33.0 |
| 12H | 4H | 25.1 | 25.9 | 25.7 | 26.5 | 27.1 | 27.9 | 28.7 | 28.5 | 29.3 | 29.9 |
| | 6H | 25.8 | 26.5 | 26.4 | 27.0 | 27.7 | 29.5 | 30.1 | 30.1 | 30.7 | 31.4 |
| | 8H | 26.1 | 26.7 | 26.7 | 27.3 | 28.0 | 30.3 | 30.9 | 30.9 | 31.5 | 32.2 |

Maximum UGR = 33.0

POLAR GRAPH



Maximum Candela = 1814.044 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)