



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4789877761\_19  
[TESTLAB] UL-CCIC (Suzhou) Co.,Ltd  
[TESTDATE] 04/23/2021  
[ISSUEDATE] 06/10/2021  
[MANUFAC] Lamar LED  
[LUMCAT] VTLED-4A-75PS-8CSA 5000K/75W  
[MORE] 0.9962 PF  
[MORE] 4.69% ATHD  
[MORE] 73.13W  
[MORE] 120.05V  
[MORE] 0.6114A

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 9593                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 131                 |
| Total Luminaire Watts           | 73.1                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.20                |
| Spacing Criterion (90-270)      | 1.24                |
| Spacing Criterion (Diagonal)    | 1.34                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 1.20 m              |
| Luminous Width (90-270)         | 0.08 m              |
| Luminous Height                 | 0.03 m              |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 27023            | 23250             | 22961             |
| 55                  | 24916            | 20932             | 21004             |
| 65                  | 21881            | 18118             | 18799             |
| 75                  | 18156            | 15277             | 16725             |
| 85                  | 12129            | 12739             | 15028             |

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**CANDELA TABULATION**

|    | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|----|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0  | 3123.1     | 3123.1      | 3123.1      | 3123.1      | 3123.1      | 3123.1       | 3123.1       | 3123.1       | 3123.1       | 3123.1       |
| 1  | 3113.3     | 3110.8      | 3116.0      | 3148.2      | 3145.2      | 3127.4       | 3112.0       | 3110.5       | 3104.8       | 3105.5       |
| 2  | 3110.3     | 3104.3      | 3107.5      | 3141.4      | 3147.4      | 3140.8       | 3127.1       | 3119.3       | 3105.0       | 3100.2       |
| 3  | 3108.7     | 3096.4      | 3100.6      | 3138.5      | 3145.3      | 3147.3       | 3137.2       | 3123.9       | 3104.2       | 3096.5       |
| 4  | 3108.4     | 3085.7      | 3092.5      | 3129.6      | 3142.6      | 3152.4       | 3144.4       | 3126.2       | 3102.0       | 3085.5       |
| 5  | 3102.8     | 3080.7      | 3076.1      | 3113.4      | 3132.9      | 3156.4       | 3146.5       | 3125.4       | 3097.5       | 3074.5       |
| 6  | 3098.4     | 3074.2      | 3062.7      | 3106.0      | 3123.3      | 3151.7       | 3143.8       | 3121.2       | 3094.7       | 3074.3       |
| 7  | 3089.9     | 3068.8      | 3052.9      | 3089.2      | 3112.3      | 3142.6       | 3139.8       | 3116.3       | 3086.9       | 3068.0       |
| 8  | 3081.5     | 3063.9      | 3042.9      | 3081.0      | 3105.3      | 3131.3       | 3132.7       | 3106.8       | 3077.4       | 3059.6       |
| 9  | 3073.0     | 3053.0      | 3037.2      | 3071.6      | 3090.9      | 3116.2       | 3117.7       | 3092.9       | 3067.8       | 3054.1       |
| 10 | 3059.5     | 3043.8      | 3028.7      | 3055.8      | 3077.4      | 3097.3       | 3100.2       | 3076.0       | 3050.9       | 3046.8       |
| 11 | 3042.1     | 3034.3      | 3020.1      | 3042.7      | 3066.2      | 3074.7       | 3080.6       | 3060.2       | 3038.0       | 3026.6       |
| 12 | 3024.9     | 3017.7      | 3014.3      | 3034.2      | 3048.2      | 3054.4       | 3053.0       | 3039.4       | 3020.3       | 3016.1       |
| 13 | 3003.5     | 3002.9      | 3006.4      | 3018.6      | 3032.1      | 3030.7       | 3030.5       | 3017.8       | 3001.6       | 2998.5       |
| 14 | 2986.0     | 2984.6      | 2993.2      | 3016.2      | 3011.6      | 3011.8       | 3005.5       | 2995.2       | 2980.7       | 2982.7       |
| 15 | 2962.6     | 2965.6      | 2978.1      | 3004.3      | 2993.5      | 2990.3       | 2978.1       | 2970.2       | 2961.2       | 2965.1       |
| 16 | 2940.4     | 2942.8      | 2960.9      | 2990.0      | 2975.7      | 2965.1       | 2953.3       | 2946.8       | 2938.5       | 2941.2       |
| 17 | 2915.7     | 2921.5      | 2939.1      | 2968.7      | 2956.9      | 2944.4       | 2924.1       | 2916.3       | 2911.9       | 2920.4       |
| 18 | 2891.2     | 2900.9      | 2913.0      | 2946.3      | 2937.6      | 2920.0       | 2896.9       | 2886.7       | 2888.9       | 2893.3       |
| 19 | 2860.5     | 2872.6      | 2886.2      | 2920.5      | 2914.0      | 2891.2       | 2867.1       | 2858.1       | 2859.4       | 2867.1       |
| 20 | 2833.7     | 2842.9      | 2853.7      | 2885.5      | 2888.8      | 2869.4       | 2839.3       | 2828.3       | 2830.5       | 2839.8       |
| 21 | 2802.4     | 2814.1      | 2822.7      | 2854.7      | 2862.9      | 2844.7       | 2815.4       | 2801.8       | 2800.9       | 2813.6       |
| 22 | 2771.4     | 2784.0      | 2793.4      | 2818.8      | 2832.2      | 2815.5       | 2787.3       | 2773.1       | 2773.9       | 2783.5       |
| 23 | 2741.9     | 2756.1      | 2761.9      | 2787.9      | 2800.2      | 2791.4       | 2762.0       | 2745.3       | 2746.0       | 2755.1       |
| 24 | 2712.4     | 2726.4      | 2729.2      | 2756.8      | 2769.6      | 2765.1       | 2734.6       | 2717.7       | 2718.4       | 2722.8       |
| 25 | 2681.5     | 2690.7      | 2697.7      | 2724.6      | 2738.7      | 2734.8       | 2707.2       | 2688.5       | 2683.8       | 2689.1       |
| 26 | 2647.3     | 2657.2      | 2667.8      | 2698.8      | 2707.8      | 2705.2       | 2681.2       | 2652.3       | 2647.9       | 2656.2       |
| 27 | 2614.5     | 2626.3      | 2635.1      | 2667.3      | 2675.5      | 2674.0       | 2652.4       | 2620.8       | 2616.4       | 2619.7       |
| 28 | 2577.6     | 2590.4      | 2605.9      | 2638.6      | 2644.2      | 2639.4       | 2618.2       | 2587.8       | 2576.0       | 2586.2       |
| 29 | 2541.3     | 2552.2      | 2574.0      | 2609.3      | 2618.7      | 2608.9       | 2583.1       | 2552.4       | 2541.4       | 2554.3       |
| 30 | 2502.9     | 2518.1      | 2543.0      | 2576.2      | 2584.8      | 2573.5       | 2548.3       | 2516.2       | 2502.7       | 2521.7       |
| 31 | 2463.0     | 2481.2      | 2508.7      | 2545.4      | 2554.4      | 2540.7       | 2512.6       | 2480.3       | 2467.5       | 2483.1       |
| 32 | 2422.8     | 2449.2      | 2474.8      | 2514.8      | 2520.6      | 2508.9       | 2476.4       | 2442.4       | 2429.8       | 2447.8       |
| 33 | 2386.3     | 2408.9      | 2440.8      | 2481.3      | 2492.1      | 2472.3       | 2439.8       | 2405.1       | 2393.2       | 2409.5       |
| 34 | 2347.4     | 2371.7      | 2408.6      | 2454.4      | 2457.8      | 2440.6       | 2398.6       | 2367.0       | 2354.0       | 2369.0       |
| 35 | 2307.4     | 2329.7      | 2368.6      | 2419.0      | 2422.3      | 2409.0       | 2365.2       | 2327.7       | 2313.4       | 2336.0       |
| 36 | 2269.7     | 2291.0      | 2329.0      | 2383.5      | 2393.9      | 2374.6       | 2325.6       | 2288.7       | 2275.8       | 2292.5       |
| 37 | 2229.6     | 2251.2      | 2295.2      | 2349.2      | 2362.8      | 2339.7       | 2286.9       | 2248.3       | 2235.3       | 2252.2       |
| 38 | 2189.0     | 2209.7      | 2253.0      | 2310.3      | 2323.6      | 2304.1       | 2249.4       | 2205.2       | 2192.9       | 2212.9       |
| 39 | 2145.7     | 2165.1      | 2209.2      | 2271.4      | 2284.7      | 2268.7       | 2207.8       | 2160.9       | 2148.0       | 2167.6       |
| 40 | 2101.2     | 2118.1      | 2167.0      | 2226.9      | 2249.2      | 2229.8       | 2167.7       | 2118.8       | 2103.2       | 2124.8       |
| 41 | 2056.1     | 2072.7      | 2124.0      | 2187.4      | 2208.9      | 2191.0       | 2126.4       | 2076.2       | 2060.3       | 2080.9       |
| 42 | 2009.2     | 2028.0      | 2079.9      | 2144.9      | 2167.8      | 2150.5       | 2089.8       | 2032.2       | 2013.8       | 2036.5       |
| 43 | 1963.8     | 1981.6      | 2034.6      | 2099.5      | 2125.2      | 2107.7       | 2043.8       | 1988.9       | 1968.8       | 1991.5       |
| 44 | 1918.9     | 1938.1      | 1991.5      | 2059.1      | 2090.9      | 2068.1       | 2003.7       | 1943.0       | 1922.0       | 1948.2       |
| 45 | 1873.4     | 1890.6      | 1951.1      | 2020.6      | 2046.6      | 2023.0       | 1959.3       | 1901.9       | 1876.7       | 1906.9       |
| 46 | 1825.2     | 1850.9      | 1910.6      | 1982.9      | 2010.9      | 1981.4       | 1914.2       | 1853.9       | 1830.8       | 1864.0       |
| 47 | 1783.6     | 1805.8      | 1867.2      | 1941.6      | 1972.6      | 1942.4       | 1870.4       | 1809.0       | 1788.8       | 1819.4       |
| 48 | 1738.8     | 1763.9      | 1825.7      | 1902.4      | 1936.9      | 1899.9       | 1825.2       | 1765.4       | 1743.4       | 1781.7       |
| 49 | 1690.3     | 1720.0      | 1792.3      | 1867.1      | 1893.3      | 1862.5       | 1785.1       | 1723.0       | 1697.3       | 1741.0       |
| 50 | 1644.6     | 1677.1      | 1752.0      | 1833.2      | 1860.6      | 1820.9       | 1739.3       | 1676.9       | 1650.9       | 1695.6       |
| 51 | 1600.2     | 1632.9      | 1709.0      | 1796.7      | 1822.3      | 1786.2       | 1697.0       | 1630.8       | 1606.5       | 1651.0       |
| 52 | 1553.1     | 1587.9      | 1669.5      | 1759.1      | 1787.2      | 1749.2       | 1651.7       | 1583.0       | 1559.8       | 1609.5       |
| 53 | 1508.1     | 1542.4      | 1626.1      | 1721.8      | 1751.6      | 1708.6       | 1611.3       | 1535.6       | 1512.8       | 1564.4       |

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**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 54  | 1462.0 | 1497.5 | 1584.5 | 1682.9 | 1715.8 | 1671.4 | 1567.0 | 1487.5 | 1464.2 | 1517.8 |
| 55  | 1413.4 | 1449.2 | 1541.2 | 1643.7 | 1673.4 | 1630.8 | 1526.0 | 1439.8 | 1417.2 | 1471.5 |
| 56  | 1367.2 | 1401.9 | 1497.3 | 1599.5 | 1632.4 | 1589.9 | 1484.5 | 1389.5 | 1368.5 | 1424.0 |
| 57  | 1314.3 | 1355.4 | 1453.9 | 1556.2 | 1593.3 | 1549.8 | 1439.7 | 1342.4 | 1314.1 | 1377.6 |
| 58  | 1265.5 | 1306.4 | 1409.2 | 1519.0 | 1551.0 | 1507.4 | 1395.9 | 1294.5 | 1265.9 | 1331.0 |
| 59  | 1216.7 | 1257.7 | 1366.7 | 1476.2 | 1515.2 | 1469.9 | 1353.9 | 1247.9 | 1217.3 | 1283.9 |
| 60  | 1167.1 | 1207.3 | 1318.6 | 1431.5 | 1471.3 | 1427.8 | 1311.1 | 1199.5 | 1165.7 | 1237.3 |
| 61  | 1116.7 | 1158.1 | 1278.6 | 1392.6 | 1431.4 | 1385.3 | 1267.7 | 1153.2 | 1119.3 | 1190.7 |
| 62  | 1068.6 | 1110.7 | 1235.5 | 1350.9 | 1389.6 | 1345.3 | 1226.3 | 1107.1 | 1068.6 | 1144.3 |
| 63  | 1020.5 | 1063.8 | 1193.2 | 1306.4 | 1350.6 | 1304.5 | 1182.8 | 1064.8 | 1019.5 | 1100.8 |
| 64  | 970.3  | 1018.6 | 1149.3 | 1267.7 | 1309.9 | 1263.3 | 1140.8 | 1017.6 | 974.1  | 1054.5 |
| 65  | 927.8  | 972.8  | 1107.1 | 1227.4 | 1274.4 | 1225.2 | 1098.5 | 973.6  | 928.6  | 1008.7 |
| 66  | 879.9  | 928.5  | 1065.2 | 1188.4 | 1232.3 | 1185.4 | 1057.8 | 930.9  | 884.8  | 964.8  |
| 67  | 835.8  | 884.9  | 1022.2 | 1148.3 | 1198.5 | 1147.3 | 1019.2 | 886.4  | 839.9  | 923.0  |
| 68  | 788.5  | 840.6  | 982.8  | 1114.2 | 1160.6 | 1111.6 | 982.2  | 841.3  | 790.2  | 880.4  |
| 69  | 748.2  | 798.4  | 940.6  | 1073.7 | 1123.6 | 1071.2 | 942.6  | 798.1  | 744.9  | 836.2  |
| 70  | 700.1  | 756.3  | 901.3  | 1036.4 | 1085.4 | 1038.5 | 904.2  | 754.7  | 701.6  | 796.5  |
| 71  | 660.0  | 713.9  | 861.9  | 999.0  | 1046.1 | 999.0  | 863.5  | 713.4  | 652.4  | 756.6  |
| 72  | 613.7  | 670.9  | 824.0  | 962.7  | 1010.2 | 964.6  | 829.1  | 673.2  | 606.7  | 716.1  |
| 73  | 572.0  | 631.7  | 787.5  | 922.6  | 976.2  | 924.7  | 790.9  | 630.6  | 565.1  | 677.2  |
| 74  | 530.0  | 591.8  | 748.8  | 886.9  | 938.6  | 889.9  | 750.9  | 591.8  | 523.1  | 640.7  |
| 75  | 486.4  | 555.6  | 713.8  | 850.5  | 900.6  | 854.2  | 715.1  | 556.1  | 481.5  | 603.8  |
| 76  | 443.4  | 517.6  | 677.6  | 816.1  | 867.4  | 816.9  | 680.2  | 518.4  | 440.2  | 565.0  |
| 77  | 400.9  | 481.9  | 646.0  | 781.8  | 831.6  | 783.1  | 645.2  | 482.2  | 401.1  | 528.9  |
| 78  | 363.5  | 445.0  | 611.8  | 746.9  | 796.8  | 752.4  | 610.2  | 444.4  | 359.5  | 494.5  |
| 79  | 327.0  | 412.1  | 578.7  | 716.1  | 764.0  | 718.7  | 577.3  | 411.4  | 322.7  | 461.5  |
| 80  | 285.2  | 377.6  | 546.0  | 683.7  | 734.4  | 683.8  | 545.1  | 375.5  | 283.1  | 425.4  |
| 81  | 252.0  | 346.2  | 512.4  | 650.2  | 702.2  | 647.6  | 513.2  | 342.9  | 248.3  | 392.2  |
| 82  | 218.2  | 315.1  | 481.0  | 620.2  | 670.2  | 622.0  | 483.3  | 313.7  | 214.1  | 359.8  |
| 83  | 186.4  | 283.7  | 450.7  | 590.7  | 636.2  | 586.4  | 453.1  | 282.8  | 182.1  | 327.7  |
| 84  | 154.1  | 255.3  | 420.0  | 559.7  | 605.8  | 558.4  | 422.8  | 252.1  | 149.6  | 298.2  |
| 85  | 125.7  | 224.6  | 393.9  | 529.9  | 575.1  | 528.6  | 394.6  | 224.8  | 121.7  | 269.2  |
| 86  | 99.1   | 200.1  | 367.8  | 498.8  | 550.1  | 500.6  | 368.0  | 200.1  | 96.5   | 241.2  |
| 87  | 78.1   | 178.8  | 338.1  | 475.5  | 519.9  | 474.5  | 341.6  | 179.7  | 79.4   | 215.5  |
| 88  | 59.9   | 157.2  | 320.0  | 448.7  | 495.0  | 450.6  | 320.8  | 159.9  | 62.5   | 191.8  |
| 89  | 47.6   | 143.4  | 298.6  | 426.6  | 474.2  | 426.6  | 300.9  | 146.9  | 49.7   | 175.0  |
| 90  | 38.8   | 128.9  | 281.1  | 401.7  | 449.9  | 406.7  | 283.1  | 134.4  | 41.4   | 158.6  |
| 91  | 33.4   | 118.9  | 262.6  | 384.4  | 430.7  | 385.7  | 267.2  | 121.3  | 36.5   | 143.8  |
| 92  | 32.5   | 109.3  | 251.1  | 367.9  | 412.4  | 368.1  | 250.9  | 114.6  | 41.6   | 131.9  |
| 93  | 30.5   | 102.1  | 238.0  | 353.3  | 393.9  | 352.5  | 238.9  | 106.6  | 35.3   | 124.2  |
| 94  | 31.8   | 92.8   | 223.5  | 336.7  | 379.7  | 338.1  | 228.7  | 97.6   | 36.7   | 113.8  |
| 95  | 28.9   | 89.0   | 215.2  | 321.0  | 363.7  | 325.8  | 216.2  | 90.3   | 36.6   | 104.9  |
| 96  | 28.7   | 78.5   | 206.3  | 306.2  | 350.2  | 310.4  | 206.8  | 80.3   | 32.2   | 97.9   |
| 97  | 26.5   | 74.3   | 194.5  | 295.7  | 334.9  | 296.0  | 196.9  | 76.5   | 33.5   | 87.5   |
| 98  | 28.0   | 68.6   | 184.6  | 280.4  | 317.7  | 284.0  | 183.1  | 72.0   | 30.3   | 79.1   |
| 99  | 25.1   | 63.6   | 173.5  | 269.3  | 304.0  | 271.7  | 175.2  | 65.6   | 30.8   | 74.3   |
| 100 | 24.8   | 57.5   | 164.0  | 258.7  | 294.8  | 255.1  | 163.9  | 59.9   | 29.4   | 67.4   |
| 101 | 24.9   | 54.6   | 155.1  | 244.1  | 280.9  | 243.9  | 155.0  | 59.5   | 23.8   | 60.9   |
| 102 | 23.0   | 50.4   | 143.3  | 233.5  | 264.8  | 233.3  | 145.7  | 47.3   | 28.4   | 54.9   |
| 103 | 25.4   | 42.9   | 136.0  | 221.7  | 251.5  | 220.1  | 138.1  | 43.3   | 26.4   | 44.2   |
| 104 | 22.0   | 38.1   | 129.4  | 212.1  | 240.0  | 211.5  | 128.8  | 39.6   | 25.5   | 44.0   |
| 105 | 22.1   | 35.0   | 122.2  | 199.5  | 228.3  | 200.6  | 120.2  | 34.3   | 23.3   | 38.8   |
| 106 | 23.4   | 31.5   | 114.1  | 190.0  | 218.1  | 189.5  | 114.4  | 34.7   | 24.1   | 35.2   |
| 107 | 23.2   | 29.4   | 106.2  | 177.0  | 207.8  | 180.4  | 106.5  | 30.6   | 24.1   | 30.0   |
| 108 | 21.3   | 27.4   | 102.6  | 168.0  | 196.3  | 170.1  | 96.8   | 29.0   | 19.1   | 31.1   |
| 109 | 20.8   | 25.5   | 93.0   | 158.9  | 186.6  | 160.0  | 94.1   | 26.7   | 24.4   | 26.1   |

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**CANDELA TABULATION - (Cont.)**

|     |      |      |      |       |       |       |      |      |      |      |
|-----|------|------|------|-------|-------|-------|------|------|------|------|
| 110 | 18.9 | 24.9 | 84.8 | 152.5 | 174.1 | 149.5 | 85.6 | 24.7 | 23.6 | 23.6 |
| 111 | 20.5 | 22.1 | 72.5 | 141.4 | 167.2 | 142.7 | 78.4 | 21.4 | 21.3 | 22.6 |
| 112 | 18.4 | 21.4 | 62.1 | 132.6 | 157.5 | 132.4 | 65.9 | 21.4 | 19.7 | 19.6 |
| 113 | 18.5 | 19.6 | 52.6 | 125.2 | 146.7 | 124.1 | 58.1 | 20.8 | 21.6 | 22.4 |
| 114 | 17.4 | 20.1 | 46.3 | 118.6 | 140.3 | 118.2 | 52.4 | 21.6 | 19.4 | 20.3 |
| 115 | 18.9 | 19.5 | 42.6 | 109.4 | 130.1 | 111.5 | 48.9 | 21.1 | 18.6 | 18.4 |
| 116 | 16.9 | 16.7 | 39.2 | 103.0 | 121.4 | 98.2  | 44.1 | 18.8 | 17.5 | 18.0 |
| 117 | 20.0 | 19.8 | 34.7 | 91.3  | 114.4 | 86.0  | 42.0 | 16.9 | 18.7 | 17.7 |
| 118 | 16.5 | 18.0 | 33.7 | 81.2  | 107.0 | 79.5  | 38.5 | 17.8 | 18.7 | 16.6 |
| 119 | 17.0 | 15.5 | 30.1 | 68.4  | 92.5  | 65.7  | 36.4 | 15.5 | 17.3 | 16.7 |
| 120 | 20.3 | 16.6 | 27.5 | 61.4  | 81.9  | 62.6  | 31.7 | 16.1 | 14.8 | 15.3 |
| 121 | 16.4 | 17.0 | 24.1 | 55.3  | 68.2  | 55.5  | 29.2 | 14.8 | 17.2 | 19.9 |
| 122 | 17.2 | 17.0 | 22.5 | 51.3  | 63.5  | 55.2  | 27.7 | 16.5 | 18.9 | 16.4 |
| 123 | 14.6 | 17.0 | 21.7 | 46.3  | 59.0  | 48.7  | 25.9 | 16.7 | 15.5 | 16.8 |
| 124 | 15.0 | 15.7 | 21.6 | 42.5  | 57.2  | 43.4  | 24.3 | 17.4 | 14.4 | 15.4 |
| 125 | 18.1 | 14.5 | 17.5 | 37.0  | 51.4  | 41.7  | 19.8 | 14.8 | 16.2 | 13.0 |
| 126 | 16.1 | 17.2 | 15.8 | 31.1  | 46.0  | 38.9  | 19.7 | 15.3 | 15.6 | 14.9 |
| 127 | 15.2 | 17.5 | 15.9 | 29.3  | 40.3  | 33.7  | 14.9 | 13.2 | 13.0 | 15.0 |
| 128 | 15.2 | 15.1 | 15.1 | 28.6  | 40.2  | 30.8  | 15.4 | 15.8 | 14.6 | 15.2 |
| 129 | 16.5 | 16.3 | 15.0 | 25.1  | 35.0  | 26.7  | 16.6 | 18.8 | 15.3 | 13.5 |
| 130 | 16.0 | 14.3 | 15.4 | 20.7  | 30.8  | 21.6  | 15.9 | 14.9 | 14.5 | 13.7 |
| 131 | 13.2 | 14.0 | 16.4 | 19.0  | 28.1  | 22.5  | 15.7 | 16.4 | 13.5 | 14.2 |
| 132 | 15.4 | 16.0 | 14.3 | 18.7  | 24.2  | 20.0  | 15.4 | 12.8 | 14.3 | 16.3 |
| 133 | 15.7 | 16.8 | 13.7 | 14.7  | 25.4  | 18.1  | 13.8 | 15.5 | 15.6 | 15.5 |
| 134 | 14.7 | 14.1 | 15.2 | 12.6  | 18.9  | 15.4  | 15.6 | 15.0 | 16.4 | 15.3 |
| 135 | 14.8 | 17.3 | 15.7 | 14.6  | 17.7  | 13.3  | 12.2 | 16.8 | 14.4 | 14.0 |
| 136 | 15.8 | 15.9 | 14.2 | 11.5  | 16.4  | 15.1  | 15.7 | 14.8 | 13.9 | 16.8 |
| 137 | 14.7 | 17.7 | 14.7 | 13.6  | 14.9  | 14.2  | 15.0 | 15.5 | 14.1 | 14.0 |
| 138 | 15.8 | 18.9 | 16.2 | 11.9  | 15.6  | 15.0  | 16.6 | 15.0 | 13.9 | 18.0 |
| 139 | 17.0 | 14.3 | 13.9 | 13.6  | 11.7  | 14.4  | 13.9 | 15.0 | 12.7 | 15.0 |
| 140 | 15.0 | 16.6 | 16.2 | 11.2  | 13.9  | 14.9  | 13.5 | 14.8 | 13.8 | 14.8 |
| 141 | 15.8 | 17.0 | 15.9 | 10.4  | 10.6  | 13.1  | 16.3 | 14.3 | 15.9 | 12.4 |
| 142 | 17.9 | 15.5 | 16.5 | 11.5  | 11.4  | 13.5  | 12.7 | 14.1 | 16.4 | 12.1 |
| 143 | 17.5 | 17.7 | 16.0 | 10.9  | 13.0  | 11.7  | 15.5 | 13.2 | 15.7 | 16.3 |
| 144 | 16.7 | 16.9 | 13.9 | 10.5  | 12.1  | 13.4  | 15.3 | 15.1 | 17.1 | 15.6 |
| 145 | 17.3 | 16.2 | 14.6 | 11.0  | 11.6  | 12.5  | 12.9 | 14.5 | 14.8 | 16.6 |
| 146 | 18.1 | 18.3 | 15.3 | 9.7   | 12.8  | 12.2  | 12.7 | 14.0 | 18.2 | 15.8 |
| 147 | 18.1 | 17.8 | 14.8 | 10.9  | 11.2  | 12.2  | 15.6 | 13.2 | 18.3 | 15.1 |
| 148 | 18.6 | 18.1 | 15.4 | 10.3  | 13.6  | 12.3  | 14.3 | 16.6 | 17.3 | 15.5 |
| 149 | 17.0 | 18.4 | 15.7 | 11.3  | 12.5  | 12.0  | 16.2 | 17.4 | 17.2 | 16.4 |
| 150 | 17.8 | 17.6 | 16.7 | 11.4  | 12.4  | 14.2  | 13.2 | 16.7 | 17.9 | 17.8 |
| 151 | 17.8 | 17.5 | 15.5 | 10.8  | 10.7  | 10.7  | 15.2 | 17.9 | 17.8 | 16.2 |
| 152 | 18.3 | 19.8 | 17.4 | 12.0  | 10.6  | 13.5  | 15.3 | 15.6 | 17.9 | 16.9 |
| 153 | 20.0 | 19.0 | 15.6 | 9.0   | 11.0  | 13.1  | 15.5 | 14.4 | 15.5 | 15.5 |
| 154 | 19.9 | 22.2 | 18.6 | 11.8  | 12.5  | 12.4  | 14.3 | 16.1 | 16.9 | 17.8 |
| 155 | 19.4 | 16.7 | 15.6 | 12.4  | 10.0  | 12.7  | 16.9 | 17.1 | 17.0 | 16.2 |
| 156 | 18.8 | 18.7 | 17.0 | 11.2  | 12.1  | 11.9  | 16.1 | 18.1 | 18.2 | 16.0 |
| 157 | 19.6 | 20.2 | 16.9 | 14.2  | 13.1  | 11.8  | 17.0 | 19.8 | 19.2 | 16.3 |
| 158 | 20.0 | 18.7 | 18.7 | 13.9  | 9.9   | 15.7  | 14.8 | 18.6 | 18.7 | 17.4 |
| 159 | 21.5 | 19.8 | 16.7 | 15.0  | 11.7  | 13.0  | 17.9 | 19.7 | 19.4 | 18.1 |
| 160 | 21.8 | 19.8 | 16.7 | 13.0  | 12.3  | 15.4  | 17.6 | 19.9 | 20.8 | 18.8 |
| 161 | 21.4 | 19.6 | 19.8 | 15.1  | 12.5  | 15.2  | 17.8 | 20.7 | 20.1 | 18.8 |
| 162 | 19.1 | 21.5 | 17.2 | 13.0  | 12.4  | 14.9  | 17.5 | 17.4 | 18.8 | 18.9 |
| 163 | 22.8 | 20.7 | 18.5 | 10.8  | 10.6  | 15.0  | 17.5 | 19.2 | 20.9 | 18.8 |
| 164 | 21.8 | 19.9 | 17.9 | 14.4  | 13.7  | 12.7  | 17.1 | 20.1 | 21.2 | 21.3 |
| 165 | 23.6 | 19.7 | 17.9 | 13.2  | 12.7  | 16.5  | 18.9 | 19.0 | 20.7 | 17.0 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES**

**CANDELA TABULATION - (Cont.)**

|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 166 | 23.0 | 20.7 | 20.8 | 13.1 | 14.2 | 14.3 | 18.7 | 21.6 | 20.0 | 18.9 |
| 167 | 24.1 | 21.8 | 20.0 | 15.3 | 12.2 | 14.0 | 15.2 | 21.6 | 20.9 | 19.7 |
| 168 | 21.8 | 24.3 | 20.7 | 14.9 | 13.2 | 14.5 | 18.7 | 23.5 | 20.7 | 19.9 |
| 169 | 24.3 | 20.6 | 19.0 | 15.0 | 11.7 | 15.4 | 21.5 | 21.9 | 21.3 | 22.7 |
| 170 | 25.8 | 22.3 | 20.2 | 15.9 | 11.2 | 14.6 | 19.4 | 21.8 | 23.6 | 20.5 |
| 171 | 22.8 | 23.6 | 19.1 | 14.3 | 12.6 | 15.4 | 18.6 | 21.2 | 22.5 | 20.2 |
| 172 | 23.1 | 25.7 | 17.6 | 14.7 | 13.6 | 16.2 | 18.8 | 18.9 | 24.1 | 21.6 |
| 173 | 24.5 | 24.2 | 19.6 | 17.2 | 10.9 | 15.3 | 19.9 | 22.3 | 22.6 | 22.7 |
| 174 | 24.9 | 23.6 | 18.6 | 14.9 | 12.9 | 15.0 | 17.4 | 21.8 | 23.6 | 21.4 |
| 175 | 23.6 | 23.9 | 21.2 | 19.2 | 13.4 | 16.1 | 20.0 | 20.9 | 22.9 | 22.6 |
| 176 | 23.1 | 23.8 | 21.9 | 16.3 | 13.4 | 14.0 | 18.3 | 23.8 | 20.5 | 20.7 |
| 177 | 25.2 | 24.7 | 20.6 | 17.0 | 13.2 | 16.0 | 17.9 | 23.5 | 21.5 | 21.5 |
| 178 | 22.5 | 24.8 | 21.2 | 15.8 | 14.0 | 16.3 | 20.5 | 23.1 | 22.4 | 22.4 |
| 179 | 25.1 | 23.7 | 19.8 | 16.2 | 14.7 | 15.9 | 18.1 | 22.6 | 20.9 | 24.4 |
| 180 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 |

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

|    | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0  | 3123.1       | 3123.1       | 3123.1       | 3123.1       | 3123.1       | 3123.1       | 3123.1       |
| 1  | 3112.2       | 3138.5       | 3142.5       | 3128.7       | 3112.6       | 3111.1       | 3108.8       |
| 2  | 3106.0       | 3137.9       | 3144.2       | 3139.0       | 3126.6       | 3115.7       | 3108.1       |
| 3  | 3100.8       | 3128.7       | 3143.9       | 3147.5       | 3136.3       | 3120.8       | 3106.4       |
| 4  | 3087.4       | 3121.0       | 3137.1       | 3149.1       | 3144.3       | 3123.9       | 3107.2       |
| 5  | 3073.2       | 3106.3       | 3124.7       | 3154.6       | 3145.3       | 3121.7       | 3099.6       |
| 6  | 3061.8       | 3095.4       | 3115.1       | 3144.6       | 3139.1       | 3118.9       | 3093.6       |
| 7  | 3050.8       | 3082.6       | 3105.1       | 3138.0       | 3134.3       | 3111.0       | 3089.4       |
| 8  | 3041.4       | 3072.2       | 3095.1       | 3125.1       | 3127.2       | 3104.5       | 3079.4       |
| 9  | 3031.3       | 3063.8       | 3081.6       | 3105.7       | 3109.8       | 3092.0       | 3067.5       |
| 10 | 3024.2       | 3050.6       | 3067.9       | 3088.2       | 3092.5       | 3075.3       | 3054.9       |
| 11 | 3016.3       | 3033.5       | 3053.8       | 3062.6       | 3070.4       | 3056.9       | 3038.5       |
| 12 | 3011.2       | 3021.7       | 3034.5       | 3041.2       | 3045.8       | 3035.1       | 3022.9       |
| 13 | 3001.3       | 3012.0       | 3018.5       | 3019.1       | 3019.4       | 3013.2       | 3003.9       |
| 14 | 2987.9       | 3002.5       | 2999.0       | 2997.2       | 2994.7       | 2987.7       | 2982.1       |
| 15 | 2971.6       | 2989.8       | 2978.3       | 2976.0       | 2969.3       | 2966.3       | 2962.1       |
| 16 | 2953.2       | 2976.5       | 2957.6       | 2951.5       | 2942.5       | 2939.7       | 2939.0       |
| 17 | 2927.3       | 2955.9       | 2938.6       | 2927.3       | 2909.5       | 2913.0       | 2915.2       |
| 18 | 2901.7       | 2929.9       | 2916.3       | 2901.4       | 2882.5       | 2880.4       | 2888.9       |
| 19 | 2870.8       | 2901.2       | 2893.6       | 2875.4       | 2853.2       | 2851.3       | 2857.2       |
| 20 | 2840.5       | 2865.7       | 2865.7       | 2850.6       | 2826.0       | 2819.6       | 2830.7       |
| 21 | 2811.6       | 2828.7       | 2838.8       | 2821.9       | 2798.9       | 2792.3       | 2798.2       |
| 22 | 2781.4       | 2796.7       | 2810.0       | 2798.2       | 2774.0       | 2764.0       | 2770.3       |
| 23 | 2749.1       | 2767.9       | 2781.3       | 2770.3       | 2748.6       | 2734.5       | 2737.4       |
| 24 | 2720.0       | 2737.7       | 2746.9       | 2743.0       | 2722.2       | 2705.2       | 2711.0       |
| 25 | 2687.0       | 2707.9       | 2714.8       | 2716.7       | 2696.3       | 2677.0       | 2676.9       |
| 26 | 2654.1       | 2677.8       | 2682.4       | 2686.3       | 2666.1       | 2645.5       | 2644.5       |
| 27 | 2621.6       | 2649.7       | 2655.0       | 2653.0       | 2636.4       | 2614.6       | 2612.1       |
| 28 | 2591.6       | 2619.1       | 2623.1       | 2620.8       | 2605.4       | 2580.8       | 2575.0       |
| 29 | 2559.4       | 2588.4       | 2593.6       | 2587.2       | 2569.1       | 2545.3       | 2538.2       |
| 30 | 2526.2       | 2560.8       | 2561.3       | 2554.6       | 2538.2       | 2509.0       | 2500.4       |
| 31 | 2498.1       | 2532.3       | 2531.8       | 2519.9       | 2500.6       | 2472.0       | 2460.7       |
| 32 | 2467.9       | 2500.5       | 2506.7       | 2488.4       | 2463.5       | 2432.0       | 2424.9       |
| 33 | 2433.4       | 2470.5       | 2472.5       | 2459.4       | 2427.4       | 2392.4       | 2384.9       |
| 34 | 2400.2       | 2441.7       | 2444.7       | 2427.0       | 2390.8       | 2359.8       | 2347.6       |
| 35 | 2365.2       | 2412.1       | 2413.7       | 2391.8       | 2353.4       | 2321.8       | 2307.6       |
| 36 | 2330.3       | 2377.7       | 2380.9       | 2358.5       | 2314.0       | 2279.9       | 2268.6       |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES**

**CANDELA TABULATION - (Cont.)**

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| 37 | 2287.5 | 2342.7 | 2351.6 | 2330.2 | 2278.8 | 2238.9 | 2228.1 |
| 38 | 2248.8 | 2306.7 | 2318.8 | 2299.6 | 2240.8 | 2202.3 | 2186.5 |
| 39 | 2205.3 | 2265.8 | 2282.5 | 2262.3 | 2201.5 | 2157.9 | 2144.6 |
| 40 | 2161.6 | 2223.7 | 2247.1 | 2227.6 | 2164.2 | 2114.8 | 2099.2 |
| 41 | 2120.8 | 2187.1 | 2209.7 | 2189.8 | 2123.8 | 2072.7 | 2057.3 |
| 42 | 2080.2 | 2146.2 | 2170.5 | 2150.2 | 2087.5 | 2029.1 | 2009.2 |
| 43 | 2035.0 | 2108.5 | 2135.5 | 2110.0 | 2042.7 | 1988.4 | 1962.3 |
| 44 | 1995.6 | 2071.8 | 2096.6 | 2073.5 | 2007.2 | 1944.0 | 1913.8 |
| 45 | 1957.9 | 2031.8 | 2059.1 | 2030.2 | 1962.7 | 1902.9 | 1872.3 |
| 46 | 1920.3 | 1994.1 | 2025.0 | 1993.2 | 1920.5 | 1857.3 | 1828.8 |
| 47 | 1882.4 | 1959.7 | 1988.1 | 1955.7 | 1876.1 | 1813.5 | 1783.0 |
| 48 | 1840.7 | 1925.1 | 1952.9 | 1915.8 | 1834.5 | 1773.3 | 1738.3 |
| 49 | 1804.3 | 1887.1 | 1918.4 | 1879.6 | 1795.9 | 1726.7 | 1690.9 |
| 50 | 1771.0 | 1853.9 | 1881.1 | 1838.8 | 1755.9 | 1681.5 | 1648.6 |
| 51 | 1730.5 | 1820.6 | 1846.8 | 1807.1 | 1712.7 | 1639.2 | 1602.4 |
| 52 | 1692.0 | 1789.0 | 1813.0 | 1773.0 | 1670.4 | 1594.0 | 1554.9 |
| 53 | 1652.3 | 1752.4 | 1780.2 | 1736.5 | 1629.5 | 1549.7 | 1508.7 |
| 54 | 1608.4 | 1712.6 | 1742.2 | 1699.9 | 1589.5 | 1500.1 | 1464.9 |
| 55 | 1566.9 | 1674.0 | 1705.8 | 1663.1 | 1549.3 | 1456.0 | 1412.4 |
| 56 | 1525.4 | 1634.7 | 1667.4 | 1624.1 | 1507.7 | 1409.5 | 1363.3 |
| 57 | 1484.3 | 1593.5 | 1626.4 | 1583.0 | 1467.1 | 1362.9 | 1313.7 |
| 58 | 1441.0 | 1552.1 | 1586.5 | 1542.1 | 1425.6 | 1314.0 | 1263.6 |
| 59 | 1399.8 | 1512.7 | 1546.5 | 1502.3 | 1384.7 | 1269.4 | 1211.3 |
| 60 | 1359.8 | 1470.0 | 1509.3 | 1464.2 | 1347.2 | 1221.9 | 1164.9 |
| 61 | 1316.0 | 1431.2 | 1467.6 | 1424.7 | 1303.4 | 1183.8 | 1115.2 |
| 62 | 1275.5 | 1393.0 | 1430.9 | 1384.5 | 1263.1 | 1134.8 | 1065.0 |
| 63 | 1235.1 | 1354.0 | 1391.5 | 1347.2 | 1222.6 | 1094.0 | 1020.2 |
| 64 | 1193.8 | 1315.0 | 1353.4 | 1310.5 | 1182.8 | 1050.3 | 972.1  |
| 65 | 1152.7 | 1278.6 | 1318.3 | 1271.8 | 1147.3 | 1007.1 | 927.0  |
| 66 | 1114.1 | 1241.1 | 1278.5 | 1236.3 | 1106.0 | 965.4  | 880.5  |
| 67 | 1074.8 | 1198.9 | 1241.3 | 1197.0 | 1070.0 | 924.9  | 837.3  |
| 68 | 1034.8 | 1164.8 | 1205.2 | 1160.7 | 1030.0 | 881.6  | 792.3  |
| 69 | 994.4  | 1125.5 | 1166.0 | 1124.6 | 993.8  | 839.9  | 747.7  |
| 70 | 954.7  | 1087.6 | 1131.8 | 1088.9 | 953.9  | 800.1  | 704.2  |
| 71 | 918.4  | 1049.0 | 1094.3 | 1051.8 | 921.6  | 760.1  | 658.3  |
| 72 | 879.7  | 1011.5 | 1056.6 | 1017.0 | 883.7  | 718.8  | 614.9  |
| 73 | 844.4  | 976.3  | 1022.0 | 982.1  | 844.9  | 680.5  | 569.1  |
| 74 | 808.1  | 942.0  | 985.4  | 943.0  | 810.1  | 640.2  | 527.6  |
| 75 | 772.0  | 905.5  | 950.3  | 909.8  | 777.5  | 603.5  | 484.8  |
| 76 | 740.0  | 870.6  | 918.0  | 875.7  | 745.1  | 566.8  | 443.7  |
| 77 | 708.7  | 837.5  | 887.3  | 843.9  | 710.2  | 534.4  | 402.4  |
| 78 | 672.9  | 809.2  | 853.7  | 810.5  | 678.5  | 499.1  | 363.5  |
| 79 | 641.6  | 776.7  | 821.9  | 780.5  | 643.8  | 463.9  | 326.2  |
| 80 | 607.5  | 744.8  | 789.8  | 748.8  | 615.7  | 428.4  | 290.9  |
| 81 | 576.6  | 713.9  | 760.8  | 715.8  | 581.2  | 398.7  | 255.5  |
| 82 | 545.9  | 682.8  | 727.8  | 685.7  | 554.6  | 367.9  | 219.7  |
| 83 | 513.9  | 651.7  | 695.9  | 654.0  | 522.6  | 335.7  | 186.4  |
| 84 | 483.6  | 620.9  | 665.9  | 623.2  | 494.8  | 303.7  | 156.7  |
| 85 | 454.5  | 593.7  | 637.2  | 594.8  | 464.8  | 275.9  | 126.0  |
| 86 | 428.2  | 562.4  | 604.7  | 565.0  | 438.0  | 249.8  | 100.4  |
| 87 | 401.9  | 534.6  | 580.4  | 535.8  | 407.8  | 224.4  | 78.7   |
| 88 | 376.9  | 510.2  | 554.5  | 510.3  | 383.4  | 201.6  | 61.0   |
| 89 | 355.5  | 485.2  | 526.1  | 485.4  | 362.1  | 181.4  | 46.8   |
| 90 | 337.4  | 462.6  | 504.9  | 462.8  | 341.8  | 161.9  | 40.0   |
| 91 | 315.4  | 439.7  | 481.6  | 442.3  | 322.5  | 147.3  | 32.5   |
| 92 | 300.4  | 420.6  | 460.4  | 421.1  | 302.9  | 136.2  | 31.0   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES**

**CANDELA TABULATION - (Cont.)**

|     |       |       |       |       |       |       |      |
|-----|-------|-------|-------|-------|-------|-------|------|
| 93  | 282.4 | 401.6 | 440.8 | 401.7 | 288.2 | 124.7 | 32.6 |
| 94  | 268.6 | 384.5 | 422.1 | 385.5 | 273.6 | 117.5 | 32.1 |
| 95  | 253.7 | 367.1 | 406.1 | 367.2 | 257.3 | 103.8 | 28.2 |
| 96  | 240.6 | 351.3 | 386.8 | 351.2 | 241.9 | 97.2  | 30.2 |
| 97  | 228.5 | 333.5 | 368.7 | 334.2 | 229.4 | 90.0  | 26.6 |
| 98  | 213.8 | 320.6 | 354.6 | 320.0 | 217.4 | 83.3  | 26.8 |
| 99  | 200.4 | 303.9 | 338.6 | 305.6 | 205.4 | 76.2  | 26.8 |
| 100 | 189.8 | 288.9 | 319.7 | 289.4 | 194.2 | 68.7  | 26.7 |
| 101 | 180.5 | 275.2 | 305.6 | 275.0 | 180.7 | 61.2  | 25.0 |
| 102 | 167.0 | 258.0 | 294.0 | 260.5 | 170.5 | 54.4  | 24.1 |
| 103 | 156.8 | 246.1 | 277.4 | 247.1 | 160.8 | 44.6  | 26.2 |
| 104 | 148.2 | 231.6 | 263.3 | 233.4 | 150.3 | 39.0  | 23.4 |
| 105 | 138.4 | 220.0 | 250.8 | 222.6 | 140.6 | 36.5  | 22.5 |
| 106 | 128.7 | 207.0 | 236.6 | 208.5 | 131.5 | 37.1  | 20.7 |
| 107 | 119.0 | 195.6 | 222.9 | 198.9 | 123.9 | 31.2  | 22.8 |
| 108 | 111.4 | 184.3 | 211.6 | 189.2 | 112.5 | 28.4  | 20.5 |
| 109 | 102.3 | 174.3 | 201.6 | 177.6 | 105.6 | 25.7  | 20.9 |
| 110 | 91.4  | 163.0 | 192.0 | 166.1 | 97.0  | 26.0  | 20.3 |
| 111 | 77.8  | 154.3 | 180.3 | 156.2 | 87.1  | 25.0  | 21.0 |
| 112 | 65.5  | 144.4 | 167.9 | 145.9 | 73.4  | 21.5  | 19.5 |
| 113 | 55.3  | 137.5 | 156.6 | 137.9 | 64.2  | 18.9  | 17.6 |
| 114 | 48.0  | 129.5 | 151.1 | 129.3 | 55.9  | 18.3  | 19.3 |
| 115 | 47.3  | 117.2 | 139.3 | 121.0 | 53.7  | 17.9  | 19.7 |
| 116 | 38.9  | 106.9 | 130.9 | 110.9 | 48.1  | 19.7  | 18.4 |
| 117 | 37.2  | 94.8  | 120.5 | 101.0 | 45.3  | 18.8  | 17.4 |
| 118 | 33.6  | 82.1  | 108.9 | 84.4  | 41.3  | 18.3  | 18.3 |
| 119 | 31.7  | 71.3  | 98.6  | 73.4  | 40.4  | 17.3  | 16.8 |
| 120 | 26.9  | 65.9  | 85.7  | 64.8  | 34.0  | 19.2  | 15.6 |
| 121 | 25.8  | 58.4  | 71.5  | 58.8  | 32.0  | 16.9  | 16.2 |
| 122 | 24.3  | 54.5  | 66.8  | 55.8  | 30.0  | 17.9  | 18.1 |
| 123 | 20.8  | 48.1  | 62.5  | 51.9  | 25.4  | 16.3  | 16.4 |
| 124 | 19.8  | 42.6  | 54.8  | 47.7  | 24.0  | 16.7  | 16.0 |
| 125 | 15.1  | 39.3  | 52.9  | 42.2  | 20.7  | 16.6  | 16.2 |
| 126 | 17.4  | 37.2  | 47.1  | 38.6  | 18.6  | 17.5  | 16.3 |
| 127 | 15.6  | 28.4  | 43.6  | 36.2  | 19.0  | 16.8  | 15.4 |
| 128 | 14.1  | 28.1  | 37.6  | 32.9  | 16.7  | 14.2  | 18.0 |
| 129 | 12.3  | 25.8  | 35.0  | 28.8  | 16.3  | 14.3  | 15.7 |
| 130 | 12.8  | 24.2  | 31.7  | 27.6  | 14.8  | 17.6  | 17.3 |
| 131 | 10.7  | 16.9  | 27.2  | 23.6  | 17.4  | 15.9  | 15.8 |
| 132 | 12.1  | 16.5  | 28.1  | 20.9  | 15.5  | 15.1  | 12.7 |
| 133 | 11.4  | 13.2  | 25.5  | 18.9  | 15.0  | 16.3  | 14.7 |
| 134 | 12.2  | 15.7  | 21.7  | 14.5  | 16.2  | 15.3  | 14.8 |
| 135 | 10.8  | 9.2   | 20.5  | 15.8  | 15.9  | 16.3  | 15.5 |
| 136 | 13.2  | 12.6  | 16.5  | 15.2  | 15.6  | 16.0  | 17.8 |
| 137 | 11.3  | 11.2  | 14.0  | 13.6  | 16.7  | 16.9  | 14.7 |
| 138 | 14.7  | 9.8   | 14.2  | 15.5  | 19.7  | 15.9  | 15.5 |
| 139 | 14.6  | 13.9  | 11.5  | 13.1  | 14.0  | 15.8  | 17.7 |
| 140 | 12.9  | 10.8  | 11.6  | 15.7  | 15.6  | 15.5  | 17.5 |
| 141 | 15.0  | 11.3  | 12.6  | 14.7  | 15.5  | 16.2  | 17.7 |
| 142 | 11.1  | 9.7   | 10.8  | 12.4  | 13.1  | 16.2  | 16.8 |
| 143 | 13.0  | 11.7  | 13.6  | 14.2  | 14.5  | 16.6  | 17.0 |
| 144 | 15.5  | 9.4   | 12.5  | 13.1  | 14.8  | 15.9  | 18.0 |
| 145 | 13.6  | 11.4  | 11.4  | 13.6  | 15.4  | 17.8  | 18.2 |
| 146 | 12.5  | 11.1  | 12.1  | 14.2  | 14.9  | 15.9  | 17.9 |
| 147 | 12.3  | 10.7  | 11.8  | 13.0  | 14.4  | 18.1  | 17.3 |
| 148 | 12.9  | 10.7  | 10.8  | 12.7  | 14.9  | 16.3  | 16.3 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES

CANDELA TABULATION - (Cont.)

|     |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|
| 149 | 14.1 | 8.2  | 13.1 | 15.4 | 13.7 | 15.6 | 18.0 |
| 150 | 14.0 | 8.7  | 11.0 | 14.7 | 14.2 | 16.9 | 17.1 |
| 151 | 12.9 | 8.9  | 11.8 | 12.6 | 17.0 | 18.1 | 18.2 |
| 152 | 13.7 | 9.7  | 10.6 | 10.3 | 16.1 | 17.3 | 19.7 |
| 153 | 14.3 | 11.7 | 11.5 | 13.8 | 15.1 | 17.8 | 18.5 |
| 154 | 13.2 | 9.5  | 10.6 | 12.6 | 13.9 | 19.8 | 19.6 |
| 155 | 15.8 | 10.3 | 10.9 | 12.3 | 17.1 | 17.8 | 21.1 |
| 156 | 13.9 | 12.5 | 12.3 | 11.9 | 14.7 | 18.9 | 20.8 |
| 157 | 14.1 | 13.0 | 9.5  | 13.4 | 18.1 | 19.2 | 20.5 |
| 158 | 14.3 | 11.3 | 11.5 | 14.7 | 16.8 | 19.3 | 20.3 |
| 159 | 15.7 | 12.0 | 10.2 | 14.8 | 18.6 | 18.7 | 20.5 |
| 160 | 15.4 | 9.5  | 12.6 | 14.9 | 17.1 | 21.0 | 19.6 |
| 161 | 17.0 | 12.7 | 11.5 | 14.2 | 16.9 | 19.9 | 20.4 |
| 162 | 15.5 | 13.4 | 10.8 | 15.6 | 17.1 | 18.3 | 19.4 |
| 163 | 16.3 | 13.7 | 12.2 | 15.0 | 19.7 | 21.5 | 23.8 |
| 164 | 17.6 | 15.1 | 10.5 | 17.1 | 18.0 | 23.0 | 23.2 |
| 165 | 18.2 | 12.7 | 11.3 | 13.6 | 18.8 | 21.8 | 22.3 |
| 166 | 18.3 | 12.7 | 13.3 | 14.3 | 19.6 | 22.9 | 20.6 |
| 167 | 17.5 | 13.4 | 13.3 | 15.8 | 19.6 | 22.4 | 25.0 |
| 168 | 18.6 | 13.5 | 14.8 | 16.3 | 22.1 | 23.5 | 24.7 |
| 169 | 16.8 | 15.7 | 14.8 | 14.2 | 18.7 | 24.7 | 23.4 |
| 170 | 17.1 | 14.3 | 12.8 | 15.2 | 17.6 | 22.0 | 24.6 |
| 171 | 16.4 | 14.6 | 11.6 | 15.4 | 19.6 | 23.2 | 24.1 |
| 172 | 18.1 | 15.9 | 15.3 | 13.3 | 19.5 | 21.1 | 24.4 |
| 173 | 17.8 | 16.5 | 14.1 | 15.1 | 20.6 | 20.7 | 23.1 |
| 174 | 19.9 | 14.8 | 12.1 | 15.2 | 17.0 | 23.9 | 23.4 |
| 175 | 19.4 | 15.5 | 12.3 | 16.3 | 19.3 | 21.8 | 24.5 |
| 176 | 17.7 | 16.2 | 13.7 | 18.6 | 18.0 | 23.1 | 20.5 |
| 177 | 19.4 | 15.8 | 13.1 | 18.4 | 23.3 | 22.3 | 23.8 |
| 178 | 17.9 | 16.3 | 15.2 | 18.8 | 23.8 | 22.1 | 23.0 |
| 179 | 19.6 | 14.3 | 14.2 | 18.9 | 23.0 | 24.0 | 23.2 |
| 180 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1134.14 | N.A.  | 11.80  |
| 0-30    | 2379.15 | N.A.  | 24.80  |
| 0-40    | 3858.62 | N.A.  | 40.20  |
| 0-60    | 6760.33 | N.A.  | 70.50  |
| 0-80    | 8642.34 | N.A.  | 90.10  |
| 0-90    | 9086.66 | N.A.  | 94.70  |
| 10-90   | 8790.94 | N.A.  | 91.60  |
| 20-40   | 2724.48 | N.A.  | 28.40  |
| 20-50   | 4240.46 | N.A.  | 44.20  |
| 40-70   | 4012.28 | N.A.  | 41.80  |
| 60-80   | 1882.01 | N.A.  | 19.60  |
| 70-80   | 771.44  | N.A.  | 8.00   |
| 80-90   | 444.32  | N.A.  | 4.60   |
| 90-110  | 380.97  | N.A.  | 4.00   |
| 90-120  | 445.76  | N.A.  | 4.60   |
| 90-130  | 471.06  | N.A.  | 4.90   |
| 90-150  | 492.26  | N.A.  | 5.10   |
| 90-180  | 506.05  | N.A.  | 5.30   |
| 110-180 | 125.08  | N.A.  | 1.30   |
| 0-180   | 9592.72 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 295.73  |
| 10-20   | 838.41  |
| 20-30   | 1245.01 |
| 30-40   | 1479.47 |
| 40-50   | 1515.98 |
| 50-60   | 1385.73 |
| 60-70   | 1110.57 |
| 70-80   | 771.44  |
| 80-90   | 444.32  |
| 90-100  | 244.27  |
| 100-110 | 136.70  |
| 110-120 | 64.78   |
| 120-130 | 25.30   |
| 130-140 | 12.27   |
| 140-150 | 8.93    |
| 150-160 | 7.05    |
| 160-170 | 4.95    |
| 170-180 | 1.79    |

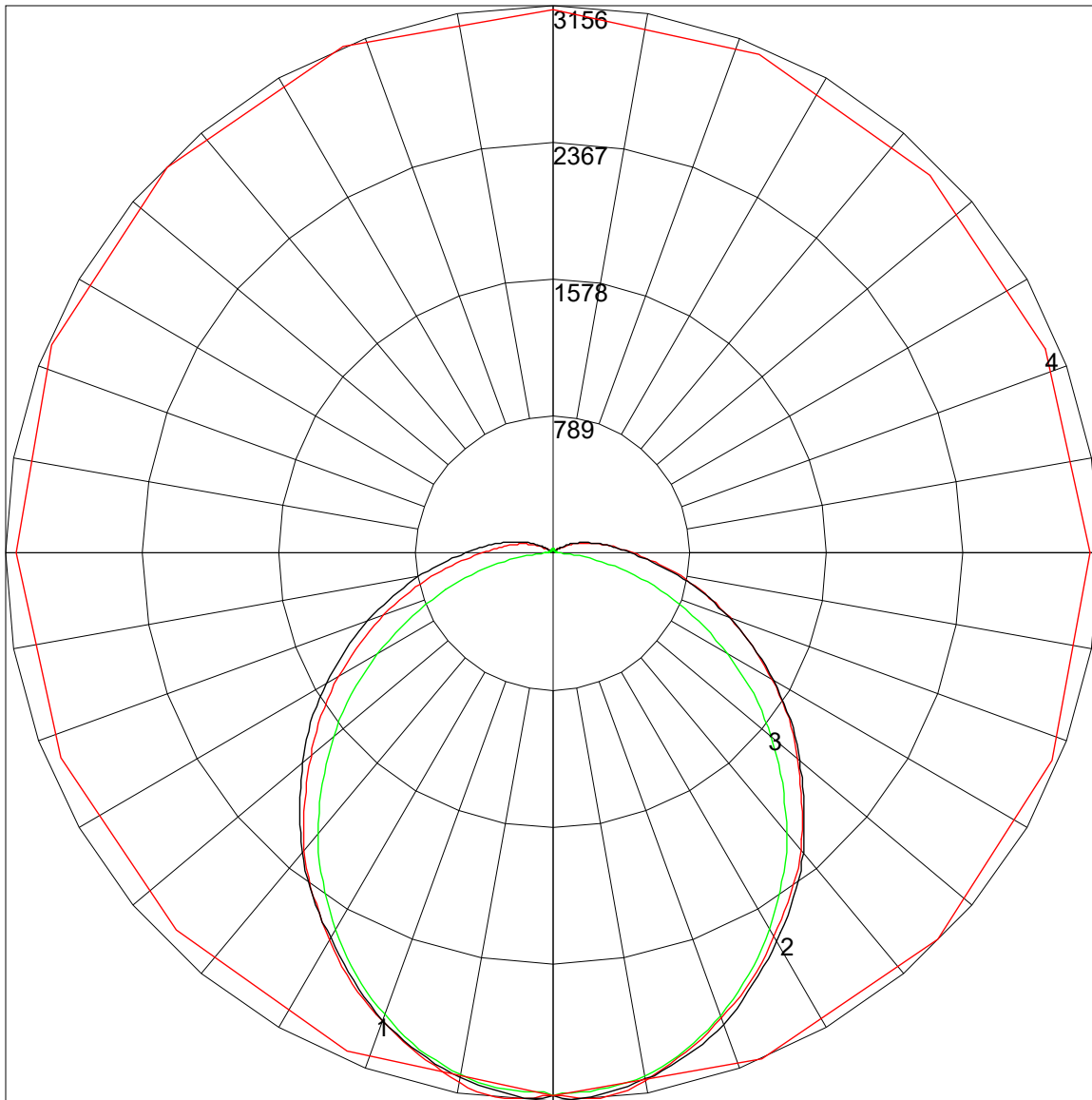
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VTLED75-4A-50K.IES**

**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 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1  | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 89  | 86  | 88  | 85  | 82  | 83 | 81 | 79 | 77 |
| 2  | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 73  | 81  | 75  | 70  | 76  | 72  | 68  | 73 | 69 | 66 | 63 |
| 3  | 88  | 77  | 68  | 61  | 85  | 75  | 67  | 60  | 71  | 64  | 59  | 67  | 62  | 57  | 64 | 59 | 55 | 53 |
| 4  | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 56  | 50  | 60  | 54  | 49  | 57 | 52 | 47 | 45 |
| 5  | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 51 | 46 | 41 | 39 |
| 6  | 68  | 54  | 45  | 39  | 66  | 53  | 45  | 38  | 51  | 43  | 38  | 49  | 42  | 37  | 47 | 41 | 36 | 34 |
| 7  | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 42 | 37 | 32 | 30 |
| 8  | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |
| 9  | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10 | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 34 | 28 | 24 | 22 |

POLAR GRAPH



Maximum Candela = 3156.4 Located At Horizontal Angle = 112.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)