

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 2#  
[TESTLAB] BEGHELLI  
[TESTDATE] 2023-12-11  
[ISSUEDATE] 2023-12-26 09:37:29  
[LAMPPOSITION] 0,0  
[LUMCAT] NSF VAPORTIGHT  
[LUMINAIRE] FSVTSELHTMO35K  
[LAMP] LED  
[MANUFAC] BEGHELLI

**CHARACTERISTICS**

|                                 |                |
|---------------------------------|----------------|
| Lumens Per Lamp                 | 20652 (1 lamp) |
| Total Lamp Lumens               | 20652          |
| Luminaire Lumens                | 20651          |
| Total Luminaire Efficiency      | 100 %          |
| Luminaire Efficacy Rating (LER) | 152            |
| Total Luminaire Watts           | 135.514        |
| Ballast Factor                  | 1.00           |
| CIE Type                        | Direct         |
| Spacing Criterion (0-180)       | 1.22           |
| Spacing Criterion (90-270)      | 1.20           |
| Spacing Criterion (Diagonal)    | 1.34           |
| Basic Luminous Shape            | Rectangular    |
| Luminous Length (0-180)         | 0.52 m         |
| Luminous Width (90-270)         | 0.26 m         |
| Luminous Height                 | 0.00 m         |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 47240            | 45497             | 44035             |
| 55                  | 46153            | 42825             | 39538             |
| 65                  | 45119            | 40710             | 34574             |
| 75                  | 43988            | 39098             | 28464             |
| 85                  | 60073            | 50516             | 22359             |

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**CANDELA TABULATION**

|    | <u>0</u> | <u>15</u> | <u>30</u> | <u>45</u> | <u>60</u> | <u>75</u> | <u>90</u> | <u>105</u> | <u>120</u> | <u>135</u> |
|----|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| 0  | 7172.500 | 7172.500  | 7172.500  | 7172.500  | 7172.500  | 7172.500  | 7172.500  | 7172.500   | 7172.500   | 7172.500   |
| 1  | 7166.400 | 7167.600  | 7167.600  | 7168.800  | 7169.400  | 7170.000  | 7171.300  | 7172.500   | 7173.200   | 7173.700   |
| 2  | 7156.000 | 7159.500  | 7159.600  | 7161.300  | 7162.100  | 7164.400  | 7166.400  | 7168.700   | 7170.700   | 7172.500   |
| 3  | 7143.700 | 7147.800  | 7147.900  | 7150.800  | 7152.800  | 7155.100  | 7158.400  | 7161.900   | 7164.600   | 7167.500   |
| 4  | 7127.800 | 7133.600  | 7133.100  | 7137.200  | 7139.900  | 7142.700  | 7147.900  | 7152.600   | 7155.300   | 7160.000   |
| 5  | 7108.800 | 7114.400  | 7115.300  | 7120.500  | 7122.600  | 7128.400  | 7133.100  | 7139.500   | 7143.000   | 7147.600   |
| 6  | 7084.900 | 7091.000  | 7095.000  | 7100.600  | 7103.500  | 7109.800  | 7115.800  | 7124.000   | 7126.900   | 7132.600   |
| 7  | 7057.800 | 7065.700  | 7069.100  | 7077.100  | 7079.400  | 7087.500  | 7094.200  | 7103.500   | 7107.100   | 7112.200   |
| 8  | 7026.500 | 7034.900  | 7040.700  | 7050.600  | 7054.100  | 7063.400  | 7070.000  | 7081.300   | 7084.800   | 7091.100   |
| 9  | 6993.900 | 7004.100  | 7008.000  | 7020.900  | 7024.400  | 7035.600  | 7042.800  | 7055.800   | 7060.100   | 7065.100   |
| 10 | 6957.100 | 6966.500  | 6972.300  | 6983.800  | 6992.300  | 7003.400  | 7012.500  | 7025.500   | 7029.800   | 7036.600   |
| 11 | 6921.400 | 6930.100  | 6932.800  | 6949.100  | 6955.800  | 6969.900  | 6979.100  | 6994.400   | 6998.800   | 7005.500   |
| 12 | 6880.300 | 6890.600  | 6893.300  | 6906.500  | 6916.900  | 6932.100  | 6942.600  | 6957.300   | 6961.000   | 6969.600   |
| 13 | 6840.300 | 6851.200  | 6851.300  | 6864.400  | 6874.300  | 6891.300  | 6903.000  | 6920.700   | 6922.600   | 6934.200   |
| 14 | 6796.700 | 6808.600  | 6807.500  | 6818.000  | 6827.900  | 6847.300  | 6859.100  | 6877.900   | 6880.500   | 6892.700   |
| 15 | 6750.600 | 6760.500  | 6760.600  | 6768.600  | 6779.100  | 6800.200  | 6813.900  | 6832.000   | 6835.300   | 6849.900   |
| 16 | 6702.100 | 6713.000  | 6711.300  | 6719.100  | 6726.100  | 6750.700  | 6762.700  | 6784.900   | 6789.600   | 6804.000   |
| 17 | 6650.500 | 6661.300  | 6659.500  | 6665.900  | 6672.200  | 6698.100  | 6711.900  | 6732.900   | 6738.200   | 6753.700   |
| 18 | 6600.100 | 6609.500  | 6605.200  | 6613.300  | 6614.800  | 6641.700  | 6655.000  | 6680.100   | 6684.900   | 6701.000   |
| 19 | 6545.400 | 6555.400  | 6550.200  | 6552.900  | 6554.800  | 6583.100  | 6597.400  | 6621.400   | 6628.500   | 6644.800   |
| 20 | 6491.300 | 6499.900  | 6489.800  | 6493.600  | 6491.100  | 6520.600  | 6536.100  | 6562.600   | 6569.100   | 6588.300   |
| 21 | 6432.900 | 6443.200  | 6429.300  | 6429.900  | 6426.200  | 6455.600  | 6469.900  | 6498.700   | 6507.700   | 6527.000   |
| 22 | 6375.700 | 6382.200  | 6367.500  | 6364.300  | 6358.800  | 6387.400  | 6404.900  | 6432.400   | 6443.300   | 6464.300   |
| 23 | 6311.200 | 6321.100  | 6303.300  | 6295.700  | 6288.300  | 6315.600  | 6334.300  | 6362.400   | 6373.900   | 6398.600   |
| 24 | 6247.900 | 6257.000  | 6237.300  | 6224.600  | 6215.300  | 6241.400  | 6260.000  | 6291.700   | 6304.500   | 6332.300   |
| 25 | 6178.400 | 6189.200  | 6167.500  | 6152.900  | 6138.700  | 6164.600  | 6187.600  | 6217.400   | 6229.000   | 6262.800   |
| 26 | 6109.500 | 6121.300  | 6098.400  | 6080.500  | 6062.000  | 6084.800  | 6107.100  | 6139.900   | 6155.800   | 6192.100   |
| 27 | 6040.200 | 6045.000  | 6023.900  | 6001.500  | 5980.600  | 6003.600  | 6026.800  | 6058.700   | 6074.300   | 6114.700   |
| 28 | 5965.300 | 5974.600  | 5950.400  | 5926.600  | 5900.200  | 5918.800  | 5943.300  | 5980.000   | 5994.900   | 6040.900   |
| 29 | 5892.700 | 5897.000  | 5869.600  | 5843.800  | 5812.400  | 5831.600  | 5857.200  | 5890.200   | 5911.300   | 5959.100   |
| 30 | 5814.100 | 5823.200  | 5789.300  | 5766.100  | 5725.200  | 5741.400  | 5768.700  | 5808.600   | 5823.400   | 5881.200   |
| 31 | 5736.600 | 5743.100  | 5708.400  | 5678.900  | 5638.000  | 5650.400  | 5677.700  | 5716.900   | 5738.400   | 5798.100   |
| 32 | 5654.800 | 5661.100  | 5625.700  | 5593.600  | 5544.000  | 5555.700  | 5584.200  | 5623.900   | 5650.400   | 5711.300   |
| 33 | 5573.600 | 5577.900  | 5539.900  | 5504.000  | 5452.500  | 5459.200  | 5487.000  | 5531.000   | 5555.100   | 5625.800   |
| 34 | 5490.600 | 5494.700  | 5454.100  | 5411.900  | 5356.000  | 5362.000  | 5389.700  | 5433.100   | 5464.500   | 5537.700   |
| 35 | 5407.000 | 5410.300  | 5365.800  | 5323.400  | 5262.600  | 5263.000  | 5290.700  | 5337.600   | 5371.000   | 5449.100   |
| 36 | 5325.200 | 5325.200  | 5278.100  | 5227.000  | 5163.000  | 5162.100  | 5189.700  | 5236.700   | 5272.500   | 5359.200   |
| 37 | 5236.700 | 5239.500  | 5188.000  | 5134.900  | 5065.300  | 5058.800  | 5084.500  | 5135.700   | 5175.800   | 5267.400   |
| 38 | 5149.000 | 5149.000  | 5097.500  | 5038.500  | 4964.800  | 4955.400  | 4981.900  | 5032.200   | 5073.200   | 5172.600   |
| 39 | 5059.800 | 5063.200  | 5007.300  | 4943.900  | 4863.900  | 4849.600  | 4874.900  | 4929.300   | 4975.200   | 5080.200   |
| 40 | 4971.900 | 4970.800  | 4914.700  | 4845.600  | 4760.100  | 4743.700  | 4767.100  | 4820.900   | 4871.200   | 4983.000   |
| 41 | 4882.700 | 4881.700  | 4821.500  | 4747.000  | 4658.000  | 4635.700  | 4658.700  | 4717.100   | 4769.500   | 4890.200   |
| 42 | 4790.500 | 4788.000  | 4725.800  | 4648.100  | 4550.400  | 4528.000  | 4546.700  | 4604.400   | 4663.600   | 4789.200   |
| 43 | 4701.300 | 4698.000  | 4632.500  | 4549.200  | 4445.200  | 4416.600  | 4435.800  | 4499.600   | 4560.600   | 4695.600   |
| 44 | 4609.700 | 4605.000  | 4534.400  | 4449.100  | 4335.800  | 4306.500  | 4322.500  | 4385.000   | 4451.600   | 4595.200   |
| 45 | 4518.100 | 4513.700  | 4441.100  | 4351.400  | 4230.600  | 4195.600  | 4211.600  | 4277.800   | 4348.000   | 4499.100   |
| 46 | 4425.200 | 4420.100  | 4340.500  | 4249.400  | 4120.500  | 4073.700  | 4097.100  | 4166.200   | 4237.200   | 4399.300   |
| 47 | 4331.800 | 4326.400  | 4245.300  | 4151.700  | 4015.900  | 3951.900  | 3983.100  | 4043.200   | 4131.100   | 4299.500   |
| 48 | 4238.900 | 4232.700  | 4147.200  | 4040.300  | 3905.300  | 3839.500  | 3866.700  | 3920.200   | 4022.100   | 4200.900   |
| 49 | 4146.600 | 4140.800  | 4051.500  | 3929.100  | 3800.700  | 3727.900  | 3755.200  | 3805.800   | 3914.200   | 4091.400   |
| 50 | 4053.400 | 4036.200  | 3954.200  | 3828.700  | 3690.300  | 3615.600  | 3638.500  | 3696.000   | 3809.700   | 3982.100   |
| 51 | 3961.800 | 3931.700  | 3857.200  | 3724.500  | 3586.900  | 3503.800  | 3525.100  | 3579.700   | 3699.500   | 3880.000   |
| 52 | 3865.300 | 3837.100  | 3758.400  | 3626.500  | 3476.300  | 3390.700  | 3408.700  | 3468.800   | 3594.000   | 3780.400   |
| 53 | 3772.400 | 3742.500  | 3662.700  | 3521.800  | 3372.900  | 3280.300  | 3296.600  | 3356.500   | 3485.600   | 3677.900   |

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**CANDELA TABULATION - (Cont.)**

|     |          |          |          |          |          |          |          |          |          |          |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 54  | 3675.900 | 3650.400 | 3565.800 | 3425.200 | 3269.000 | 3168.200 | 3181.400 | 3248.500 | 3383.300 | 3581.400 |
| 55  | 3580.600 | 3551.100 | 3464.500 | 3322.400 | 3160.200 | 3057.900 | 3067.400 | 3132.900 | 3274.900 | 3476.800 |
| 56  | 3482.200 | 3455.800 | 3372.400 | 3221.700 | 3060.500 | 2946.900 | 2953.500 | 3024.500 | 3171.900 | 3377.800 |
| 57  | 3385.000 | 3358.000 | 3267.600 | 3122.100 | 2951.700 | 2838.600 | 2840.100 | 2912.000 | 3066.600 | 3277.800 |
| 58  | 3286.600 | 3257.900 | 3171.200 | 3020.800 | 2848.300 | 2729.800 | 2731.700 | 2804.800 | 2963.700 | 3175.300 |
| 59  | 3185.800 | 3162.800 | 3074.800 | 2922.600 | 2751.800 | 2622.800 | 2617.800 | 2695.400 | 2860.800 | 3077.700 |
| 60  | 3086.800 | 3058.800 | 2971.800 | 2820.800 | 2644.900 | 2514.200 | 2513.000 | 2588.200 | 2758.500 | 2974.100 |
| 61  | 2985.000 | 2962.300 | 2876.200 | 2722.300 | 2547.300 | 2409.800 | 2397.700 | 2478.900 | 2655.900 | 2877.500 |
| 62  | 2886.000 | 2858.600 | 2775.000 | 2624.700 | 2445.300 | 2304.400 | 2291.000 | 2376.300 | 2554.900 | 2776.600 |
| 63  | 2784.500 | 2762.000 | 2677.400 | 2525.600 | 2347.500 | 2201.500 | 2187.600 | 2269.000 | 2455.100 | 2679.500 |
| 64  | 2682.400 | 2659.600 | 2574.400 | 2427.600 | 2246.100 | 2100.200 | 2076.800 | 2168.800 | 2353.400 | 2580.100 |
| 65  | 2579.100 | 2557.800 | 2476.100 | 2327.100 | 2148.900 | 1998.200 | 1976.300 | 2062.600 | 2256.700 | 2479.600 |
| 66  | 2475.800 | 2455.800 | 2372.500 | 2231.000 | 2049.400 | 1900.500 | 1866.800 | 1965.000 | 2154.500 | 2383.500 |
| 67  | 2373.100 | 2353.400 | 2275.400 | 2132.800 | 1956.500 | 1803.100 | 1764.700 | 1866.700 | 2060.800 | 2285.100 |
| 68  | 2269.200 | 2253.700 | 2172.400 | 2033.700 | 1857.600 | 1707.800 | 1662.700 | 1764.300 | 1962.900 | 2186.500 |
| 69  | 2165.900 | 2147.600 | 2073.500 | 1938.700 | 1758.700 | 1612.700 | 1558.300 | 1672.200 | 1866.200 | 2090.700 |
| 70  | 2061.300 | 2049.100 | 1969.200 | 1837.900 | 1659.900 | 1519.000 | 1463.300 | 1574.000 | 1767.600 | 1991.400 |
| 71  | 1957.400 | 1944.100 | 1869.100 | 1746.100 | 1570.700 | 1428.200 | 1365.500 | 1483.500 | 1669.000 | 1899.000 |
| 72  | 1852.500 | 1844.000 | 1767.000 | 1649.300 | 1476.700 | 1339.000 | 1271.900 | 1392.100 | 1579.700 | 1799.200 |
| 73  | 1746.100 | 1744.400 | 1664.900 | 1554.100 | 1388.500 | 1248.200 | 1177.700 | 1299.000 | 1486.900 | 1706.200 |
| 74  | 1639.700 | 1638.600 | 1569.400 | 1460.900 | 1296.000 | 1161.700 | 1086.100 | 1212.500 | 1397.300 | 1609.000 |
| 75  | 1539.900 | 1545.400 | 1469.800 | 1368.700 | 1211.600 | 1075.400 | 996.430  | 1123.400 | 1307.400 | 1518.500 |
| 76  | 1441.100 | 1444.900 | 1379.800 | 1278.900 | 1122.900 | 992.210  | 908.290  | 1040.800 | 1222.700 | 1425.300 |
| 77  | 1343.900 | 1347.000 | 1283.300 | 1189.100 | 1041.900 | 909.790  | 823.860  | 953.930  | 1133.500 | 1334.000 |
| 78  | 1248.200 | 1255.600 | 1195.700 | 1102.000 | 957.260  | 830.210  | 739.660  | 874.300  | 1052.500 | 1243.900 |
| 79  | 1156.900 | 1159.300 | 1104.700 | 1019.100 | 879.180  | 751.460  | 660.220  | 793.300  | 966.940  | 1157.700 |
| 80  | 1067.800 | 1075.100 | 1020.700 | 937.100  | 800.170  | 677.560  | 582.910  | 716.960  | 890.570  | 1071.300 |
| 81  | 983.920  | 988.590  | 940.460  | 861.590  | 728.840  | 605.380  | 509.710  | 643.860  | 811.490  | 990.820  |
| 82  | 905.840  | 910.560  | 862.630  | 786.010  | 658.200  | 538.260  | 440.970  | 572.420  | 739.360  | 910.660  |
| 83  | 831.750  | 835.420  | 791.960  | 717.960  | 593.090  | 473.990  | 375.470  | 506.640  | 667.690  | 833.720  |
| 84  | 766.780  | 769.410  | 723.980  | 653.780  | 533.070  | 414.490  | 316.570  | 444.090  | 603.450  | 763.880  |
| 85  | 708.170  | 709.550  | 667.820  | 595.510  | 478.180  | 363.270  | 263.580  | 389.020  | 541.320  | 693.960  |
| 86  | 659.200  | 656.830  | 615.350  | 545.970  | 430.840  | 312.130  | 217.540  | 334.020  | 487.240  | 635.270  |
| 87  | 617.580  | 614.260  | 573.850  | 501.470  | 389.130  | 272.220  | 182.720  | 290.020  | 437.140  | 577.850  |
| 88  | 587.870  | 579.540  | 538.350  | 467.420  | 355.580  | 237.760  | 148.040  | 250.960  | 394.450  | 531.290  |
| 89  | 566.670  | 557.530  | 516.270  | 440.750  | 330.940  | 212.490  | 125.950  | 220.310  | 359.140  | 489.230  |
| 90  | 547.170  | 537.140  | 496.470  | 423.800  | 314.620  | 195.820  | 114.850  | 196.750  | 331.020  | 455.330  |
| 91  | 529.140  | 519.170  | 478.840  | 406.920  | 300.470  | 184.110  | 110.470  | 183.620  | 313.900  | 433.820  |
| 92  | 512.660  | 501.950  | 462.020  | 390.710  | 286.350  | 172.600  | 106.510  | 171.240  | 298.780  | 415.410  |
| 93  | 497.460  | 486.800  | 446.560  | 375.610  | 272.750  | 161.300  | 102.680  | 159.410  | 284.070  | 398.620  |
| 94  | 483.670  | 472.000  | 431.770  | 360.510  | 259.770  | 150.300  | 98.996   | 147.580  | 270.110  | 382.500  |
| 95  | 470.790  | 458.940  | 418.370  | 346.860  | 247.290  | 139.450  | 95.464   | 136.340  | 256.400  | 366.830  |
| 96  | 458.820  | 446.350  | 405.140  | 333.510  | 235.190  | 128.920  | 92.071   | 126.050  | 243.050  | 351.160  |
| 97  | 447.590  | 434.710  | 392.980  | 320.930  | 222.550  | 119.430  | 88.818   | 117.300  | 230.250  | 336.850  |
| 98  | 437.090  | 423.960  | 381.030  | 308.810  | 211.180  | 111.030  | 85.701   | 110.290  | 217.710  | 323.600  |
| 99  | 427.010  | 413.330  | 369.890  | 296.850  | 199.290  | 104.060  | 82.598   | 103.920  | 205.450  | 310.140  |
| 100 | 417.260  | 403.220  | 358.560  | 284.800  | 187.410  | 97.504   | 79.482   | 98.169   | 193.380  | 297.590  |
| 101 | 407.450  | 392.930  | 347.620  | 273.580  | 176.320  | 91.716   | 76.415   | 92.748   | 181.300  | 285.070  |
| 102 | 397.900  | 383.360  | 336.690  | 261.930  | 165.310  | 86.170   | 73.465   | 87.319   | 169.350  | 273.100  |
| 103 | 388.430  | 373.990  | 326.490  | 251.600  | 154.500  | 81.169   | 70.521   | 81.813   | 158.290  | 261.250  |
| 104 | 378.690  | 363.510  | 315.630  | 240.920  | 143.190  | 75.922   | 67.608   | 76.492   | 147.050  | 249.750  |
| 105 | 369.280  | 353.020  | 305.770  | 230.410  | 132.780  | 70.918   | 64.793   | 71.444   | 136.720  | 238.750  |
| 106 | 359.490  | 342.760  | 295.080  | 220.370  | 122.510  | 65.982   | 61.949   | 66.947   | 126.950  | 228.000  |
| 107 | 349.820  | 333.370  | 284.950  | 210.060  | 114.290  | 61.775   | 59.280   | 62.699   | 118.130  | 215.940  |
| 108 | 339.810  | 323.440  | 274.560  | 199.310  | 106.600  | 58.084   | 56.547   | 59.074   | 110.740  | 203.520  |
| 109 | 329.790  | 313.070  | 264.300  | 187.510  | 100.240  | 54.999   | 54.152   | 55.636   | 104.420  | 191.520  |

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**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |        |        |        |        |        |         |
|-----|---------|---------|---------|---------|--------|--------|--------|--------|--------|---------|
| 110 | 319.520 | 303.210 | 254.450 | 176.450 | 94.688 | 52.801 | 52.387 | 53.143 | 98.684 | 179.220 |
| 111 | 309.430 | 292.800 | 242.530 | 165.080 | 89.582 | 50.686 | 51.134 | 51.019 | 93.615 | 169.000 |
| 112 | 299.090 | 282.900 | 231.520 | 155.610 | 85.192 | 49.001 | 49.923 | 49.244 | 88.822 | 159.840 |
| 113 | 288.670 | 271.880 | 219.790 | 146.960 | 80.604 | 47.695 | 48.822 | 47.735 | 84.317 | 151.680 |
| 114 | 278.190 | 261.140 | 208.110 | 139.010 | 76.620 | 46.596 | 47.740 | 46.568 | 80.046 | 144.580 |
| 115 | 268.110 | 250.020 | 197.280 | 131.550 | 72.861 | 45.516 | 46.713 | 45.518 | 75.742 | 138.300 |
| 116 | 258.420 | 239.830 | 186.450 | 125.550 | 69.008 | 44.602 | 45.736 | 44.559 | 71.760 | 132.690 |
| 117 | 249.170 | 229.550 | 177.640 | 119.820 | 65.570 | 43.737 | 44.816 | 43.663 | 67.937 | 126.970 |
| 118 | 239.900 | 219.290 | 169.150 | 114.370 | 61.921 | 42.978 | 44.003 | 42.877 | 64.416 | 121.480 |
| 119 | 230.760 | 210.350 | 161.080 | 108.910 | 58.857 | 42.482 | 43.283 | 42.127 | 61.099 | 115.820 |
| 120 | 221.680 | 201.760 | 153.550 | 103.890 | 55.976 | 42.070 | 42.631 | 41.459 | 58.118 | 110.610 |
| 121 | 212.740 | 193.410 | 147.130 | 98.787  | 53.413 | 41.512 | 41.986 | 40.808 | 55.342 | 105.180 |
| 122 | 203.870 | 185.160 | 140.820 | 93.844  | 50.915 | 40.977 | 41.383 | 40.218 | 52.805 | 99.880  |
| 123 | 194.870 | 177.270 | 134.840 | 88.946  | 48.762 | 40.413 | 40.811 | 39.647 | 50.485 | 94.647  |
| 124 | 185.870 | 169.690 | 128.860 | 84.242  | 46.663 | 39.860 | 40.246 | 39.093 | 48.373 | 89.490  |
| 125 | 177.380 | 162.160 | 122.930 | 79.564  | 44.898 | 39.295 | 39.674 | 38.522 | 46.318 | 84.589  |
| 126 | 169.050 | 154.780 | 117.140 | 75.035  | 43.258 | 38.755 | 39.079 | 37.994 | 44.295 | 79.729  |
| 127 | 160.950 | 147.240 | 111.360 | 70.860  | 41.777 | 38.196 | 38.470 | 37.483 | 42.381 | 75.363  |
| 128 | 152.910 | 140.020 | 105.690 | 66.910  | 40.447 | 37.663 | 37.870 | 36.986 | 40.637 | 71.076  |
| 129 | 145.210 | 132.830 | 100.330 | 63.495  | 39.461 | 37.178 | 37.328 | 36.549 | 39.243 | 67.356  |
| 130 | 137.570 | 126.010 | 94.967  | 60.170  | 38.715 | 36.712 | 36.800 | 36.083 | 38.114 | 63.730  |
| 131 | 130.140 | 119.250 | 89.927  | 57.364  | 38.173 | 36.319 | 36.320 | 35.659 | 37.341 | 60.364  |
| 132 | 122.790 | 112.380 | 84.854  | 54.847  | 37.790 | 35.958 | 35.859 | 35.254 | 36.876 | 57.336  |
| 133 | 115.660 | 106.230 | 80.096  | 52.694  | 37.555 | 35.627 | 35.458 | 34.892 | 36.591 | 54.639  |
| 134 | 108.810 | 99.944  | 75.723  | 50.555  | 37.304 | 35.332 | 35.089 | 34.573 | 36.375 | 52.235  |
| 135 | 102.320 | 94.118  | 71.609  | 48.512  | 37.046 | 35.075 | 34.775 | 34.290 | 36.191 | 49.893  |
| 136 | 96.024  | 88.497  | 67.897  | 46.485  | 36.849 | 34.891 | 34.498 | 34.069 | 35.982 | 47.686  |
| 137 | 90.144  | 83.332  | 64.512  | 44.811  | 36.695 | 34.756 | 34.252 | 33.861 | 35.821 | 45.523  |
| 138 | 84.697  | 78.488  | 61.481  | 43.784  | 36.633 | 34.640 | 34.049 | 33.695 | 35.735 | 43.546  |
| 139 | 79.779  | 74.200  | 58.746  | 43.129  | 36.596 | 34.616 | 33.907 | 33.579 | 35.715 | 41.933  |
| 140 | 75.248  | 70.394  | 56.051  | 42.646  | 36.504 | 34.610 | 33.827 | 33.567 | 35.703 | 40.881  |
| 141 | 71.329  | 66.930  | 53.639  | 42.291  | 36.267 | 34.660 | 33.796 | 33.574 | 35.703 | 40.379  |
| 142 | 67.792  | 63.861  | 51.437  | 41.997  | 36.131 | 34.721 | 33.795 | 33.605 | 35.733 | 40.177  |
| 143 | 64.572  | 60.863  | 49.637  | 41.740  | 36.250 | 34.808 | 33.801 | 33.666 | 35.788 | 40.061  |
| 144 | 61.435  | 58.075  | 48.599  | 41.506  | 36.470 | 34.967 | 33.880 | 33.783 | 35.874 | 39.981  |
| 145 | 58.474  | 55.402  | 47.957  | 41.194  | 36.545 | 35.158 | 34.063 | 33.912 | 35.960 | 39.968  |
| 146 | 55.786  | 53.354  | 47.550  | 40.937  | 36.655 | 35.348 | 34.254 | 34.060 | 36.119 | 39.954  |
| 147 | 53.928  | 52.128  | 47.182  | 40.772  | 36.808 | 35.557 | 34.450 | 34.208 | 36.322 | 39.941  |
| 148 | 52.731  | 51.316  | 46.796  | 40.662  | 36.980 | 35.791 | 34.653 | 34.386 | 36.543 | 39.928  |
| 149 | 51.903  | 50.650  | 46.362  | 40.533  | 37.176 | 36.074 | 34.880 | 34.602 | 36.716 | 39.914  |
| 150 | 51.230  | 50.046  | 45.915  | 40.392  | 37.360 | 36.393 | 35.181 | 34.860 | 36.918 | 39.914  |
| 151 | 50.669  | 49.538  | 45.457  | 40.375  | 37.544 | 36.693 | 35.517 | 35.143 | 37.096 | 39.927  |
| 152 | 50.138  | 49.044  | 45.045  | 40.358  | 37.722 | 36.964 | 35.861 | 35.407 | 37.269 | 39.939  |
| 153 | 49.625  | 48.603  | 44.653  | 40.341  | 37.936 | 37.271 | 36.187 | 35.659 | 37.453 | 39.951  |
| 154 | 49.143  | 48.158  | 44.309  | 40.324  | 38.145 | 37.583 | 36.525 | 35.923 | 37.619 | 39.982  |
| 155 | 48.679  | 47.743  | 44.009  | 40.307  | 38.372 | 37.878 | 36.851 | 36.175 | 37.773 | 40.019  |
| 156 | 48.252  | 47.357  | 43.745  | 40.301  | 38.569 | 38.166 | 37.158 | 36.408 | 37.927 | 40.062  |
| 157 | 47.837  | 46.972  | 43.481  | 40.314  | 38.741 | 38.424 | 37.441 | 36.629 | 38.056 | 40.099  |
| 158 | 47.500  | 46.595  | 43.278  | 40.351  | 38.986 | 38.683 | 37.785 | 36.845 | 38.234 | 40.137  |
| 159 | 47.213  | 46.399  | 43.149  | 40.461  | 39.255 | 39.014 | 38.104 | 37.127 | 38.406 | 40.157  |
| 160 | 46.920  | 46.209  | 43.063  | 40.553  | 39.477 | 39.265 | 38.381 | 37.348 | 38.524 | 40.177  |
| 161 | 46.657  | 46.007  | 42.953  | 40.583  | 39.680 | 39.492 | 38.640 | 37.557 | 38.616 | 40.197  |
| 162 | 46.414  | 45.794  | 42.885  | 40.627  | 39.888 | 39.694 | 38.879 | 37.754 | 38.696 | 40.218  |
| 163 | 46.200  | 45.623  | 42.860  | 40.768  | 40.108 | 39.866 | 39.106 | 37.957 | 38.794 | 40.238  |
| 164 | 46.028  | 45.489  | 42.848  | 40.891  | 40.323 | 40.038 | 39.334 | 38.210 | 38.880 | 40.258  |
| 165 | 45.894  | 45.367  | 42.817  | 40.989  | 40.514 | 40.191 | 39.537 | 38.467 | 38.954 | 40.234  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 166 | 45.778 | 45.275 | 42.799 | 41.105 | 40.698 | 40.301 | 39.721 | 38.713 | 39.022 | 40.203 |
| 167 | 45.668 | 45.153 | 42.792 | 41.222 | 40.803 | 40.400 | 39.881 | 38.952 | 39.065 | 40.147 |
| 168 | 45.606 | 45.086 | 42.780 | 41.356 | 40.926 | 40.504 | 40.059 | 39.186 | 39.127 | 40.098 |
| 169 | 45.551 | 45.080 | 42.786 | 41.460 | 40.988 | 40.522 | 40.189 | 39.401 | 39.170 | 40.061 |
| 170 | 45.520 | 45.006 | 42.786 | 41.497 | 41.055 | 40.540 | 40.294 | 39.591 | 39.207 | 40.012 |
| 171 | 45.508 | 44.902 | 42.774 | 41.497 | 41.062 | 40.558 | 40.398 | 39.775 | 39.268 | 39.957 |
| 172 | 45.447 | 44.748 | 42.677 | 41.490 | 41.068 | 40.577 | 40.394 | 39.922 | 39.415 | 39.883 |
| 173 | 45.290 | 44.521 | 42.507 | 41.477 | 40.965 | 40.595 | 40.391 | 40.014 | 39.574 | 39.835 |
| 174 | 45.041 | 44.209 | 42.311 | 41.323 | 40.861 | 40.546 | 40.387 | 40.082 | 39.740 | 39.879 |
| 175 | 44.701 | 43.841 | 42.072 | 41.170 | 40.751 | 40.527 | 40.383 | 40.112 | 39.894 | 40.052 |
| 176 | 44.214 | 43.382 | 41.785 | 40.973 | 40.634 | 40.460 | 40.379 | 40.112 | 40.048 | 40.279 |
| 177 | 43.684 | 42.900 | 41.503 | 40.772 | 40.518 | 40.398 | 40.376 | 40.112 | 40.183 | 40.481 |
| 178 | 43.177 | 42.399 | 41.221 | 40.594 | 40.395 | 40.275 | 40.284 | 40.099 | 40.234 | 40.627 |
| 179 | 42.749 | 42.002 | 41.030 | 40.472 | 40.278 | 40.146 | 40.210 | 40.038 | 40.234 | 40.633 |
| 180 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 |

**Vert. Angles**      **Horizontal Angles**

|    | <u>150</u> | <u>165</u> | <u>180</u> | <u>195</u> | <u>210</u> | <u>225</u> | <u>240</u> | <u>255</u> | <u>270</u> | <u>285</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0  | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   | 7172.500   |
| 1  | 7175.600   | 7174.400   | 7175.500   | 7174.400   | 7174.900   | 7173.800   | 7173.100   | 7171.900   | 7171.200   | 7169.400   |
| 2  | 7174.400   | 7173.700   | 7174.900   | 7173.200   | 7173.700   | 7171.900   | 7170.600   | 7167.000   | 7165.600   | 7163.900   |
| 3  | 7168.900   | 7169.900   | 7171.200   | 7168.300   | 7168.700   | 7166.400   | 7164.400   | 7159.600   | 7158.200   | 7154.600   |
| 4  | 7159.600   | 7161.200   | 7163.100   | 7159.700   | 7160.000   | 7157.200   | 7155.000   | 7149.700   | 7147.000   | 7141.600   |
| 5  | 7147.300   | 7148.800   | 7150.800   | 7146.800   | 7147.000   | 7143.600   | 7142.600   | 7135.600   | 7132.700   | 7125.000   |
| 6  | 7131.200   | 7132.600   | 7134.700   | 7129.000   | 7130.900   | 7127.600   | 7125.900   | 7119.500   | 7114.100   | 7106.400   |
| 7  | 7112.000   | 7112.800   | 7115.600   | 7111.100   | 7110.500   | 7107.200   | 7107.300   | 7099.100   | 7094.200   | 7083.500   |
| 8  | 7088.500   | 7090.500   | 7093.500   | 7087.100   | 7089.500   | 7084.400   | 7084.400   | 7076.200   | 7068.900   | 7058.800   |
| 9  | 7064.400   | 7066.900   | 7068.900   | 7063.100   | 7063.500   | 7057.800   | 7059.000   | 7048.400   | 7042.800   | 7029.700   |
| 10 | 7035.300   | 7037.800   | 7041.800   | 7032.900   | 7036.300   | 7028.200   | 7028.700   | 7019.300   | 7011.200   | 6997.500   |
| 11 | 7005.500   | 7009.200   | 7011.700   | 7003.400   | 7004.200   | 6996.100   | 6997.100   | 6986.600   | 6979.600   | 6962.800   |
| 12 | 6970.900   | 6974.500   | 6979.000   | 6969.500   | 6971.400   | 6960.300   | 6960.600   | 6949.500   | 6941.700   | 6923.800   |
| 13 | 6933.700   | 6938.500   | 6939.600   | 6931.900   | 6933.100   | 6923.800   | 6921.600   | 6909.900   | 6900.800   | 6883.600   |
| 14 | 6893.400   | 6897.500   | 6900.200   | 6890.100   | 6893.500   | 6881.200   | 6878.300   | 6866.000   | 6858.100   | 6836.500   |
| 15 | 6849.400   | 6854.100   | 6856.600   | 6846.300   | 6849.100   | 6839.200   | 6834.900   | 6820.800   | 6812.200   | 6790.700   |
| 16 | 6803.100   | 6808.200   | 6813.500   | 6803.300   | 6803.300   | 6790.500   | 6787.200   | 6772.100   | 6763.200   | 6738.200   |
| 17 | 6754.700   | 6762.900   | 6767.300   | 6755.300   | 6753.900   | 6742.300   | 6734.600   | 6720.100   | 6709.900   | 6685.600   |
| 18 | 6703.300   | 6714.000   | 6719.300   | 6709.000   | 6703.300   | 6685.500   | 6682.000   | 6664.500   | 6654.800   | 6626.800   |
| 19 | 6650.600   | 6663.900   | 6669.000   | 6655.500   | 6650.900   | 6631.700   | 6625.800   | 6607.000   | 6596.100   | 6564.200   |
| 20 | 6595.500   | 6610.500   | 6616.700   | 6604.900   | 6597.100   | 6572.400   | 6566.400   | 6545.700   | 6533.500   | 6506.000   |
| 21 | 6538.500   | 6556.600   | 6562.600   | 6545.800   | 6539.700   | 6512.500   | 6503.900   | 6480.800   | 6469.000   | 6435.400   |
| 22 | 6479.000   | 6497.700   | 6504.800   | 6490.300   | 6479.100   | 6449.500   | 6438.300   | 6412.700   | 6400.900   | 6366.600   |
| 23 | 6416.400   | 6437.500   | 6445.100   | 6426.300   | 6416.100   | 6384.000   | 6370.200   | 6344.000   | 6330.300   | 6297.300   |
| 24 | 6350.700   | 6376.100   | 6384.200   | 6366.500   | 6351.900   | 6316.000   | 6298.500   | 6271.100   | 6256.500   | 6219.300   |
| 25 | 6283.700   | 6311.600   | 6322.700   | 6303.000   | 6285.800   | 6246.200   | 6225.400   | 6196.200   | 6180.900   | 6146.100   |
| 26 | 6217.400   | 6249.000   | 6259.900   | 6239.000   | 6216.600   | 6173.900   | 6149.300   | 6118.800   | 6101.600   | 6062.000   |
| 27 | 6145.100   | 6180.200   | 6194.700   | 6171.400   | 6146.800   | 6098.100   | 6070.100   | 6036.200   | 6019.200   | 5981.600   |
| 28 | 6075.000   | 6112.500   | 6126.500   | 6101.100   | 6074.500   | 6021.400   | 5988.500   | 5955.700   | 5935.600   | 5894.300   |
| 29 | 5998.800   | 6040.600   | 6058.800   | 6034.500   | 6001.700   | 5942.300   | 5908.600   | 5869.800   | 5849.500   | 5808.200   |
| 30 | 5923.800   | 5970.800   | 5987.600   | 5961.300   | 5929.000   | 5861.400   | 5821.000   | 5781.300   | 5760.500   | 5716.600   |
| 31 | 5846.900   | 5896.400   | 5916.900   | 5889.200   | 5851.100   | 5778.000   | 5735.000   | 5689.700   | 5669.400   | 5623.000   |
| 32 | 5767.000   | 5822.600   | 5843.100   | 5811.500   | 5770.300   | 5693.900   | 5645.300   | 5596.900   | 5574.100   | 5527.600   |
| 33 | 5686.400   | 5744.500   | 5768.000   | 5738.800   | 5691.800   | 5607.400   | 5553.700   | 5502.200   | 5479.300   | 5431.600   |
| 34 | 5603.300   | 5668.800   | 5692.300   | 5658.700   | 5609.000   | 5519.600   | 5462.100   | 5406.900   | 5380.200   | 5333.700   |
| 35 | 5522.100   | 5586.400   | 5612.400   | 5580.400   | 5526.300   | 5430.000   | 5363.800   | 5308.000   | 5280.400   | 5232.800   |
| 36 | 5435.900   | 5509.400   | 5533.700   | 5496.700   | 5441.700   | 5339.800   | 5270.300   | 5207.100   | 5178.200   | 5128.700   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|    |          |          |          |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 37 | 5351.600 | 5427.000 | 5451.900 | 5417.100 | 5356.400 | 5246.500 | 5170.100 | 5104.400 | 5074.200 | 5027.700 |
| 38 | 5263.200 | 5342.100 | 5372.500 | 5332.400 | 5270.600 | 5155.200 | 5073.600 | 5001.900 | 4970.700 | 4921.500 |
| 39 | 5176.400 | 5261.400 | 5287.100 | 5251.600 | 5183.500 | 5060.100 | 4970.300 | 4896.100 | 4863.500 | 4818.000 |
| 40 | 5086.500 | 5170.900 | 5205.800 | 5161.100 | 5093.300 | 4966.100 | 4870.600 | 4788.500 | 4754.500 | 4705.900 |
| 41 | 4998.500 | 5088.100 | 5116.900 | 5076.000 | 5004.700 | 4870.900 | 4764.600 | 4682.600 | 4646.400 | 4601.800 |
| 42 | 4905.500 | 5001.200 | 5033.200 | 4990.300 | 4915.100 | 4773.300 | 4665.500 | 4570.700 | 4536.800 | 4487.300 |
| 43 | 4815.600 | 4910.100 | 4944.100 | 4899.800 | 4824.300 | 4679.900 | 4557.900 | 4463.600 | 4425.300 | 4381.200 |
| 44 | 4722.000 | 4823.300 | 4856.700 | 4812.200 | 4730.500 | 4579.200 | 4454.000 | 4351.000 | 4312.600 | 4265.500 |
| 45 | 4630.800 | 4729.700 | 4765.100 | 4716.800 | 4637.800 | 4482.200 | 4344.500 | 4240.200 | 4197.900 | 4153.900 |
| 46 | 4531.700 | 4642.200 | 4677.700 | 4630.400 | 4543.300 | 4382.700 | 4240.700 | 4128.200 | 4074.300 | 4042.400 |
| 47 | 4439.300 | 4546.200 | 4584.300 | 4537.400 | 4449.500 | 4284.400 | 4140.100 | 4016.800 | 3950.900 | 3926.000 |
| 48 | 4341.400 | 4456.200 | 4495.000 | 4446.800 | 4355.600 | 4184.900 | 4010.500 | 3903.000 | 3839.000 | 3820.600 |
| 49 | 4247.100 | 4360.800 | 4398.600 | 4350.700 | 4258.100 | 4086.000 | 3898.900 | 3790.300 | 3721.000 | 3701.100 |
| 50 | 4150.000 | 4267.800 | 4308.700 | 4258.500 | 4164.600 | 3984.900 | 3793.800 | 3678.600 | 3609.300 | 3590.400 |
| 51 | 4053.900 | 4174.100 | 4213.500 | 4161.800 | 4057.400 | 3884.800 | 3687.300 | 3566.000 | 3493.100 | 3477.700 |
| 52 | 3957.800 | 4068.600 | 4122.300 | 4070.500 | 3950.400 | 3784.000 | 3581.200 | 3454.000 | 3379.600 | 3364.900 |
| 53 | 3856.800 | 3963.200 | 4016.500 | 3973.200 | 3853.100 | 3682.700 | 3477.300 | 3341.400 | 3265.600 | 3254.000 |
| 54 | 3763.100 | 3868.500 | 3910.900 | 3877.600 | 3755.300 | 3581.300 | 3370.800 | 3228.100 | 3150.600 | 3138.200 |
| 55 | 3662.700 | 3772.300 | 3817.100 | 3781.500 | 3658.700 | 3479.900 | 3267.200 | 3116.100 | 3038.100 | 3031.600 |
| 56 | 3562.900 | 3676.100 | 3721.500 | 3686.600 | 3561.700 | 3381.000 | 3164.000 | 3005.900 | 2925.800 | 2918.300 |
| 57 | 3471.000 | 3581.500 | 3625.300 | 3591.100 | 3463.300 | 3279.700 | 3060.600 | 2894.500 | 2812.900 | 2811.000 |
| 58 | 3368.900 | 3483.900 | 3528.500 | 3491.900 | 3364.500 | 3178.300 | 2955.700 | 2785.000 | 2699.900 | 2700.800 |
| 59 | 3272.700 | 3388.400 | 3431.700 | 3394.500 | 3267.400 | 3076.900 | 2851.800 | 2675.400 | 2590.900 | 2589.900 |
| 60 | 3172.900 | 3288.100 | 3332.100 | 3296.500 | 3168.600 | 2977.400 | 2751.300 | 2568.400 | 2479.200 | 2485.100 |
| 61 | 3075.200 | 3190.800 | 3234.400 | 3195.700 | 3070.100 | 2876.300 | 2648.100 | 2461.600 | 2372.400 | 2375.800 |
| 62 | 2976.600 | 3091.000 | 3133.300 | 3095.900 | 2971.000 | 2777.400 | 2549.200 | 2355.800 | 2261.700 | 2273.500 |
| 63 | 2875.600 | 2991.500 | 3033.000 | 2994.800 | 2871.900 | 2677.300 | 2446.600 | 2249.900 | 2155.000 | 2165.200 |
| 64 | 2777.600 | 2891.800 | 2932.000 | 2892.500 | 2771.200 | 2577.100 | 2353.100 | 2147.200 | 2049.700 | 2066.600 |
| 65 | 2675.300 | 2789.100 | 2831.700 | 2792.000 | 2672.500 | 2478.200 | 2249.600 | 2045.100 | 1945.000 | 1961.900 |
| 66 | 2576.100 | 2689.500 | 2728.900 | 2690.400 | 2570.100 | 2379.300 | 2151.000 | 1945.400 | 1840.400 | 1864.600 |
| 67 | 2476.300 | 2587.700 | 2625.500 | 2585.600 | 2469.300 | 2279.200 | 2054.600 | 1845.200 | 1737.600 | 1762.500 |
| 68 | 2375.800 | 2485.800 | 2523.700 | 2483.300 | 2369.200 | 2180.900 | 1954.100 | 1744.900 | 1635.900 | 1660.400 |
| 69 | 2274.200 | 2382.500 | 2420.200 | 2381.000 | 2266.700 | 2082.600 | 1864.700 | 1644.600 | 1536.100 | 1565.300 |
| 70 | 2174.300 | 2279.500 | 2317.700 | 2276.200 | 2167.900 | 1984.400 | 1764.900 | 1550.000 | 1437.800 | 1471.200 |
| 71 | 2073.900 | 2178.900 | 2212.400 | 2173.900 | 2065.000 | 1885.500 | 1670.300 | 1456.800 | 1339.200 | 1380.900 |
| 72 | 1973.700 | 2077.100 | 2107.700 | 2071.300 | 1964.900 | 1785.100 | 1575.500 | 1364.000 | 1243.300 | 1286.900 |
| 73 | 1874.500 | 1973.500 | 2003.800 | 1967.700 | 1864.500 | 1684.700 | 1484.900 | 1273.800 | 1148.900 | 1200.500 |
| 74 | 1771.900 | 1872.800 | 1901.600 | 1863.600 | 1765.900 | 1589.300 | 1396.300 | 1185.100 | 1057.500 | 1110.100 |
| 75 | 1669.300 | 1770.400 | 1796.800 | 1757.900 | 1665.800 | 1495.000 | 1301.200 | 1097.900 | 967.150  | 1026.200 |
| 76 | 1572.800 | 1670.600 | 1695.200 | 1652.300 | 1569.500 | 1400.900 | 1215.900 | 1011.400 | 880.040  | 940.220  |
| 77 | 1476.700 | 1570.600 | 1592.300 | 1551.700 | 1471.200 | 1310.000 | 1126.000 | 928.240  | 792.270  | 858.340  |
| 78 | 1381.900 | 1472.900 | 1493.500 | 1453.900 | 1377.600 | 1220.600 | 1044.400 | 846.940  | 711.860  | 780.240  |
| 79 | 1289.800 | 1375.900 | 1396.700 | 1359.200 | 1284.300 | 1133.800 | 959.830  | 768.870  | 630.780  | 702.520  |
| 80 | 1198.800 | 1283.100 | 1300.900 | 1264.900 | 1193.500 | 1047.900 | 881.110  | 691.970  | 555.700  | 629.900  |
| 81 | 1112.700 | 1191.400 | 1207.800 | 1173.400 | 1106.900 | 966.600  | 804.480  | 620.050  | 483.870  | 558.940  |
| 82 | 1027.800 | 1103.400 | 1117.800 | 1084.500 | 1021.900 | 888.760  | 730.160  | 551.590  | 416.240  | 493.500  |
| 83 | 945.970  | 1018.500 | 1032.900 | 1001.900 | 941.460  | 814.570  | 664.800  | 488.290  | 357.560  | 433.170  |
| 84 | 870.350  | 937.510  | 951.550  | 922.380  | 865.070  | 744.890  | 599.650  | 429.550  | 299.030  | 379.280  |
| 85 | 797.280  | 863.830  | 875.690  | 847.520  | 793.330  | 680.140  | 541.190  | 376.870  | 251.940  | 331.160  |
| 86 | 733.480  | 793.500  | 806.330  | 781.030  | 731.380  | 622.860  | 488.960  | 331.360  | 211.900  | 290.540  |
| 87 | 673.200  | 732.700  | 743.320  | 719.770  | 672.510  | 571.670  | 444.150  | 292.080  | 180.980  | 257.500  |
| 88 | 621.810  | 677.020  | 689.370  | 668.160  | 624.660  | 528.710  | 406.980  | 261.370  | 158.650  | 233.450  |
| 89 | 577.680  | 631.480  | 642.960  | 624.050  | 581.890  | 494.850  | 382.570  | 241.060  | 148.440  | 218.950  |
| 90 | 541.480  | 592.300  | 605.200  | 590.220  | 553.070  | 471.260  | 358.250  | 227.210  | 143.010  | 206.470  |
| 91 | 518.030  | 567.340  | 580.500  | 566.370  | 530.110  | 451.370  | 341.460  | 213.280  | 137.980  | 193.700  |
| 92 | 498.010  | 546.210  | 559.030  | 545.800  | 510.730  | 433.190  | 326.080  | 199.950  | 132.780  | 180.930  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 93  | 479.230 | 526.650 | 539.750 | 525.790 | 490.650 | 415.220 | 309.630 | 185.590 | 127.810 | 168.210 |
| 94  | 461.940 | 508.640 | 521.490 | 507.600 | 472.640 | 397.990 | 294.270 | 172.380 | 122.410 | 155.620 |
| 95  | 445.580 | 492.190 | 504.840 | 490.730 | 455.380 | 381.490 | 279.110 | 159.910 | 117.370 | 144.070 |
| 96  | 430.320 | 476.690 | 489.330 | 474.890 | 439.600 | 365.940 | 264.370 | 148.270 | 112.280 | 134.090 |
| 97  | 415.680 | 462.330 | 475.090 | 460.330 | 424.350 | 350.610 | 250.200 | 138.430 | 107.360 | 125.380 |
| 98  | 401.980 | 449.030 | 461.570 | 446.520 | 409.430 | 335.940 | 235.740 | 129.620 | 102.580 | 117.780 |
| 99  | 388.960 | 436.700 | 449.210 | 433.380 | 395.730 | 321.820 | 222.370 | 121.460 | 97.867  | 110.480 |
| 100 | 376.620 | 424.580 | 437.190 | 421.320 | 382.640 | 307.840 | 209.010 | 114.020 | 93.370  | 103.710 |
| 101 | 364.360 | 413.340 | 426.230 | 409.600 | 369.250 | 294.600 | 196.540 | 106.940 | 88.947  | 97.185  |
| 102 | 352.630 | 402.230 | 415.020 | 398.150 | 355.870 | 281.420 | 182.630 | 99.988  | 84.610  | 90.462  |
| 103 | 341.310 | 391.930 | 404.530 | 387.170 | 344.020 | 268.520 | 170.180 | 93.080  | 80.421  | 83.798  |
| 104 | 330.130 | 381.230 | 393.990 | 376.120 | 331.850 | 255.690 | 157.210 | 86.257  | 76.391  | 78.226  |
| 105 | 319.220 | 370.450 | 383.910 | 365.610 | 320.420 | 243.660 | 145.890 | 80.100  | 72.443  | 73.163  |
| 106 | 308.410 | 359.680 | 373.880 | 355.000 | 308.520 | 230.460 | 134.780 | 74.426  | 68.738  | 68.404  |
| 107 | 297.900 | 349.600 | 362.870 | 344.360 | 297.280 | 216.960 | 124.970 | 69.215  | 65.108  | 63.963  |
| 108 | 287.330 | 339.540 | 351.870 | 333.520 | 285.620 | 203.380 | 115.830 | 64.245  | 61.643  | 59.463  |
| 109 | 276.830 | 328.970 | 342.040 | 323.010 | 274.880 | 190.240 | 107.920 | 59.612  | 58.200  | 55.463  |
| 110 | 264.920 | 318.980 | 331.340 | 312.370 | 262.000 | 177.110 | 100.150 | 55.171  | 54.839  | 51.864  |
| 111 | 252.800 | 308.640 | 320.450 | 301.730 | 248.890 | 166.640 | 93.066  | 50.762  | 51.490  | 48.475  |
| 112 | 240.400 | 297.530 | 310.030 | 289.950 | 235.910 | 157.130 | 86.775  | 46.365  | 48.202  | 45.069  |
| 113 | 228.610 | 285.560 | 299.240 | 278.300 | 223.500 | 148.560 | 81.642  | 42.316  | 44.844  | 42.091  |
| 114 | 216.480 | 274.030 | 289.070 | 266.580 | 211.400 | 141.040 | 76.865  | 39.013  | 41.262  | 39.792  |
| 115 | 205.760 | 262.760 | 278.400 | 255.530 | 199.880 | 134.420 | 71.902  | 36.873  | 38.227  | 38.298  |
| 116 | 196.440 | 252.210 | 268.540 | 244.420 | 190.190 | 128.000 | 67.154  | 34.840  | 36.319  | 36.798  |
| 117 | 187.140 | 240.830 | 258.810 | 233.610 | 180.980 | 121.780 | 62.636  | 32.880  | 34.690  | 35.096  |
| 118 | 178.980 | 232.240 | 249.640 | 224.700 | 172.790 | 115.710 | 58.564  | 31.760  | 33.002  | 33.460  |
| 119 | 171.350 | 223.530 | 239.930 | 215.810 | 164.940 | 109.670 | 54.721  | 30.947  | 31.430  | 32.081  |
| 120 | 164.340 | 215.360 | 230.490 | 207.120 | 157.390 | 103.780 | 51.276  | 30.215  | 29.987  | 31.093  |
| 121 | 157.440 | 207.180 | 220.840 | 198.430 | 150.580 | 97.926  | 47.991  | 29.606  | 29.465  | 30.378  |
| 122 | 150.850 | 198.890 | 211.680 | 189.680 | 144.100 | 92.270  | 45.133  | 28.944  | 28.976  | 29.750  |
| 123 | 144.410 | 191.210 | 202.570 | 181.610 | 137.570 | 86.737  | 42.502  | 28.640  | 28.146  | 29.202  |
| 124 | 138.150 | 183.320 | 193.070 | 173.560 | 131.080 | 81.357  | 40.007  | 28.059  | 27.294  | 28.966  |
| 125 | 132.020 | 175.740 | 184.340 | 165.470 | 124.670 | 76.082  | 37.833  | 27.536  | 26.644  | 28.586  |
| 126 | 125.910 | 167.900 | 175.270 | 157.480 | 118.160 | 71.191  | 35.541  | 27.081  | 26.110  | 28.168  |
| 127 | 119.830 | 160.400 | 166.770 | 149.480 | 112.050 | 66.589  | 33.479  | 26.633  | 25.616  | 27.647  |
| 128 | 113.890 | 152.740 | 158.180 | 141.970 | 105.770 | 62.409  | 31.449  | 26.216  | 25.392  | 27.126  |
| 129 | 108.110 | 145.400 | 149.590 | 134.200 | 99.767  | 58.391  | 29.533  | 25.847  | 25.465  | 26.591  |
| 130 | 102.400 | 137.990 | 141.430 | 126.750 | 93.900  | 54.653  | 28.105  | 25.461  | 25.506  | 26.117  |
| 131 | 96.976  | 130.970 | 133.180 | 119.430 | 88.275  | 51.222  | 27.295  | 25.080  | 25.341  | 25.723  |
| 132 | 91.544  | 123.830 | 125.400 | 112.360 | 82.894  | 48.122  | 26.867  | 24.748  | 25.259  | 25.354  |
| 133 | 86.386  | 117.140 | 117.480 | 105.410 | 77.411  | 45.353  | 26.567  | 24.429  | 25.001  | 25.064  |
| 134 | 81.425  | 110.420 | 110.040 | 98.672  | 72.498  | 42.781  | 26.365  | 24.176  | 24.738  | 24.867  |
| 135 | 76.734  | 104.150 | 102.750 | 92.279  | 67.681  | 40.376  | 26.193  | 24.028  | 24.560  | 24.755  |
| 136 | 72.424  | 97.940  | 95.870  | 86.005  | 63.272  | 38.124  | 26.017  | 23.923  | 24.425  | 24.718  |
| 137 | 68.337  | 91.952  | 89.217  | 80.173  | 59.099  | 36.007  | 26.023  | 23.837  | 24.309  | 24.717  |
| 138 | 64.648  | 86.376  | 82.912  | 74.583  | 55.457  | 34.013  | 26.061  | 23.763  | 24.253  | 24.754  |
| 139 | 61.444  | 81.095  | 76.985  | 69.400  | 52.104  | 32.415  | 26.159  | 23.732  | 24.162  | 24.882  |
| 140 | 58.423  | 76.204  | 71.391  | 64.556  | 49.135  | 31.293  | 26.283  | 23.744  | 24.150  | 24.981  |
| 141 | 55.603  | 71.797  | 66.422  | 60.337  | 46.373  | 30.996  | 26.443  | 23.988  | 24.171  | 25.146  |
| 142 | 52.828  | 67.835  | 61.762  | 56.541  | 43.686  | 30.982  | 26.645  | 24.264  | 24.350  | 25.330  |
| 143 | 50.260  | 64.388  | 57.714  | 53.041  | 41.200  | 30.981  | 26.866  | 24.570  | 24.615  | 25.624  |
| 144 | 47.835  | 61.072  | 54.086  | 49.804  | 38.834  | 31.060  | 27.124  | 24.944  | 24.996  | 26.060  |
| 145 | 46.031  | 57.698  | 50.725  | 46.781  | 36.937  | 31.171  | 27.401  | 25.368  | 25.433  | 26.563  |
| 146 | 44.916  | 54.722  | 47.487  | 43.924  | 35.823  | 31.317  | 27.788  | 25.779  | 25.894  | 27.067  |
| 147 | 44.399  | 51.818  | 44.434  | 41.256  | 35.405  | 31.501  | 28.194  | 26.178  | 26.355  | 27.595  |
| 148 | 44.132  | 49.623  | 41.694  | 39.154  | 35.374  | 31.703  | 28.617  | 26.663  | 26.872  | 28.155  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 149 | 43.861 | 48.281 | 39.504 | 37.967 | 35.368 | 31.936 | 29.047 | 27.209 | 27.437 | 28.702 |
| 150 | 43.627 | 47.454 | 38.371 | 37.527 | 35.381 | 32.187 | 29.483 | 27.737 | 28.021 | 29.255 |
| 151 | 43.406 | 47.043 | 37.868 | 37.367 | 35.405 | 32.481 | 29.931 | 28.300 | 28.636 | 29.795 |
| 152 | 43.239 | 46.674 | 37.679 | 37.238 | 35.443 | 32.763 | 30.385 | 28.828 | 29.244 | 30.402 |
| 153 | 43.073 | 46.336 | 37.540 | 37.146 | 35.535 | 33.069 | 30.846 | 29.381 | 29.834 | 31.005 |
| 154 | 42.943 | 46.042 | 37.504 | 37.109 | 35.646 | 33.382 | 31.323 | 29.909 | 30.434 | 31.607 |
| 155 | 42.845 | 45.790 | 37.505 | 37.096 | 35.805 | 33.731 | 31.802 | 30.443 | 31.012 | 32.149 |
| 156 | 42.740 | 45.568 | 37.541 | 37.139 | 36.001 | 34.087 | 32.287 | 30.983 | 31.608 | 32.671 |
| 157 | 42.630 | 45.359 | 37.590 | 37.230 | 36.191 | 34.412 | 32.752 | 31.481 | 32.161 | 33.170 |
| 158 | 42.549 | 45.176 | 37.627 | 37.315 | 36.356 | 34.707 | 33.151 | 31.930 | 32.683 | 33.631 |
| 159 | 42.548 | 45.101 | 37.707 | 37.437 | 36.522 | 34.977 | 33.513 | 32.354 | 33.186 | 34.080 |
| 160 | 42.506 | 44.960 | 37.817 | 37.548 | 36.700 | 35.235 | 33.862 | 32.771 | 33.684 | 34.504 |
| 161 | 42.450 | 44.812 | 37.934 | 37.682 | 36.897 | 35.492 | 34.183 | 33.183 | 34.195 | 34.922 |
| 162 | 42.389 | 44.665 | 38.188 | 37.871 | 37.183 | 35.852 | 34.628 | 33.733 | 34.741 | 35.333 |
| 163 | 42.334 | 44.529 | 38.250 | 37.963 | 37.300 | 36.056 | 34.868 | 34.085 | 35.189 | 35.684 |
| 164 | 42.260 | 44.400 | 38.360 | 38.103 | 37.459 | 36.265 | 35.144 | 34.465 | 35.619 | 36.053 |
| 165 | 42.186 | 44.265 | 38.469 | 38.226 | 37.593 | 36.461 | 35.383 | 34.870 | 36.029 | 36.391 |
| 166 | 42.106 | 44.111 | 38.597 | 38.372 | 37.734 | 36.639 | 35.635 | 35.306 | 36.422 | 36.729 |
| 167 | 42.002 | 43.945 | 38.713 | 38.519 | 37.881 | 36.811 | 35.892 | 35.736 | 36.809 | 37.055 |
| 168 | 41.885 | 43.791 | 38.842 | 38.666 | 38.003 | 36.976 | 36.125 | 36.159 | 37.184 | 37.375 |
| 169 | 41.756 | 43.606 | 38.963 | 38.801 | 38.120 | 37.148 | 36.377 | 36.595 | 37.540 | 37.676 |
| 170 | 41.621 | 43.379 | 39.079 | 38.923 | 38.236 | 37.308 | 36.653 | 37.043 | 37.897 | 37.983 |
| 171 | 41.522 | 43.182 | 39.171 | 39.027 | 38.359 | 37.467 | 36.888 | 37.492 | 38.277 | 38.291 |
| 172 | 41.387 | 42.973 | 39.281 | 39.143 | 38.488 | 37.639 | 37.238 | 37.885 | 38.578 | 38.561 |
| 173 | 41.240 | 42.727 | 39.379 | 39.265 | 38.616 | 37.774 | 37.625 | 38.247 | 38.842 | 38.807 |
| 174 | 41.123 | 42.512 | 39.513 | 39.406 | 38.752 | 38.018 | 38.061 | 38.591 | 39.088 | 39.034 |
| 175 | 41.067 | 42.335 | 39.674 | 39.570 | 38.964 | 38.464 | 38.497 | 38.916 | 39.327 | 39.298 |
| 176 | 41.218 | 42.311 | 40.018 | 39.863 | 39.452 | 38.966 | 38.949 | 39.217 | 39.535 | 39.514 |
| 177 | 41.402 | 42.311 | 40.628 | 40.229 | 39.893 | 39.414 | 39.341 | 39.451 | 39.707 | 39.687 |
| 178 | 41.544 | 42.311 | 41.299 | 40.596 | 40.315 | 39.819 | 39.672 | 39.660 | 39.860 | 39.810 |
| 179 | 41.607 | 42.311 | 41.925 | 41.036 | 40.645 | 40.102 | 39.936 | 39.845 | 39.995 | 39.915 |
| 180 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571 |

| Vert.<br>Angles | Horizontal Angles |            |            |            |            |
|-----------------|-------------------|------------|------------|------------|------------|
|                 | <u>300</u>        | <u>315</u> | <u>330</u> | <u>345</u> | <u>360</u> |
| 0               | 7172.500          | 7172.500   | 7172.500   | 7172.500   | 7172.500   |
| 1               | 7169.400          | 7167.000   | 7168.700   | 7167.000   | 7166.400   |
| 2               | 7162.500          | 7159.500   | 7159.400   | 7158.900   | 7156.000   |
| 3               | 7152.600          | 7148.400   | 7149.500   | 7147.200   | 7143.700   |
| 4               | 7138.900          | 7134.200   | 7135.100   | 7131.100   | 7127.800   |
| 5               | 7122.700          | 7116.900   | 7117.100   | 7112.600   | 7108.800   |
| 6               | 7102.900          | 7095.300   | 7096.000   | 7089.000   | 7084.900   |
| 7               | 7079.900          | 7070.500   | 7071.800   | 7064.300   | 7057.800   |
| 8               | 7053.300          | 7043.200   | 7042.700   | 7031.500   | 7026.500   |
| 9               | 7024.100          | 7011.100   | 7010.400   | 6999.200   | 6993.900   |
| 10              | 6992.500          | 6977.000   | 6973.800   | 6962.100   | 6957.100   |
| 11              | 6955.200          | 6938.600   | 6936.000   | 6925.500   | 6921.400   |
| 12              | 6916.100          | 6896.500   | 6896.200   | 6884.600   | 6880.300   |
| 13              | 6872.100          | 6852.500   | 6852.200   | 6845.500   | 6840.300   |
| 14              | 6827.400          | 6804.800   | 6808.800   | 6799.700   | 6796.700   |
| 15              | 6777.200          | 6757.700   | 6761.600   | 6753.800   | 6750.600   |
| 16              | 6725.700          | 6705.800   | 6713.200   | 6706.200   | 6702.100   |
| 17              | 6668.700          | 6651.900   | 6659.300   | 6652.400   | 6650.500   |
| 18              | 6611.600          | 6596.100   | 6606.500   | 6602.700   | 6600.100   |
| 19              | 6550.400          | 6537.300   | 6547.800   | 6543.900   | 6545.400   |



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| 20 | 6487.800 | 6475.300 | 6489.400 | 6489.300 | 6491.300 |
| 21 | 6420.800 | 6412.100 | 6427.400 | 6431.100 | 6432.900 |
| 22 | 6352.000 | 6344.000 | 6363.500 | 6370.300 | 6375.700 |
| 23 | 6281.300 | 6275.200 | 6299.600 | 6310.200 | 6311.200 |
| 24 | 6206.900 | 6203.300 | 6232.100 | 6243.300 | 6247.900 |
| 25 | 6131.200 | 6129.000 | 6164.400 | 6177.600 | 6178.400 |
| 26 | 6051.300 | 6054.600 | 6092.500 | 6105.700 | 6109.500 |
| 27 | 5970.600 | 5975.500 | 6018.700 | 6032.100 | 6040.200 |
| 28 | 5886.900 | 5898.000 | 5942.400 | 5959.600 | 5965.300 |
| 29 | 5802.000 | 5816.200 | 5864.200 | 5884.600 | 5892.700 |
| 30 | 5713.600 | 5733.200 | 5783.200 | 5807.800 | 5814.100 |
| 31 | 5623.100 | 5646.400 | 5701.400 | 5726.000 | 5736.600 |
| 32 | 5530.700 | 5560.300 | 5617.600 | 5646.000 | 5654.800 |
| 33 | 5437.100 | 5469.800 | 5533.300 | 5561.700 | 5573.600 |
| 34 | 5342.200 | 5378.700 | 5446.500 | 5479.800 | 5490.600 |
| 35 | 5245.500 | 5287.000 | 5359.000 | 5392.500 | 5407.000 |
| 36 | 5146.400 | 5191.600 | 5268.500 | 5307.500 | 5325.200 |
| 37 | 5047.800 | 5096.700 | 5178.000 | 5220.700 | 5236.700 |
| 38 | 4948.000 | 5002.200 | 5088.100 | 5132.900 | 5149.000 |
| 39 | 4844.500 | 4904.900 | 4997.500 | 5044.300 | 5059.800 |
| 40 | 4741.600 | 4805.700 | 4903.900 | 4953.200 | 4971.900 |
| 41 | 4637.700 | 4709.000 | 4809.900 | 4862.000 | 4882.700 |
| 42 | 4532.900 | 4607.400 | 4718.100 | 4768.500 | 4790.500 |
| 43 | 4425.700 | 4510.100 | 4622.600 | 4679.100 | 4701.300 |
| 44 | 4318.500 | 4407.200 | 4525.900 | 4585.000 | 4609.700 |
| 45 | 4210.500 | 4308.000 | 4429.800 | 4491.900 | 4518.100 |
| 46 | 4092.600 | 4207.000 | 4332.500 | 4397.100 | 4425.200 |
| 47 | 3974.900 | 4107.800 | 4236.400 | 4305.900 | 4331.800 |
| 48 | 3870.600 | 4005.000 | 4145.500 | 4210.500 | 4238.900 |
| 49 | 3759.400 | 3903.900 | 4024.100 | 4115.600 | 4146.600 |
| 50 | 3655.000 | 3802.600 | 3926.500 | 4022.900 | 4053.400 |
| 51 | 3546.500 | 3701.500 | 3828.100 | 3928.100 | 3961.800 |
| 52 | 3440.800 | 3599.300 | 3732.200 | 3833.200 | 3865.300 |
| 53 | 3335.500 | 3497.600 | 3635.300 | 3738.300 | 3772.400 |
| 54 | 3230.000 | 3396.000 | 3536.800 | 3641.600 | 3675.900 |
| 55 | 3126.500 | 3295.600 | 3440.700 | 3544.300 | 3580.600 |
| 56 | 3022.100 | 3195.200 | 3342.600 | 3448.800 | 3482.200 |
| 57 | 2917.100 | 3093.500 | 3244.300 | 3350.900 | 3385.000 |
| 58 | 2813.800 | 2991.900 | 3145.800 | 3251.100 | 3286.600 |
| 59 | 2712.600 | 2890.800 | 3048.400 | 3151.900 | 3185.800 |
| 60 | 2609.500 | 2793.500 | 2948.000 | 3052.100 | 3086.800 |
| 61 | 2509.700 | 2691.500 | 2850.200 | 2951.300 | 2985.000 |
| 62 | 2408.200 | 2593.000 | 2749.500 | 2850.300 | 2886.000 |
| 63 | 2308.200 | 2493.200 | 2649.900 | 2749.800 | 2784.500 |
| 64 | 2209.500 | 2392.800 | 2550.400 | 2648.800 | 2682.400 |
| 65 | 2112.000 | 2294.200 | 2450.200 | 2546.500 | 2579.100 |
| 66 | 2012.300 | 2196.900 | 2349.400 | 2444.800 | 2475.800 |
| 67 | 1915.900 | 2097.100 | 2248.900 | 2340.700 | 2373.100 |
| 68 | 1820.200 | 1998.600 | 2148.300 | 2237.700 | 2269.200 |
| 69 | 1724.800 | 1900.600 | 2048.700 | 2136.700 | 2165.900 |
| 70 | 1631.600 | 1799.600 | 1947.500 | 2033.200 | 2061.300 |
| 71 | 1537.400 | 1698.600 | 1847.500 | 1930.200 | 1957.400 |
| 72 | 1445.200 | 1602.800 | 1749.400 | 1853.400 | 1852.500 |
| 73 | 1354.700 | 1508.700 | 1648.400 | 1717.700 | 1746.100 |
| 74 | 1265.900 | 1414.900 | 1553.900 | 1617.100 | 1639.700 |
| 75 | 1177.200 | 1324.200 | 1454.900 | 1517.800 | 1539.900 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|     |          |          |          |          |          |
|-----|----------|----------|----------|----------|----------|
| 76  | 1091.500 | 1232.300 | 1361.000 | 1419.100 | 1441.100 |
| 77  | 1006.000 | 1145.000 | 1267.800 | 1323.000 | 1343.900 |
| 78  | 925.670  | 1059.000 | 1178.000 | 1229.800 | 1248.200 |
| 79  | 846.650  | 977.230  | 1089.800 | 1139.800 | 1156.900 |
| 80  | 769.640  | 896.760  | 1004.800 | 1050.700 | 1067.800 |
| 81  | 698.100  | 821.530  | 924.410  | 967.290  | 983.920  |
| 82  | 631.030  | 749.650  | 847.860  | 888.870  | 905.840  |
| 83  | 568.390  | 684.280  | 778.000  | 817.880  | 831.750  |
| 84  | 512.430  | 624.420  | 714.060  | 751.980  | 766.780  |
| 85  | 460.870  | 571.320  | 657.060  | 693.840  | 708.170  |
| 86  | 418.840  | 526.880  | 609.310  | 645.040  | 659.200  |
| 87  | 387.700  | 489.760  | 569.780  | 603.450  | 617.580  |
| 88  | 356.720  | 464.060  | 540.800  | 574.880  | 587.870  |
| 89  | 339.750  | 445.040  | 519.940  | 553.070  | 566.670  |
| 90  | 324.030  | 427.150  | 500.300  | 532.940  | 547.170  |
| 91  | 309.050  | 409.670  | 481.620  | 513.960  | 529.140  |
| 92  | 294.290  | 393.070  | 464.150  | 497.070  | 512.660  |
| 93  | 279.010  | 377.010  | 447.560  | 480.670  | 497.460  |
| 94  | 264.840  | 361.770  | 432.060  | 466.030  | 483.670  |
| 95  | 250.320  | 346.970  | 417.430  | 452.170  | 470.790  |
| 96  | 237.420  | 332.470  | 403.550  | 439.220  | 458.820  |
| 97  | 223.440  | 318.650  | 390.480  | 427.020  | 447.590  |
| 98  | 210.310  | 305.100  | 377.840  | 415.430  | 437.090  |
| 99  | 197.180  | 291.890  | 364.730  | 404.180  | 427.010  |
| 100 | 185.060  | 278.950  | 351.630  | 393.070  | 417.260  |
| 101 | 172.480  | 266.620  | 339.960  | 382.560  | 407.450  |
| 102 | 159.420  | 253.890  | 328.170  | 371.930  | 397.900  |
| 103 | 148.000  | 241.970  | 316.610  | 361.560  | 388.430  |
| 104 | 136.060  | 229.840  | 305.090  | 351.130  | 378.690  |
| 105 | 125.100  | 218.260  | 294.100  | 340.830  | 369.280  |
| 106 | 114.480  | 206.170  | 282.800  | 330.490  | 359.490  |
| 107 | 105.050  | 193.330  | 271.910  | 320.190  | 349.820  |
| 108 | 96.880   | 180.480  | 260.690  | 309.700  | 339.810  |
| 109 | 89.754   | 167.670  | 250.350  | 299.460  | 329.790  |
| 110 | 83.305   | 155.000  | 238.630  | 288.900  | 319.520  |
| 111 | 77.032   | 144.240  | 226.390  | 278.460  | 309.430  |
| 112 | 71.923   | 134.860  | 213.900  | 267.490  | 299.090  |
| 113 | 67.440   | 126.690  | 201.440  | 256.250  | 288.670  |
| 114 | 63.019   | 119.590  | 189.780  | 244.870  | 278.190  |
| 115 | 58.667   | 113.650  | 177.910  | 233.620  | 268.110  |
| 116 | 54.451   | 107.820  | 167.800  | 222.580  | 258.420  |
| 117 | 50.464   | 101.980  | 158.700  | 211.430  | 249.170  |
| 118 | 47.344   | 96.445   | 150.870  | 201.190  | 239.900  |
| 119 | 44.555   | 91.398   | 143.370  | 191.680  | 230.760  |
| 120 | 42.006   | 85.654   | 136.590  | 182.180  | 221.680  |
| 121 | 39.696   | 79.776   | 129.630  | 173.530  | 212.740  |
| 122 | 37.601   | 74.269   | 122.510  | 165.720  | 203.870  |
| 123 | 35.675   | 69.088   | 115.200  | 158.330  | 194.870  |
| 124 | 33.636   | 64.904   | 107.900  | 150.710  | 185.870  |
| 125 | 31.830   | 60.710   | 102.300  | 142.630  | 177.380  |
| 126 | 30.254   | 57.034   | 97.302   | 134.720  | 169.050  |
| 127 | 29.064   | 53.235   | 93.323   | 126.680  | 160.950  |
| 128 | 28.151   | 49.883   | 88.362   | 119.520  | 152.910  |
| 129 | 27.484   | 46.653   | 82.702   | 112.690  | 145.210  |
| 130 | 27.122   | 44.131   | 77.547   | 106.490  | 137.570  |
| 131 | 26.829   | 41.896   | 72.356   | 100.690  | 130.140  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |         |
|-----|--------|--------|--------|--------|---------|
| 132 | 26.602 | 39.773 | 67.711 | 95.345 | 122.790 |
| 133 | 26.424 | 37.700 | 63.088 | 89.396 | 115.660 |
| 134 | 26.276 | 35.622 | 59.333 | 83.478 | 108.810 |
| 135 | 26.149 | 33.806 | 55.954 | 77.768 | 102.320 |
| 136 | 26.149 | 32.510 | 52.979 | 72.530 | 96.024  |
| 137 | 26.205 | 31.798 | 50.245 | 67.514 | 90.144  |
| 138 | 26.310 | 31.469 | 47.804 | 62.696 | 84.697  |
| 139 | 26.433 | 31.344 | 45.466 | 58.607 | 79.779  |
| 140 | 26.532 | 31.307 | 43.124 | 55.270 | 75.248  |
| 141 | 26.711 | 31.301 | 40.927 | 52.716 | 71.329  |
| 142 | 26.981 | 31.301 | 39.140 | 50.102 | 67.792  |
| 143 | 27.215 | 31.319 | 38.077 | 47.585 | 64.572  |
| 144 | 27.468 | 31.435 | 37.478 | 45.100 | 61.435  |
| 145 | 27.844 | 31.588 | 37.213 | 42.810 | 58.474  |
| 146 | 28.287 | 31.736 | 36.968 | 41.382 | 55.786  |
| 147 | 28.773 | 31.902 | 36.778 | 40.522 | 53.928  |
| 148 | 29.252 | 32.184 | 36.636 | 40.088 | 52.731  |
| 149 | 29.708 | 32.467 | 36.515 | 39.846 | 51.903  |
| 150 | 30.169 | 32.725 | 36.509 | 39.655 | 51.230  |
| 151 | 30.649 | 33.007 | 36.521 | 39.532 | 50.669  |
| 152 | 31.116 | 33.308 | 36.546 | 39.446 | 50.138  |
| 153 | 31.590 | 33.634 | 36.583 | 39.396 | 49.625  |
| 154 | 32.062 | 33.941 | 36.644 | 39.359 | 49.143  |
| 155 | 32.542 | 34.261 | 36.663 | 39.340 | 48.679  |
| 156 | 33.046 | 34.587 | 36.720 | 39.359 | 48.252  |
| 157 | 33.525 | 34.931 | 36.891 | 39.414 | 47.837  |
| 158 | 33.955 | 35.263 | 36.997 | 39.451 | 47.500  |
| 159 | 34.392 | 35.559 | 37.188 | 39.512 | 47.213  |
| 160 | 34.829 | 35.879 | 37.391 | 39.628 | 46.920  |
| 161 | 35.297 | 36.180 | 37.602 | 39.770 | 46.657  |
| 162 | 35.782 | 36.590 | 38.024 | 40.124 | 46.414  |
| 163 | 36.218 | 36.899 | 38.221 | 40.261 | 46.200  |
| 164 | 36.642 | 37.243 | 38.461 | 40.409 | 46.028  |
| 165 | 37.022 | 37.563 | 38.707 | 40.587 | 45.894  |
| 166 | 37.397 | 37.901 | 38.940 | 40.875 | 45.778  |
| 167 | 37.760 | 38.257 | 39.162 | 41.091 | 45.668  |
| 168 | 38.098 | 38.583 | 39.439 | 41.215 | 45.606  |
| 169 | 38.399 | 38.897 | 39.729 | 41.423 | 45.551  |
| 170 | 38.688 | 39.199 | 40.036 | 41.675 | 45.520  |
| 171 | 38.933 | 39.457 | 40.350 | 41.909 | 45.508  |
| 172 | 39.117 | 39.667 | 40.620 | 42.173 | 45.447  |
| 173 | 39.277 | 39.833 | 40.828 | 42.309 | 45.290  |
| 174 | 39.425 | 39.944 | 40.982 | 42.384 | 45.041  |
| 175 | 39.603 | 40.042 | 41.159 | 42.500 | 44.701  |
| 176 | 39.781 | 40.129 | 41.239 | 42.526 | 44.214  |
| 177 | 39.928 | 40.196 | 41.263 | 42.477 | 43.684  |
| 178 | 40.088 | 40.307 | 41.276 | 42.373 | 43.177  |
| 179 | 40.204 | 40.460 | 41.387 | 42.323 | 42.749  |
| 180 | 42.571 | 42.571 | 42.571 | 42.571 | 42.571  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp  | %Fixt  |
|---------|----------|--------|--------|
| 0-20    | 2595.79  | 12.60  | 12.60  |
| 0-30    | 5454.46  | 26.40  | 26.40  |
| 0-40    | 8820.85  | 42.70  | 42.70  |
| 0-60    | 15248.72 | 73.80  | 73.80  |
| 0-80    | 19054.82 | 92.30  | 92.30  |
| 0-90    | 19728.89 | 95.50  | 95.50  |
| 10-90   | 19052.12 | 92.30  | 92.30  |
| 20-40   | 6225.06  | 30.10  | 30.10  |
| 20-50   | 9628.72  | 46.60  | 46.60  |
| 40-70   | 8767.74  | 42.50  | 42.50  |
| 60-80   | 3806.1   | 18.40  | 18.40  |
| 70-80   | 1466.22  | 7.10   | 7.10   |
| 80-90   | 674.07   | 3.30   | 3.30   |
| 90-110  | 597.58   | 2.90   | 2.90   |
| 90-120  | 739.37   | 3.60   | 3.60   |
| 90-130  | 820.69   | 4.00   | 4.00   |
| 90-150  | 889.15   | 4.30   | 4.30   |
| 90-180  | 921.69   | 4.50   | 4.50   |
| 110-180 | 324.11   | 1.60   | 1.60   |
| 0-180   | 20650.58 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 676.77  |
| 10-20   | 1919.02 |
| 20-30   | 2858.67 |
| 30-40   | 3366.39 |
| 40-50   | 3403.66 |
| 50-60   | 3024.21 |
| 60-70   | 2339.87 |
| 70-80   | 1466.22 |
| 80-90   | 674.07  |
| 90-100  | 361.51  |
| 100-110 | 236.07  |
| 110-120 | 141.79  |
| 120-130 | 81.32   |
| 130-140 | 43.52   |
| 140-150 | 24.94   |
| 150-160 | 17.53   |
| 160-170 | 11.15   |
| 170-180 | 3.86    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1  | 107 | 102 | 98  | 94  | 104 | 99  | 95  | 92  | 94  | 91  | 88  | 90  | 87  | 84  | 85 | 83 | 81 | 79 |
| 2  | 97  | 89  | 82  | 76  | 94  | 87  | 80  | 75  | 82  | 77  | 72  | 78  | 74  | 70  | 75 | 71 | 68 | 65 |
| 3  | 89  | 78  | 70  | 63  | 86  | 76  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 59  | 66 | 61 | 57 | 55 |
| 4  | 81  | 69  | 60  | 54  | 79  | 68  | 59  | 53  | 64  | 57  | 52  | 62  | 55  | 51  | 59 | 54 | 49 | 47 |
| 5  | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 46  | 58  | 50  | 45  | 55  | 49  | 44  | 53 | 47 | 43 | 41 |
| 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 48 | 42 | 38 | 36 |
| 7  | 64  | 51  | 42  | 36  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 44 | 38 | 34 | 32 |
| 8  | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 36  | 31  | 42  | 35  | 31  | 40 | 35 | 30 | 28 |
| 9  | 56  | 42  | 34  | 29  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 37 | 32 | 27 | 25 |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 35 | 29 | 25 | 23 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSVTSELHTMO35K.IES**

**UGR TABLE - CORRECTED**

Reflectances

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

Room Size      UGR Viewed Crosswise

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 25.1 | 26.7 | 25.5 | 27.1 | 27.5 | 24.1 | 25.7 | 24.6 | 26.1 | 26.5 |
|      | 3H   | 27.1 | 28.5 | 27.6 | 29.0 | 29.4 | 25.7 | 27.2 | 26.2 | 27.6 | 28.0 |
|      | 4H   | 28.0 | 29.3 | 28.4 | 29.7 | 30.2 | 26.3 | 27.7 | 26.8 | 28.1 | 28.6 |
|      | 6H   | 28.7 | 29.9 | 29.2 | 30.4 | 30.8 | 26.8 | 28.0 | 27.3 | 28.5 | 29.0 |
|      | 8H   | 29.0 | 30.2 | 29.5 | 30.6 | 31.1 | 26.9 | 28.1 | 27.4 | 28.6 | 29.1 |
|      | 12H  | 29.3 | 30.4 | 29.8 | 30.9 | 31.4 | 27.0 | 28.2 | 27.5 | 28.6 | 29.1 |

UGR Viewed Endwise

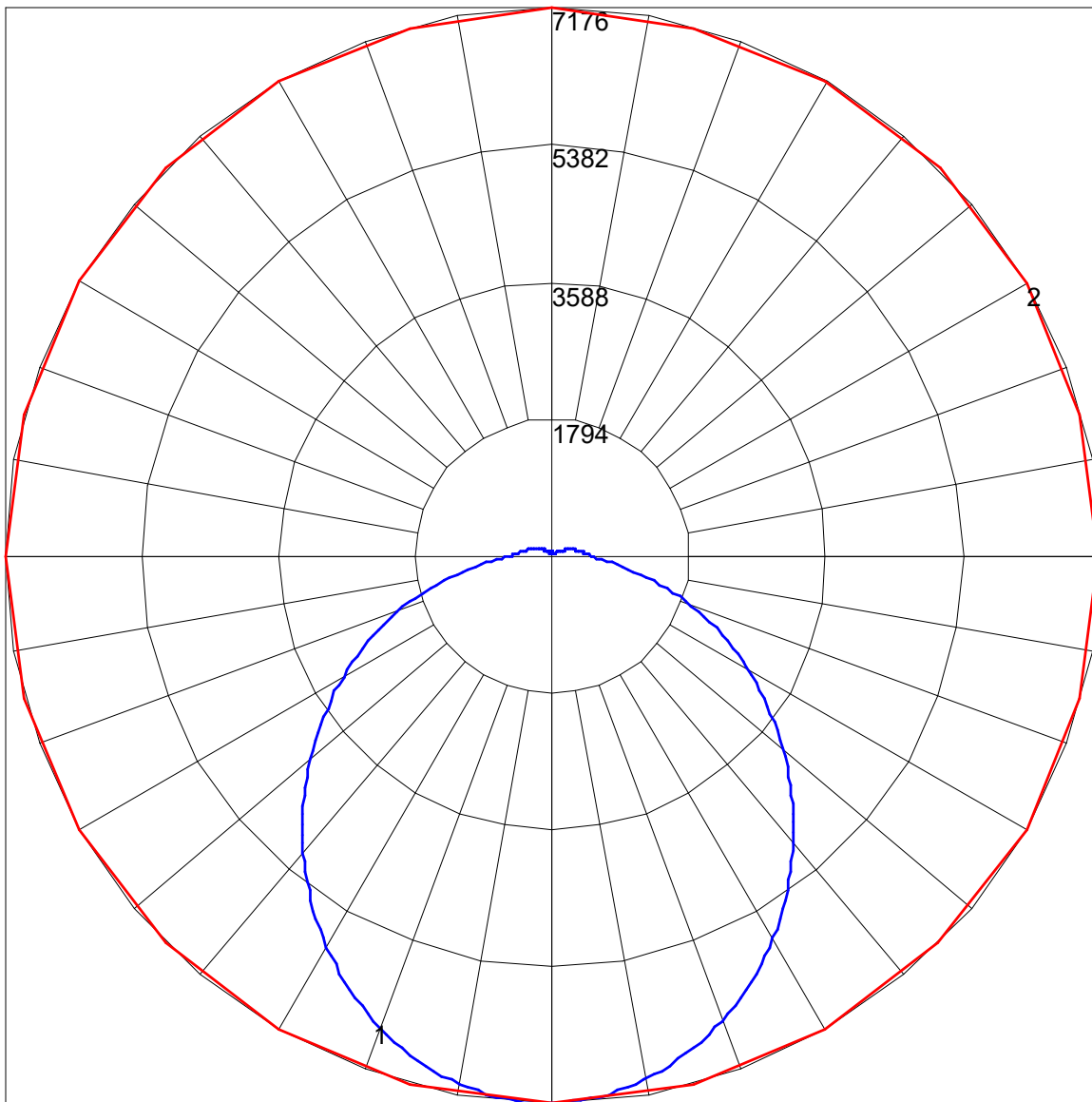
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 25.6 | 27.0 | 26.1 | 27.4 | 27.9 | 24.9 | 26.3 | 25.4 | 26.7 | 27.2 |
|    | 3H  | 27.9 | 29.1 | 28.4 | 29.5 | 30.0 | 26.8 | 28.0 | 27.3 | 28.4 | 28.9 |
|    | 4H  | 28.9 | 29.9 | 29.4 | 30.4 | 31.0 | 27.6 | 28.6 | 28.1 | 29.1 | 29.6 |
|    | 6H  | 29.8 | 30.7 | 30.3 | 31.2 | 31.8 | 28.1 | 29.0 | 28.7 | 29.6 | 30.1 |
|    | 8H  | 30.2 | 31.1 | 30.7 | 31.6 | 32.1 | 28.3 | 29.2 | 28.9 | 29.7 | 30.2 |
|    | 12H | 30.6 | 31.4 | 31.2 | 31.9 | 32.5 | 28.5 | 29.2 | 29.0 | 29.8 | 30.3 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 29.2 | 30.1 | 29.7 | 30.6 | 31.1 | 28.1 | 29.0 | 28.6 | 29.5 | 30.0 |
|    | 6H  | 30.3 | 31.0 | 30.8 | 31.5 | 32.1 | 28.9 | 29.6 | 29.4 | 30.1 | 30.7 |
|    | 8H  | 30.8 | 31.4 | 31.4 | 32.0 | 32.6 | 29.2 | 29.8 | 29.7 | 30.4 | 31.0 |
|    | 12H | 31.4 | 32.0 | 31.9 | 32.5 | 33.2 | 29.4 | 30.0 | 30.0 | 30.5 | 31.2 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 29.2 | 30.0 | 29.8 | 30.5 | 31.1 | 28.2 | 29.0 | 28.8 | 29.5 | 30.1 |
|     | 6H | 30.4 | 31.0 | 30.9 | 31.5 | 32.2 | 29.1 | 29.7 | 29.7 | 30.2 | 30.9 |
|     | 8H | 30.9 | 31.5 | 31.5 | 32.1 | 32.7 | 29.4 | 30.0 | 30.0 | 30.6 | 31.2 |

Maximum UGR = 33.2

POLAR GRAPH



Maximum Candela = 7175.6 Located At Horizontal Angle = 150, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)