



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-G-40W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-G-40W-5000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 07 March 2022
 [ISSUEDATE] 2022-03-07 16:03:30
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-2000A_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-G-40W-5000K-D120
 [LUMCAT]] HZX-EX-G-40W-5000K-D120
 [LAMP] 3866 LUMENS
 [_SEARCH_SOURCETYPE] LED

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

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | 3865.5 (1 lamp) |
| Total Lamp Lumens | 3865.5 |
| Luminaire Lumens | 3851 |
| Total Luminaire Efficiency | 100 % |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 39.9969 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.66 |
| Spacing Criterion (90-270) | 1.68 |
| Spacing Criterion (Diagonal) | 1.74 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.60 m |
| Luminous Width (90-270) | 0.45 m |
| Luminous Height | 0.00 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5008 | 4056 | 5514 |
| 55 | 2577 | 1453 | 3133 |
| 65 | 907 | 903 | 812 |
| 75 | 997 | 941 | 804 |
| 85 | 0 | 0 | 1731 |

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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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 957.80 | 964.51 | 971.09 | 977.51 | 983.76 | 989.83 | 995.70 | 1001.37 | 1006.82 | 1014.75 |
| 5.0 | 1024.61 | 1038.48 | 1052.07 | 1065.35 | 1078.28 | 1086.92 | 1088.77 | 1090.15 | 1091.04 | 1092.66 |
| 7.5 | 1091.43 | 1112.89 | 1133.92 | 1156.05 | 1164.21 | 1172.42 | 1181.80 | 1179.83 | 1177.18 | 1173.42 |
| 10.0 | 1158.24 | 1187.70 | 1216.58 | 1238.73 | 1257.24 | 1271.46 | 1278.78 | 1284.65 | 1284.17 | 1281.95 |
| 12.5 | 1225.06 | 1262.90 | 1299.53 | 1332.25 | 1361.30 | 1382.92 | 1399.81 | 1410.55 | 1413.14 | 1407.51 |
| 15.0 | 1291.87 | 1338.49 | 1386.44 | 1440.79 | 1477.55 | 1513.36 | 1540.46 | 1549.44 | 1549.83 | 1542.15 |
| 17.5 | 1243.70 | 1290.31 | 1341.55 | 1394.22 | 1445.44 | 1488.83 | 1520.04 | 1541.87 | 1558.91 | 1571.50 |
| 20.0 | 1195.52 | 1239.06 | 1288.80 | 1339.31 | 1387.24 | 1427.52 | 1454.53 | 1476.09 | 1491.63 | 1506.12 |
| 22.5 | 1147.35 | 1187.17 | 1235.37 | 1279.17 | 1325.11 | 1359.71 | 1386.50 | 1408.49 | 1425.25 | 1435.79 |
| 25.0 | 1099.17 | 1129.92 | 1169.32 | 1213.68 | 1256.76 | 1291.58 | 1320.53 | 1342.33 | 1354.26 | 1361.48 |
| 27.5 | 1051.00 | 1072.39 | 1104.09 | 1144.46 | 1186.31 | 1224.48 | 1255.85 | 1273.25 | 1278.24 | 1288.98 |
| 30.0 | 1002.82 | 1012.62 | 1035.58 | 1072.19 | 1117.35 | 1158.77 | 1187.11 | 1196.41 | 1205.27 | 1216.68 |
| 32.5 | 995.12 | 1001.18 | 1018.20 | 1047.37 | 1084.65 | 1118.47 | 1136.45 | 1138.24 | 1144.71 | 1149.72 |
| 35.0 | 987.41 | 989.34 | 1000.50 | 1024.49 | 1055.08 | 1081.54 | 1092.25 | 1098.19 | 1100.45 | 1100.50 |
| 37.5 | 979.71 | 976.66 | 980.64 | 997.89 | 1020.95 | 1040.39 | 1051.00 | 1054.88 | 1051.05 | 1043.85 |
| 40.0 | 972.00 | 963.18 | 959.15 | 967.70 | 982.74 | 999.38 | 1010.67 | 1007.78 | 994.24 | 979.92 |
| 42.5 | 964.30 | 948.95 | 935.44 | 934.22 | 941.68 | 958.58 | 969.68 | 956.20 | 931.08 | 909.90 |
| 45.0 | 956.59 | 934.00 | 909.62 | 898.05 | 898.38 | 919.97 | 922.29 | 898.92 | 861.63 | 835.61 |
| 47.5 | 817.24 | 798.63 | 781.42 | 777.26 | 786.90 | 815.45 | 820.48 | 800.94 | 773.07 | 753.13 |
| 50.0 | 677.89 | 661.46 | 649.19 | 647.69 | 659.61 | 683.66 | 684.21 | 665.63 | 646.20 | 633.13 |
| 52.5 | 538.54 | 526.29 | 517.35 | 518.26 | 531.60 | 551.22 | 550.24 | 535.30 | 524.38 | 518.11 |
| 55.0 | 399.19 | 390.86 | 386.53 | 389.52 | 402.01 | 416.88 | 417.42 | 410.24 | 407.11 | 406.78 |
| 57.5 | 259.83 | 255.64 | 255.87 | 260.71 | 271.58 | 282.84 | 287.35 | 289.48 | 293.78 | 299.02 |
| 60.0 | 120.48 | 120.74 | 125.49 | 131.88 | 139.92 | 149.99 | 160.60 | 172.10 | 183.75 | 194.76 |
| 62.5 | 112.02 | 111.14 | 112.11 | 112.56 | 111.94 | 111.53 | 111.93 | 113.37 | 114.73 | 114.82 |
| 65.0 | 103.56 | 102.73 | 103.28 | 103.41 | 102.62 | 102.05 | 102.45 | 103.86 | 105.40 | 105.20 |
| 67.5 | 95.10 | 94.31 | 94.42 | 94.23 | 93.33 | 92.54 | 92.97 | 94.44 | 95.79 | 95.67 |
| 70.0 | 86.63 | 85.88 | 85.54 | 85.04 | 84.05 | 83.01 | 83.52 | 85.08 | 86.19 | 86.09 |
| 72.5 | 78.17 | 77.44 | 76.64 | 75.82 | 74.77 | 73.38 | 74.08 | 75.72 | 76.58 | 76.51 |
| 75.0 | 69.71 | 68.99 | 67.72 | 66.59 | 65.48 | 63.95 | 64.62 | 66.35 | 66.92 | 67.03 |
| 77.5 | 34.86 | 34.62 | 34.37 | 34.43 | 34.72 | 34.99 | 36.76 | 39.44 | 41.59 | 43.94 |
| 80.0 | 0.00 | 0.13 | 0.50 | 1.12 | 1.95 | 2.98 | 4.34 | 6.07 | 7.96 | 10.13 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 1013.49 | 1012.04 | 1010.40 | 1008.58 | 1006.58 | 1004.40 | 1002.03 | 999.48 | 996.76 | 993.86 |
| 5.0 | 1087.70 | 1080.69 | 1073.12 | 1064.98 | 1056.25 | 1046.66 | 1035.61 | 1024.06 | 1012.02 | 999.50 |
| 7.5 | 1167.04 | 1158.31 | 1148.36 | 1137.09 | 1124.05 | 1110.09 | 1095.23 | 1080.22 | 1066.76 | 1048.06 |
| 10.0 | 1275.08 | 1264.20 | 1251.74 | 1239.49 | 1226.12 | 1212.57 | 1202.02 | 1190.68 | 1178.77 | 1167.11 |
| 12.5 | 1398.95 | 1387.87 | 1376.64 | 1366.00 | 1354.63 | 1343.00 | 1330.65 | 1315.73 | 1300.43 | 1286.70 |
| 15.0 | 1532.40 | 1521.14 | 1508.82 | 1495.71 | 1478.14 | 1460.64 | 1445.87 | 1430.86 | 1413.64 | 1397.25 |
| 17.5 | 1584.61 | 1597.71 | 1605.86 | 1606.86 | 1586.62 | 1561.93 | 1535.69 | 1504.73 | 1469.68 | 1431.25 |
| 20.0 | 1517.21 | 1525.22 | 1536.19 | 1543.08 | 1543.87 | 1537.52 | 1514.29 | 1480.96 | 1414.81 | 1350.13 |
| 22.5 | 1443.91 | 1454.04 | 1460.23 | 1455.27 | 1436.99 | 1404.72 | 1360.22 | 1304.62 | 1253.30 | 1205.22 |
| 25.0 | 1371.54 | 1376.64 | 1371.26 | 1352.85 | 1319.07 | 1266.67 | 1225.00 | 1181.68 | 1148.39 | 1126.53 |
| 27.5 | 1296.44 | 1294.62 | 1281.59 | 1254.98 | 1219.03 | 1181.84 | 1149.69 | 1127.45 | 1111.79 | 1099.78 |
| 30.0 | 1221.40 | 1219.97 | 1207.72 | 1186.26 | 1161.28 | 1138.01 | 1118.03 | 1101.95 | 1086.95 | 1070.98 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 32.5 | 1157.66 | 1165.23 | 1162.97 | 1152.22 | 1133.27 | 1112.42 | 1092.50 | 1071.11 | 1051.07 | 1041.27 |
| 35.0 | 1103.77 | 1109.58 | 1117.01 | 1119.01 | 1110.63 | 1084.94 | 1056.88 | 1036.86 | 1033.62 | 1047.05 |
| 37.5 | 1040.26 | 1041.84 | 1041.04 | 1033.49 | 1024.08 | 1012.44 | 1015.22 | 1027.24 | 1037.95 | 1046.31 |
| 40.0 | 971.74 | 966.48 | 956.33 | 942.80 | 926.06 | 920.48 | 937.06 | 968.25 | 1000.25 | 1018.49 |
| 42.5 | 896.69 | 884.43 | 867.03 | 845.98 | 829.91 | 830.84 | 850.37 | 868.90 | 893.42 | 924.86 |
| 45.0 | 816.90 | 797.73 | 772.84 | 747.20 | 729.33 | 730.93 | 739.28 | 753.07 | 774.65 | 807.21 |
| 47.5 | 733.91 | 704.61 | 675.34 | 645.68 | 624.11 | 615.45 | 616.77 | 626.61 | 645.96 | 676.94 |
| 50.0 | 621.51 | 600.34 | 572.23 | 534.85 | 502.79 | 489.39 | 485.24 | 488.98 | 508.26 | 539.81 |
| 52.5 | 508.63 | 491.14 | 467.01 | 435.24 | 405.38 | 375.86 | 342.94 | 344.63 | 363.80 | 393.41 |
| 55.0 | 401.00 | 389.10 | 370.17 | 347.10 | 326.58 | 301.03 | 273.60 | 248.42 | 225.04 | 242.64 |
| 57.5 | 299.00 | 293.28 | 282.28 | 270.05 | 255.74 | 239.30 | 218.75 | 201.21 | 181.30 | 165.35 |
| 60.0 | 202.31 | 205.99 | 205.13 | 202.61 | 196.56 | 186.39 | 173.89 | 161.16 | 148.17 | 139.49 |
| 62.5 | 114.79 | 124.98 | 135.20 | 141.43 | 145.04 | 141.87 | 137.05 | 129.60 | 122.88 | 119.84 |
| 65.0 | 105.23 | 105.22 | 104.97 | 103.57 | 105.13 | 104.43 | 106.19 | 104.79 | 103.04 | 103.21 |
| 67.5 | 95.81 | 96.03 | 95.98 | 95.07 | 95.42 | 92.13 | 89.74 | 87.24 | 86.71 | 89.55 |
| 70.0 | 86.52 | 87.01 | 87.14 | 86.97 | 85.99 | 84.46 | 81.98 | 79.60 | 78.93 | 79.81 |
| 72.5 | 77.32 | 78.10 | 78.28 | 78.89 | 77.60 | 77.06 | 74.62 | 72.22 | 72.35 | 73.11 |
| 75.0 | 68.21 | 69.29 | 69.71 | 70.27 | 70.26 | 69.90 | 67.34 | 65.43 | 65.81 | 66.45 |
| 77.5 | 47.44 | 51.31 | 55.06 | 59.06 | 63.35 | 62.74 | 60.13 | 58.69 | 59.28 | 59.62 |
| 80.0 | 12.80 | 15.82 | 19.00 | 22.54 | 27.06 | 30.84 | 33.90 | 38.07 | 43.72 | 49.42 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.37 | 5.95 | 10.94 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 990.37 | 987.49 | 982.39 | 976.54 | 970.69 | 964.86 | 959.07 | 953.32 | 947.66 | 942.08 |
| 5.0 | 986.55 | 971.88 | 960.36 | 947.63 | 934.68 | 921.55 | 908.28 | 894.92 | 881.50 | 868.08 |
| 7.5 | 1037.86 | 1022.14 | 1009.71 | 997.68 | 985.10 | 971.99 | 958.37 | 945.64 | 929.96 | 915.62 |
| 10.0 | 1154.78 | 1143.41 | 1127.90 | 1113.37 | 1096.39 | 1082.94 | 1067.94 | 1054.59 | 1040.65 | 1026.10 |
| 12.5 | 1274.83 | 1262.82 | 1249.98 | 1236.88 | 1223.89 | 1210.92 | 1198.13 | 1185.71 | 1173.51 | 1165.12 |
| 15.0 | 1378.02 | 1360.71 | 1339.13 | 1316.16 | 1295.22 | 1273.16 | 1253.05 | 1235.75 | 1222.56 | 1215.13 |
| 17.5 | 1389.90 | 1349.72 | 1315.67 | 1289.05 | 1271.60 | 1267.66 | 1270.58 | 1284.85 | 1311.38 | 1342.18 |
| 20.0 | 1298.12 | 1262.51 | 1246.72 | 1250.55 | 1271.52 | 1306.72 | 1348.21 | 1384.66 | 1424.10 | 1465.30 |
| 22.5 | 1164.28 | 1165.83 | 1183.29 | 1211.04 | 1243.93 | 1280.01 | 1316.65 | 1353.90 | 1391.46 | 1425.71 |
| 25.0 | 1113.62 | 1105.58 | 1100.74 | 1134.52 | 1166.49 | 1198.52 | 1230.36 | 1264.14 | 1308.45 | 1352.68 |
| 27.5 | 1091.33 | 1080.95 | 1069.85 | 1055.39 | 1077.44 | 1127.16 | 1179.71 | 1230.60 | 1281.33 | 1319.00 |
| 30.0 | 1055.82 | 1049.66 | 1057.59 | 1075.85 | 1100.46 | 1126.54 | 1174.47 | 1206.50 | 1233.73 | 1254.25 |
| 32.5 | 1048.36 | 1066.34 | 1090.23 | 1109.38 | 1119.95 | 1122.47 | 1118.45 | 1127.41 | 1137.37 | 1143.84 |
| 35.0 | 1065.03 | 1078.02 | 1084.85 | 1080.23 | 1069.88 | 1058.57 | 1049.76 | 1044.28 | 1062.06 | 1083.34 |
| 37.5 | 1049.84 | 1048.37 | 1036.57 | 1028.79 | 1022.56 | 1018.19 | 1019.83 | 1027.46 | 1040.18 | 1054.75 |
| 40.0 | 1014.82 | 1008.46 | 1003.32 | 997.96 | 997.36 | 1002.69 | 1013.22 | 1029.95 | 1054.70 | 1074.42 |
| 42.5 | 967.28 | 983.03 | 976.79 | 975.10 | 977.29 | 983.33 | 1001.43 | 1034.75 | 1082.77 | 1142.06 |
| 45.0 | 849.65 | 897.98 | 946.37 | 936.43 | 935.32 | 949.15 | 979.60 | 1018.61 | 1061.07 | 1108.08 |
| 47.5 | 721.42 | 766.27 | 810.01 | 857.29 | 865.79 | 875.04 | 894.52 | 920.48 | 958.21 | 990.68 |
| 50.0 | 577.31 | 618.27 | 662.24 | 702.30 | 734.56 | 745.47 | 754.15 | 766.43 | 784.07 | 814.73 |
| 52.5 | 428.95 | 471.17 | 512.64 | 549.12 | 569.84 | 575.95 | 572.60 | 593.27 | 617.13 | 636.59 |
| 55.0 | 283.02 | 329.19 | 371.99 | 403.24 | 417.58 | 421.81 | 419.07 | 412.40 | 417.68 | 443.02 |
| 57.5 | 156.37 | 198.86 | 245.94 | 276.94 | 293.26 | 300.28 | 274.39 | 241.73 | 250.10 | 290.73 |
| 60.0 | 135.88 | 135.70 | 141.41 | 177.19 | 198.84 | 193.40 | 177.11 | 162.06 | 155.00 | 184.33 |
| 62.5 | 119.44 | 121.24 | 120.56 | 118.43 | 127.25 | 131.53 | 129.80 | 127.48 | 125.55 | 122.08 |
| 65.0 | 105.68 | 106.94 | 106.59 | 104.34 | 102.43 | 102.48 | 106.45 | 106.91 | 104.90 | 106.71 |
| 67.5 | 92.36 | 94.37 | 93.95 | 93.21 | 92.32 | 92.08 | 91.75 | 91.38 | 91.50 | 90.76 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 70.0 | 81.28 | 83.03 | 83.35 | 83.51 | 83.57 | 83.33 | 81.77 | 79.30 | 78.29 | 79.59 |
| 72.5 | 74.32 | 74.63 | 74.89 | 75.36 | 74.84 | 74.67 | 73.96 | 71.80 | 71.86 | 71.11 |
| 75.0 | 67.38 | 67.03 | 66.89 | 67.28 | 66.93 | 68.27 | 67.17 | 66.08 | 65.60 | 63.81 |
| 77.5 | 60.26 | 59.68 | 59.23 | 59.29 | 59.66 | 60.60 | 60.60 | 60.77 | 59.34 | 58.01 |
| 80.0 | 53.08 | 51.85 | 51.88 | 51.56 | 52.31 | 53.08 | 53.16 | 53.28 | 53.08 | 51.78 |
| 82.5 | 16.41 | 21.59 | 28.16 | 34.78 | 43.14 | 45.99 | 46.05 | 46.37 | 46.52 | 45.27 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 14.58 | 24.24 | 35.67 | 39.85 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Angles **Horizontal Angles**

| | <u>75.0</u> | <u>77.5</u> | <u>80.0</u> | <u>82.5</u> | <u>85.0</u> | <u>87.5</u> | <u>90.0</u> | <u>92.5</u> | <u>95.0</u> | <u>97.5</u> |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 0.0 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 936.63 | 931.31 | 926.15 | 921.17 | 916.39 | 911.85 | 907.55 | 907.98 | 908.67 | 909.62 |
| 5.0 | 854.69 | 841.39 | 825.43 | 813.63 | 801.77 | 789.86 | 777.93 | 780.00 | 782.06 | 784.11 |
| 7.5 | 900.78 | 885.46 | 869.66 | 853.40 | 836.67 | 819.50 | 801.90 | 802.80 | 803.33 | 803.51 |
| 10.0 | 1010.88 | 994.94 | 978.24 | 964.95 | 944.26 | 923.49 | 902.68 | 902.04 | 901.39 | 900.75 |
| 12.5 | 1147.46 | 1131.66 | 1115.94 | 1100.09 | 1083.87 | 1067.06 | 1049.42 | 1044.51 | 1038.56 | 1031.59 |
| 15.0 | 1209.88 | 1206.26 | 1203.66 | 1201.44 | 1202.66 | 1196.57 | 1190.46 | 1186.02 | 1181.59 | 1167.09 |
| 17.5 | 1376.17 | 1412.21 | 1448.49 | 1483.63 | 1516.52 | 1546.03 | 1571.01 | 1554.84 | 1532.98 | 1505.44 |
| 20.0 | 1503.54 | 1542.77 | 1582.67 | 1622.93 | 1664.89 | 1703.64 | 1742.49 | 1746.77 | 1751.04 | 1745.61 |
| 22.5 | 1461.09 | 1496.13 | 1536.09 | 1576.22 | 1617.61 | 1660.11 | 1703.58 | 1713.51 | 1724.45 | 1736.55 |
| 25.0 | 1397.06 | 1441.27 | 1484.76 | 1527.87 | 1570.95 | 1613.91 | 1658.55 | 1665.86 | 1675.38 | 1685.38 |
| 27.5 | 1352.70 | 1383.71 | 1412.58 | 1439.91 | 1468.07 | 1497.88 | 1530.17 | 1545.62 | 1564.23 | 1585.84 |
| 30.0 | 1275.89 | 1295.70 | 1315.85 | 1338.23 | 1363.02 | 1388.97 | 1420.69 | 1433.34 | 1452.02 | 1472.14 |
| 32.5 | 1154.72 | 1169.69 | 1183.64 | 1207.90 | 1232.94 | 1258.70 | 1284.83 | 1301.72 | 1319.21 | 1337.87 |
| 35.0 | 1105.00 | 1123.48 | 1133.54 | 1141.16 | 1148.34 | 1154.56 | 1169.96 | 1199.46 | 1239.05 | 1278.81 |
| 37.5 | 1059.23 | 1059.56 | 1053.91 | 1046.33 | 1038.99 | 1030.97 | 1023.84 | 1051.71 | 1082.71 | 1117.48 |
| 40.0 | 1077.01 | 1073.18 | 1063.71 | 1049.10 | 1030.13 | 1008.33 | 985.54 | 1009.35 | 1034.68 | 1060.61 |
| 42.5 | 1142.72 | 1118.38 | 1087.99 | 1057.72 | 1029.28 | 1001.66 | 974.09 | 999.39 | 1024.17 | 1048.67 |
| 45.0 | 1142.51 | 1109.50 | 1083.90 | 1065.78 | 1057.88 | 1056.95 | 1053.17 | 1078.69 | 1094.52 | 1107.37 |
| 47.5 | 1026.44 | 1019.44 | 1005.58 | 1000.87 | 1008.79 | 1022.40 | 1039.93 | 1080.71 | 1123.65 | 1169.17 |
| 50.0 | 859.06 | 889.56 | 880.37 | 883.56 | 894.11 | 909.39 | 941.91 | 976.76 | 1029.74 | 1088.37 |
| 52.5 | 663.84 | 705.25 | 709.96 | 707.08 | 711.01 | 722.48 | 744.71 | 762.90 | 798.76 | 853.94 |
| 55.0 | 477.59 | 517.85 | 537.97 | 515.57 | 496.10 | 476.89 | 485.37 | 474.30 | 501.05 | 541.59 |
| 57.5 | 326.55 | 348.18 | 351.53 | 296.97 | 260.19 | 243.91 | 239.48 | 232.02 | 233.46 | 253.55 |
| 60.0 | 194.26 | 182.80 | 172.23 | 161.02 | 153.36 | 144.80 | 145.76 | 140.88 | 148.79 | 160.18 |
| 62.5 | 125.64 | 127.00 | 124.88 | 121.63 | 116.36 | 114.06 | 114.10 | 112.89 | 113.07 | 114.95 |
| 65.0 | 106.93 | 102.84 | 99.21 | 96.94 | 95.47 | 93.62 | 92.68 | 93.02 | 94.90 | 97.54 |
| 67.5 | 89.40 | 88.15 | 85.93 | 84.80 | 82.36 | 81.40 | 81.76 | 81.46 | 81.59 | 82.63 |
| 70.0 | 78.68 | 77.99 | 74.56 | 72.22 | 71.52 | 72.19 | 74.30 | 74.36 | 75.06 | 75.88 |
| 72.5 | 70.30 | 66.94 | 64.44 | 62.01 | 59.03 | 61.80 | 65.12 | 65.51 | 66.78 | 67.44 |
| 75.0 | 62.88 | 60.36 | 57.57 | 55.14 | 53.38 | 54.09 | 56.20 | 56.12 | 55.97 | 55.60 |
| 77.5 | 56.38 | 54.63 | 52.27 | 50.17 | 48.83 | 49.41 | 51.74 | 51.88 | 51.25 | 50.49 |
| 80.0 | 49.78 | 49.30 | 47.58 | 45.49 | 45.11 | 46.28 | 48.28 | 48.25 | 47.44 | 46.87 |
| 82.5 | 45.30 | 45.19 | 43.03 | 40.90 | 40.98 | 42.22 | 43.73 | 43.28 | 42.15 | 43.24 |
| 85.0 | 40.72 | 40.36 | 38.82 | 36.32 | 37.49 | 39.51 | 40.74 | 38.69 | 37.49 | 38.60 |
| 87.5 | 0.00 | 10.41 | 29.02 | 34.07 | 32.49 | 32.85 | 33.09 | 29.60 | 32.46 | 35.49 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.04 | 0.00 | 0.00 | 0.00 |

Vert. Angles **Horizontal 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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 910.82 | 912.27 | 913.95 | 915.86 | 918.00 | 920.34 | 922.89 | 925.64 | 928.58 | 931.70 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5.0 | 786.15 | 792.72 | 796.63 | 800.82 | 805.27 | 809.95 | 814.85 | 819.96 | 825.24 | 830.69 |
| 7.5 | 803.40 | 803.03 | 802.45 | 801.70 | 800.82 | 801.35 | 800.83 | 801.27 | 801.88 | 802.70 |
| 10.0 | 892.47 | 887.79 | 882.39 | 876.33 | 869.67 | 862.47 | 854.79 | 848.87 | 843.51 | 837.85 |
| 12.5 | 1023.61 | 1014.66 | 1004.76 | 997.70 | 979.76 | 966.14 | 952.24 | 938.18 | 925.18 | 912.55 |
| 15.0 | 1155.09 | 1141.15 | 1125.37 | 1107.84 | 1088.68 | 1070.70 | 1051.93 | 1030.87 | 1010.32 | 989.24 |
| 17.5 | 1472.20 | 1433.31 | 1390.52 | 1345.18 | 1296.98 | 1246.34 | 1204.61 | 1170.88 | 1137.82 | 1106.04 |
| 20.0 | 1739.29 | 1727.49 | 1709.19 | 1683.44 | 1639.79 | 1584.27 | 1517.68 | 1437.24 | 1350.07 | 1269.35 |
| 22.5 | 1749.97 | 1763.28 | 1779.25 | 1793.86 | 1808.24 | 1807.86 | 1800.21 | 1771.36 | 1700.72 | 1608.90 |
| 25.0 | 1696.39 | 1708.37 | 1721.27 | 1737.46 | 1757.45 | 1780.11 | 1805.03 | 1831.95 | 1847.42 | 1853.94 |
| 27.5 | 1610.28 | 1635.34 | 1660.99 | 1687.24 | 1708.18 | 1725.10 | 1741.94 | 1760.69 | 1791.23 | 1794.37 |
| 30.0 | 1495.16 | 1521.01 | 1549.76 | 1582.87 | 1621.02 | 1661.89 | 1701.74 | 1735.02 | 1702.20 | 1660.25 |
| 32.5 | 1357.59 | 1395.47 | 1435.66 | 1478.55 | 1515.95 | 1552.47 | 1592.35 | 1591.64 | 1584.40 | 1564.84 |
| 35.0 | 1320.02 | 1361.22 | 1384.85 | 1399.98 | 1423.78 | 1457.59 | 1467.66 | 1463.84 | 1452.48 | 1443.63 |
| 37.5 | 1161.28 | 1216.20 | 1279.39 | 1350.16 | 1420.77 | 1410.26 | 1368.54 | 1335.30 | 1330.44 | 1343.56 |
| 40.0 | 1087.64 | 1118.10 | 1156.74 | 1203.37 | 1241.06 | 1270.41 | 1290.46 | 1288.82 | 1258.07 | 1223.57 |
| 42.5 | 1076.18 | 1104.84 | 1133.18 | 1155.58 | 1161.67 | 1169.81 | 1181.66 | 1192.16 | 1194.54 | 1174.59 |
| 45.0 | 1115.37 | 1125.94 | 1138.06 | 1157.66 | 1167.72 | 1165.47 | 1157.37 | 1151.36 | 1150.34 | 1136.46 |
| 47.5 | 1206.36 | 1236.01 | 1228.05 | 1211.15 | 1213.93 | 1228.67 | 1214.51 | 1179.81 | 1153.95 | 1132.92 |
| 50.0 | 1155.64 | 1218.64 | 1218.87 | 1218.68 | 1226.16 | 1244.50 | 1276.95 | 1287.90 | 1203.62 | 1120.94 |
| 52.5 | 928.19 | 1001.46 | 1019.20 | 1035.89 | 1066.92 | 1124.03 | 1199.97 | 1222.16 | 1162.75 | 1084.40 |
| 55.0 | 609.20 | 658.39 | 692.64 | 729.29 | 785.55 | 865.80 | 923.12 | 942.02 | 940.46 | 934.09 |
| 57.5 | 294.43 | 336.96 | 379.14 | 427.67 | 483.91 | 545.77 | 609.73 | 642.45 | 641.31 | 664.60 |
| 60.0 | 161.36 | 167.64 | 195.63 | 212.30 | 246.35 | 312.91 | 372.03 | 394.72 | 394.75 | 372.52 |
| 62.5 | 118.97 | 124.55 | 136.48 | 145.27 | 159.30 | 174.97 | 213.97 | 242.84 | 211.52 | 200.14 |
| 65.0 | 100.92 | 105.81 | 112.57 | 117.43 | 122.72 | 136.07 | 140.47 | 139.95 | 157.30 | 156.05 |
| 67.5 | 85.65 | 88.94 | 95.56 | 99.60 | 103.94 | 109.37 | 114.87 | 118.80 | 121.55 | 132.20 |
| 70.0 | 78.13 | 81.52 | 80.78 | 86.06 | 89.49 | 93.75 | 99.29 | 103.96 | 104.35 | 110.25 |
| 72.5 | 67.76 | 70.15 | 71.99 | 74.51 | 79.13 | 81.90 | 86.97 | 90.43 | 92.39 | 89.75 |
| 75.0 | 56.73 | 58.24 | 59.11 | 63.92 | 66.37 | 72.26 | 76.04 | 80.37 | 80.42 | 78.04 |
| 77.5 | 50.69 | 51.55 | 51.12 | 55.17 | 57.03 | 59.46 | 66.97 | 69.46 | 69.03 | 67.35 |
| 80.0 | 47.48 | 47.30 | 47.45 | 48.09 | 51.12 | 53.56 | 58.74 | 60.04 | 58.93 | 56.43 |
| 82.5 | 43.80 | 44.19 | 44.17 | 44.63 | 47.09 | 49.61 | 52.04 | 52.30 | 47.51 | 36.49 |
| 85.0 | 39.84 | 40.12 | 40.33 | 41.49 | 37.97 | 27.20 | 16.91 | 7.44 | 0.00 | 0.00 |
| 87.5 | 30.47 | 10.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 934.99 | 937.57 | 937.67 | 940.34 | 941.69 | 943.09 | 944.55 | 946.07 | 947.63 | 949.25 |
| 5.0 | 836.29 | 840.83 | 850.84 | 859.23 | 867.79 | 876.50 | 885.34 | 894.30 | 902.74 | 911.06 |
| 7.5 | 803.75 | 805.30 | 811.74 | 817.44 | 823.31 | 829.32 | 837.65 | 846.65 | 855.58 | 864.43 |
| 10.0 | 831.91 | 827.85 | 825.14 | 823.69 | 822.67 | 825.40 | 829.49 | 834.26 | 842.31 | 851.23 |
| 12.5 | 899.94 | 887.37 | 874.76 | 862.20 | 851.68 | 842.97 | 834.22 | 835.63 | 837.72 | 845.41 |
| 15.0 | 969.37 | 949.89 | 932.67 | 916.38 | 901.93 | 888.18 | 874.21 | 860.58 | 849.94 | 839.84 |
| 17.5 | 1073.60 | 1039.55 | 1002.07 | 967.23 | 940.77 | 919.44 | 905.14 | 892.17 | 881.52 | 867.15 |
| 20.0 | 1199.70 | 1146.26 | 1112.22 | 1074.61 | 1034.14 | 981.10 | 969.16 | 972.11 | 992.69 | 1012.07 |
| 22.5 | 1487.37 | 1362.16 | 1237.96 | 1185.99 | 1161.49 | 1163.26 | 1153.35 | 1138.84 | 1132.99 | 1145.64 |
| 25.0 | 1827.03 | 1716.78 | 1584.93 | 1450.08 | 1352.16 | 1293.19 | 1272.87 | 1284.35 | 1285.55 | 1281.93 |
| 27.5 | 1782.28 | 1758.32 | 1721.92 | 1674.94 | 1564.48 | 1467.12 | 1401.83 | 1375.74 | 1385.97 | 1406.37 |
| 30.0 | 1630.02 | 1616.43 | 1609.82 | 1601.65 | 1583.93 | 1549.25 | 1501.15 | 1468.28 | 1460.91 | 1482.43 |
| 32.5 | 1535.37 | 1495.17 | 1462.01 | 1449.41 | 1451.33 | 1455.55 | 1458.77 | 1469.63 | 1498.16 | 1534.22 |
| 35.0 | 1431.80 | 1402.42 | 1366.83 | 1325.84 | 1294.31 | 1298.17 | 1315.33 | 1344.77 | 1414.57 | 1504.87 |
| 37.5 | 1333.05 | 1320.46 | 1284.40 | 1237.08 | 1194.24 | 1158.59 | 1169.77 | 1227.07 | 1290.82 | 1376.95 |
| 40.0 | 1222.69 | 1233.33 | 1222.68 | 1179.83 | 1134.73 | 1128.05 | 1133.48 | 1162.40 | 1213.95 | 1271.34 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 42.5 | 1139.13 | 1123.04 | 1142.36 | 1162.73 | 1150.44 | 1123.77 | 1121.00 | 1130.82 | 1162.00 | 1206.27 |
| 45.0 | 1099.72 | 1088.11 | 1096.76 | 1119.02 | 1133.11 | 1126.67 | 1109.14 | 1116.22 | 1130.04 | 1163.13 |
| 47.5 | 1119.65 | 1108.87 | 1103.35 | 1098.94 | 1104.48 | 1104.68 | 1102.28 | 1099.24 | 1116.40 | 1137.04 |
| 50.0 | 1096.32 | 1107.09 | 1115.66 | 1116.72 | 1102.68 | 1087.76 | 1078.99 | 1082.62 | 1096.27 | 1118.81 |
| 52.5 | 1041.88 | 1052.11 | 1093.55 | 1122.64 | 1128.79 | 1098.14 | 1060.91 | 1050.40 | 1057.63 | 1075.85 |
| 55.0 | 931.75 | 957.43 | 1016.60 | 1092.69 | 1123.50 | 1075.59 | 1020.34 | 991.52 | 1012.33 | 1030.98 |
| 57.5 | 708.83 | 790.58 | 889.50 | 945.91 | 975.15 | 974.11 | 949.04 | 937.68 | 955.92 | 985.33 |
| 60.0 | 412.56 | 547.96 | 664.43 | 749.34 | 801.33 | 829.60 | 846.69 | 863.85 | 891.30 | 937.15 |
| 62.5 | 255.42 | 356.77 | 458.99 | 539.70 | 621.80 | 661.03 | 708.98 | 760.15 | 819.45 | 880.06 |
| 65.0 | 177.56 | 227.64 | 297.45 | 347.40 | 435.14 | 491.06 | 548.37 | 631.51 | 725.28 | 780.75 |
| 67.5 | 138.66 | 158.08 | 189.90 | 204.90 | 236.05 | 343.95 | 409.29 | 496.93 | 579.35 | 629.03 |
| 70.0 | 113.33 | 119.71 | 128.16 | 140.79 | 163.84 | 260.30 | 312.79 | 379.34 | 441.80 | 485.88 |
| 72.5 | 93.97 | 99.78 | 109.51 | 119.08 | 130.64 | 187.34 | 236.58 | 277.90 | 318.73 | 350.36 |
| 75.0 | 79.15 | 84.16 | 92.76 | 100.45 | 107.37 | 130.63 | 169.12 | 189.53 | 208.14 | 220.83 |
| 77.5 | 65.91 | 69.57 | 76.39 | 84.21 | 87.73 | 95.50 | 109.25 | 111.54 | 107.41 | 102.84 |
| 80.0 | 54.19 | 56.01 | 60.82 | 67.47 | 59.65 | 56.18 | 52.42 | 48.60 | 43.96 | 38.88 |
| 82.5 | 28.32 | 22.58 | 18.33 | 15.14 | 8.10 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 950.90 | 952.60 | 954.33 | 955.36 | 948.06 | 942.92 | 937.72 | 932.46 | 927.16 | 921.81 |
| 5.0 | 919.44 | 927.87 | 936.35 | 941.14 | 946.65 | 950.59 | 954.58 | 958.62 | 955.00 | 946.33 |
| 7.5 | 876.82 | 889.44 | 901.99 | 913.79 | 924.72 | 935.57 | 944.17 | 952.04 | 958.67 | 964.87 |
| 10.0 | 859.94 | 870.69 | 880.73 | 892.65 | 906.69 | 920.24 | 931.87 | 943.10 | 953.21 | 962.97 |
| 12.5 | 856.09 | 867.87 | 880.09 | 891.33 | 901.10 | 912.77 | 926.12 | 937.42 | 947.27 | 959.25 |
| 15.0 | 846.86 | 857.24 | 876.16 | 893.83 | 909.64 | 919.00 | 927.80 | 938.83 | 947.02 | 952.98 |
| 17.5 | 871.33 | 879.46 | 904.66 | 931.31 | 956.44 | 975.15 | 985.56 | 995.31 | 1008.36 | 1019.66 |
| 20.0 | 1028.10 | 1037.18 | 1037.79 | 1042.20 | 1050.91 | 1062.05 | 1065.36 | 1066.90 | 1075.66 | 1088.35 |
| 22.5 | 1172.60 | 1193.51 | 1203.09 | 1197.29 | 1184.20 | 1172.23 | 1161.42 | 1149.45 | 1145.42 | 1156.23 |
| 25.0 | 1298.51 | 1330.12 | 1357.49 | 1367.50 | 1350.63 | 1315.53 | 1279.13 | 1244.78 | 1223.06 | 1225.32 |
| 27.5 | 1422.86 | 1449.75 | 1490.59 | 1523.67 | 1529.26 | 1491.84 | 1422.34 | 1358.84 | 1310.93 | 1297.29 |
| 30.0 | 1520.84 | 1559.34 | 1604.61 | 1658.55 | 1689.89 | 1671.74 | 1593.19 | 1492.13 | 1405.63 | 1371.05 |
| 32.5 | 1580.89 | 1640.53 | 1704.70 | 1728.01 | 1742.51 | 1720.96 | 1641.23 | 1512.94 | 1405.51 | 1344.62 |
| 35.0 | 1554.81 | 1586.17 | 1614.59 | 1629.61 | 1640.99 | 1639.12 | 1584.50 | 1481.45 | 1379.03 | 1314.49 |
| 37.5 | 1456.96 | 1502.29 | 1533.24 | 1547.01 | 1544.97 | 1541.98 | 1514.65 | 1436.63 | 1344.68 | 1280.63 |
| 40.0 | 1349.65 | 1414.11 | 1456.95 | 1477.25 | 1464.70 | 1448.76 | 1427.04 | 1377.16 | 1302.71 | 1243.18 |
| 42.5 | 1258.60 | 1323.94 | 1375.28 | 1414.88 | 1397.55 | 1362.40 | 1336.89 | 1299.99 | 1250.45 | 1203.33 |
| 45.0 | 1198.97 | 1242.98 | 1292.34 | 1341.23 | 1343.26 | 1288.08 | 1245.21 | 1214.19 | 1188.34 | 1162.02 |
| 47.5 | 1160.59 | 1183.30 | 1215.86 | 1263.73 | 1288.12 | 1238.44 | 1191.98 | 1176.39 | 1169.59 | 1156.14 |
| 50.0 | 1130.09 | 1141.97 | 1156.44 | 1182.08 | 1222.23 | 1198.71 | 1160.79 | 1154.52 | 1158.78 | 1152.81 |
| 52.5 | 1089.61 | 1100.58 | 1109.46 | 1115.62 | 1145.15 | 1149.49 | 1122.47 | 1127.40 | 1144.89 | 1148.05 |
| 55.0 | 1048.73 | 1060.95 | 1069.01 | 1062.16 | 1071.07 | 1089.10 | 1080.08 | 1095.39 | 1128.24 | 1141.50 |
| 57.5 | 1007.22 | 1021.49 | 1032.61 | 1021.54 | 1002.32 | 1020.83 | 1033.04 | 1058.70 | 1107.74 | 1134.18 |
| 60.0 | 966.16 | 983.43 | 995.48 | 985.15 | 943.79 | 948.42 | 979.71 | 1017.77 | 1084.58 | 1126.05 |
| 62.5 | 924.09 | 944.96 | 953.26 | 927.79 | 864.78 | 843.89 | 866.89 | 892.97 | 945.83 | 979.65 |
| 65.0 | 812.45 | 812.40 | 804.73 | 788.44 | 737.63 | 710.55 | 726.15 | 746.32 | 788.60 | 820.54 |
| 67.5 | 660.59 | 662.25 | 656.61 | 645.99 | 608.93 | 578.51 | 587.32 | 601.65 | 633.38 | 661.27 |
| 70.0 | 511.58 | 516.54 | 509.14 | 501.20 | 475.69 | 447.29 | 450.04 | 458.73 | 480.10 | 502.31 |
| 72.5 | 365.28 | 369.65 | 361.82 | 353.94 | 338.30 | 315.91 | 314.08 | 316.66 | 328.50 | 342.99 |
| 75.0 | 224.41 | 222.80 | 214.67 | 206.55 | 197.49 | 184.37 | 179.52 | 177.25 | 178.32 | 184.21 |
| 77.5 | 102.45 | 102.52 | 101.05 | 98.59 | 97.06 | 92.13 | 89.59 | 88.24 | 88.70 | 91.68 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 80.0 | 35.10 | 31.29 | 27.10 | 22.67 | 18.59 | 14.17 | 10.55 | 7.49 | 4.98 | 0.00 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| 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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 916.42 | 910.99 | 905.54 | 899.18 | 892.80 | 886.39 | 879.97 | 873.54 | 867.10 | 860.65 |
| 5.0 | 937.61 | 928.86 | 920.09 | 910.46 | 900.85 | 891.28 | 881.76 | 874.54 | 871.75 | 869.38 |
| 7.5 | 954.33 | 944.51 | 934.64 | 924.73 | 914.68 | 904.43 | 903.50 | 903.04 | 902.24 | 903.50 |
| 10.0 | 966.92 | 958.06 | 949.19 | 942.15 | 935.12 | 936.00 | 938.29 | 942.38 | 948.11 | 953.21 |
| 12.5 | 972.24 | 969.39 | 963.75 | 962.43 | 960.97 | 971.67 | 981.27 | 992.65 | 1001.87 | 1008.36 |
| 15.0 | 971.36 | 978.69 | 978.30 | 985.89 | 998.01 | 1013.75 | 1032.24 | 1047.96 | 1058.52 | 1055.28 |
| 17.5 | 1038.47 | 1057.00 | 1067.26 | 1084.35 | 1102.73 | 1121.27 | 1138.99 | 1149.59 | 1146.16 | 1127.96 |
| 20.0 | 1108.55 | 1133.48 | 1156.21 | 1186.47 | 1213.10 | 1230.62 | 1246.62 | 1253.62 | 1245.98 | 1209.19 |
| 22.5 | 1170.98 | 1204.40 | 1245.17 | 1289.57 | 1318.31 | 1338.27 | 1354.31 | 1356.24 | 1332.96 | 1289.36 |
| 25.0 | 1244.90 | 1278.44 | 1334.13 | 1393.19 | 1429.02 | 1444.38 | 1459.95 | 1457.57 | 1422.88 | 1365.05 |
| 27.5 | 1312.21 | 1349.53 | 1423.09 | 1498.47 | 1531.14 | 1550.26 | 1567.00 | 1558.37 | 1505.23 | 1436.39 |
| 30.0 | 1384.23 | 1421.65 | 1512.04 | 1603.89 | 1639.40 | 1656.17 | 1678.30 | 1656.14 | 1583.38 | 1503.18 |
| 32.5 | 1349.77 | 1387.42 | 1468.12 | 1545.42 | 1571.69 | 1593.84 | 1615.68 | 1591.82 | 1538.56 | 1483.47 |
| 35.0 | 1312.92 | 1352.99 | 1424.20 | 1483.89 | 1498.56 | 1512.45 | 1520.73 | 1484.83 | 1435.45 | 1389.27 |
| 37.5 | 1275.73 | 1319.60 | 1380.28 | 1421.89 | 1423.04 | 1426.31 | 1424.54 | 1384.45 | 1343.20 | 1306.43 |
| 40.0 | 1239.85 | 1285.94 | 1336.36 | 1356.85 | 1345.06 | 1335.96 | 1320.06 | 1291.75 | 1252.74 | 1226.41 |
| 42.5 | 1202.65 | 1253.32 | 1292.45 | 1291.60 | 1264.39 | 1242.49 | 1222.06 | 1203.35 | 1169.58 | 1153.86 |
| 45.0 | 1164.20 | 1220.41 | 1248.53 | 1223.42 | 1181.13 | 1145.30 | 1128.87 | 1121.15 | 1085.39 | 1083.72 |
| 47.5 | 1158.68 | 1209.89 | 1231.83 | 1203.52 | 1157.78 | 1129.09 | 1131.41 | 1126.38 | 1076.88 | 1068.70 |
| 50.0 | 1155.09 | 1198.95 | 1215.13 | 1183.10 | 1138.60 | 1127.19 | 1161.12 | 1166.36 | 1124.46 | 1108.69 |
| 52.5 | 1151.19 | 1191.49 | 1198.43 | 1162.98 | 1120.73 | 1130.65 | 1198.40 | 1211.69 | 1169.35 | 1137.75 |
| 55.0 | 1149.98 | 1183.19 | 1181.73 | 1143.64 | 1105.07 | 1141.35 | 1239.42 | 1258.04 | 1210.02 | 1156.92 |
| 57.5 | 1147.99 | 1175.52 | 1165.03 | 1121.90 | 1089.99 | 1158.14 | 1284.54 | 1304.78 | 1242.31 | 1168.84 |
| 60.0 | 1145.47 | 1168.49 | 1148.33 | 1101.22 | 1075.95 | 1179.65 | 1334.48 | 1353.36 | 1266.92 | 1177.71 |
| 62.5 | 990.50 | 1007.47 | 989.35 | 950.41 | 934.85 | 1039.66 | 1185.43 | 1210.02 | 1140.48 | 1078.48 |
| 65.0 | 824.50 | 843.58 | 830.36 | 797.51 | 782.99 | 879.29 | 993.52 | 1001.92 | 942.49 | 897.25 |
| 67.5 | 669.47 | 682.42 | 671.38 | 647.67 | 640.75 | 714.09 | 796.34 | 797.64 | 749.77 | 719.89 |
| 70.0 | 504.93 | 518.77 | 512.40 | 495.99 | 489.21 | 543.44 | 597.26 | 595.16 | 563.22 | 545.62 |
| 72.5 | 349.56 | 357.40 | 353.42 | 346.83 | 345.77 | 371.43 | 397.02 | 394.24 | 378.38 | 373.61 |
| 75.0 | 186.47 | 194.02 | 194.43 | 196.15 | 194.81 | 195.25 | 195.80 | 195.06 | 197.42 | 203.52 |
| 77.5 | 94.81 | 97.45 | 97.22 | 98.52 | 99.20 | 97.03 | 95.67 | 93.46 | 94.92 | 97.76 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.37 | 7.93 | 11.19 | 14.98 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | <u>200.0</u> | <u>202.5</u> | <u>205.0</u> | <u>207.5</u> | <u>210.0</u> | <u>212.5</u> | <u>215.0</u> | <u>217.5</u> | <u>220.0</u> | <u>222.5</u> |
| 0.0 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 854.21 | 847.77 | 844.68 | 841.60 | 839.38 | 837.12 | 834.81 | 832.46 | 830.08 | 827.65 |
| 5.0 | 866.82 | 864.06 | 862.36 | 861.42 | 860.23 | 858.78 | 857.07 | 855.03 | 854.06 | 852.57 |
| 7.5 | 904.96 | 905.97 | 906.73 | 907.26 | 907.37 | 906.84 | 910.86 | 914.33 | 917.79 | 919.61 |
| 10.0 | 956.64 | 959.49 | 961.74 | 963.97 | 966.40 | 961.61 | 957.19 | 953.75 | 937.58 | 924.00 |
| 12.5 | 1010.62 | 1009.13 | 1001.71 | 988.95 | 974.06 | 955.55 | 935.70 | 912.23 | 888.21 | 865.40 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15.0 | 1048.49 | 1021.19 | 997.95 | 974.88 | 949.15 | 922.26 | 891.74 | 865.26 | 820.15 | 788.56 |
| 17.5 | 1091.56 | 1053.96 | 1014.91 | 974.31 | 924.99 | 866.31 | 805.70 | 779.75 | 766.05 | 770.72 |
| 20.0 | 1166.66 | 1120.70 | 1069.92 | 1018.07 | 929.07 | 875.29 | 838.32 | 813.32 | 801.91 | 802.56 |
| 22.5 | 1237.01 | 1178.75 | 1109.25 | 1033.66 | 987.33 | 966.25 | 959.84 | 973.55 | 1003.85 | 1046.24 |
| 25.0 | 1300.98 | 1228.21 | 1157.18 | 1118.60 | 1106.17 | 1116.41 | 1153.73 | 1213.69 | 1244.84 | 1267.56 |
| 27.5 | 1365.44 | 1288.48 | 1251.63 | 1247.67 | 1277.50 | 1338.18 | 1391.07 | 1407.86 | 1415.52 | 1440.80 |
| 30.0 | 1428.33 | 1383.07 | 1382.33 | 1424.16 | 1500.46 | 1548.22 | 1540.92 | 1523.75 | 1525.84 | 1552.01 |
| 32.5 | 1455.48 | 1472.57 | 1551.42 | 1642.35 | 1694.95 | 1663.17 | 1607.31 | 1573.63 | 1570.70 | 1576.44 |
| 35.0 | 1381.63 | 1431.65 | 1543.72 | 1663.61 | 1687.26 | 1654.02 | 1608.58 | 1575.11 | 1574.84 | 1598.56 |
| 37.5 | 1314.58 | 1398.50 | 1518.67 | 1566.86 | 1552.37 | 1527.74 | 1523.25 | 1543.35 | 1565.67 | 1571.69 |
| 40.0 | 1262.69 | 1355.23 | 1434.55 | 1447.64 | 1437.64 | 1443.80 | 1477.46 | 1511.01 | 1523.45 | 1529.92 |
| 42.5 | 1206.34 | 1288.77 | 1328.41 | 1342.66 | 1358.44 | 1402.91 | 1451.83 | 1476.18 | 1486.53 | 1446.46 |
| 45.0 | 1138.65 | 1190.81 | 1228.52 | 1258.49 | 1314.93 | 1381.99 | 1426.17 | 1443.01 | 1425.37 | 1355.12 |
| 47.5 | 1084.82 | 1100.47 | 1146.41 | 1208.19 | 1294.17 | 1364.82 | 1397.38 | 1399.83 | 1360.18 | 1306.58 |
| 50.0 | 1105.68 | 1112.48 | 1139.93 | 1199.47 | 1281.35 | 1342.77 | 1366.93 | 1359.24 | 1331.33 | 1314.67 |
| 52.5 | 1118.36 | 1119.63 | 1139.06 | 1191.89 | 1250.28 | 1284.08 | 1307.15 | 1319.20 | 1336.68 | 1335.91 |
| 55.0 | 1124.81 | 1116.02 | 1127.21 | 1165.24 | 1198.46 | 1217.36 | 1232.22 | 1242.14 | 1256.01 | 1290.43 |
| 57.5 | 1125.24 | 1103.67 | 1103.64 | 1119.93 | 1129.78 | 1144.91 | 1158.66 | 1152.32 | 1157.96 | 1177.47 |
| 60.0 | 1120.06 | 1084.50 | 1066.61 | 1060.63 | 1059.19 | 1072.03 | 1074.57 | 1051.03 | 1039.36 | 1041.18 |
| 62.5 | 1045.91 | 1024.99 | 1011.42 | 991.04 | 985.70 | 999.31 | 976.36 | 935.03 | 896.32 | 875.60 |
| 65.0 | 874.64 | 858.70 | 849.42 | 844.98 | 863.00 | 892.73 | 859.60 | 802.24 | 732.11 | 681.26 |
| 67.5 | 704.48 | 694.91 | 689.86 | 689.37 | 713.26 | 729.24 | 697.70 | 648.39 | 572.46 | 490.70 |
| 70.0 | 537.63 | 533.78 | 533.51 | 539.84 | 561.53 | 567.61 | 545.13 | 502.59 | 444.28 | 383.09 |
| 72.5 | 373.03 | 374.21 | 378.54 | 388.26 | 407.46 | 411.28 | 401.17 | 371.47 | 332.97 | 291.66 |
| 75.0 | 209.31 | 217.07 | 224.99 | 236.62 | 253.05 | 261.73 | 264.68 | 252.80 | 236.18 | 213.52 |
| 77.5 | 99.91 | 104.02 | 106.08 | 110.90 | 115.27 | 123.96 | 135.73 | 145.04 | 150.23 | 147.66 |
| 80.0 | 19.09 | 23.89 | 28.49 | 34.15 | 39.65 | 47.54 | 55.23 | 63.18 | 71.79 | 80.64 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 825.19 | 822.71 | 820.21 | 817.68 | 816.06 | 814.07 | 812.30 | 810.50 | 808.66 | 806.79 |
| 5.0 | 850.85 | 848.89 | 846.71 | 844.30 | 841.17 | 846.15 | 847.28 | 848.16 | 848.78 | 849.12 |
| 7.5 | 919.89 | 919.84 | 920.12 | 920.71 | 914.68 | 906.24 | 898.15 | 890.40 | 883.03 | 876.04 |
| 10.0 | 912.53 | 890.89 | 872.29 | 854.01 | 838.20 | 824.00 | 810.53 | 797.81 | 788.11 | 779.50 |
| 12.5 | 843.41 | 821.28 | 800.31 | 782.06 | 776.03 | 776.53 | 778.36 | 780.76 | 794.99 | 806.69 |
| 15.0 | 778.39 | 772.07 | 782.41 | 794.35 | 812.47 | 834.34 | 856.90 | 887.57 | 918.53 | 948.24 |
| 17.5 | 783.95 | 805.12 | 840.03 | 882.00 | 930.44 | 981.82 | 1021.10 | 1071.27 | 1110.25 | 1147.32 |
| 20.0 | 849.30 | 918.84 | 984.37 | 1043.78 | 1102.27 | 1159.36 | 1218.02 | 1276.77 | 1323.53 | 1372.31 |
| 22.5 | 1074.66 | 1104.61 | 1138.13 | 1234.18 | 1318.03 | 1394.46 | 1456.20 | 1504.96 | 1526.65 | 1536.28 |
| 25.0 | 1300.75 | 1352.09 | 1419.07 | 1493.09 | 1549.61 | 1565.68 | 1590.40 | 1614.11 | 1656.47 | 1687.91 |
| 27.5 | 1481.35 | 1544.92 | 1566.64 | 1595.11 | 1643.97 | 1723.45 | 1772.75 | 1787.96 | 1775.70 | 1738.57 |
| 30.0 | 1568.72 | 1592.13 | 1645.04 | 1707.85 | 1757.26 | 1792.11 | 1781.86 | 1744.31 | 1645.69 | 1577.84 |
| 32.5 | 1606.98 | 1656.18 | 1693.32 | 1712.88 | 1692.98 | 1626.80 | 1577.78 | 1561.38 | 1573.13 | 1557.38 |
| 35.0 | 1623.17 | 1645.45 | 1639.40 | 1572.80 | 1506.64 | 1481.17 | 1490.08 | 1518.59 | 1556.23 | 1597.84 |
| 37.5 | 1580.61 | 1545.18 | 1471.42 | 1411.39 | 1392.17 | 1417.43 | 1463.58 | 1484.53 | 1481.58 | 1462.78 |
| 40.0 | 1486.49 | 1390.36 | 1317.87 | 1313.09 | 1358.80 | 1393.54 | 1393.70 | 1367.33 | 1359.11 | 1387.48 |
| 42.5 | 1358.73 | 1269.31 | 1251.66 | 1295.65 | 1323.05 | 1310.68 | 1303.82 | 1330.21 | 1379.58 | 1430.53 |
| 45.0 | 1282.05 | 1277.20 | 1297.12 | 1287.70 | 1256.54 | 1256.66 | 1273.98 | 1305.28 | 1333.54 | 1357.64 |
| 47.5 | 1296.93 | 1312.49 | 1300.83 | 1277.67 | 1244.16 | 1196.43 | 1201.83 | 1226.95 | 1249.79 | 1281.17 |
| 50.0 | 1324.33 | 1319.96 | 1308.37 | 1283.82 | 1235.24 | 1181.17 | 1148.65 | 1163.75 | 1207.79 | 1264.43 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 52.5 | 1338.58 | 1339.33 | 1330.53 | 1280.21 | 1200.35 | 1138.64 | 1119.84 | 1151.48 | 1234.12 | 1305.89 |
| 55.0 | 1349.17 | 1375.71 | 1333.18 | 1226.83 | 1127.50 | 1077.64 | 1083.47 | 1152.14 | 1238.18 | 1265.02 |
| 57.5 | 1228.42 | 1279.94 | 1260.93 | 1129.43 | 1037.43 | 995.67 | 1012.96 | 1044.44 | 1062.16 | 1097.19 |
| 60.0 | 1067.65 | 1058.87 | 1001.28 | 954.00 | 916.21 | 863.39 | 846.26 | 834.56 | 846.74 | 867.48 |
| 62.5 | 864.23 | 819.53 | 762.80 | 725.73 | 701.50 | 667.86 | 622.10 | 609.64 | 612.30 | 624.75 |
| 65.0 | 642.59 | 587.20 | 538.41 | 520.28 | 514.17 | 481.72 | 433.41 | 377.60 | 372.76 | 376.36 |
| 67.5 | 422.40 | 369.59 | 338.55 | 347.40 | 353.91 | 337.18 | 301.17 | 242.77 | 188.28 | 217.41 |
| 70.0 | 314.43 | 230.32 | 181.11 | 203.64 | 228.51 | 227.79 | 203.36 | 163.45 | 152.21 | 151.95 |
| 72.5 | 238.26 | 180.28 | 158.52 | 159.15 | 153.61 | 148.23 | 138.03 | 127.45 | 128.67 | 128.63 |
| 75.0 | 180.98 | 147.83 | 141.74 | 140.33 | 134.23 | 124.29 | 109.66 | 104.95 | 108.86 | 111.80 |
| 77.5 | 135.64 | 124.63 | 128.20 | 121.57 | 117.24 | 108.54 | 99.30 | 97.05 | 96.81 | 101.58 |
| 80.0 | 89.56 | 100.36 | 117.99 | 104.94 | 103.92 | 96.43 | 91.19 | 89.65 | 90.17 | 91.48 |
| 82.5 | 12.18 | 22.21 | 35.17 | 44.42 | 57.02 | 67.39 | 80.20 | 82.54 | 83.26 | 83.14 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.79 | 27.11 | 45.50 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Angles **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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 804.90 | 803.00 | 801.09 | 799.19 | 797.28 | 795.40 | 793.54 | 791.70 | 789.91 | 793.40 |
| 5.0 | 849.16 | 848.88 | 848.27 | 847.30 | 845.96 | 844.22 | 842.06 | 839.47 | 836.42 | 844.60 |
| 7.5 | 870.88 | 858.85 | 850.23 | 842.33 | 835.18 | 828.81 | 823.28 | 818.61 | 814.83 | 829.93 |
| 10.0 | 773.32 | 768.22 | 764.08 | 760.76 | 758.13 | 756.04 | 754.33 | 752.84 | 751.40 | 771.59 |
| 12.5 | 818.46 | 830.14 | 838.03 | 855.79 | 867.82 | 878.58 | 887.90 | 895.58 | 901.44 | 916.94 |
| 15.0 | 970.13 | 1007.06 | 1033.81 | 1057.85 | 1079.15 | 1097.66 | 1113.37 | 1126.25 | 1136.29 | 1137.96 |
| 17.5 | 1182.55 | 1214.63 | 1243.54 | 1262.65 | 1294.21 | 1314.44 | 1330.95 | 1343.88 | 1353.42 | 1335.98 |
| 20.0 | 1408.39 | 1434.73 | 1453.66 | 1464.84 | 1471.37 | 1474.01 | 1473.55 | 1470.83 | 1466.71 | 1435.90 |
| 22.5 | 1542.37 | 1559.00 | 1569.25 | 1577.06 | 1582.77 | 1584.58 | 1582.76 | 1578.01 | 1571.09 | 1527.69 |
| 25.0 | 1693.88 | 1692.77 | 1683.45 | 1654.94 | 1626.37 | 1596.58 | 1566.69 | 1537.85 | 1511.23 | 1473.42 |
| 27.5 | 1683.23 | 1624.10 | 1561.59 | 1506.06 | 1461.25 | 1424.89 | 1394.13 | 1366.23 | 1340.50 | 1324.43 |
| 30.0 | 1521.52 | 1493.43 | 1466.67 | 1443.11 | 1419.85 | 1395.64 | 1370.77 | 1345.55 | 1320.30 | 1318.88 |
| 32.5 | 1534.35 | 1506.67 | 1473.51 | 1433.75 | 1389.76 | 1337.94 | 1286.92 | 1239.37 | 1196.29 | 1215.29 |
| 35.0 | 1533.80 | 1464.42 | 1389.75 | 1320.44 | 1251.32 | 1192.02 | 1138.35 | 1089.37 | 1044.11 | 1076.91 |
| 37.5 | 1420.07 | 1360.61 | 1312.06 | 1291.45 | 1262.45 | 1226.31 | 1183.66 | 1136.45 | 1086.38 | 1118.18 |
| 40.0 | 1447.31 | 1480.50 | 1443.53 | 1391.20 | 1324.91 | 1254.82 | 1185.48 | 1117.42 | 1051.15 | 1099.09 |
| 42.5 | 1472.01 | 1503.91 | 1441.69 | 1358.67 | 1277.94 | 1202.62 | 1131.56 | 1062.23 | 994.16 | 1061.19 |
| 45.0 | 1377.12 | 1402.44 | 1412.68 | 1343.17 | 1267.48 | 1187.48 | 1107.13 | 1025.61 | 945.69 | 1037.99 |
| 47.5 | 1325.20 | 1368.46 | 1408.84 | 1366.72 | 1286.51 | 1204.70 | 1125.48 | 1046.13 | 964.72 | 1040.30 |
| 50.0 | 1324.80 | 1373.12 | 1399.94 | 1415.05 | 1353.60 | 1289.60 | 1221.46 | 1148.82 | 1071.36 | 1085.03 |
| 52.5 | 1334.69 | 1363.92 | 1406.94 | 1438.51 | 1359.70 | 1254.88 | 1163.27 | 1088.93 | 1028.93 | 1011.35 |
| 55.0 | 1256.64 | 1255.77 | 1226.98 | 1175.03 | 1103.00 | 1019.30 | 969.25 | 943.11 | 932.12 | 883.92 |
| 57.5 | 1090.83 | 1035.57 | 966.67 | 892.22 | 823.40 | 776.86 | 762.18 | 770.55 | 795.42 | 718.72 |
| 60.0 | 893.36 | 826.41 | 717.67 | 626.38 | 567.54 | 546.23 | 551.62 | 566.19 | 593.88 | 504.48 |
| 62.5 | 615.04 | 575.99 | 471.81 | 404.16 | 378.03 | 362.65 | 335.00 | 303.77 | 298.01 | 264.41 |
| 65.0 | 368.02 | 321.60 | 252.83 | 228.75 | 210.18 | 190.81 | 178.27 | 168.46 | 162.50 | 156.14 |
| 67.5 | 214.45 | 180.86 | 168.77 | 163.32 | 158.00 | 155.77 | 149.59 | 142.95 | 138.58 | 131.35 |
| 70.0 | 149.38 | 144.68 | 138.75 | 136.40 | 131.60 | 130.16 | 128.42 | 120.89 | 116.56 | 111.72 |
| 72.5 | 126.64 | 118.13 | 116.01 | 112.58 | 109.95 | 106.56 | 104.62 | 100.96 | 99.08 | 98.41 |
| 75.0 | 108.87 | 102.89 | 100.50 | 100.49 | 96.89 | 97.81 | 95.94 | 93.83 | 91.78 | 90.43 |
| 77.5 | 95.77 | 93.24 | 94.13 | 90.58 | 88.89 | 87.88 | 87.14 | 86.60 | 85.99 | 85.53 |
| 80.0 | 87.68 | 86.22 | 85.96 | 83.67 | 84.20 | 83.34 | 83.49 | 83.21 | 81.66 | 81.07 |
| 82.5 | 81.79 | 81.02 | 78.94 | 77.98 | 76.98 | 76.70 | 75.79 | 76.05 | 74.55 | 73.63 |
| 85.0 | 66.84 | 72.92 | 69.73 | 67.61 | 66.88 | 63.88 | 63.94 | 64.82 | 65.22 | 63.26 |
| 87.5 | 0.00 | 0.00 | 0.00 | 16.65 | 44.71 | 51.96 | 47.52 | 45.68 | 51.85 | 50.27 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|---------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.43 | 0.00 |
| Vert. Angles | 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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 796.92 | 800.47 | 804.05 | 807.63 | 811.21 | 814.78 | 818.34 | 821.87 | 825.37 | 828.83 |
| 5.0 | 852.28 | 859.42 | 865.98 | 871.94 | 877.28 | 881.95 | 885.95 | 889.24 | 891.82 | 893.65 |
| 7.5 | 845.87 | 862.56 | 879.94 | 897.90 | 916.37 | 935.26 | 956.98 | 971.70 | 987.35 | 1002.78 |
| 10.0 | 791.68 | 811.68 | 831.58 | 851.41 | 871.16 | 890.84 | 910.44 | 929.98 | 949.58 | 972.57 |
| 12.5 | 930.75 | 943.17 | 954.51 | 965.08 | 971.45 | 985.79 | 997.03 | 1008.43 | 1020.15 | 1030.45 |
| 15.0 | 1137.42 | 1135.30 | 1132.23 | 1128.83 | 1125.69 | 1123.37 | 1119.33 | 1122.71 | 1124.73 | 1129.06 |
| 17.5 | 1316.14 | 1294.73 | 1272.57 | 1246.42 | 1229.92 | 1211.67 | 1195.94 | 1183.38 | 1175.69 | 1173.22 |
| 20.0 | 1404.89 | 1373.98 | 1343.49 | 1313.72 | 1284.96 | 1257.52 | 1228.66 | 1202.69 | 1180.75 | 1160.42 |
| 22.5 | 1483.19 | 1437.90 | 1392.12 | 1345.66 | 1298.38 | 1252.25 | 1206.06 | 1168.87 | 1133.98 | 1104.40 |
| 25.0 | 1438.00 | 1403.96 | 1370.29 | 1336.03 | 1302.45 | 1256.78 | 1209.75 | 1161.58 | 1111.22 | 1062.50 |
| 27.5 | 1308.53 | 1291.49 | 1271.79 | 1254.45 | 1232.96 | 1204.56 | 1175.33 | 1134.41 | 1089.49 | 1039.84 |
| 30.0 | 1316.60 | 1312.36 | 1305.07 | 1293.71 | 1276.75 | 1252.37 | 1219.47 | 1182.39 | 1133.88 | 1074.56 |
| 32.5 | 1238.23 | 1263.55 | 1288.76 | 1308.34 | 1324.26 | 1329.39 | 1318.17 | 1294.63 | 1255.83 | 1213.42 |
| 35.0 | 1111.73 | 1147.89 | 1184.73 | 1222.90 | 1263.25 | 1302.00 | 1333.86 | 1357.77 | 1346.65 | 1322.01 |
| 37.5 | 1148.63 | 1177.49 | 1204.21 | 1229.45 | 1253.72 | 1281.49 | 1310.92 | 1333.47 | 1347.12 | 1351.77 |
| 40.0 | 1147.30 | 1193.75 | 1236.50 | 1273.87 | 1305.60 | 1330.71 | 1340.31 | 1345.61 | 1353.23 | 1360.62 |
| 42.5 | 1127.91 | 1192.46 | 1254.87 | 1312.15 | 1361.09 | 1387.60 | 1367.66 | 1362.06 | 1369.71 | 1383.93 |
| 45.0 | 1129.60 | 1217.90 | 1300.39 | 1371.21 | 1424.46 | 1395.83 | 1359.30 | 1343.36 | 1343.91 | 1360.85 |
| 47.5 | 1119.77 | 1210.23 | 1310.94 | 1425.90 | 1464.61 | 1384.92 | 1317.21 | 1273.39 | 1263.19 | 1283.13 |
| 50.0 | 1103.65 | 1136.94 | 1193.94 | 1285.60 | 1276.56 | 1243.96 | 1209.33 | 1164.73 | 1137.57 | 1148.54 |
| 52.5 | 1003.58 | 1008.44 | 1030.98 | 1049.43 | 1005.56 | 973.72 | 958.95 | 953.34 | 952.04 | 934.58 |
| 55.0 | 848.16 | 831.07 | 836.05 | 798.95 | 746.97 | 715.50 | 696.86 | 691.04 | 700.33 | 696.10 |
| 57.5 | 657.44 | 615.32 | 595.61 | 550.70 | 501.80 | 459.52 | 436.62 | 455.66 | 477.88 | 481.49 |
| 60.0 | 432.68 | 378.72 | 357.91 | 347.60 | 314.46 | 259.88 | 221.19 | 266.76 | 306.06 | 314.14 |
| 62.5 | 239.60 | 197.95 | 189.80 | 198.81 | 197.27 | 159.77 | 158.41 | 164.54 | 186.37 | 193.23 |
| 65.0 | 152.11 | 148.52 | 145.22 | 143.79 | 142.00 | 138.61 | 137.14 | 133.90 | 132.30 | 124.77 |
| 67.5 | 126.26 | 124.74 | 123.77 | 122.51 | 121.43 | 125.46 | 121.35 | 117.55 | 114.01 | 113.87 |
| 70.0 | 108.32 | 107.52 | 106.59 | 106.98 | 109.15 | 109.50 | 116.91 | 107.67 | 106.57 | 106.68 |
| 72.5 | 96.66 | 95.37 | 97.18 | 99.08 | 100.01 | 100.62 | 100.24 | 105.50 | 100.59 | 99.84 |
| 75.0 | 89.08 | 88.62 | 87.75 | 91.34 | 94.90 | 94.08 | 92.94 | 93.95 | 95.28 | 93.99 |
| 77.5 | 84.26 | 83.19 | 82.36 | 85.14 | 86.66 | 87.65 | 86.87 | 86.10 | 86.23 | 84.51 |
| 80.0 | 79.66 | 77.21 | 75.67 | 76.59 | 79.02 | 80.63 | 79.09 | 76.29 | 75.48 | 74.39 |
| 82.5 | 71.69 | 70.01 | 67.34 | 67.91 | 69.26 | 69.77 | 68.67 | 66.48 | 65.22 | 64.12 |
| 85.0 | 62.53 | 58.72 | 57.62 | 57.18 | 58.01 | 58.89 | 51.62 | 34.25 | 20.74 | 9.07 |
| 87.5 | 50.77 | 50.94 | 40.20 | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | |
|---------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 832.24 | 835.59 | 839.23 | 842.33 | 846.47 | 850.58 | 854.65 | 858.68 | 862.66 | 866.57 |
| 5.0 | 894.74 | 895.06 | 889.16 | 895.03 | 899.46 | 903.45 | 906.96 | 910.02 | 912.60 | 914.11 |
| 7.5 | 1017.95 | 1032.81 | 1047.30 | 1057.73 | 1058.05 | 1054.12 | 1055.64 | 1050.04 | 1045.93 | 1036.61 |
| 10.0 | 995.26 | 1021.35 | 1045.32 | 1070.05 | 1096.72 | 1122.68 | 1149.89 | 1165.32 | 1180.33 | 1194.90 |
| 12.5 | 1048.43 | 1066.34 | 1084.95 | 1105.44 | 1128.40 | 1151.35 | 1176.67 | 1203.61 | 1229.64 | 1256.70 |
| 15.0 | 1136.09 | 1146.04 | 1158.54 | 1173.66 | 1190.97 | 1210.40 | 1236.14 | 1264.66 | 1291.18 | 1319.98 |
| 17.5 | 1176.29 | 1181.54 | 1192.75 | 1208.58 | 1228.16 | 1252.40 | 1279.83 | 1310.02 | 1342.00 | 1378.96 |
| 20.0 | 1146.34 | 1141.37 | 1146.22 | 1160.93 | 1185.92 | 1219.02 | 1261.07 | 1304.67 | 1334.46 | 1359.59 |
| 22.5 | 1081.79 | 1064.25 | 1056.54 | 1059.23 | 1077.16 | 1120.31 | 1167.87 | 1214.34 | 1256.92 | 1290.99 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-G-40W-5000K-D120.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 25.0 | 1020.31 | 984.21 | 959.65 | 987.24 | 1020.63 | 1062.31 | 1106.09 | 1150.15 | 1193.49 | 1233.97 |
| 27.5 | 985.19 | 964.68 | 973.62 | 990.14 | 1014.83 | 1047.86 | 1086.64 | 1125.19 | 1163.80 | 1201.15 |
| 30.0 | 1045.02 | 1025.63 | 1019.35 | 1020.30 | 1029.77 | 1049.59 | 1081.36 | 1122.61 | 1164.74 | 1199.16 |
| 32.5 | 1170.99 | 1130.93 | 1095.00 | 1073.61 | 1065.69 | 1070.44 | 1087.59 | 1119.32 | 1165.17 | 1218.04 |
| 35.0 | 1285.07 | 1240.59 | 1193.57 | 1152.47 | 1121.35 | 1106.76 | 1108.01 | 1126.60 | 1161.30 | 1213.54 |
| 37.5 | 1344.48 | 1321.29 | 1281.99 | 1236.44 | 1193.75 | 1162.94 | 1145.64 | 1145.28 | 1149.31 | 1155.15 |
| 40.0 | 1365.57 | 1356.35 | 1334.50 | 1300.26 | 1257.40 | 1215.51 | 1157.59 | 1104.37 | 1074.21 | 1069.43 |
| 42.5 | 1394.68 | 1394.88 | 1380.75 | 1347.45 | 1280.15 | 1178.65 | 1093.22 | 1031.90 | 997.21 | 983.85 |
| 45.0 | 1392.05 | 1421.77 | 1430.75 | 1311.72 | 1186.26 | 1085.05 | 1003.51 | 939.55 | 902.18 | 888.94 |
| 47.5 | 1322.49 | 1348.07 | 1265.64 | 1160.82 | 1053.00 | 952.74 | 878.93 | 823.14 | 788.20 | 780.59 |
| 50.0 | 1148.75 | 1090.42 | 1022.93 | 950.08 | 863.61 | 777.16 | 715.24 | 676.87 | 650.59 | 652.77 |
| 52.5 | 893.28 | 837.29 | 773.37 | 704.05 | 637.27 | 564.83 | 510.26 | 490.51 | 490.36 | 516.34 |
| 55.0 | 663.92 | 610.25 | 541.77 | 464.98 | 390.60 | 329.80 | 294.52 | 342.53 | 388.02 | 415.99 |
| 57.5 | 461.11 | 412.27 | 338.81 | 250.44 | 175.18 | 200.81 | 232.05 | 261.82 | 299.74 | 326.90 |
| 60.0 | 291.99 | 242.34 | 165.18 | 151.93 | 151.74 | 159.82 | 182.38 | 203.04 | 224.62 | 244.03 |
| 62.5 | 168.31 | 140.22 | 140.82 | 139.04 | 135.22 | 135.58 | 143.75 | 157.78 | 167.77 | 173.83 |
| 65.0 | 124.31 | 126.83 | 126.66 | 126.06 | 121.92 | 119.26 | 118.76 | 122.28 | 124.01 | 115.90 |
| 67.5 | 113.46 | 114.87 | 114.88 | 112.96 | 109.51 | 105.25 | 101.84 | 99.28 | 101.16 | 101.27 |
| 70.0 | 105.66 | 104.94 | 104.09 | 101.43 | 98.51 | 94.88 | 93.40 | 91.34 | 91.29 | 93.28 |
| 72.5 | 98.89 | 97.37 | 95.19 | 92.86 | 90.27 | 87.62 | 85.71 | 83.78 | 82.86 | 84.21 |
| 75.0 | 91.50 | 88.77 | 86.41 | 84.21 | 81.88 | 80.05 | 78.11 | 76.28 | 74.76 | 75.24 |
| 77.5 | 82.00 | 79.67 | 77.39 | 75.72 | 73.64 | 71.92 | 70.48 | 68.56 | 66.91 | 66.41 |
| 80.0 | 72.31 | 70.48 | 68.59 | 67.02 | 65.33 | 59.59 | 52.12 | 44.53 | 38.00 | 32.69 |
| 82.5 | 59.87 | 48.04 | 37.50 | 28.36 | 20.33 | 13.21 | 7.12 | 1.61 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 870.42 | 874.20 | 877.90 | 881.51 | 886.23 | 890.37 | 898.15 | 905.89 | 913.56 | 921.17 |
| 5.0 | 918.77 | 923.27 | 927.47 | 931.36 | 934.93 | 939.58 | 945.72 | 951.60 | 957.22 | 964.04 |
| 7.5 | 1026.01 | 1012.68 | 1012.96 | 1011.90 | 1009.99 | 1010.37 | 1013.86 | 1016.81 | 1020.30 | 1027.42 |
| 10.0 | 1190.32 | 1180.82 | 1169.54 | 1148.79 | 1126.33 | 1110.85 | 1103.58 | 1095.32 | 1097.14 | 1098.22 |
| 12.5 | 1282.21 | 1298.64 | 1310.38 | 1305.98 | 1288.04 | 1261.81 | 1226.89 | 1201.95 | 1186.38 | 1179.26 |
| 15.0 | 1346.71 | 1373.25 | 1397.03 | 1415.73 | 1423.19 | 1412.58 | 1380.97 | 1340.09 | 1296.71 | 1271.74 |
| 17.5 | 1418.04 | 1451.46 | 1463.70 | 1465.86 | 1462.74 | 1452.04 | 1431.33 | 1383.65 | 1322.75 | 1268.46 |
| 20.0 | 1375.61 | 1391.80 | 1405.71 | 1413.03 | 1411.11 | 1405.01 | 1391.11 | 1365.27 | 1309.34 | 1250.18 |
| 22.5 | 1317.08 | 1335.81 | 1348.29 | 1359.63 | 1363.42 | 1359.58 | 1347.43 | 1325.13 | 1287.01 | 1230.43 |
| 25.0 | 1269.76 | 1292.05 | 1306.53 | 1313.71 | 1319.17 | 1317.91 | 1307.25 | 1284.97 | 1250.87 | 1198.98 |
| 27.5 | 1234.87 | 1261.78 | 1278.17 | 1284.46 | 1283.47 | 1280.63 | 1270.39 | 1249.61 | 1211.53 | 1162.16 |
| 30.0 | 1227.69 | 1251.52 | 1266.33 | 1269.82 | 1263.41 | 1250.97 | 1237.62 | 1214.75 | 1175.22 | 1121.39 |
| 32.5 | 1246.94 | 1264.57 | 1274.77 | 1272.65 | 1258.42 | 1233.88 | 1212.85 | 1193.05 | 1164.17 | 1112.17 |
| 35.0 | 1271.16 | 1276.32 | 1260.62 | 1245.53 | 1227.87 | 1208.33 | 1189.74 | 1174.27 | 1153.10 | 1110.19 |
| 37.5 | 1178.84 | 1207.80 | 1204.38 | 1196.38 | 1186.67 | 1174.64 | 1161.74 | 1149.68 | 1137.15 | 1105.13 |
| 40.0 | 1083.61 | 1110.51 | 1133.43 | 1136.83 | 1136.03 | 1132.32 | 1127.40 | 1120.94 | 1114.51 | 1098.21 |
| 42.5 | 994.04 | 1018.92 | 1046.89 | 1067.16 | 1076.42 | 1081.85 | 1085.99 | 1088.00 | 1088.07 | 1080.29 |
| 45.0 | 902.46 | 928.23 | 960.22 | 988.46 | 1008.46 | 1024.43 | 1037.75 | 1049.90 | 1057.08 | 1059.51 |
| 47.5 | 796.28 | 834.35 | 873.29 | 903.21 | 932.10 | 952.30 | 954.62 | 955.55 | 950.40 | 941.38 |
| 50.0 | 680.51 | 727.51 | 762.82 | 783.36 | 789.91 | 801.37 | 801.23 | 800.05 | 794.99 | 786.19 |
| 52.5 | 554.89 | 586.27 | 621.92 | 641.37 | 645.83 | 650.47 | 650.37 | 646.19 | 640.28 | 631.28 |
| 55.0 | 440.40 | 462.84 | 489.31 | 504.13 | 506.95 | 504.77 | 501.59 | 494.14 | 485.92 | 476.28 |
| 57.5 | 338.21 | 352.87 | 364.12 | 373.92 | 372.37 | 363.33 | 355.22 | 343.91 | 332.39 | 321.48 |
| 60.0 | 251.31 | 253.62 | 252.43 | 250.90 | 240.91 | 226.38 | 211.29 | 195.70 | 179.86 | 167.01 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 62.5 | 172.79 | 163.98 | 150.85 | 135.05 | 120.08 | 121.24 | 121.39 | 121.83 | 121.84 | 122.92 |
| 65.0 | 109.00 | 110.09 | 109.89 | 109.80 | 111.07 | 111.70 | 111.92 | 112.20 | 112.33 | 112.87 |
| 67.5 | 100.05 | 101.29 | 100.93 | 100.53 | 102.00 | 102.20 | 102.51 | 102.69 | 102.81 | 103.02 |
| 70.0 | 91.58 | 92.56 | 92.14 | 91.50 | 92.60 | 92.92 | 93.18 | 93.27 | 93.29 | 93.27 |
| 72.5 | 83.09 | 83.98 | 83.58 | 82.64 | 83.32 | 83.69 | 83.91 | 83.87 | 83.73 | 83.62 |
| 75.0 | 74.61 | 75.46 | 75.13 | 73.91 | 74.23 | 74.59 | 74.65 | 74.50 | 74.20 | 74.03 |
| 77.5 | 66.01 | 64.04 | 59.82 | 54.96 | 51.89 | 49.32 | 46.77 | 44.44 | 42.33 | 40.61 |
| 80.0 | 28.13 | 24.38 | 20.71 | 16.92 | 13.97 | 11.35 | 8.96 | 6.83 | 4.99 | 3.45 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| 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 | 890.98 | 890.98 | 890.98 | 890.98 | 890.98 |
| 2.5 | 928.69 | 936.13 | 943.46 | 950.69 | 957.80 |
| 5.0 | 972.91 | 986.20 | 999.24 | 1012.05 | 1024.61 |
| 7.5 | 1034.12 | 1041.22 | 1058.35 | 1075.08 | 1091.43 |
| 10.0 | 1103.24 | 1110.28 | 1120.77 | 1139.77 | 1158.24 |
| 12.5 | 1177.78 | 1182.20 | 1189.28 | 1206.12 | 1225.06 |
| 15.0 | 1260.16 | 1256.12 | 1261.78 | 1274.11 | 1291.87 |
| 17.5 | 1233.26 | 1222.92 | 1220.64 | 1227.23 | 1243.70 |
| 20.0 | 1206.05 | 1183.86 | 1177.66 | 1180.68 | 1195.52 |
| 22.5 | 1174.55 | 1143.58 | 1135.42 | 1135.10 | 1147.35 |
| 25.0 | 1142.91 | 1105.82 | 1094.33 | 1090.94 | 1099.17 |
| 27.5 | 1107.12 | 1068.36 | 1053.14 | 1047.90 | 1051.00 |
| 30.0 | 1062.38 | 1027.71 | 1011.21 | 1005.09 | 1002.82 |
| 32.5 | 1056.54 | 1017.06 | 1002.40 | 998.55 | 995.12 |
| 35.0 | 1055.10 | 1011.36 | 994.43 | 992.26 | 987.41 |
| 37.5 | 1048.50 | 1004.01 | 986.08 | 985.91 | 979.70 |
| 40.0 | 1044.65 | 995.56 | 978.23 | 979.47 | 972.00 |
| 42.5 | 1036.33 | 985.05 | 968.78 | 972.97 | 964.29 |
| 45.0 | 1024.54 | 978.14 | 958.07 | 966.40 | 956.59 |
| 47.5 | 907.34 | 853.88 | 824.51 | 827.60 | 817.24 |
| 50.0 | 762.74 | 715.12 | 685.77 | 687.28 | 677.89 |
| 52.5 | 615.06 | 574.41 | 547.43 | 546.91 | 538.54 |
| 55.0 | 462.85 | 432.11 | 409.49 | 406.37 | 399.19 |
| 57.5 | 309.03 | 288.01 | 272.33 | 265.86 | 259.83 |
| 60.0 | 154.73 | 142.14 | 134.00 | 125.52 | 120.48 |
| 62.5 | 122.90 | 120.69 | 119.52 | 115.31 | 112.02 |
| 65.0 | 112.92 | 110.87 | 109.89 | 106.30 | 103.56 |
| 67.5 | 102.90 | 101.05 | 100.22 | 97.26 | 95.10 |
| 70.0 | 92.91 | 91.18 | 90.51 | 88.18 | 86.63 |
| 72.5 | 82.94 | 81.35 | 80.78 | 79.08 | 78.17 |
| 75.0 | 72.98 | 71.45 | 71.02 | 69.96 | 69.71 |
| 77.5 | 38.78 | 36.97 | 36.07 | 35.12 | 34.86 |
| 80.0 | 2.18 | 1.20 | 0.53 | 0.13 | 0.00 |
| 82.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-G-40W-5000K-D120.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 416.62 | 10.80 | 10.80 |
| 0-30 | 1039.9 | 26.90 | 27.00 |
| 0-40 | 1845.69 | 47.70 | 47.90 |
| 0-60 | 3382.36 | 87.50 | 87.80 |
| 0-80 | 3833.27 | 99.20 | 99.50 |
| 0-90 | 3851.39 | 99.60 | 100.00 |
| 10-90 | 3761.98 | 97.30 | 97.70 |
| 20-40 | 1429.07 | 37.00 | 37.10 |
| 20-50 | 2286.37 | 59.10 | 59.40 |
| 40-70 | 1865.59 | 48.30 | 48.40 |
| 60-80 | 450.91 | 11.70 | 11.70 |
| 70-80 | 121.99 | 3.20 | 3.20 |
| 80-90 | 18.12 | 0.50 | 0.50 |
| 90-110 | 0.00 | 0.00 | 0.00 |
| 90-120 | 0.00 | 0.00 | 0.00 |
| 90-130 | 0.00 | 0.00 | 0.00 |
| 90-150 | 0.00 | 0.00 | 0.00 |
| 90-180 | 0.00 | 0.00 | 0.00 |
| 110-180 | 0.00 | 0.00 | 0.00 |
| 0-180 | 3851.39 | 99.60 | 100.00 |

Total Luminaire Efficiency = 99.60%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 89.41 |
| 10-20 | 327.21 |
| 20-30 | 623.29 |
| 30-40 | 805.78 |
| 40-50 | 857.30 |
| 50-60 | 679.38 |
| 60-70 | 328.92 |
| 70-80 | 121.99 |
| 80-90 | 18.12 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

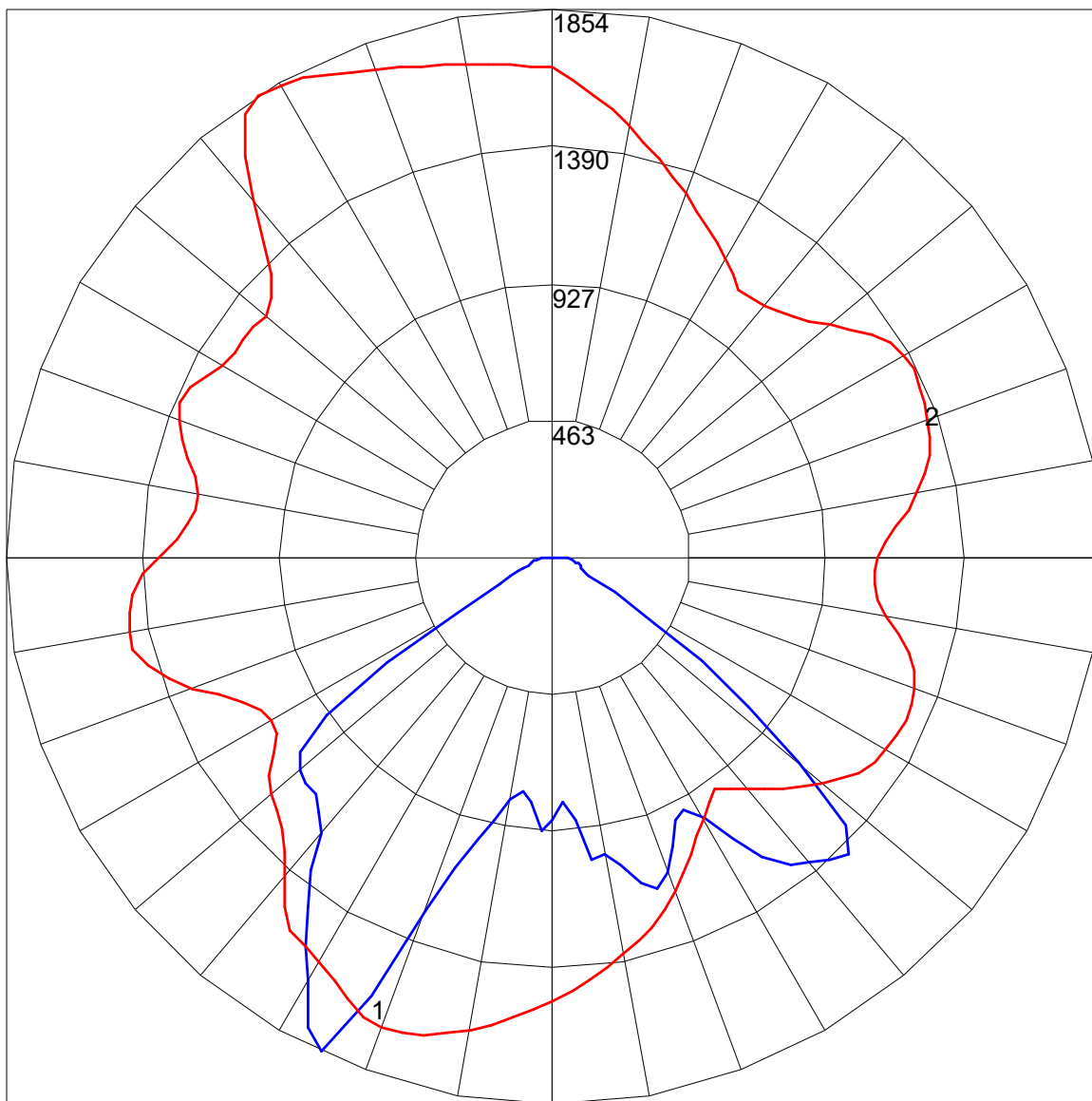
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-G-40W-5000K-D120.IES

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 68 | 78 | 71 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 53 | 49 | 58 | 52 | 48 | 46 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 |

POLAR GRAPH



Maximum Candela = 1853.94 Located At Horizontal Angle = 122.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (122.5 - 302.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)