



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FPB 22 MD UV FR 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Nick

[TESTLAB] Ningbo TengLi Testing Co., Ltd

[TESTDATE] 25 October 2019

[ISSUEDATE] 2019-10-25 15:04:04

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] LumenFocus, LLC

[LUMINAIRE] FPB 22 MD UV FR 840

[OTHER]

| [OTHER] | Gamma(deg) | Fz(lm) | Ft(lm) | %Lum | %Lamp |
|---------|------------|--------|--------|------|-------|
|---------|------------|--------|--------|------|-------|

| | | | | | |
|---------|-------|--------|--------|------|------|
| [OTHER] | 0- 10 | 151.60 | 151.60 | 3.25 | 3.25 |
|---------|-------|--------|--------|------|------|

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|---------|--------|--------|--------|-------|-------|
| [OTHER] | 10- 20 | 434.76 | 586.36 | 12.58 | 12.58 |
|---------|--------|--------|--------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 20- 30 | 659.99 | 1246.35 | 26.74 | 26.74 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 30- 40 | 797.68 | 2044.03 | 43.85 | 43.85 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 40- 50 | 830.28 | 2874.30 | 61.67 | 61.67 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 50- 60 | 754.39 | 3628.69 | 77.85 | 77.85 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 60- 70 | 582.93 | 4211.62 | 90.36 | 90.36 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|--------|---------|-------|-------|
| [OTHER] | 70- 80 | 346.60 | 4558.22 | 97.79 | 97.79 |
|---------|--------|--------|---------|-------|-------|

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|---------|--------|-------|---------|-------|-------|
| [OTHER] | 80- 90 | 96.54 | 4654.76 | 99.87 | 99.87 |
|---------|--------|-------|---------|-------|-------|

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|---------|--------|------|---------|-------|-------|
| [OTHER] | 90-100 | 0.90 | 4655.67 | 99.89 | 99.89 |
|---------|--------|------|---------|-------|-------|

| | | | | | |
|---------|---------|------|---------|-------|-------|
| [OTHER] | 100-110 | 0.57 | 4656.24 | 99.90 | 99.90 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|-------|-------|
| [OTHER] | 110-120 | 0.88 | 4657.12 | 99.92 | 99.92 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|-------|-------|
| [OTHER] | 120-130 | 1.00 | 4658.13 | 99.94 | 99.94 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|-------|-------|
| [OTHER] | 130-140 | 0.99 | 4659.11 | 99.96 | 99.96 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|-------|-------|
| [OTHER] | 140-150 | 0.78 | 4659.89 | 99.98 | 99.98 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|-------|-------|
| [OTHER] | 150-160 | 0.56 | 4660.46 | 99.99 | 99.99 |
|---------|---------|------|---------|-------|-------|

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|---------|---------|------|---------|--------|--------|
| [OTHER] | 160-170 | 0.40 | 4660.86 | 100.00 | 100.00 |
|---------|---------|------|---------|--------|--------|

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|---------|---------|------|---------|--------|--------|
| [OTHER] | 170-180 | 0.16 | 4661.01 | 100.00 | 100.00 |
|---------|---------|------|---------|--------|--------|

[OTHER]

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CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4661 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 128 |
| Total Luminaire Watts | 36.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.92 ft |
| Luminous Width (90-270) | 1.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4370 | 4425 | 4510 |
| 55 | 4191 | 4263 | 4380 |
| 65 | 3931 | 4021 | 4174 |
| 75 | 3482 | 3616 | 3836 |
| 85 | 2405 | 2543 | 3012 |

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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> | <u>202.5</u> |
|----|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 |
| 1 | 1600.84 | 1601.98 | 1601.71 | 1601.98 | 1601.13 | 1601.96 | 1601.41 | 1601.14 | 1601.69 | 1601.97 |
| 2 | 1599.68 | 1600.29 | 1600.56 | 1601.14 | 1600.78 | 1601.11 | 1601.41 | 1601.14 | 1601.10 | 1601.38 |
| 3 | 1598.83 | 1598.54 | 1598.86 | 1599.41 | 1598.83 | 1600.82 | 1599.63 | 1600.27 | 1600.23 | 1600.22 |
| 4 | 1596.30 | 1596.21 | 1596.84 | 1597.95 | 1597.10 | 1598.20 | 1597.89 | 1599.10 | 1599.35 | 1598.78 |
| 5 | 1593.42 | 1593.41 | 1593.67 | 1595.06 | 1595.35 | 1596.49 | 1595.56 | 1596.75 | 1597.37 | 1596.71 |
| 6 | 1589.30 | 1589.66 | 1590.47 | 1591.58 | 1592.44 | 1593.25 | 1593.01 | 1593.92 | 1594.71 | 1593.88 |
| 7 | 1584.97 | 1585.00 | 1586.78 | 1588.18 | 1589.53 | 1590.42 | 1590.08 | 1591.01 | 1591.22 | 1590.95 |
| 8 | 1580.38 | 1580.96 | 1582.06 | 1583.87 | 1586.16 | 1586.39 | 1586.24 | 1587.74 | 1587.80 | 1587.40 |
| 9 | 1575.53 | 1575.71 | 1576.95 | 1579.48 | 1581.20 | 1581.73 | 1581.98 | 1583.47 | 1582.82 | 1582.86 |
| 10 | 1569.14 | 1570.80 | 1571.77 | 1573.42 | 1576.81 | 1576.84 | 1577.70 | 1577.96 | 1578.29 | 1578.41 |
| 11 | 1562.80 | 1564.16 | 1565.70 | 1567.92 | 1571.46 | 1571.89 | 1573.00 | 1573.98 | 1573.86 | 1572.04 |
| 12 | 1556.04 | 1557.59 | 1559.21 | 1561.67 | 1565.36 | 1565.62 | 1566.78 | 1567.25 | 1566.91 | 1565.67 |
| 13 | 1549.03 | 1550.43 | 1551.75 | 1554.51 | 1559.26 | 1559.36 | 1560.56 | 1560.52 | 1559.96 | 1559.30 |
| 14 | 1541.03 | 1542.25 | 1543.81 | 1547.17 | 1553.06 | 1553.05 | 1554.34 | 1553.77 | 1553.00 | 1552.90 |
| 15 | 1531.63 | 1533.49 | 1535.58 | 1538.44 | 1544.15 | 1545.44 | 1546.38 | 1545.93 | 1544.97 | 1545.44 |
| 16 | 1522.68 | 1524.82 | 1527.28 | 1530.12 | 1536.22 | 1537.32 | 1538.05 | 1537.66 | 1536.67 | 1536.38 |
| 17 | 1513.16 | 1515.18 | 1518.42 | 1521.29 | 1527.30 | 1528.91 | 1529.45 | 1528.91 | 1528.11 | 1527.77 |
| 18 | 1503.17 | 1505.39 | 1508.04 | 1511.79 | 1518.24 | 1519.63 | 1520.20 | 1519.36 | 1518.57 | 1518.40 |
| 19 | 1492.93 | 1495.46 | 1497.82 | 1501.24 | 1508.35 | 1510.06 | 1510.45 | 1509.49 | 1508.45 | 1508.04 |
| 20 | 1481.84 | 1483.56 | 1487.16 | 1490.55 | 1498.10 | 1499.64 | 1500.14 | 1499.15 | 1498.16 | 1497.89 |
| 21 | 1469.89 | 1471.78 | 1476.11 | 1478.93 | 1487.24 | 1488.97 | 1489.18 | 1488.39 | 1487.25 | 1486.96 |
| 22 | 1457.81 | 1460.91 | 1464.39 | 1467.58 | 1476.03 | 1477.64 | 1477.78 | 1476.74 | 1476.04 | 1475.35 |
| 23 | 1445.85 | 1448.05 | 1451.49 | 1455.20 | 1464.29 | 1466.06 | 1465.87 | 1465.08 | 1464.23 | 1463.81 |
| 24 | 1432.78 | 1435.09 | 1438.36 | 1442.62 | 1451.68 | 1453.82 | 1453.69 | 1452.58 | 1451.75 | 1451.18 |
| 25 | 1418.73 | 1421.51 | 1424.99 | 1430.18 | 1439.04 | 1441.16 | 1440.83 | 1439.73 | 1438.54 | 1438.52 |
| 26 | 1404.19 | 1406.74 | 1412.00 | 1416.29 | 1425.58 | 1427.97 | 1427.30 | 1426.23 | 1425.29 | 1424.99 |
| 27 | 1390.70 | 1392.89 | 1397.66 | 1402.11 | 1411.97 | 1414.03 | 1413.95 | 1412.44 | 1411.57 | 1411.18 |
| 28 | 1375.18 | 1377.29 | 1382.87 | 1387.66 | 1398.04 | 1400.02 | 1399.32 | 1398.12 | 1397.10 | 1396.60 |
| 29 | 1359.14 | 1362.17 | 1367.39 | 1372.57 | 1382.96 | 1385.19 | 1385.07 | 1383.38 | 1382.34 | 1382.17 |
| 30 | 1343.65 | 1346.25 | 1351.83 | 1357.25 | 1368.04 | 1370.49 | 1369.63 | 1368.08 | 1366.93 | 1366.82 |
| 31 | 1326.92 | 1329.89 | 1336.02 | 1340.91 | 1352.37 | 1354.50 | 1354.11 | 1352.38 | 1350.94 | 1351.04 |
| 32 | 1309.57 | 1313.21 | 1319.66 | 1325.16 | 1336.19 | 1338.70 | 1338.13 | 1336.25 | 1334.28 | 1334.94 |
| 33 | 1292.82 | 1295.75 | 1302.41 | 1307.58 | 1319.67 | 1322.36 | 1321.26 | 1319.48 | 1317.68 | 1318.09 |
| 34 | 1274.66 | 1278.74 | 1284.86 | 1290.89 | 1302.52 | 1305.14 | 1304.45 | 1302.50 | 1300.47 | 1300.83 |
| 35 | 1256.54 | 1260.18 | 1267.12 | 1272.85 | 1285.29 | 1288.00 | 1286.78 | 1284.86 | 1282.67 | 1283.55 |
| 36 | 1237.88 | 1241.30 | 1248.77 | 1255.11 | 1267.50 | 1269.94 | 1269.26 | 1267.16 | 1265.06 | 1265.57 |
| 37 | 1219.58 | 1222.59 | 1230.25 | 1236.13 | 1249.22 | 1251.90 | 1250.90 | 1248.57 | 1246.53 | 1247.19 |
| 38 | 1200.36 | 1203.16 | 1211.36 | 1217.83 | 1230.59 | 1233.10 | 1232.16 | 1230.06 | 1227.73 | 1228.27 |
| 39 | 1180.82 | 1184.50 | 1191.55 | 1198.55 | 1211.55 | 1214.00 | 1212.84 | 1210.79 | 1208.98 | 1209.53 |
| 40 | 1161.52 | 1164.15 | 1172.00 | 1178.86 | 1192.30 | 1194.70 | 1193.42 | 1191.36 | 1189.30 | 1189.57 |
| 41 | 1140.45 | 1143.59 | 1151.85 | 1159.11 | 1172.36 | 1174.66 | 1173.51 | 1171.41 | 1169.42 | 1169.70 |
| 42 | 1119.45 | 1122.56 | 1131.60 | 1139.40 | 1152.17 | 1154.71 | 1153.33 | 1151.08 | 1149.18 | 1149.24 |
| 43 | 1098.39 | 1101.69 | 1110.62 | 1118.08 | 1131.52 | 1133.74 | 1132.73 | 1130.50 | 1128.08 | 1128.38 |
| 44 | 1077.49 | 1080.61 | 1089.22 | 1097.20 | 1110.25 | 1112.54 | 1111.65 | 1109.15 | 1106.58 | 1107.24 |
| 45 | 1054.94 | 1058.90 | 1068.04 | 1075.14 | 1088.75 | 1091.36 | 1090.16 | 1087.69 | 1085.38 | 1085.95 |
| 46 | 1032.92 | 1036.42 | 1045.69 | 1053.62 | 1067.15 | 1069.81 | 1068.53 | 1066.15 | 1063.59 | 1064.03 |
| 47 | 1009.84 | 1013.97 | 1023.90 | 1031.59 | 1045.29 | 1047.64 | 1046.25 | 1043.61 | 1041.50 | 1041.67 |
| 48 | 987.13 | 991.13 | 1000.81 | 1008.62 | 1023.02 | 1025.06 | 1023.79 | 1021.25 | 1019.02 | 1019.52 |
| 49 | 964.32 | 968.12 | 977.60 | 986.04 | 1000.06 | 1002.63 | 1001.30 | 998.59 | 996.49 | 996.67 |
| 50 | 940.70 | 945.00 | 954.49 | 962.50 | 977.05 | 979.25 | 978.16 | 975.45 | 973.21 | 973.32 |
| 51 | 917.20 | 921.16 | 931.03 | 939.18 | 953.29 | 955.99 | 954.67 | 952.02 | 949.40 | 950.19 |
| 52 | 893.07 | 896.63 | 906.91 | 914.65 | 929.84 | 933.02 | 931.10 | 928.19 | 925.98 | 926.33 |
| 53 | 869.63 | 872.88 | 882.57 | 891.17 | 906.09 | 908.55 | 907.16 | 904.61 | 901.89 | 902.58 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 54 | 843.76 | 848.44 | 858.94 | 867.88 | 882.07 | 884.39 | 882.75 | 879.99 | 878.02 | 878.13 |
| 55 | 820.68 | 825.23 | 834.65 | 843.81 | 857.57 | 859.48 | 858.44 | 855.78 | 853.52 | 853.78 |
| 56 | 797.63 | 802.02 | 810.34 | 819.74 | 832.50 | 835.25 | 833.99 | 830.90 | 828.45 | 828.90 |
| 57 | 772.60 | 777.54 | 786.03 | 795.67 | 807.91 | 810.07 | 808.59 | 805.77 | 803.68 | 803.89 |
| 58 | 747.52 | 752.25 | 760.89 | 770.55 | 782.74 | 784.78 | 783.63 | 780.80 | 778.48 | 778.71 |
| 59 | 722.04 | 726.21 | 735.65 | 745.01 | 757.66 | 759.51 | 758.07 | 755.54 | 753.57 | 753.59 |
| 60 | 696.44 | 701.01 | 709.64 | 719.51 | 731.85 | 734.02 | 732.67 | 730.11 | 728.01 | 727.91 |
| 61 | 670.65 | 674.91 | 684.32 | 693.89 | 706.18 | 708.22 | 706.75 | 704.04 | 702.14 | 702.11 |
| 62 | 644.66 | 649.60 | 657.96 | 667.80 | 680.42 | 682.40 | 681.09 | 678.66 | 676.68 | 676.54 |
| 63 | 619.05 | 623.02 | 632.51 | 641.85 | 654.72 | 656.18 | 655.13 | 652.34 | 650.74 | 650.52 |
| 64 | 592.62 | 597.47 | 606.15 | 615.90 | 628.12 | 630.20 | 628.73 | 626.32 | 624.63 | 624.22 |
| 65 | 567.06 | 570.94 | 580.15 | 589.65 | 602.15 | 604.26 | 602.89 | 600.31 | 598.49 | 598.36 |
| 66 | 540.29 | 544.77 | 553.53 | 563.10 | 575.34 | 577.88 | 576.35 | 574.26 | 571.72 | 571.95 |
| 67 | 514.35 | 518.73 | 527.30 | 536.98 | 548.99 | 551.36 | 550.05 | 547.91 | 545.79 | 545.55 |
| 68 | 488.19 | 492.66 | 501.24 | 510.64 | 523.08 | 525.09 | 523.74 | 521.57 | 519.26 | 519.42 |
| 69 | 462.18 | 466.42 | 474.78 | 484.48 | 496.71 | 498.66 | 497.45 | 495.21 | 493.73 | 493.23 |
| 70 | 435.92 | 440.12 | 448.42 | 457.93 | 470.33 | 471.85 | 471.10 | 468.84 | 466.80 | 466.96 |
| 71 | 410.42 | 414.64 | 422.59 | 432.18 | 443.80 | 445.74 | 444.74 | 442.68 | 440.82 | 440.70 |
| 72 | 384.07 | 388.55 | 396.39 | 405.61 | 418.00 | 419.70 | 418.48 | 416.64 | 414.97 | 414.50 |
| 73 | 358.33 | 362.73 | 370.42 | 379.85 | 391.69 | 393.41 | 392.40 | 390.60 | 388.91 | 388.79 |
| 74 | 332.78 | 337.52 | 344.85 | 353.88 | 365.58 | 367.58 | 366.92 | 365.05 | 363.39 | 362.80 |
| 75 | 307.61 | 311.90 | 319.52 | 327.88 | 338.92 | 341.62 | 341.00 | 339.44 | 337.73 | 337.32 |
| 76 | 282.58 | 286.63 | 294.14 | 301.91 | 312.24 | 315.75 | 315.77 | 313.97 | 312.18 | 312.04 |
| 77 | 257.55 | 261.87 | 269.43 | 275.70 | 285.59 | 289.13 | 290.37 | 288.95 | 287.03 | 286.84 |
| 78 | 232.47 | 236.74 | 244.63 | 249.92 | 259.54 | 263.33 | 265.78 | 264.28 | 262.11 | 262.24 |
| 79 | 207.96 | 212.25 | 219.46 | 223.95 | 233.91 | 237.76 | 240.96 | 239.69 | 237.63 | 237.65 |
| 80 | 183.99 | 187.94 | 194.48 | 198.89 | 209.07 | 212.22 | 216.14 | 215.32 | 213.36 | 213.47 |
| 81 | 160.60 | 164.64 | 169.52 | 174.48 | 184.45 | 187.62 | 191.57 | 191.51 | 190.14 | 190.05 |
| 82 | 137.30 | 141.20 | 145.07 | 150.09 | 160.05 | 163.03 | 166.83 | 168.09 | 166.56 | 166.33 |
| 83 | 115.13 | 118.58 | 121.52 | 126.79 | 135.80 | 139.36 | 142.65 | 144.87 | 143.37 | 143.22 |
| 84 | 93.02 | 96.18 | 98.17 | 103.65 | 112.67 | 116.03 | 119.01 | 122.37 | 120.75 | 120.02 |
| 85 | 71.55 | 73.47 | 75.65 | 81.00 | 89.61 | 93.03 | 95.79 | 99.62 | 98.41 | 96.80 |
| 86 | 50.48 | 51.73 | 53.73 | 58.59 | 67.59 | 70.57 | 73.42 | 77.00 | 76.89 | 74.46 |
| 87 | 30.86 | 31.29 | 33.14 | 37.60 | 46.19 | 48.74 | 51.60 | 54.94 | 56.10 | 52.66 |
| 88 | 12.70 | 12.69 | 14.31 | 18.14 | 25.72 | 28.17 | 31.07 | 34.24 | 35.54 | 32.04 |
| 89 | 1.13 | 1.52 | 1.99 | 2.83 | 6.94 | 9.46 | 12.09 | 14.78 | 16.12 | 12.98 |
| 90 | 0.29 | 0.26 | 0.33 | 0.40 | 5.63 | 0.39 | 1.10 | 11.90 | 13.50 | 1.44 |
| 91 | 0.24 | 0.18 | 0.26 | 0.37 | 4.33 | 0.40 | 0.42 | 9.03 | 10.88 | 1.23 |
| 92 | 0.21 | 0.13 | 0.19 | 0.33 | 3.03 | 0.41 | 0.39 | 6.16 | 8.27 | 1.03 |
| 93 | 0.21 | 0.13 | 0.18 | 0.29 | 1.72 | 0.42 | 0.42 | 3.29 | 5.65 | 0.83 |
| 94 | 0.21 | 0.14 | 0.19 | 0.29 | 0.42 | 0.44 | 0.42 | 0.42 | 3.03 | 0.62 |
| 95 | 0.21 | 0.14 | 0.19 | 0.29 | 0.42 | 0.45 | 0.44 | 0.42 | 0.42 | 0.42 |
| 96 | 0.22 | 0.14 | 0.20 | 0.29 | 0.44 | 0.47 | 0.42 | 0.44 | 0.42 | 0.39 |
| 97 | 0.22 | 0.14 | 0.21 | 0.29 | 0.47 | 0.48 | 0.47 | 0.45 | 0.44 | 0.42 |
| 98 | 0.22 | 0.15 | 0.21 | 0.29 | 0.50 | 0.50 | 0.50 | 0.50 | 0.47 | 0.45 |
| 99 | 0.22 | 0.15 | 0.22 | 0.29 | 0.55 | 0.55 | 0.52 | 0.52 | 0.52 | 0.50 |
| 100 | 0.22 | 0.15 | 0.22 | 0.29 | 0.60 | 0.57 | 0.58 | 0.58 | 0.52 | 0.52 |
| 101 | 0.23 | 0.15 | 0.23 | 0.29 | 0.65 | 0.60 | 0.63 | 0.58 | 0.55 | 0.58 |
| 102 | 0.23 | 0.16 | 0.24 | 0.29 | 0.68 | 0.68 | 0.60 | 0.60 | 0.57 | 0.60 |
| 103 | 0.23 | 0.16 | 0.31 | 0.29 | 0.76 | 0.73 | 0.65 | 0.65 | 0.63 | 0.65 |
| 104 | 0.23 | 0.28 | 0.31 | 0.29 | 0.81 | 0.78 | 0.73 | 0.68 | 0.71 | 0.68 |
| 105 | 0.23 | 0.26 | 0.34 | 0.29 | 0.86 | 0.81 | 0.78 | 0.78 | 0.76 | 0.73 |
| 106 | 0.25 | 0.28 | 0.37 | 0.29 | 0.89 | 0.89 | 0.84 | 0.81 | 0.81 | 0.76 |
| 107 | 0.26 | 0.30 | 0.37 | 0.29 | 0.97 | 0.94 | 0.92 | 0.86 | 0.85 | 0.84 |
| 108 | 0.28 | 0.32 | 0.42 | 0.31 | 0.99 | 0.94 | 0.94 | 0.92 | 0.88 | 0.84 |
| 109 | 0.29 | 0.35 | 0.48 | 0.31 | 1.04 | 1.02 | 1.00 | 0.94 | 0.92 | 0.86 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 110 | 0.31 | 0.37 | 0.54 | 0.39 | 1.12 | 1.07 | 1.05 | 0.99 | 0.96 | 0.92 |
| 111 | 0.32 | 0.42 | 0.60 | 0.42 | 1.15 | 1.10 | 1.13 | 1.01 | 0.99 | 0.92 |
| 112 | 0.34 | 0.44 | 0.65 | 0.47 | 1.23 | 1.20 | 1.18 | 1.03 | 0.99 | 0.93 |
| 113 | 0.37 | 0.47 | 0.66 | 0.60 | 1.25 | 1.23 | 1.18 | 1.05 | 1.05 | 0.93 |
| 114 | 0.39 | 0.50 | 0.66 | 0.65 | 1.28 | 1.28 | 1.18 | 1.06 | 1.10 | 0.93 |
| 115 | 0.44 | 0.47 | 0.67 | 0.65 | 1.31 | 1.31 | 1.19 | 1.08 | 1.18 | 0.94 |
| 116 | 0.50 | 0.47 | 0.67 | 0.68 | 1.38 | 1.38 | 1.19 | 1.08 | 1.18 | 0.94 |
| 117 | 0.47 | 0.50 | 0.68 | 0.68 | 1.38 | 1.41 | 1.19 | 1.07 | 1.23 | 0.94 |
| 118 | 0.57 | 0.53 | 0.68 | 0.71 | 1.43 | 1.44 | 1.20 | 1.07 | 1.24 | 0.95 |
| 119 | 0.68 | 0.56 | 0.73 | 0.71 | 1.46 | 1.46 | 1.20 | 1.06 | 1.25 | 0.95 |
| 120 | 0.70 | 0.59 | 0.76 | 0.78 | 1.46 | 1.49 | 1.20 | 1.06 | 1.26 | 0.96 |
| 121 | 0.72 | 0.62 | 0.79 | 0.76 | 1.51 | 1.52 | 1.21 | 1.06 | 1.27 | 0.96 |
| 122 | 0.74 | 0.65 | 0.84 | 0.79 | 1.57 | 1.52 | 1.21 | 1.05 | 1.28 | 0.96 |
| 123 | 0.76 | 0.63 | 0.84 | 0.86 | 1.59 | 1.54 | 1.21 | 1.05 | 1.30 | 0.97 |
| 124 | 0.78 | 0.65 | 0.91 | 0.86 | 1.62 | 1.57 | 1.22 | 1.10 | 1.31 | 1.05 |
| 125 | 0.79 | 0.68 | 0.91 | 1.02 | 1.62 | 1.59 | 1.22 | 1.23 | 1.31 | 1.18 |
| 126 | 0.81 | 0.71 | 0.91 | 1.05 | 1.62 | 1.67 | 1.22 | 1.36 | 1.36 | 1.28 |
| 127 | 0.83 | 0.74 | 0.90 | 1.07 | 1.63 | 1.67 | 1.23 | 1.52 | 1.44 | 1.39 |
| 128 | 0.81 | 0.77 | 0.90 | 1.07 | 1.63 | 1.70 | 1.22 | 1.52 | 1.54 | 1.47 |
| 129 | 0.89 | 0.80 | 0.89 | 1.15 | 1.63 | 1.70 | 1.21 | 1.52 | 1.65 | 1.52 |
| 130 | 0.99 | 0.82 | 0.89 | 1.20 | 1.64 | 1.71 | 1.20 | 1.52 | 1.65 | 1.52 |
| 131 | 0.99 | 0.84 | 0.88 | 1.20 | 1.64 | 1.71 | 1.19 | 1.52 | 1.65 | 1.53 |
| 132 | 1.02 | 0.87 | 0.88 | 1.20 | 1.65 | 1.71 | 1.19 | 1.52 | 1.65 | 1.53 |
| 133 | 1.07 | 0.89 | 0.87 | 1.20 | 1.65 | 1.72 | 1.18 | 1.52 | 1.65 | 1.54 |
| 134 | 1.10 | 0.92 | 0.87 | 1.20 | 1.66 | 1.72 | 1.17 | 1.53 | 1.65 | 1.54 |
| 135 | 1.10 | 1.02 | 0.87 | 1.20 | 1.66 | 1.72 | 1.16 | 1.53 | 1.65 | 1.55 |
| 136 | 1.11 | 1.07 | 0.84 | 1.20 | 1.66 | 1.73 | 1.15 | 1.53 | 1.65 | 1.56 |
| 137 | 1.11 | 1.10 | 0.86 | 1.19 | 1.67 | 1.73 | 1.15 | 1.53 | 1.65 | 1.56 |
| 138 | 1.12 | 1.10 | 0.84 | 1.19 | 1.67 | 1.73 | 1.14 | 1.53 | 1.65 | 1.57 |
| 139 | 1.12 | 1.10 | 0.79 | 1.19 | 1.68 | 1.73 | 1.13 | 1.53 | 1.65 | 1.57 |
| 140 | 1.13 | 1.10 | 0.76 | 1.19 | 1.68 | 1.74 | 1.12 | 1.53 | 1.65 | 1.58 |
| 141 | 1.13 | 1.10 | 0.76 | 1.19 | 1.68 | 1.74 | 1.11 | 1.53 | 1.65 | 1.58 |
| 142 | 1.14 | 1.10 | 0.73 | 1.19 | 1.69 | 1.74 | 1.12 | 1.53 | 1.65 | 1.59 |
| 143 | 1.14 | 1.10 | 0.73 | 1.18 | 1.69 | 1.75 | 1.12 | 1.53 | 1.65 | 1.59 |
| 144 | 1.14 | 1.08 | 0.71 | 1.18 | 1.70 | 1.75 | 1.13 | 1.54 | 1.65 | 1.60 |
| 145 | 1.14 | 1.06 | 0.73 | 1.18 | 1.70 | 1.75 | 1.13 | 1.54 | 1.65 | 1.60 |
| 146 | 1.14 | 1.04 | 0.71 | 1.18 | 1.70 | 1.76 | 1.13 | 1.54 | 1.65 | 1.61 |
| 147 | 1.13 | 1.02 | 0.68 | 1.18 | 1.71 | 1.76 | 1.14 | 1.54 | 1.65 | 1.61 |
| 148 | 1.13 | 0.99 | 0.66 | 1.18 | 1.71 | 1.76 | 1.14 | 1.54 | 1.65 | 1.62 |
| 149 | 1.13 | 0.99 | 0.63 | 1.15 | 1.72 | 1.77 | 1.15 | 1.53 | 1.65 | 1.63 |
| 150 | 1.13 | 0.98 | 0.63 | 1.13 | 1.72 | 1.77 | 1.15 | 1.52 | 1.65 | 1.63 |
| 151 | 1.13 | 0.97 | 0.63 | 1.10 | 1.75 | 1.77 | 1.17 | 1.52 | 1.65 | 1.64 |
| 152 | 1.14 | 0.96 | 0.62 | 1.09 | 1.80 | 1.78 | 1.18 | 1.51 | 1.65 | 1.65 |
| 153 | 1.16 | 0.96 | 0.62 | 1.08 | 1.85 | 1.78 | 1.20 | 1.50 | 1.65 | 1.66 |
| 154 | 1.17 | 0.96 | 0.62 | 1.07 | 1.90 | 1.78 | 1.21 | 1.49 | 1.65 | 1.67 |
| 155 | 1.19 | 0.96 | 0.62 | 1.06 | 1.90 | 1.79 | 1.23 | 1.49 | 1.65 | 1.68 |
| 156 | 1.21 | 0.96 | 0.61 | 1.07 | 1.93 | 1.79 | 1.26 | 1.44 | 1.65 | 1.69 |
| 157 | 1.22 | 0.97 | 0.61 | 1.08 | 1.98 | 1.79 | 1.31 | 1.41 | 1.65 | 1.70 |
| 158 | 1.24 | 0.97 | 0.61 | 1.09 | 1.96 | 1.80 | 1.39 | 1.33 | 1.65 | 1.70 |
| 159 | 1.25 | 0.97 | 0.61 | 1.10 | 1.98 | 1.80 | 1.44 | 1.28 | 1.65 | 1.71 |
| 160 | 1.27 | 0.97 | 0.60 | 1.11 | 1.98 | 1.80 | 1.52 | 1.25 | 1.65 | 1.71 |
| 161 | 1.28 | 0.97 | 0.63 | 1.12 | 1.98 | 1.86 | 1.57 | 1.25 | 1.65 | 1.71 |
| 162 | 1.30 | 1.12 | 0.66 | 1.13 | 1.98 | 1.87 | 1.58 | 1.25 | 1.65 | 1.72 |
| 163 | 1.32 | 1.15 | 0.69 | 1.33 | 1.99 | 1.88 | 1.59 | 1.25 | 1.65 | 1.72 |
| 164 | 1.33 | 1.25 | 0.72 | 1.52 | 1.99 | 1.89 | 1.60 | 1.24 | 1.65 | 1.73 |
| 165 | 1.51 | 1.31 | 0.76 | 1.60 | 1.99 | 1.90 | 1.62 | 1.24 | 1.70 | 1.73 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 166 | 1.62 | 1.41 | 0.79 | 1.60 | 1.99 | 1.91 | 1.63 | 1.24 | 1.70 | 1.76 |
| 167 | 1.70 | 1.54 | 0.79 | 1.62 | 1.99 | 1.92 | 1.64 | 1.23 | 1.71 | 1.83 |
| 168 | 1.72 | 1.52 | 0.91 | 1.67 | 1.99 | 1.93 | 1.65 | 1.23 | 1.71 | 1.84 |
| 169 | 1.83 | 1.54 | 0.93 | 1.70 | 2.00 | 1.94 | 1.66 | 1.23 | 1.71 | 1.85 |
| 170 | 1.83 | 1.56 | 0.94 | 1.71 | 2.00 | 1.96 | 1.67 | 1.22 | 1.72 | 1.86 |
| 171 | 1.88 | 1.58 | 0.95 | 1.72 | 2.00 | 1.97 | 1.66 | 1.22 | 1.72 | 1.87 |
| 172 | 1.91 | 1.60 | 0.96 | 1.73 | 2.00 | 1.98 | 1.66 | 1.22 | 1.72 | 1.87 |
| 173 | 1.93 | 1.62 | 0.97 | 1.74 | 2.00 | 1.99 | 1.65 | 1.21 | 1.70 | 1.88 |
| 174 | 1.99 | 1.64 | 0.98 | 1.75 | 2.00 | 2.00 | 1.64 | 1.21 | 1.75 | 1.89 |
| 175 | 1.99 | 1.66 | 1.00 | 1.75 | 2.00 | 2.01 | 1.64 | 1.21 | 1.80 | 1.90 |
| 176 | 2.01 | 1.67 | 1.07 | 1.75 | 2.01 | 1.96 | 1.63 | 1.21 | 1.86 | 1.90 |
| 177 | 1.99 | 1.65 | 1.13 | 1.75 | 2.01 | 1.96 | 1.62 | 1.20 | 1.91 | 1.91 |
| 178 | 1.99 | 1.65 | 1.15 | 1.75 | 2.01 | 1.96 | 1.57 | 1.20 | 1.96 | 1.91 |
| 179 | 1.99 | 1.65 | 1.18 | 1.75 | 2.01 | 1.96 | 1.57 | 1.20 | 1.93 | 1.94 |
| 180 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 | 1601.98 |
| 1 | 1601.42 | 1601.95 | 1600.58 | 1602.26 | 1601.13 | 1600.87 | 1600.84 |
| 2 | 1601.41 | 1600.52 | 1600.56 | 1601.14 | 1599.71 | 1599.43 | 1599.68 |
| 3 | 1599.97 | 1599.64 | 1598.88 | 1599.16 | 1598.26 | 1597.40 | 1598.83 |
| 4 | 1598.81 | 1598.18 | 1596.01 | 1597.39 | 1595.97 | 1595.42 | 1596.30 |
| 5 | 1596.46 | 1596.08 | 1593.08 | 1594.78 | 1593.64 | 1592.83 | 1593.42 |
| 6 | 1593.82 | 1592.69 | 1590.53 | 1591.64 | 1589.98 | 1588.55 | 1589.30 |
| 7 | 1590.70 | 1589.18 | 1587.63 | 1588.16 | 1586.17 | 1583.90 | 1584.97 |
| 8 | 1586.88 | 1585.50 | 1583.13 | 1583.58 | 1581.33 | 1579.29 | 1580.38 |
| 9 | 1582.32 | 1581.08 | 1578.49 | 1578.45 | 1576.38 | 1574.72 | 1575.53 |
| 10 | 1578.78 | 1576.83 | 1573.26 | 1572.95 | 1570.60 | 1568.69 | 1569.14 |
| 11 | 1573.15 | 1575.29 | 1567.31 | 1567.19 | 1564.80 | 1562.38 | 1562.80 |
| 12 | 1567.51 | 1568.16 | 1561.18 | 1560.21 | 1557.95 | 1555.07 | 1556.04 |
| 13 | 1561.85 | 1561.03 | 1554.24 | 1553.66 | 1550.54 | 1547.65 | 1549.03 |
| 14 | 1554.77 | 1553.89 | 1546.90 | 1545.72 | 1542.39 | 1539.72 | 1541.03 |
| 15 | 1546.81 | 1546.13 | 1538.68 | 1538.05 | 1534.48 | 1531.51 | 1531.63 |
| 16 | 1538.55 | 1537.58 | 1530.24 | 1529.43 | 1525.58 | 1522.02 | 1522.68 |
| 17 | 1529.61 | 1528.96 | 1521.23 | 1518.95 | 1515.62 | 1512.70 | 1513.16 |
| 18 | 1520.27 | 1519.68 | 1511.64 | 1510.16 | 1505.60 | 1502.38 | 1503.17 |
| 19 | 1509.92 | 1509.97 | 1502.06 | 1499.63 | 1495.34 | 1492.11 | 1492.93 |
| 20 | 1500.11 | 1499.43 | 1490.75 | 1488.91 | 1485.51 | 1481.16 | 1481.84 |
| 21 | 1489.19 | 1488.37 | 1480.51 | 1478.41 | 1474.47 | 1469.29 | 1469.89 |
| 22 | 1477.54 | 1477.29 | 1468.33 | 1465.67 | 1462.29 | 1457.61 | 1457.81 |
| 23 | 1465.76 | 1465.55 | 1457.26 | 1453.75 | 1448.31 | 1444.50 | 1445.85 |
| 24 | 1453.32 | 1452.96 | 1444.58 | 1440.97 | 1436.24 | 1431.54 | 1432.78 |
| 25 | 1440.44 | 1440.27 | 1430.57 | 1427.29 | 1422.63 | 1417.99 | 1418.73 |
| 26 | 1427.24 | 1426.84 | 1417.57 | 1413.62 | 1409.27 | 1403.90 | 1404.19 |
| 27 | 1412.90 | 1412.89 | 1402.24 | 1399.10 | 1394.55 | 1389.85 | 1390.70 |
| 28 | 1398.62 | 1398.72 | 1388.46 | 1384.27 | 1379.30 | 1374.33 | 1375.18 |
| 29 | 1384.19 | 1384.19 | 1373.65 | 1369.15 | 1364.52 | 1359.52 | 1359.14 |
| 30 | 1368.66 | 1368.68 | 1357.92 | 1354.51 | 1348.63 | 1343.62 | 1343.65 |
| 31 | 1352.95 | 1352.74 | 1341.97 | 1337.35 | 1332.58 | 1327.24 | 1326.92 |
| 32 | 1336.77 | 1336.99 | 1325.44 | 1321.37 | 1316.32 | 1310.05 | 1309.57 |
| 33 | 1319.94 | 1320.64 | 1308.04 | 1304.27 | 1298.81 | 1293.15 | 1292.82 |
| 34 | 1303.02 | 1303.21 | 1290.90 | 1286.12 | 1281.25 | 1275.38 | 1274.66 |
| 35 | 1285.45 | 1285.59 | 1274.11 | 1268.89 | 1263.22 | 1257.34 | 1256.54 |
| 36 | 1267.53 | 1267.68 | 1256.00 | 1250.61 | 1245.17 | 1239.34 | 1237.88 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|----|---------|---------|---------|---------|---------|---------|---------|
| 37 | 1249.12 | 1249.75 | 1237.16 | 1232.52 | 1226.48 | 1220.66 | 1219.58 |
| 38 | 1230.27 | 1230.47 | 1218.00 | 1212.68 | 1207.70 | 1201.25 | 1200.36 |
| 39 | 1211.11 | 1211.20 | 1198.56 | 1193.70 | 1188.15 | 1181.43 | 1180.82 |
| 40 | 1191.69 | 1191.78 | 1179.81 | 1173.25 | 1168.15 | 1162.83 | 1161.52 |
| 41 | 1171.58 | 1171.77 | 1159.35 | 1153.39 | 1146.99 | 1141.85 | 1140.45 |
| 42 | 1151.12 | 1151.79 | 1139.83 | 1133.55 | 1127.05 | 1120.96 | 1119.45 |
| 43 | 1130.62 | 1130.51 | 1118.93 | 1111.88 | 1105.76 | 1100.12 | 1098.39 |
| 44 | 1109.16 | 1109.41 | 1097.17 | 1090.77 | 1084.56 | 1078.26 | 1077.49 |
| 45 | 1087.76 | 1087.88 | 1076.66 | 1069.32 | 1062.53 | 1056.78 | 1054.94 |
| 46 | 1065.76 | 1066.07 | 1054.07 | 1047.65 | 1041.04 | 1034.55 | 1032.92 |
| 47 | 1043.74 | 1044.00 | 1031.59 | 1025.16 | 1018.17 | 1012.24 | 1009.84 |
| 48 | 1021.42 | 1021.47 | 1009.16 | 1002.07 | 995.22 | 989.15 | 987.13 |
| 49 | 998.37 | 998.82 | 986.52 | 979.21 | 972.39 | 966.27 | 964.32 |
| 50 | 975.35 | 975.54 | 963.76 | 955.89 | 949.74 | 943.22 | 940.70 |
| 51 | 951.63 | 951.93 | 940.15 | 932.50 | 925.39 | 919.69 | 917.20 |
| 52 | 927.89 | 928.34 | 916.28 | 908.73 | 902.30 | 895.54 | 893.07 |
| 53 | 904.20 | 904.10 | 892.56 | 884.76 | 877.67 | 871.19 | 869.63 |
| 54 | 879.63 | 879.84 | 868.14 | 860.29 | 852.66 | 845.93 | 843.76 |
| 55 | 855.12 | 855.45 | 843.32 | 836.62 | 828.68 | 822.49 | 820.68 |
| 56 | 830.30 | 830.50 | 820.10 | 812.97 | 804.71 | 799.11 | 797.63 |
| 57 | 805.23 | 805.54 | 796.89 | 789.31 | 780.78 | 774.40 | 772.60 |
| 58 | 780.03 | 780.00 | 772.48 | 764.39 | 755.65 | 749.24 | 747.52 |
| 59 | 754.86 | 755.06 | 746.69 | 738.54 | 730.01 | 723.88 | 722.04 |
| 60 | 729.43 | 728.92 | 721.35 | 713.09 | 704.49 | 698.09 | 696.44 |
| 61 | 703.31 | 703.36 | 695.58 | 687.57 | 678.56 | 672.57 | 670.65 |
| 62 | 677.64 | 677.76 | 669.90 | 661.50 | 652.77 | 646.46 | 644.66 |
| 63 | 651.32 | 651.35 | 643.61 | 635.59 | 626.82 | 620.47 | 619.05 |
| 64 | 625.33 | 625.11 | 617.65 | 609.27 | 600.93 | 594.64 | 592.62 |
| 65 | 598.93 | 598.84 | 591.72 | 583.23 | 574.55 | 568.30 | 567.06 |
| 66 | 572.80 | 572.79 | 565.17 | 556.51 | 548.24 | 542.34 | 540.29 |
| 67 | 546.59 | 545.98 | 539.05 | 530.30 | 521.88 | 516.07 | 514.35 |
| 68 | 520.16 | 519.91 | 512.80 | 504.21 | 495.87 | 490.05 | 488.19 |
| 69 | 493.86 | 493.34 | 486.48 | 477.89 | 469.37 | 463.56 | 462.18 |
| 70 | 467.18 | 466.95 | 460.11 | 451.56 | 443.52 | 437.51 | 435.92 |
| 71 | 441.02 | 440.60 | 434.18 | 425.86 | 417.58 | 411.62 | 410.42 |
| 72 | 415.00 | 414.63 | 407.90 | 399.82 | 391.45 | 385.74 | 384.07 |
| 73 | 388.98 | 388.23 | 381.44 | 373.65 | 365.46 | 360.04 | 358.33 |
| 74 | 363.06 | 362.44 | 354.39 | 347.78 | 340.11 | 334.47 | 332.78 |
| 75 | 337.44 | 335.69 | 327.68 | 321.06 | 314.73 | 309.32 | 307.61 |
| 76 | 312.13 | 308.97 | 301.07 | 294.61 | 289.44 | 283.80 | 282.58 |
| 77 | 286.96 | 282.41 | 275.11 | 268.25 | 264.78 | 259.18 | 257.55 |
| 78 | 262.15 | 256.63 | 249.08 | 242.56 | 239.26 | 234.41 | 232.47 |
| 79 | 236.54 | 231.25 | 223.55 | 217.02 | 213.95 | 210.02 | 207.96 |
| 80 | 211.60 | 205.93 | 198.85 | 192.34 | 188.73 | 185.89 | 183.99 |
| 81 | 186.66 | 181.52 | 174.17 | 168.26 | 164.19 | 162.15 | 160.60 |
| 82 | 162.30 | 157.39 | 150.34 | 144.21 | 140.09 | 138.95 | 137.30 |
| 83 | 138.18 | 133.59 | 126.83 | 120.96 | 116.59 | 116.14 | 115.13 |
| 84 | 114.65 | 110.50 | 103.97 | 98.19 | 93.69 | 93.29 | 93.02 |
| 85 | 91.69 | 87.62 | 81.31 | 75.42 | 71.04 | 70.99 | 71.55 |
| 86 | 69.05 | 65.37 | 59.07 | 53.49 | 49.59 | 49.22 | 50.48 |
| 87 | 47.74 | 43.84 | 37.91 | 32.42 | 29.26 | 29.32 | 30.86 |
| 88 | 27.21 | 23.39 | 17.97 | 13.44 | 11.48 | 11.11 | 12.70 |
| 89 | 9.59 | 6.14 | 1.99 | 1.19 | 0.90 | 1.11 | 1.13 |
| 90 | 0.52 | 5.00 | 0.35 | 0.32 | 0.30 | 0.30 | 0.29 |
| 91 | 0.42 | 3.85 | 0.26 | 0.29 | 0.26 | 0.21 | 0.24 |
| 92 | 0.39 | 2.71 | 0.29 | 0.24 | 0.24 | 0.16 | 0.21 |

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| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| 93 | 0.39 | 1.56 | 0.26 | 0.24 | 0.24 | 0.16 | 0.21 |
| 94 | 0.45 | 0.42 | 0.23 | 0.25 | 0.24 | 0.15 | 0.21 |
| 95 | 0.45 | 0.45 | 0.23 | 0.25 | 0.25 | 0.14 | 0.21 |
| 96 | 0.47 | 0.45 | 0.23 | 0.26 | 0.25 | 0.13 | 0.22 |
| 97 | 0.45 | 0.47 | 0.23 | 0.26 | 0.26 | 0.12 | 0.22 |
| 98 | 0.50 | 0.55 | 0.22 | 0.27 | 0.26 | 0.11 | 0.22 |
| 99 | 0.52 | 0.58 | 0.22 | 0.27 | 0.27 | 0.10 | 0.22 |
| 100 | 0.55 | 0.60 | 0.22 | 0.28 | 0.28 | 0.13 | 0.22 |
| 101 | 0.60 | 0.71 | 0.22 | 0.29 | 0.28 | 0.16 | 0.23 |
| 102 | 0.66 | 0.73 | 0.21 | 0.29 | 0.29 | 0.18 | 0.23 |
| 103 | 0.71 | 0.73 | 0.21 | 0.30 | 0.31 | 0.26 | 0.23 |
| 104 | 0.76 | 0.79 | 0.21 | 0.30 | 0.31 | 0.27 | 0.23 |
| 105 | 0.79 | 0.86 | 0.26 | 0.31 | 0.37 | 0.29 | 0.23 |
| 106 | 0.87 | 0.89 | 0.29 | 0.31 | 0.34 | 0.30 | 0.25 |
| 107 | 0.92 | 0.94 | 0.31 | 0.31 | 0.34 | 0.31 | 0.26 |
| 108 | 0.92 | 1.02 | 0.34 | 0.34 | 0.37 | 0.34 | 0.28 |
| 109 | 0.97 | 1.13 | 0.36 | 0.34 | 0.39 | 0.37 | 0.29 |
| 110 | 1.05 | 1.20 | 0.39 | 0.42 | 0.44 | 0.39 | 0.31 |
| 111 | 1.13 | 1.26 | 0.39 | 0.49 | 0.50 | 0.42 | 0.32 |
| 112 | 1.15 | 1.31 | 0.42 | 0.57 | 0.58 | 0.44 | 0.34 |
| 113 | 1.16 | 1.36 | 0.47 | 0.70 | 0.68 | 0.47 | 0.37 |
| 114 | 1.18 | 1.42 | 0.60 | 0.70 | 0.71 | 0.52 | 0.39 |
| 115 | 1.20 | 1.47 | 0.65 | 0.70 | 0.71 | 0.54 | 0.44 |
| 116 | 1.20 | 1.49 | 0.73 | 0.70 | 0.76 | 0.56 | 0.50 |
| 117 | 1.20 | 1.52 | 0.73 | 0.72 | 0.78 | 0.58 | 0.47 |
| 118 | 1.21 | 1.54 | 0.74 | 0.74 | 0.79 | 0.61 | 0.57 |
| 119 | 1.21 | 1.57 | 0.74 | 0.75 | 0.79 | 0.63 | 0.68 |
| 120 | 1.21 | 1.57 | 0.74 | 0.77 | 0.80 | 0.73 | 0.70 |
| 121 | 1.22 | 1.57 | 0.75 | 0.78 | 0.80 | 0.71 | 0.72 |
| 122 | 1.22 | 1.58 | 0.75 | 0.78 | 0.81 | 0.71 | 0.74 |
| 123 | 1.23 | 1.58 | 0.75 | 0.81 | 0.81 | 0.73 | 0.76 |
| 124 | 1.23 | 1.58 | 0.76 | 0.81 | 0.83 | 0.81 | 0.78 |
| 125 | 1.23 | 1.58 | 0.81 | 0.84 | 0.84 | 0.97 | 0.79 |
| 126 | 1.24 | 1.58 | 0.86 | 0.94 | 0.86 | 1.07 | 0.81 |
| 127 | 1.24 | 1.58 | 0.91 | 0.91 | 0.85 | 1.12 | 0.83 |
| 128 | 1.24 | 1.59 | 1.01 | 1.04 | 0.85 | 1.10 | 0.81 |
| 129 | 1.25 | 1.59 | 1.02 | 1.12 | 0.84 | 1.12 | 0.89 |
| 130 | 1.25 | 1.59 | 1.09 | 1.10 | 0.84 | 1.15 | 0.99 |
| 131 | 1.25 | 1.59 | 1.12 | 1.10 | 0.84 | 1.15 | 0.99 |
| 132 | 1.26 | 1.59 | 1.12 | 1.12 | 0.83 | 1.16 | 1.02 |
| 133 | 1.23 | 1.59 | 1.11 | 1.12 | 0.83 | 1.17 | 1.07 |
| 134 | 1.23 | 1.59 | 1.11 | 1.11 | 0.82 | 1.17 | 1.10 |
| 135 | 1.23 | 1.59 | 1.11 | 1.11 | 0.82 | 1.18 | 1.10 |
| 136 | 1.23 | 1.58 | 1.10 | 1.10 | 0.81 | 1.18 | 1.11 |
| 137 | 1.23 | 1.58 | 1.10 | 1.10 | 0.81 | 1.18 | 1.11 |
| 138 | 1.23 | 1.57 | 1.10 | 1.09 | 0.79 | 1.18 | 1.12 |
| 139 | 1.18 | 1.57 | 1.09 | 1.09 | 0.78 | 1.18 | 1.12 |
| 140 | 1.20 | 1.54 | 1.09 | 1.08 | 0.76 | 1.18 | 1.13 |
| 141 | 1.18 | 1.52 | 1.09 | 1.08 | 0.73 | 1.17 | 1.13 |
| 142 | 1.20 | 1.52 | 1.08 | 1.07 | 0.73 | 1.17 | 1.14 |
| 143 | 1.10 | 1.54 | 1.08 | 1.02 | 0.68 | 1.16 | 1.14 |
| 144 | 1.10 | 1.49 | 1.08 | 0.97 | 0.63 | 1.16 | 1.14 |
| 145 | 1.10 | 1.47 | 1.07 | 0.92 | 0.60 | 1.15 | 1.14 |
| 146 | 1.10 | 1.49 | 1.07 | 0.89 | 0.55 | 1.15 | 1.14 |
| 147 | 1.10 | 1.44 | 1.02 | 0.91 | 0.55 | 1.07 | 1.13 |
| 148 | 1.10 | 1.47 | 0.97 | 0.91 | 0.55 | 1.05 | 1.13 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| 149 | 1.10 | 1.44 | 0.96 | 0.91 | 0.55 | 1.02 | 1.13 |
| 150 | 1.10 | 1.39 | 0.96 | 0.90 | 0.54 | 1.02 | 1.13 |
| 151 | 1.13 | 1.36 | 0.96 | 0.90 | 0.54 | 0.97 | 1.13 |
| 152 | 1.18 | 1.33 | 0.95 | 0.90 | 0.54 | 0.99 | 1.14 |
| 153 | 1.23 | 1.31 | 0.95 | 0.89 | 0.54 | 0.97 | 1.16 |
| 154 | 1.28 | 1.28 | 0.95 | 0.89 | 0.54 | 0.97 | 1.17 |
| 155 | 1.31 | 1.26 | 0.95 | 0.88 | 0.53 | 0.99 | 1.19 |
| 156 | 1.34 | 1.18 | 0.94 | 0.88 | 0.53 | 1.01 | 1.21 |
| 157 | 1.44 | 1.17 | 0.94 | 0.88 | 0.53 | 1.03 | 1.22 |
| 158 | 1.45 | 1.17 | 0.94 | 0.87 | 0.53 | 1.05 | 1.24 |
| 159 | 1.45 | 1.16 | 0.96 | 0.87 | 0.53 | 1.07 | 1.25 |
| 160 | 1.45 | 1.16 | 0.99 | 0.87 | 0.53 | 1.09 | 1.27 |
| 161 | 1.46 | 1.16 | 1.02 | 0.86 | 0.52 | 1.11 | 1.28 |
| 162 | 1.46 | 1.15 | 1.17 | 1.07 | 0.70 | 1.13 | 1.30 |
| 163 | 1.47 | 1.13 | 1.38 | 1.27 | 0.71 | 1.15 | 1.32 |
| 164 | 1.47 | 1.10 | 1.54 | 1.31 | 0.76 | 1.30 | 1.33 |
| 165 | 1.55 | 1.13 | 1.64 | 1.41 | 0.81 | 1.44 | 1.51 |
| 166 | 1.60 | 1.10 | 1.83 | 1.49 | 0.84 | 1.54 | 1.62 |
| 167 | 1.62 | 1.11 | 1.90 | 1.51 | 0.86 | 1.62 | 1.70 |
| 168 | 1.63 | 1.11 | 1.91 | 1.52 | 0.94 | 1.70 | 1.72 |
| 169 | 1.63 | 1.12 | 1.91 | 1.49 | 0.99 | 1.70 | 1.83 |
| 170 | 1.63 | 1.12 | 1.92 | 1.57 | 1.04 | 1.75 | 1.83 |
| 171 | 1.63 | 1.13 | 1.92 | 1.56 | 1.05 | 1.75 | 1.88 |
| 172 | 1.64 | 1.14 | 1.93 | 1.56 | 1.07 | 1.78 | 1.91 |
| 173 | 1.64 | 1.14 | 1.93 | 1.56 | 1.15 | 1.83 | 1.93 |
| 174 | 1.64 | 1.15 | 1.96 | 1.55 | 1.12 | 1.91 | 1.99 |
| 175 | 1.65 | 1.15 | 1.93 | 1.55 | 1.12 | 1.93 | 1.99 |
| 176 | 1.65 | 1.15 | 1.98 | 1.54 | 1.20 | 1.96 | 2.01 |
| 177 | 1.65 | 1.15 | 1.96 | 1.54 | 1.18 | 1.96 | 1.99 |
| 178 | 1.65 | 1.15 | 1.96 | 1.54 | 1.20 | 1.96 | 1.99 |
| 179 | 1.65 | 1.15 | 1.96 | 1.54 | 1.20 | 1.99 | 1.99 |
| 180 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 586.36 | N.A. | 12.60 |
| 0-30 | 1246.35 | N.A. | 26.70 |
| 0-40 | 2044.02 | N.A. | 43.90 |
| 0-60 | 3628.69 | N.A. | 77.90 |
| 0-80 | 4558.21 | N.A. | 97.80 |
| 0-90 | 4654.75 | N.A. | 99.90 |
| 10-90 | 4503.16 | N.A. | 96.60 |
| 20-40 | 1457.67 | N.A. | 31.30 |
| 20-50 | 2287.94 | N.A. | 49.10 |
| 40-70 | 2167.59 | N.A. | 46.50 |
| 60-80 | 929.53 | N.A. | 19.90 |
| 70-80 | 346.60 | N.A. | 7.40 |
| 80-90 | 96.54 | N.A. | 2.10 |
| 90-110 | 1.48 | N.A. | 0.00 |
| 90-120 | 2.36 | N.A. | 0.10 |
| 90-130 | 3.36 | N.A. | 0.10 |
| 90-150 | 5.13 | N.A. | 0.10 |
| 90-180 | 6.25 | N.A. | 0.10 |
| 110-180 | 4.77 | N.A. | 0.10 |
| 0-180 | 4661.00 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 151.60 |
| 10-20 | 434.76 |
| 20-30 | 659.99 |
| 30-40 | 797.68 |
| 40-50 | 830.28 |
| 50-60 | 754.38 |
| 60-70 | 582.93 |
| 70-80 | 346.60 |
| 80-90 | 96.54 |
| 90-100 | 0.90 |
| 100-110 | 0.57 |
| 110-120 | 0.88 |
| 120-130 | 1.00 |
| 130-140 | 0.99 |
| 140-150 | 0.78 |
| 150-160 | 0.56 |
| 160-170 | 0.40 |
| 170-180 | 0.16 |

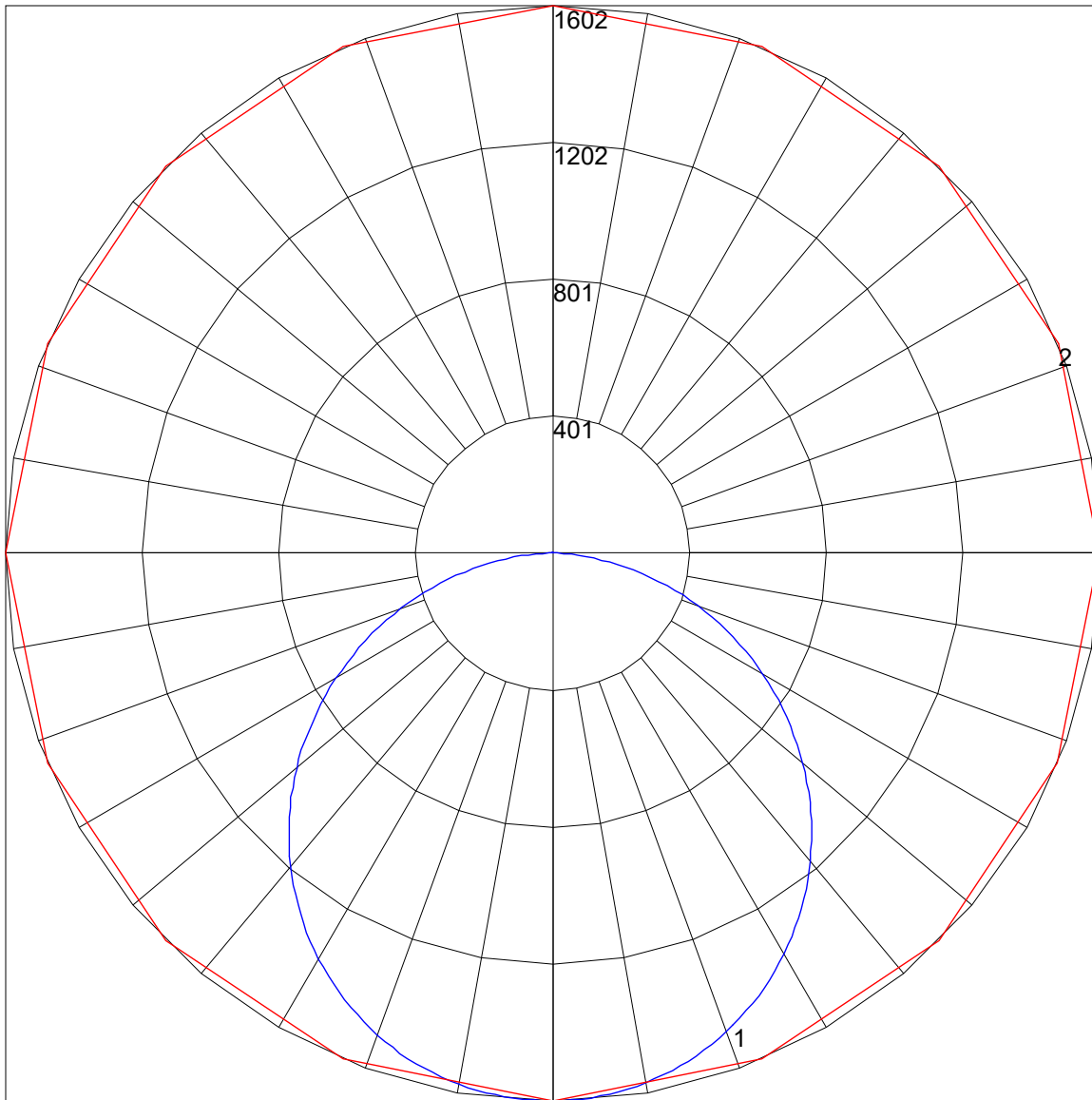
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 |

POLAR GRAPH



Maximum Candela = 1602.26 Located At Horizontal Angle = 292.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)