



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L70-750-WF\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]ATAL009603-R2  
 [TESTLAB]ATAL-LABS  
 [ISSUE DATE]29 NOV 2022  
 [MANUFACTURER]WILLIAMS OUTDOOR  
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMEN CATEGORY]VF2-L70-750-WF-MTG-CLR-OPT-DIM-UNV  
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH WIDE  
 [MORE]FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR GLASS  
 [MORE]LENS.  
 [LAMP CATEGORY]LUXEON TX 5000K LEDS  
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER  
 [OTHER]INPUT WATTS: 55, AMPS: 0.4428, VAC: 120.03, TEMP: 25.2 C  
 [SEARCH\_SOURCE TYPE] LED  
 [SEARCH\_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location  
 [SEARCH\_MOUNTING] Arm, Ground, Pole, Post Top, Wall  
 [SEARCH\_CERTIFICATION] DLC  
 [SEARCH\_CLASSIFICATION] IP66

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

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 7023               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 128                |
| Total Luminaire Watts           | 55                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 2.06               |
| Spacing Criterion (90-270)      | 2.02               |
| Spacing Criterion (Diagonal)    | 1.76               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.00 ft            |
| Luminous Width (90-270)         | 0.69 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 107058           | 104929            | 103425            |
| 55                  | 50456            | 51622             | 52463             |
| 65                  | 20622            | 21113             | 19162             |
| 75                  | 15248            | 12275             | 12071             |
| 85                  | 0                | 4668              | 1887              |

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**CANDELA TABULATION**

|             | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>7.5</u> | <u>10.0</u> | <u>12.5</u> | <u>15.0</u> | <u>17.5</u> | <u>20.0</u> | <u>22.5</u> |
|-------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 1752.558   | 1752.558   | 1752.558   | 1752.558   | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    |
| <b>2.5</b>  | 1758.234   | 1758.227   | 1758.207   | 1758.173   | 1758.126    | 1758.066    | 1757.993    | 1757.906    | 1757.807    | 1757.695    |
| <b>5.0</b>  | 1782.358   | 1781.996   | 1781.531   | 1780.970   | 1780.316    | 1779.684    | 1781.158    | 1781.925    | 1782.543    | 1783.005    |
| <b>7.5</b>  | 1851.184   | 1849.739   | 1847.736   | 1845.197   | 1845.826    | 1846.133    | 1845.807    | 1844.836    | 1841.040    | 1842.022    |
| <b>10.0</b> | 1969.676   | 1966.073   | 1961.453   | 1960.829   | 1961.427    | 1961.057    | 1959.741    | 1957.504    | 1957.372    | 1955.835    |
| <b>12.5</b> | 2139.256   | 2133.212   | 2126.244   | 2127.533   | 2126.328    | 2123.345    | 2121.899    | 2123.367    | 2122.673    | 2119.760    |
| <b>15.0</b> | 2357.084   | 2349.430   | 2344.936   | 2344.735   | 2342.057    | 2340.377    | 2343.144    | 2343.410    | 2339.149    | 2343.132    |
| <b>17.5</b> | 2580.162   | 2574.397   | 2572.408   | 2571.358   | 2568.344    | 2573.506    | 2576.113    | 2574.216    | 2572.841    | 2570.270    |
| <b>20.0</b> | 2711.852   | 2717.371   | 2719.666   | 2721.200   | 2723.926    | 2728.319    | 2725.836    | 2721.139    | 2716.899    | 2712.948    |
| <b>22.5</b> | 2740.234   | 2737.370   | 2736.879   | 2736.389   | 2734.114    | 2732.285    | 2731.565    | 2732.269    | 2733.135    | 2734.549    |
| <b>25.0</b> | 2701.209   | 2698.697   | 2700.310   | 2702.294   | 2703.660    | 2705.054    | 2705.998    | 2706.606    | 2705.958    | 2704.902    |
| <b>27.5</b> | 2684.485   | 2683.459   | 2684.521   | 2685.587   | 2686.525    | 2686.912    | 2686.820    | 2685.093    | 2682.511    | 2678.288    |
| <b>30.0</b> | 2692.341   | 2692.434   | 2691.869   | 2691.016   | 2689.660    | 2687.434    | 2684.814    | 2684.339    | 2684.536    | 2683.310    |
| <b>32.5</b> | 2728.704   | 2729.398   | 2727.635   | 2727.040   | 2726.030    | 2723.720    | 2721.376    | 2718.659    | 2715.366    | 2711.095    |
| <b>35.0</b> | 2790.217   | 2790.228   | 2785.857   | 2781.229   | 2775.289    | 2768.465    | 2762.916    | 2758.528    | 2755.087    | 2751.881    |
| <b>37.5</b> | 2858.017   | 2857.248   | 2851.000   | 2841.380   | 2829.824    | 2818.511    | 2809.031    | 2800.707    | 2794.323    | 2788.572    |
| <b>40.0</b> | 2831.055   | 2828.297   | 2822.624   | 2814.943   | 2807.653    | 2801.620    | 2798.193    | 2797.880    | 2800.957    | 2809.733    |
| <b>42.5</b> | 2804.092   | 2798.158   | 2789.777   | 2779.120   | 2769.672    | 2758.660    | 2750.560    | 2741.179    | 2732.194    | 2732.682    |
| <b>45.0</b> | 2613.227   | 2607.362   | 2603.184   | 2594.814   | 2589.509    | 2580.278    | 2584.686    | 2587.431    | 2599.905    | 2624.715    |
| <b>47.5</b> | 2422.361   | 2414.962   | 2408.758   | 2392.213   | 2371.272    | 2345.891    | 2336.599    | 2321.957    | 2317.510    | 2312.985    |
| <b>50.0</b> | 1947.917   | 1944.728   | 1946.507   | 1944.480   | 1942.812    | 1943.075    | 1952.315    | 1959.761    | 1970.201    | 1969.279    |
| <b>52.5</b> | 1473.473   | 1471.411   | 1472.290   | 1470.961   | 1472.902    | 1478.409    | 1485.454    | 1491.949    | 1501.981    | 1507.060    |
| <b>55.0</b> | 999.029    | 998.068    | 998.260    | 998.124    | 1005.583    | 1014.157    | 1019.598    | 1024.703    | 1044.100    | 1060.621    |
| <b>57.5</b> | 824.482    | 821.706    | 815.306    | 804.370    | 795.363     | 779.642     | 754.370     | 720.800     | 704.018     | 675.752     |
| <b>60.0</b> | 649.937    | 648.500    | 645.466    | 640.068    | 636.724     | 626.836     | 610.625     | 590.080     | 580.334     | 559.935     |
| <b>62.5</b> | 475.390    | 475.363    | 476.241    | 476.796    | 479.343     | 476.875     | 470.455     | 463.275     | 460.069     | 450.616     |
| <b>65.0</b> | 300.844    | 302.290    | 307.562    | 314.440    | 323.104     | 328.116     | 334.423     | 340.100     | 344.551     | 346.017     |
| <b>67.5</b> | 259.691    | 260.239    | 261.900    | 263.018    | 265.330     | 263.249     | 263.855     | 264.245     | 263.914     | 262.804     |
| <b>70.0</b> | 218.538    | 219.303    | 220.411    | 220.509    | 222.729     | 220.123     | 220.036     | 220.372     | 219.570     | 217.426     |
| <b>72.5</b> | 177.384    | 178.377    | 178.861    | 178.161    | 179.986     | 177.153     | 175.870     | 176.804     | 175.171     | 171.895     |
| <b>75.0</b> | 136.231    | 137.458    | 137.259    | 135.820    | 137.135     | 134.308     | 131.426     | 133.485     | 130.735     | 126.250     |
| <b>77.5</b> | 102.173    | 103.451    | 103.870    | 103.144    | 103.540     | 101.641     | 98.307      | 100.042     | 96.337      | 90.860      |
| <b>80.0</b> | 68.116     | 69.470     | 70.711     | 70.892     | 71.070      | 70.525      | 68.308      | 69.674      | 67.398      | 63.905      |
| <b>82.5</b> | 34.058     | 35.480     | 37.586     | 38.581     | 38.791      | 39.370      | 38.598      | 39.683      | 38.822      | 37.345      |
| <b>85.0</b> | 0.000      | 1.483      | 4.481      | 6.227      | 6.646       | 8.180       | 9.091       | 9.839       | 10.486      | 11.062      |
| <b>87.5</b> | 0.000      | 0.710      | 2.133      | 2.862      | 2.882       | 3.447       | 3.672       | 3.719       | 3.775       | 3.839       |
| <b>90.0</b> | 0.000      | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |

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

|             | <u>25.0</u> | <u>27.5</u> | <u>30.0</u> | <u>32.5</u> | <u>35.0</u> | <u>37.5</u> | <u>40.0</u> | <u>42.5</u> | <u>45.0</u> | <u>47.5</u> |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    |
| <b>2.5</b>  | 1757.570    | 1758.070    | 1758.303    | 1758.502    | 1758.667    | 1758.796    | 1758.889    | 1758.945    | 1758.963    | 1758.945    |
| <b>5.0</b>  | 1783.306    | 1783.439    | 1783.402    | 1783.189    | 1782.799    | 1781.982    | 1782.681    | 1782.682    | 1782.466    | 1782.035    |
| <b>7.5</b>  | 1842.423    | 1843.259    | 1843.552    | 1843.288    | 1842.459    | 1841.058    | 1839.081    | 1835.727    | 1836.157    | 1832.163    |
| <b>10.0</b> | 1948.246    | 1949.920    | 1947.324    | 1948.425    | 1948.369    | 1946.870    | 1943.909    | 1939.474    | 1932.194    | 1934.094    |
| <b>12.5</b> | 2117.539    | 2115.921    | 2114.328    | 2112.849    | 2110.695    | 2109.970    | 2106.762    | 2101.047    | 2094.299    | 2092.657    |
| <b>15.0</b> | 2342.321    | 2339.550    | 2332.249    | 2335.486    | 2331.450    | 2322.411    | 2323.460    | 2319.149    | 2314.830    | 2309.045    |
| <b>17.5</b> | 2567.634    | 2566.063    | 2564.949    | 2563.646    | 2559.601    | 2556.092    | 2552.249    | 2541.803    | 2539.091    | 2530.323    |
| <b>20.0</b> | 2711.261    | 2711.842    | 2715.265    | 2722.140    | 2716.140    | 2707.897    | 2706.277    | 2706.882    | 2697.798    | 2695.930    |
| <b>22.5</b> | 2736.388    | 2737.212    | 2739.753    | 2734.111    | 2730.355    | 2728.251    | 2727.436    | 2730.466    | 2721.323    | 2717.677    |
| <b>25.0</b> | 2702.150    | 2698.574    | 2696.380    | 2694.314    | 2690.145    | 2684.004    | 2676.830    | 2672.710    | 2669.847    | 2665.262    |
| <b>27.5</b> | 2676.336    | 2676.038    | 2673.417    | 2668.596    | 2662.504    | 2655.892    | 2651.246    | 2645.738    | 2637.910    | 2630.161    |
| <b>30.0</b> | 2681.862    | 2678.561    | 2672.666    | 2665.709    | 2658.519    | 2654.729    | 2649.162    | 2641.487    | 2634.672    | 2627.767    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 32.5 | 2705.577 | 2697.277 | 2689.466 | 2685.559 | 2681.008 | 2674.355 | 2666.744 | 2659.029 | 2651.327 | 2646.132 |
| 35.0 | 2747.103 | 2740.539 | 2732.954 | 2725.685 | 2717.592 | 2709.984 | 2705.934 | 2698.521 | 2692.336 | 2685.066 |
| 37.5 | 2782.906 | 2777.434 | 2774.221 | 2773.608 | 2766.032 | 2758.602 | 2751.202 | 2747.222 | 2743.970 | 2736.446 |
| 40.0 | 2811.814 | 2801.831 | 2792.778 | 2783.326 | 2778.152 | 2780.846 | 2784.218 | 2773.717 | 2764.227 | 2768.951 |
| 42.5 | 2734.679 | 2735.543 | 2744.959 | 2755.803 | 2745.552 | 2726.012 | 2721.458 | 2721.789 | 2745.447 | 2724.899 |
| 45.0 | 2628.031 | 2602.291 | 2579.598 | 2570.537 | 2566.405 | 2581.962 | 2591.048 | 2574.372 | 2561.244 | 2572.533 |
| 47.5 | 2306.549 | 2308.007 | 2317.854 | 2337.301 | 2320.197 | 2291.060 | 2281.297 | 2282.897 | 2295.972 | 2297.177 |
| 50.0 | 1937.746 | 1916.530 | 1913.546 | 1907.716 | 1914.580 | 1915.510 | 1916.461 | 1885.302 | 1884.012 | 1887.669 |
| 52.5 | 1506.393 | 1501.350 | 1491.179 | 1466.325 | 1449.571 | 1448.080 | 1448.224 | 1445.750 | 1439.009 | 1435.411 |
| 55.0 | 1074.371 | 1091.587 | 1096.510 | 1092.408 | 1075.354 | 1047.038 | 1010.400 | 1012.624 | 1022.118 | 1015.836 |
| 57.5 | 661.236  | 697.207  | 725.742  | 749.383  | 760.958  | 763.641  | 747.288  | 721.622  | 676.247  | 684.015  |
| 60.0 | 543.040  | 524.113  | 502.685  | 486.332  | 483.262  | 517.504  | 533.743  | 532.991  | 514.154  | 510.445  |
| 62.5 | 442.243  | 431.294  | 419.696  | 409.199  | 400.573  | 392.106  | 383.885  | 381.463  | 392.055  | 396.102  |
| 65.0 | 346.555  | 344.401  | 341.590  | 337.658  | 333.771  | 328.338  | 321.182  | 314.278  | 308.020  | 301.122  |
| 67.5 | 262.112  | 262.831  | 267.893  | 270.337  | 270.323  | 266.538  | 260.452  | 255.363  | 250.714  | 246.762  |
| 70.0 | 215.826  | 215.350  | 215.667  | 215.262  | 214.297  | 207.924  | 201.546  | 199.002  | 196.247  | 196.095  |
| 72.5 | 169.424  | 168.280  | 168.409  | 167.842  | 167.033  | 162.295  | 156.923  | 152.357  | 147.687  | 146.626  |
| 75.0 | 122.938  | 121.322  | 121.245  | 120.887  | 120.441  | 118.661  | 115.848  | 112.295  | 109.667  | 109.961  |
| 77.5 | 86.076   | 82.440   | 79.632   | 76.644   | 75.323   | 76.704   | 75.743   | 73.313   | 72.961   | 74.671   |
| 80.0 | 60.918   | 58.788   | 57.087   | 55.253   | 53.900   | 52.926   | 49.641   | 45.166   | 43.187   | 42.485   |
| 82.5 | 36.147   | 35.432   | 34.886   | 34.252   | 33.934   | 33.765   | 31.722   | 29.062   | 28.494   | 28.369   |
| 85.0 | 11.646   | 12.284   | 12.927   | 13.524   | 14.179   | 14.842   | 14.373   | 13.618   | 14.044   | 14.533   |
| 87.5 | 3.914    | 3.999    | 4.095    | 4.205    | 4.329    | 4.470    | 4.174    | 3.857    | 4.011    | 4.198    |
| 90.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**Vert.  
Angles**

**Horizontal Angles**

|      | <u>50.0</u> | <u>52.5</u> | <u>55.0</u> | <u>57.5</u> | <u>60.0</u> | <u>62.5</u> | <u>65.0</u> | <u>67.5</u> | <u>70.0</u> | <u>72.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    | 1752.558    |
| 2.5  | 1758.889    | 1758.797    | 1758.668    | 1758.504    | 1758.305    | 1758.072    | 1757.569    | 1757.593    | 1757.463    | 1757.310    |
| 5.0  | 1781.388    | 1779.856    | 1780.451    | 1780.590    | 1780.569    | 1780.389    | 1780.055    | 1779.572    | 1778.945    | 1778.179    |
| 7.5  | 1834.277    | 1834.508    | 1834.169    | 1833.266    | 1831.812    | 1829.818    | 1827.303    | 1825.269    | 1823.579    | 1824.764    |
| 10.0 | 1934.275    | 1933.041    | 1930.405    | 1926.387    | 1919.661    | 1918.968    | 1914.599    | 1916.202    | 1913.999    | 1909.765    |
| 12.5 | 2091.464    | 2087.795    | 2081.669    | 2076.235    | 2072.272    | 2062.627    | 2061.334    | 2056.131    | 2054.589    | 2051.387    |
| 15.0 | 2301.609    | 2292.401    | 2284.229    | 2276.754    | 2266.998    | 2256.278    | 2255.896    | 2250.599    | 2242.691    | 2237.703    |
| 17.5 | 2522.558    | 2516.854    | 2510.543    | 2504.357    | 2491.216    | 2487.187    | 2477.774    | 2469.101    | 2462.968    | 2455.559    |
| 20.0 | 2696.820    | 2683.459    | 2674.231    | 2671.153    | 2660.892    | 2646.917    | 2637.382    | 2628.707    | 2621.607    | 2620.310    |
| 22.5 | 2719.012    | 2706.454    | 2700.001    | 2693.638    | 2691.529    | 2686.850    | 2676.215    | 2669.212    | 2659.731    | 2654.321    |
| 25.0 | 2658.579    | 2653.549    | 2647.826    | 2644.503    | 2639.320    | 2632.987    | 2628.598    | 2627.269    | 2625.452    | 2620.415    |
| 27.5 | 2626.119    | 2619.255    | 2610.760    | 2606.131    | 2603.395    | 2599.955    | 2594.551    | 2586.968    | 2582.393    | 2580.843    |
| 30.0 | 2618.216    | 2613.312    | 2609.982    | 2604.558    | 2598.982    | 2595.727    | 2592.593    | 2587.982    | 2582.491    | 2577.336    |
| 32.5 | 2639.722    | 2633.481    | 2629.023    | 2626.285    | 2622.784    | 2616.595    | 2608.690    | 2607.103    | 2603.943    | 2599.819    |
| 35.0 | 2680.618    | 2676.429    | 2671.808    | 2665.411    | 2658.499    | 2654.655    | 2650.394    | 2646.217    | 2640.470    | 2633.633    |
| 37.5 | 2731.920    | 2728.844    | 2717.067    | 2709.634    | 2702.771    | 2696.553    | 2687.220    | 2679.258    | 2674.821    | 2671.501    |
| 40.0 | 2764.246    | 2746.817    | 2743.037    | 2739.166    | 2721.188    | 2704.493    | 2698.011    | 2696.302    | 2698.696    | 2692.097    |
| 42.5 | 2714.368    | 2725.487    | 2705.249    | 2684.485    | 2675.434    | 2676.069    | 2669.498    | 2647.070    | 2635.342    | 2633.344    |
| 45.0 | 2608.372    | 2571.980    | 2560.672    | 2563.041    | 2558.446    | 2527.009    | 2510.683    | 2508.193    | 2523.851    | 2548.322    |
| 47.5 | 2288.522    | 2313.048    | 2327.564    | 2300.393    | 2282.518    | 2269.852    | 2286.391    | 2293.510    | 2275.547    | 2275.483    |
| 50.0 | 1901.475    | 1916.642    | 1919.974    | 1922.845    | 1913.059    | 1932.370    | 1916.689    | 1914.423    | 1927.235    | 1958.278    |
| 52.5 | 1446.320    | 1455.048    | 1452.220    | 1462.343    | 1495.031    | 1485.929    | 1488.706    | 1497.492    | 1525.946    | 1541.961    |
| 55.0 | 1018.670    | 1030.433    | 1025.398    | 1027.589    | 1054.588    | 1058.051    | 1070.697    | 1108.141    | 1129.110    | 1129.722    |
| 57.5 | 713.204     | 701.315     | 670.699     | 678.202     | 683.532     | 723.834     | 759.699     | 778.875     | 776.821     | 754.434     |
| 60.0 | 499.204     | 494.348     | 459.972     | 377.387     | 423.666     | 495.433     | 524.430     | 513.540     | 485.000     | 491.161     |
| 62.5 | 391.999     | 376.637     | 344.907     | 316.477     | 313.150     | 339.330     | 364.649     | 339.472     | 352.622     | 387.249     |
| 65.0 | 305.991     | 302.258     | 286.421     | 284.646     | 284.208     | 284.721     | 290.263     | 288.270     | 292.286     | 302.993     |
| 67.5 | 248.369     | 250.274     | 248.437     | 245.251     | 244.695     | 247.434     | 245.538     | 244.834     | 243.623     | 246.428     |

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

|             |         |         |         |         |         |         |         |         |         |         |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>70.0</b> | 198.115 | 200.105 | 201.567 | 202.815 | 202.495 | 201.433 | 200.656 | 200.088 | 199.867 | 199.629 |
| <b>72.5</b> | 149.169 | 151.609 | 153.763 | 155.587 | 156.956 | 157.250 | 156.179 | 155.397 | 155.269 | 156.177 |
| <b>75.0</b> | 109.793 | 108.973 | 107.866 | 110.521 | 113.175 | 114.638 | 114.414 | 112.159 | 111.713 | 115.111 |
| <b>77.5</b> | 75.699  | 75.929  | 75.735  | 75.280  | 75.233  | 75.564  | 76.962  | 76.119  | 76.833  | 78.557  |
| <b>80.0</b> | 42.661  | 44.105  | 45.153  | 46.612  | 48.234  | 48.772  | 47.931  | 46.053  | 48.728  | 50.151  |
| <b>82.5</b> | 27.547  | 26.303  | 24.716  | 24.070  | 23.786  | 25.687  | 27.177  | 27.922  | 28.375  | 27.926  |
| <b>85.0</b> | 14.659  | 14.566  | 14.231  | 14.411  | 14.596  | 14.652  | 14.536  | 14.188  | 13.521  | 13.658  |
| <b>87.5</b> | 4.411   | 4.657   | 4.942   | 5.274   | 5.676   | 6.293   | 6.834   | 7.248   | 7.485   | 7.467   |
| <b>90.0</b> | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

**Vert.  
Angles**

**Horizontal Angles**

|             | <u><b>75.0</b></u> | <u><b>77.5</b></u> | <u><b>80.0</b></u> | <u><b>82.5</b></u> | <u><b>85.0</b></u> | <u><b>87.5</b></u> | <u><b>90.0</b></u> | <u><b>92.5</b></u> | <u><b>95.0</b></u> | <u><b>97.5</b></u> |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>0.0</b>  | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           | 1752.558           |
| <b>2.5</b>  | 1757.138           | 1756.946           | 1756.737           | 1756.511           | 1756.270           | 1756.016           | 1755.751           | 1755.475           | 1755.191           | 1754.899           |
| <b>5.0</b>  | 1777.282           | 1775.670           | 1775.312           | 1774.376           | 1773.339           | 1772.212           | 1771.006           | 1770.351           | 1769.630           | 1768.844           |
| <b>7.5</b>  | 1824.154           | 1823.059           | 1821.496           | 1819.533           | 1818.178           | 1816.428           | 1814.287           | 1812.578           | 1810.495           | 1807.981           |
| <b>10.0</b> | 1910.153           | 1909.028           | 1906.889           | 1903.780           | 1900.468           | 1898.222           | 1895.175           | 1892.284           | 1888.622           | 1885.655           |
| <b>12.5</b> | 2046.541           | 2042.657           | 2040.104           | 2035.997           | 2030.373           | 2025.964           | 2020.763           | 2016.932           | 2012.322           | 2008.777           |
| <b>15.0</b> | 2233.243           | 2226.000           | 2219.626           | 2214.155           | 2206.320           | 2199.026           | 2192.471           | 2186.680           | 2180.999           | 2175.394           |
| <b>17.5</b> | 2449.781           | 2439.776           | 2435.994           | 2435.047           | 2434.029           | 2430.865           | 2425.483           | 2411.386           | 2398.025           | 2383.538           |
| <b>20.0</b> | 2617.882           | 2616.484           | 2606.098           | 2599.014           | 2598.037           | 2595.861           | 2589.102           | 2577.100           | 2564.421           | 2549.352           |
| <b>22.5</b> | 2650.202           | 2648.414           | 2646.296           | 2644.347           | 2642.442           | 2639.095           | 2635.222           | 2628.775           | 2618.372           | 2606.477           |
| <b>25.0</b> | 2615.458           | 2610.372           | 2605.424           | 2599.417           | 2594.852           | 2591.707           | 2586.737           | 2581.414           | 2573.618           | 2565.469           |
| <b>27.5</b> | 2578.051           | 2574.975           | 2571.929           | 2566.835           | 2561.929           | 2558.010           | 2554.335           | 2548.413           | 2540.728           | 2531.925           |
| <b>30.0</b> | 2570.723           | 2565.109           | 2560.799           | 2555.889           | 2550.670           | 2546.137           | 2542.628           | 2536.338           | 2528.502           | 2518.924           |
| <b>32.5</b> | 2595.143           | 2588.328           | 2580.802           | 2573.506           | 2566.957           | 2561.724           | 2555.931           | 2550.815           | 2544.727           | 2536.096           |
| <b>35.0</b> | 2627.772           | 2622.553           | 2616.889           | 2612.890           | 2609.246           | 2606.263           | 2601.480           | 2595.233           | 2586.434           | 2575.157           |
| <b>37.5</b> | 2667.994           | 2665.932           | 2663.194           | 2661.479           | 2659.803           | 2658.363           | 2655.089           | 2647.462           | 2636.742           | 2623.925           |
| <b>40.0</b> | 2679.337           | 2670.429           | 2665.158           | 2661.463           | 2659.427           | 2658.967           | 2657.218           | 2650.056           | 2640.554           | 2629.086           |
| <b>42.5</b> | 2636.423           | 2640.463           | 2646.004           | 2650.456           | 2653.655           | 2658.039           | 2659.347           | 2651.884           | 2640.385           | 2625.237           |
| <b>45.0</b> | 2534.737           | 2522.303           | 2516.006           | 2515.291           | 2516.326           | 2520.678           | 2524.535           | 2518.803           | 2512.392           | 2505.771           |
| <b>47.5</b> | 2286.682           | 2304.561           | 2323.457           | 2344.644           | 2363.080           | 2379.404           | 2389.722           | 2382.761           | 2371.293           | 2355.961           |
| <b>50.0</b> | 1989.912           | 1981.758           | 1965.669           | 1951.281           | 1938.075           | 1934.741           | 1939.402           | 1942.052           | 1953.431           | 1973.638           |
| <b>52.5</b> | 1543.035           | 1531.725           | 1513.483           | 1495.888           | 1484.596           | 1481.880           | 1489.083           | 1493.679           | 1506.738           | 1526.105           |
| <b>55.0</b> | 1114.792           | 1091.830           | 1063.696           | 1041.664           | 1032.255           | 1028.750           | 1038.763           | 1045.626           | 1060.191           | 1079.990           |
| <b>57.5</b> | 714.296            | 715.130            | 757.247            | 789.213            | 815.596            | 834.051            | 848.961            | 848.269            | 840.720            | 823.304            |
| <b>60.0</b> | 533.799            | 571.164            | 602.486            | 623.265            | 638.925            | 649.085            | 659.161            | 659.656            | 657.362            | 647.422            |
| <b>62.5</b> | 419.163            | 445.059            | 459.981            | 466.497            | 467.051            | 465.875            | 469.359            | 471.886            | 477.560            | 479.893            |
| <b>65.0</b> | 324.639            | 336.282            | 334.912            | 322.244            | 302.631            | 284.876            | 279.558            | 285.169            | 303.410            | 325.169            |
| <b>67.5</b> | 251.963            | 250.887            | 242.879            | 240.812            | 238.033            | 235.836            | 236.631            | 236.172            | 237.456            | 240.118            |
| <b>70.0</b> | 200.419            | 201.003            | 200.803            | 198.575            | 195.753            | 193.448            | 193.704            | 194.136            | 196.358            | 198.660            |
| <b>72.5</b> | 158.218            | 159.168            | 158.359            | 156.578            | 153.109            | 150.933            | 150.777            | 151.973            | 155.562            | 157.129            |
| <b>75.0</b> | 117.463            | 118.432            | 117.558            | 115.014            | 111.677            | 108.252            | 107.850            | 109.810            | 114.952            | 118.076            |
| <b>77.5</b> | 79.539             | 79.513             | 78.627             | 77.666             | 81.250             | 81.499             | 82.307             | 83.697             | 83.648             | 81.731             |
| <b>80.0</b> | 49.393             | 46.668             | 47.401             | 53.762             | 56.523             | 56.944             | 56.763             | 58.787             | 59.149             | 56.117             |
| <b>82.5</b> | 27.500             | 26.418             | 28.290             | 31.022             | 33.717             | 32.650             | 31.220             | 33.667             | 35.358             | 33.402             |
| <b>85.0</b> | 13.534             | 13.956             | 15.078             | 15.814             | 14.971             | 10.510             | 5.676              | 10.761             | 15.851             | 17.453             |
| <b>87.5</b> | 7.066              | 6.968              | 6.989              | 7.508              | 6.562              | 4.013              | 2.838              | 4.013              | 6.743              | 8.064              |
| <b>90.0</b> | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              |

**Vert.  
Angles**

**Horizontal Angles**

|            | <u><b>100.0</b></u> | <u><b>102.5</b></u> | <u><b>105.0</b></u> | <u><b>107.5</b></u> | <u><b>110.0</b></u> | <u><b>112.5</b></u> | <u><b>115.0</b></u> | <u><b>117.5</b></u> | <u><b>120.0</b></u> | <u><b>122.5</b></u> |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b> | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            | 1752.558            |
| <b>2.5</b> | 1754.603            | 1754.303            | 1754.001            | 1753.698            | 1753.397            | 1752.997            | 1752.773            | 1752.427            | 1752.081            | 1751.736            |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5.0  | 1767.995 | 1767.140 | 1766.305 | 1765.400 | 1764.426 | 1763.383 | 1762.271 | 1761.091 | 1759.843 | 1758.529 |
| 7.5  | 1806.228 | 1804.085 | 1801.580 | 1798.716 | 1794.310 | 1792.778 | 1790.874 | 1789.034 | 1786.930 | 1784.562 |
| 10.0 | 1882.449 | 1878.454 | 1873.670 | 1868.299 | 1864.233 | 1859.164 | 1850.693 | 1848.177 | 1843.920 | 1842.732 |
| 12.5 | 2003.841 | 1997.509 | 1992.000 | 1987.021 | 1980.598 | 1972.735 | 1967.270 | 1957.700 | 1957.164 | 1952.048 |
| 15.0 | 2167.792 | 2161.091 | 2155.310 | 2147.400 | 2139.853 | 2134.506 | 2127.395 | 2119.094 | 2114.778 | 2111.227 |
| 17.5 | 2368.860 | 2356.539 | 2351.541 | 2341.631 | 2332.347 | 2321.206 | 2312.698 | 2304.013 | 2288.968 | 2289.306 |
| 20.0 | 2540.273 | 2534.104 | 2518.995 | 2503.945 | 2489.502 | 2478.408 | 2469.570 | 2463.372 | 2461.128 | 2455.537 |
| 22.5 | 2592.771 | 2579.049 | 2564.928 | 2552.481 | 2542.745 | 2535.842 | 2529.460 | 2527.004 | 2519.732 | 2507.871 |
| 25.0 | 2556.532 | 2547.692 | 2539.230 | 2532.696 | 2526.088 | 2516.104 | 2505.084 | 2493.470 | 2485.144 | 2476.846 |
| 27.5 | 2522.554 | 2513.068 | 2504.251 | 2495.935 | 2486.082 | 2478.248 | 2472.729 | 2463.832 | 2452.389 | 2440.651 |
| 30.0 | 2509.521 | 2500.429 | 2492.880 | 2487.592 | 2481.147 | 2474.628 | 2465.905 | 2454.357 | 2444.211 | 2434.214 |
| 32.5 | 2527.825 | 2520.367 | 2512.926 | 2504.510 | 2495.661 | 2485.249 | 2472.518 | 2463.622 | 2454.199 | 2442.494 |
| 35.0 | 2562.577 | 2552.647 | 2541.827 | 2531.058 | 2522.728 | 2514.243 | 2503.048 | 2491.033 | 2477.262 | 2463.699 |
| 37.5 | 2609.962 | 2596.969 | 2583.357 | 2569.805 | 2558.786 | 2547.030 | 2536.948 | 2527.550 | 2515.873 | 2501.930 |
| 40.0 | 2618.585 | 2609.009 | 2601.181 | 2598.431 | 2591.705 | 2576.807 | 2563.693 | 2552.770 | 2546.841 | 2545.095 |
| 42.5 | 2610.662 | 2593.004 | 2576.886 | 2564.567 | 2557.051 | 2557.878 | 2567.464 | 2561.025 | 2548.284 | 2542.001 |
| 45.0 | 2500.752 | 2498.147 | 2503.585 | 2513.369 | 2489.427 | 2469.995 | 2464.157 | 2472.830 | 2498.937 | 2495.472 |
| 47.5 | 2335.650 | 2313.836 | 2297.861 | 2291.279 | 2295.580 | 2314.901 | 2306.395 | 2286.501 | 2296.351 | 2317.442 |
| 50.0 | 1994.419 | 2019.035 | 2046.193 | 2030.457 | 2004.972 | 1987.484 | 1989.524 | 2015.649 | 2000.675 | 2013.934 |
| 52.5 | 1548.858 | 1575.159 | 1604.235 | 1627.067 | 1630.576 | 1606.435 | 1589.776 | 1590.318 | 1612.285 | 1589.585 |
| 55.0 | 1104.260 | 1135.965 | 1171.294 | 1200.646 | 1206.998 | 1186.191 | 1160.906 | 1150.482 | 1150.854 | 1137.621 |
| 57.5 | 793.315  | 753.108  | 754.470  | 799.930  | 799.289  | 816.450  | 812.529  | 777.448  | 736.062  | 735.808  |
| 60.0 | 627.832  | 598.464  | 559.275  | 481.741  | 466.767  | 525.633  | 545.640  | 516.801  | 435.384  | 384.922  |
| 62.5 | 475.550  | 460.203  | 424.562  | 364.104  | 342.915  | 330.215  | 364.892  | 338.368  | 309.832  | 314.477  |
| 65.0 | 340.330  | 342.486  | 308.534  | 295.777  | 286.359  | 282.134  | 283.302  | 279.262  | 280.319  | 282.936  |
| 67.5 | 240.321  | 248.348  | 247.502  | 243.686  | 240.901  | 241.406  | 241.324  | 242.561  | 243.193  | 245.847  |
| 70.0 | 199.887  | 200.464  | 200.587  | 200.306  | 200.081  | 199.907  | 200.600  | 202.461  | 205.228  | 207.106  |
| 72.5 | 159.702  | 160.222  | 160.470  | 159.698  | 159.337  | 159.475  | 160.984  | 163.171  | 164.063  | 164.237  |
| 75.0 | 120.002  | 121.047  | 121.377  | 120.727  | 119.006  | 119.892  | 122.283  | 123.505  | 123.754  | 123.263  |
| 77.5 | 81.491   | 83.669   | 84.747   | 85.197   | 84.641   | 84.669   | 86.311   | 86.598   | 87.147   | 87.415   |
| 80.0 | 51.278   | 51.182   | 54.838   | 56.247   | 55.780   | 54.150   | 56.074   | 57.063   | 56.747   | 55.410   |
| 82.5 | 31.473   | 29.983   | 31.552   | 32.607   | 33.172   | 32.603   | 31.795   | 30.547   | 29.013   | 29.816   |
| 85.0 | 16.982   | 15.995   | 15.712   | 15.867   | 15.641   | 16.444   | 17.038   | 17.595   | 17.841   | 17.851   |
| 87.5 | 7.675    | 7.673    | 7.745    | 8.309    | 8.539    | 8.545    | 8.385    | 7.813    | 7.082    | 6.592    |
| 90.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**Vert. Horizontal Angles**

|      | <u>125.0</u> | <u>127.5</u> | <u>130.0</u> | <u>132.5</u> | <u>135.0</u> | <u>137.5</u> | <u>140.0</u> | <u>142.5</u> | <u>145.0</u> | <u>147.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     |
| 2.5  | 1751.392     | 1751.051     | 1750.713     | 1750.378     | 1750.047     | 1749.721     | 1749.401     | 1749.087     | 1748.779     | 1748.478     |
| 5.0  | 1757.151     | 1755.777     | 1754.491     | 1753.105     | 1751.619     | 1750.038     | 1748.363     | 1746.234     | 1745.665     | 1744.981     |
| 7.5  | 1781.929     | 1779.033     | 1775.877     | 1773.141     | 1771.355     | 1768.156     | 1767.823     | 1766.575     | 1765.040     | 1763.226     |
| 10.0 | 1840.491     | 1837.179     | 1832.787     | 1827.311     | 1820.494     | 1822.718     | 1822.980     | 1822.315     | 1820.734     | 1818.256     |
| 12.5 | 1948.840     | 1946.644     | 1942.580     | 1936.647     | 1934.044     | 1930.405     | 1928.529     | 1924.863     | 1919.434     | 1916.847     |
| 15.0 | 2106.173     | 2101.636     | 2097.609     | 2092.145     | 2087.826     | 2082.611     | 2077.392     | 2067.649     | 2066.654     | 2061.272     |
| 17.5 | 2283.470     | 2276.398     | 2270.933     | 2266.732     | 2261.171     | 2253.384     | 2245.464     | 2239.957     | 2234.075     | 2226.902     |
| 20.0 | 2443.118     | 2435.641     | 2431.724     | 2423.233     | 2416.133     | 2412.640     | 2402.264     | 2391.100     | 2383.089     | 2375.203     |
| 22.5 | 2500.199     | 2495.064     | 2497.572     | 2482.226     | 2474.894     | 2477.491     | 2460.326     | 2450.338     | 2443.165     | 2437.871     |
| 25.0 | 2467.730     | 2457.425     | 2447.192     | 2441.046     | 2433.493     | 2425.019     | 2420.234     | 2416.198     | 2408.264     | 2399.073     |
| 27.5 | 2430.315     | 2422.754     | 2413.958     | 2402.373     | 2396.131     | 2391.253     | 2384.219     | 2375.053     | 2370.530     | 2365.689     |
| 30.0 | 2424.175     | 2413.575     | 2403.692     | 2395.553     | 2386.687     | 2377.962     | 2371.244     | 2365.071     | 2358.893     | 2353.854     |
| 32.5 | 2429.483     | 2417.203     | 2407.095     | 2396.376     | 2384.287     | 2375.044     | 2367.562     | 2361.221     | 2355.568     | 2348.994     |
| 35.0 | 2452.178     | 2439.244     | 2424.142     | 2408.561     | 2399.468     | 2387.062     | 2377.462     | 2368.542     | 2367.727     | 2367.692     |
| 37.5 | 2489.166     | 2476.137     | 2463.213     | 2449.738     | 2434.356     | 2423.353     | 2415.012     | 2410.532     | 2406.470     | 2401.859     |
| 40.0 | 2531.286     | 2518.141     | 2509.009     | 2496.966     | 2484.176     | 2476.280     | 2468.401     | 2459.098     | 2456.109     | 2455.781     |

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 42.5 | 2546.312 | 2547.033 | 2526.399 | 2520.845 | 2522.296 | 2499.760 | 2495.685 | 2494.807 | 2501.288 | 2499.789 |
| 45.0 | 2483.106 | 2485.112 | 2507.736 | 2468.556 | 2456.539 | 2468.043 | 2477.301 | 2465.498 | 2448.732 | 2450.623 |
| 47.5 | 2348.252 | 2323.645 | 2295.549 | 2309.835 | 2307.533 | 2292.638 | 2293.503 | 2305.037 | 2337.104 | 2351.165 |
| 50.0 | 2008.690 | 2011.915 | 1992.068 | 1978.998 | 1984.651 | 1991.300 | 2037.785 | 2025.961 | 2017.135 | 2007.770 |
| 52.5 | 1574.167 | 1577.194 | 1572.775 | 1565.887 | 1587.228 | 1591.149 | 1589.587 | 1596.508 | 1602.517 | 1625.988 |
| 55.0 | 1137.920 | 1139.235 | 1132.707 | 1132.520 | 1139.488 | 1139.917 | 1142.975 | 1183.202 | 1204.642 | 1211.957 |
| 57.5 | 736.770  | 773.358  | 783.925  | 753.989  | 751.653  | 805.167  | 832.936  | 847.334  | 843.282  | 825.067  |
| 60.0 | 484.186  | 522.103  | 528.323  | 547.159  | 553.656  | 573.862  | 570.272  | 549.448  | 513.905  | 523.474  |
| 62.5 | 347.776  | 386.046  | 404.618  | 411.733  | 406.216  | 389.497  | 391.083  | 402.088  | 420.750  | 436.781  |
| 65.0 | 286.224  | 305.448  | 310.099  | 304.619  | 313.839  | 322.461  | 330.661  | 338.652  | 349.330  | 357.929  |
| 67.5 | 250.000  | 252.854  | 252.996  | 252.618  | 258.698  | 265.858  | 272.576  | 279.094  | 284.095  | 285.084  |
| 70.0 | 207.332  | 207.480  | 206.818  | 205.270  | 206.373  | 211.790  | 216.646  | 222.698  | 228.485  | 228.581  |
| 72.5 | 164.086  | 163.749  | 162.769  | 159.587  | 159.250  | 165.627  | 171.593  | 176.960  | 181.775  | 181.553  |
| 75.0 | 122.146  | 123.457  | 124.331  | 123.157  | 121.836  | 125.108  | 129.513  | 132.893  | 135.392  | 135.055  |
| 77.5 | 87.817   | 88.181   | 88.391   | 87.261   | 85.379   | 86.020   | 88.705   | 90.242   | 90.262   | 90.967   |
| 80.0 | 54.328   | 53.916   | 53.341   | 53.725   | 54.408   | 56.178   | 60.099   | 63.262   | 65.114   | 66.279   |
| 82.5 | 30.947   | 33.092   | 34.781   | 35.866   | 35.893   | 36.298   | 38.535   | 40.375   | 41.309   | 41.813   |
| 85.0 | 17.799   | 18.292   | 18.461   | 18.331   | 17.660   | 17.043   | 17.513   | 17.789   | 17.772   | 17.499   |
| 87.5 | 6.177    | 5.821    | 5.514    | 5.247    | 5.014    | 4.819    | 5.100    | 5.372    | 5.684    | 5.888    |
| 90.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**Vert.  
Angles**

**Horizontal Angles**

|      | <u>150.0</u> | <u>152.5</u> | <u>155.0</u> | <u>157.5</u> | <u>160.0</u> | <u>162.5</u> | <u>165.0</u> | <u>167.5</u> | <u>170.0</u> | <u>172.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     | 1752.558     |
| 2.5  | 1748.185     | 1747.901     | 1747.545     | 1747.359     | 1747.103     | 1746.857     | 1746.622     | 1746.398     | 1746.186     | 1745.986     |
| 5.0  | 1744.275     | 1743.549     | 1742.807     | 1742.053     | 1741.291     | 1740.526     | 1739.764     | 1738.785     | 1738.179     | 1737.873     |
| 7.5  | 1761.141     | 1758.798     | 1756.207     | 1754.716     | 1754.175     | 1754.501     | 1754.474     | 1754.111     | 1753.431     | 1752.594     |
| 10.0 | 1815.063     | 1814.092     | 1813.388     | 1813.130     | 1812.082     | 1810.313     | 1810.715     | 1810.526     | 1809.749     | 1808.385     |
| 12.5 | 1914.620     | 1912.484     | 1910.560     | 1909.480     | 1909.027     | 1906.997     | 1903.475     | 1902.179     | 1902.282     | 1901.417     |
| 15.0 | 2054.594     | 2049.795     | 2049.149     | 2046.817     | 2040.692     | 2039.677     | 2035.166     | 2028.940     | 2027.034     | 2026.598     |
| 17.5 | 2219.261     | 2211.855     | 2203.530     | 2198.066     | 2194.068     | 2188.392     | 2187.113     | 2177.788     | 2170.282     | 2170.461     |
| 20.0 | 2361.642     | 2349.263     | 2342.976     | 2335.005     | 2328.830     | 2324.543     | 2317.880     | 2312.818     | 2302.474     | 2296.562     |
| 22.5 | 2431.905     | 2413.795     | 2399.426     | 2385.909     | 2374.807     | 2367.987     | 2364.941     | 2363.670     | 2362.620     | 2362.351     |
| 25.0 | 2387.233     | 2376.771     | 2372.446     | 2366.788     | 2359.479     | 2351.924     | 2346.320     | 2341.999     | 2338.263     | 2335.408     |
| 27.5 | 2360.132     | 2353.994     | 2347.429     | 2339.615     | 2332.770     | 2328.574     | 2324.699     | 2322.726     | 2320.802     | 2319.068     |
| 30.0 | 2348.763     | 2343.113     | 2338.608     | 2334.913     | 2329.099     | 2324.130     | 2321.859     | 2320.483     | 2318.763     | 2317.410     |
| 32.5 | 2343.532     | 2342.952     | 2342.325     | 2342.604     | 2341.306     | 2337.888     | 2335.709     | 2333.644     | 2331.192     | 2330.669     |
| 35.0 | 2366.397     | 2366.238     | 2364.593     | 2362.086     | 2362.367     | 2361.469     | 2360.469     | 2361.338     | 2362.250     | 2364.733     |
| 37.5 | 2401.687     | 2403.636     | 2405.623     | 2405.481     | 2404.507     | 2402.366     | 2398.275     | 2400.294     | 2402.808     | 2406.810     |
| 40.0 | 2456.447     | 2455.683     | 2455.041     | 2450.130     | 2444.151     | 2439.939     | 2435.521     | 2434.826     | 2436.944     | 2440.699     |
| 42.5 | 2487.974     | 2481.002     | 2478.431     | 2474.593     | 2473.056     | 2471.457     | 2469.207     | 2467.937     | 2469.507     | 2474.366     |
| 45.0 | 2458.944     | 2477.293     | 2489.846     | 2478.122     | 2452.723     | 2436.033     | 2424.455     | 2417.624     | 2416.360     | 2420.404     |
| 47.5 | 2322.921     | 2309.865     | 2304.310     | 2308.336     | 2310.153     | 2314.849     | 2322.081     | 2331.061     | 2341.727     | 2354.979     |
| 50.0 | 2018.088     | 2028.778     | 2060.607     | 2090.601     | 2067.434     | 2041.526     | 2017.473     | 1999.414     | 1983.876     | 1977.545     |
| 52.5 | 1638.158     | 1636.527     | 1631.151     | 1623.031     | 1612.222     | 1597.711     | 1583.389     | 1574.280     | 1565.945     | 1564.751     |
| 55.0 | 1208.884     | 1199.954     | 1179.742     | 1165.579     | 1155.909     | 1149.922     | 1146.792     | 1146.135     | 1147.407     | 1150.437     |
| 57.5 | 798.528      | 772.347      | 741.683      | 763.410      | 799.145      | 836.380      | 868.905      | 891.386      | 911.293      | 922.647      |
| 60.0 | 546.315      | 575.738      | 600.989      | 622.412      | 644.886      | 670.142      | 689.011      | 700.565      | 712.452      | 715.826      |
| 62.5 | 450.925      | 466.222      | 480.131      | 489.462      | 497.848      | 505.982      | 512.257      | 513.735      | 514.906      | 510.819      |
| 65.0 | 362.542      | 365.008      | 366.449      | 362.912      | 356.933      | 349.399      | 340.019      | 328.845      | 318.535      | 307.428      |
| 67.5 | 280.478      | 270.211      | 268.961      | 267.383      | 265.484      | 263.451      | 262.325      | 260.108      | 258.903      | 256.613      |
| 70.0 | 228.037      | 227.350      | 227.268      | 227.038      | 226.061      | 224.049      | 223.771      | 221.779      | 220.306      | 218.132      |
| 72.5 | 181.495      | 183.251      | 185.161      | 186.503      | 186.620      | 184.675      | 184.862      | 183.718      | 181.640      | 179.634      |
| 75.0 | 134.214      | 138.546      | 142.718      | 145.813      | 147.160      | 145.321      | 145.664      | 145.870      | 142.919      | 141.133      |
| 77.5 | 91.912       | 99.095       | 105.516      | 109.897      | 112.092      | 110.913      | 111.064      | 112.124      | 109.457      | 108.022      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L70-750-WF\_.IES**

**CANDELA TABULATION - (Cont.)**

|             |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>80.0</b> | 66.620 | 70.792 | 75.101 | 77.980 | 79.167 | 78.232 | 77.885 | 78.771 | 76.565 | 75.169 |
| <b>82.5</b> | 41.530 | 43.160 | 45.121 | 46.273 | 46.441 | 45.587 | 44.938 | 45.220 | 43.726 | 42.297 |
| <b>85.0</b> | 16.577 | 16.001 | 15.447 | 14.709 | 13.842 | 12.942 | 12.153 | 11.526 | 9.934  | 8.849  |
| <b>87.5</b> | 5.734  | 5.599  | 5.480  | 5.376  | 5.285  | 5.208  | 5.142  | 5.087  | 5.044  | 4.470  |
| <b>90.0</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |

**Vert.  
Angles**

**Horizontal Angles**

|             | <u><b>175.0</b></u> | <u><b>177.5</b></u> | <u><b>180.0</b></u> |
|-------------|---------------------|---------------------|---------------------|
| <b>0.0</b>  | 1752.558            | 1752.558            | 1752.558            |
| <b>2.5</b>  | 1745.798            | 1745.623            | 1745.462            |
| <b>5.0</b>  | 1737.566            | 1737.257            | 1736.948            |
| <b>7.5</b>  | 1753.278            | 1753.742            | 1753.977            |
| <b>10.0</b> | 1807.753            | 1809.527            | 1810.740            |
| <b>12.5</b> | 1898.955            | 1902.649            | 1905.818            |
| <b>15.0</b> | 2027.511            | 2027.024            | 2030.696            |
| <b>17.5</b> | 2169.014            | 2168.153            | 2170.049            |
| <b>20.0</b> | 2294.038            | 2290.326            | 2283.765            |
| <b>22.5</b> | 2365.472            | 2364.179            | 2364.179            |
| <b>25.0</b> | 2334.132            | 2333.689            | 2334.615            |
| <b>27.5</b> | 2318.341            | 2318.415            | 2319.782            |
| <b>30.0</b> | 2316.894            | 2317.518            | 2318.414            |
| <b>32.5</b> | 2331.169            | 2332.421            | 2331.717            |
| <b>35.0</b> | 2368.580            | 2370.979            | 2369.698            |
| <b>37.5</b> | 2413.371            | 2416.315            | 2413.847            |
| <b>40.0</b> | 2445.437            | 2447.840            | 2446.486            |
| <b>42.5</b> | 2477.451            | 2480.054            | 2479.124            |
| <b>45.0</b> | 2427.675            | 2431.036            | 2431.585            |
| <b>47.5</b> | 2372.478            | 2380.833            | 2384.046            |
| <b>50.0</b> | 1978.401            | 1977.140            | 1978.191            |
| <b>52.5</b> | 1569.280            | 1568.890            | 1572.335            |
| <b>55.0</b> | 1160.476            | 1156.343            | 1166.480            |
| <b>57.5</b> | 938.269             | 941.774             | 947.587             |
| <b>60.0</b> | 724.471             | 725.126             | 728.695             |
| <b>62.5</b> | 511.072             | 508.605             | 509.803             |
| <b>65.0</b> | 290.910             | 290.389             | 290.910             |
| <b>67.5</b> | 252.962             | 251.479             | 252.950             |
| <b>70.0</b> | 213.747             | 212.179             | 214.990             |
| <b>72.5</b> | 174.571             | 172.828             | 177.029             |
| <b>75.0</b> | 134.570             | 133.220             | 139.069             |
| <b>77.5</b> | 103.305             | 100.988             | 104.657             |
| <b>80.0</b> | 71.323              | 68.618              | 70.244              |
| <b>82.5</b> | 39.325              | 36.278              | 35.832              |
| <b>85.0</b> | 7.068               | 3.896               | 1.419               |
| <b>87.5</b> | 3.558               | 1.952               | 0.710               |
| <b>90.0</b> | 0.000               | 0.000               | 0.000               |



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L70-750-WF\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 807.39  | N.A.  | 11.50  |
| 0-30    | 1986.23 | N.A.  | 28.30  |
| 0-40    | 3603.19 | N.A.  | 51.30  |
| 0-60    | 6524.09 | N.A.  | 92.90  |
| 0-80    | 7000.54 | N.A.  | 99.70  |
| 0-90    | 7023.03 | N.A.  | 100.00 |
| 10-90   | 6850.71 | N.A.  | 97.50  |
| 20-40   | 2795.79 | N.A.  | 39.80  |
| 20-50   | 4679.25 | N.A.  | 66.60  |
| 40-70   | 3262.26 | N.A.  | 46.50  |
| 60-80   | 476.45  | N.A.  | 6.80   |
| 70-80   | 135.10  | N.A.  | 1.90   |
| 80-90   | 22.48   | N.A.  | 0.30   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 7023.03 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 172.32  |
| 10-20   | 635.08  |
| 20-30   | 1178.84 |
| 30-40   | 1616.96 |
| 40-50   | 1883.46 |
| 50-60   | 1037.44 |
| 60-70   | 341.36  |
| 70-80   | 135.10  |
| 80-90   | 22.48   |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

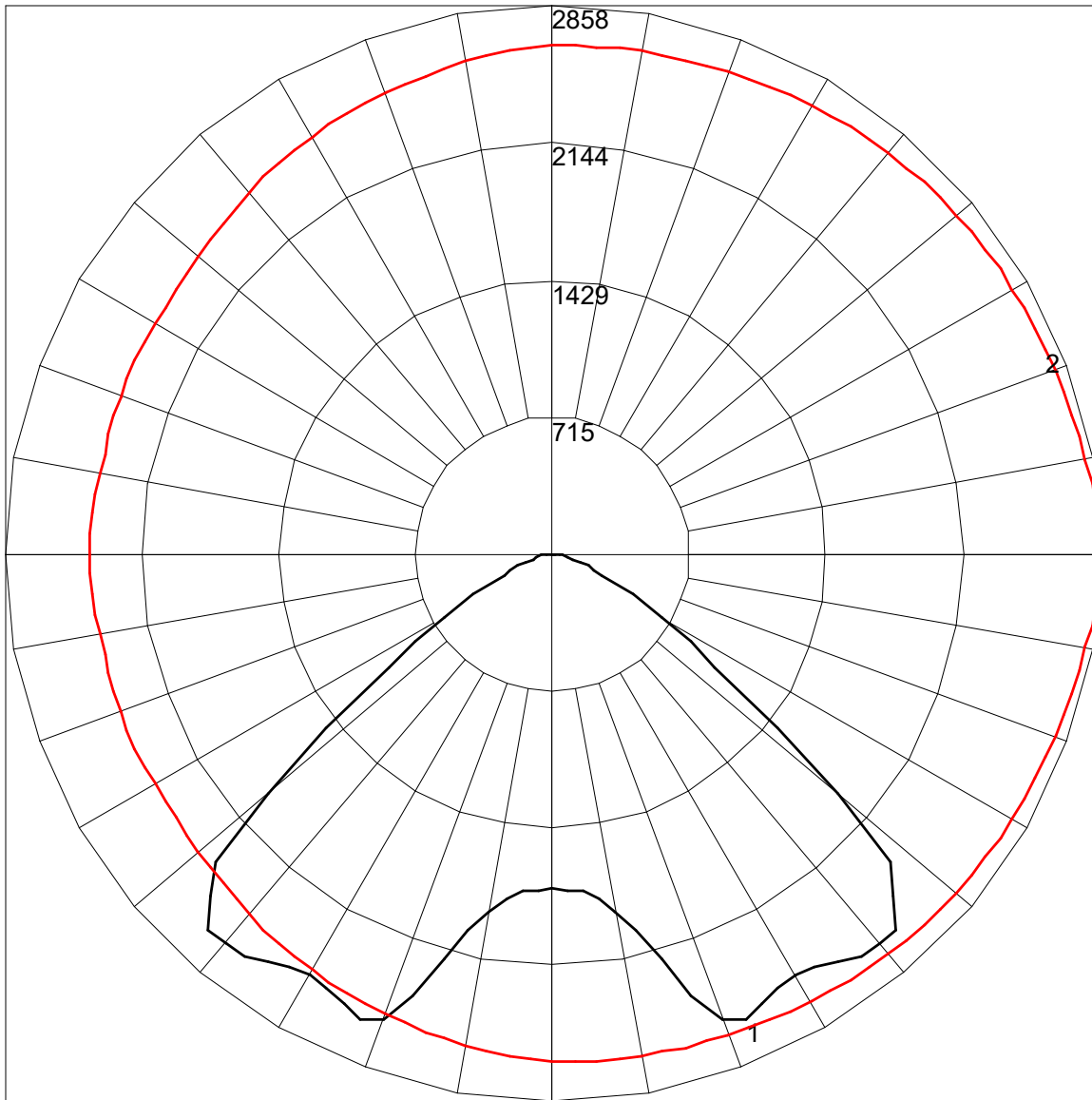
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L70-750-WF\_.IES**

**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  | 147 | 147 | 147 | 147 | 143 | 143 | 143 | 143 | 137 | 137 | 137 | 131 | 131 | 131 | 126 | 126 | 126 | 123 |
| 1  | 136 | 132 | 127 | 123 | 133 | 129 | 125 | 121 | 124 | 120 | 118 | 119 | 116 | 114 | 115 | 113 | 111 | 108 |
| 2  | 126 | 117 | 110 | 104 | 123 | 115 | 108 | 102 | 110 | 105 | 100 | 107 | 102 | 98  | 103 | 99  | 96  | 93  |
| 3  | 116 | 104 | 95  | 88  | 113 | 102 | 94  | 87  | 99  | 92  | 86  | 95  | 89  | 84  | 92  | 87  | 83  | 80  |
| 4  | 106 | 93  | 83  | 75  | 104 | 91  | 82  | 75  | 88  | 80  | 74  | 85  | 79  | 73  | 83  | 77  | 72  | 70  |
| 5  | 98  | 83  | 73  | 65  | 95  | 82  | 72  | 65  | 79  | 71  | 64  | 77  | 69  | 64  | 75  | 68  | 63  | 60  |
| 6  | 90  | 75  | 64  | 57  | 88  | 74  | 64  | 57  | 71  | 63  | 56  | 69  | 62  | 56  | 68  | 61  | 55  | 53  |
| 7  | 83  | 68  | 57  | 50  | 81  | 67  | 57  | 50  | 65  | 56  | 50  | 63  | 55  | 49  | 61  | 54  | 49  | 47  |
| 8  | 77  | 61  | 51  | 44  | 76  | 61  | 51  | 44  | 59  | 50  | 44  | 57  | 49  | 44  | 56  | 49  | 43  | 41  |
| 9  | 72  | 56  | 46  | 40  | 70  | 55  | 46  | 39  | 54  | 45  | 39  | 53  | 45  | 39  | 51  | 44  | 39  | 37  |
| 10 | 67  | 51  | 42  | 35  | 66  | 51  | 42  | 35  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 33  |

POLAR GRAPH



Maximum Candela = 2858.017 Located At Horizontal Angle = 0, Vertical Angle = 37.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)