



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-4359  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]08/19/13  
[TEST DATE]08/19/13  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]XFLM-MF-LED-49-HO-CW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[ABSOLUTE LUMENS]6540  
[LUMINAIRE] XFLM  
[SEARCH SOURCE TYPE] LED  
[SEARCH APPLICATION] Outdoor

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

### CHARACTERISTICS

|                              |                 |
|------------------------------|-----------------|
| NEMA Type                    | 4 H x 4 V       |
| Maximum Candela              | 16753           |
| Maximum Candela Angle        | -1H 0V          |
| Horizontal Beam Angle (50%)  | 33.0            |
| Vertical Beam Angle (50%)    | 31.9            |
| Horizontal Field Angle (10%) | 59.7            |
| Vertical Field Angle (10%)   | 59.5            |
| Lumens Per Lamp              | N.A. (absolute) |
| Total Lamp Lumens            | N.A. (absolute) |
| Beam Lumens                  | 2967            |
| Beam Efficiency              | N.A.            |
| Field Lumens                 | 5345            |
| Field Efficiency             | N.A.            |
| Spill Lumens                 | 1229            |
| Luminaire Lumens             | 6573            |
| Total Efficiency             | N.A.            |
| Total Luminaire Watts        | 64              |
| Ballast Factor               | 1.00            |

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**AXIAL CANDELA**

| DEG.  | HOR.  | DEG.  | VERT. |
|-------|-------|-------|-------|
| 90    | 0     | 90    | 0     |
| 85    | 54    | 85    | 49    |
| 75    | 60    | 75    | 61    |
| 65    | 96    | 65    | 93    |
| 55    | 165   | 55    | 160   |
| 47.5  | 261   | 47.5  | 255   |
| 42.5  | 388   | 42.5  | 386   |
| 37.5  | 668   | 37.5  | 653   |
| 33    | 1095  | 33    | 1079  |
| 29    | 1833  | 29    | 1828  |
| 25.5  | 2892  | 25.5  | 2882  |
| 22.5  | 4253  | 22.5  | 4171  |
| 19.5  | 6168  | 19.5  | 5969  |
| 17    | 7994  | 17    | 7688  |
| 15    | 9508  | 15    | 9127  |
| 13    | 10956 | 13    | 10541 |
| 11    | 12342 | 11    | 11903 |
| 9     | 13658 | 9     | 13196 |
| 7     | 14883 | 7     | 14399 |
| 5     | 15981 | 5     | 15493 |
| 3     | 16685 | 3     | 16203 |
| 1     | 16753 | 1     | 16561 |
| 0     | 16681 | 0     | 16681 |
| -1    | 16753 | -1    | 16561 |
| -3    | 16685 | -3    | 16203 |
| -5    | 15981 | -5    | 15493 |
| -7    | 14883 | -7    | 14399 |
| -9    | 13658 | -9    | 13196 |
| -11   | 12342 | -11   | 11903 |
| -13   | 10956 | -13   | 10541 |
| -15   | 9508  | -15   | 9127  |
| -17   | 7994  | -17   | 7688  |
| -19.5 | 6168  | -19.5 | 5969  |
| -22.5 | 4253  | -22.5 | 4171  |
| -25.5 | 2892  | -25.5 | 2882  |
| -29   | 1833  | -29   | 1828  |
| -33   | 1095  | -33   | 1079  |
| -37.5 | 668   | -37.5 | 653   |
| -42.5 | 388   | -42.5 | 386   |
| -47.5 | 261   | -47.5 | 255   |
| -55   | 165   | -55   | 160   |
| -65   | 96    | -65   | 93    |
| -75   | 60    | -75   | 61    |
| -85   | 54    | -85   | 49    |
| -90   | 0     | -90   | 0     |

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**CANDELA TABULATION**

Maximum Candela = 16753

Beam Edge = 8376.5 Cd (50% of Max.)

Field Edge = 1675.3 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                         | <b><u>-90.0</u></b>      | <b><u>-85.0</u></b> | <b><u>-75.0</u></b> | <b><u>-65.0</u></b> | <b><u>-55.0</u></b> | <b><u>-47.5</u></b> | <b><u>-42.5</u></b> | <b><u>-37.5</u></b> | <b><u>-33.0</u></b> | <b><u>-29.0</u></b> |
| <b>90.0</b>             | 0                        | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |
| <b>85.0</b>             | 0                        | 7                   | 24                  | 35                  | 45                  | 43                  | 44                  | 46                  | 47                  | 47                  |
| <b>75.0</b>             | 0                        | 22                  | 46                  | 49                  | 52                  | 52                  | 54                  | 55                  | 55                  | 56                  |
| <b>65.0</b>             | 0                        | 35                  | 49                  | 54                  | 61                  | 66                  | 70                  | 75                  | 79                  | 82                  |
| <b>55.0</b>             | 0                        | 42                  | 53                  | 61                  | 75                  | 88                  | 98                  | 107                 | 118                 | 127                 |
| <b>47.5</b>             | 0                        | 43                  | 54                  | 68                  | 87                  | 109                 | 126                 | 145                 | 158                 | 175                 |
| <b>42.5</b>             | 0                        | 44                  | 56                  | 73                  | 97                  | 125                 | 147                 | 170                 | 195                 | 221                 |
| <b>37.5</b>             | 0                        | 45                  | 57                  | 77                  | 108                 | 143                 | 172                 | 207                 | 250                 | 296                 |
| <b>33.0</b>             | 0                        | 46                  | 58                  | 81                  | 118                 | 160                 | 199                 | 251                 | 316                 | 387                 |
| <b>29.0</b>             | 0                        | 47                  | 59                  | 84                  | 127                 | 176                 | 225                 | 299                 | 392                 | 502                 |
| <b>25.5</b>             | 0                        | 48                  | 60                  | 87                  | 135                 | 189                 | 253                 | 348                 | 479                 | 645                 |
| <b>22.5</b>             | 0                        | 49                  | 60                  | 89                  | 141                 | 203                 | 277                 | 394                 | 570                 | 796                 |
| <b>19.5</b>             | 0                        | 50                  | 60                  | 91                  | 147                 | 216                 | 304                 | 448                 | 665                 | 961                 |
| <b>17.0</b>             | 0                        | 51                  | 61                  | 93                  | 151                 | 226                 | 320                 | 488                 | 761                 | 1110                |
| <b>15.0</b>             | 0                        | 51                  | 61                  | 94                  | 154                 | 236                 | 339                 | 514                 | 827                 | 1233                |
| <b>13.0</b>             | 0                        | 52                  | 61                  | 95                  | 157                 | 245                 | 357                 | 555                 | 884                 | 1349                |
| <b>11.0</b>             | 0                        | 52                  | 61                  | 95                  | 159                 | 251                 | 370                 | 592                 | 947                 | 1478                |
| <b>9.0</b>              | 0                        | 53                  | 62                  | 96                  | 161                 | 256                 | 379                 | 622                 | 1005                | 1586                |
| <b>7.0</b>              | 0                        | 53                  | 61                  | 96                  | 163                 | 259                 | 386                 | 642                 | 1048                | 1681 *              |
| <b>5.0</b>              | 0                        | 53                  | 61                  | 97                  | 164                 | 261                 | 389                 | 655                 | 1077                | 1760 *              |
| <b>3.0</b>              | 0                        | 54                  | 61                  | 97                  | 165                 | 262                 | 393                 | 663                 | 1094                | 1815 *              |
| <b>1.0</b>              | 0                        | 54                  | 60                  | 96                  | 165                 | 261                 | 389                 | 667                 | 1094                | 1825 *              |
| <b>0.0</b>              | 0                        | 54                  | 60                  | 96                  | 165                 | 261                 | 388                 | 668                 | 1095                | 1833 *              |
| <b>-1.0</b>             | 0                        | 54                  | 60                  | 96                  | 165                 | 261                 | 389                 | 667                 | 1094                | 1825 *              |
| <b>-3.0</b>             | 0                        | 54                  | 61                  | 97                  | 165                 | 262                 | 393                 | 663                 | 1094                | 1814 *              |
| <b>-5.0</b>             | 0                        | 53                  | 61                  | 97                  | 164                 | 261                 | 389                 | 655                 | 1077                | 1760 *              |
| <b>-7.0</b>             | 0                        | 53                  | 61                  | 96                  | 163                 | 259                 | 386                 | 642                 | 1048                | 1681 *              |
| <b>-9.0</b>             | 0                        | 53                  | 61                  | 96                  | 161                 | 256                 | 379                 | 621                 | 1005                | 1586                |
| <b>-11.0</b>            | 0                        | 52                  | 61                  | 95                  | 159                 | 251                 | 370                 | 592                 | 947                 | 1478                |
| <b>-13.0</b>            | 0                        | 52                  | 61                  | 95                  | 157                 | 245                 | 357                 | 555                 | 884                 | 1348                |
| <b>-15.0</b>            | 0                        | 51                  | 61                  | 94                  | 154                 | 236                 | 339                 | 514                 | 827                 | 1230                |
| <b>-17.0</b>            | 0                        | 51                  | 61                  | 93                  | 151                 | 226                 | 320                 | 488                 | 761                 | 1110                |
| <b>-19.5</b>            | 0                        | 50                  | 60                  | 91                  | 147                 | 216                 | 304                 | 448                 | 665                 | 961                 |
| <b>-22.5</b>            | 0                        | 49                  | 60                  | 89                  | 141                 | 203                 | 277                 | 394                 | 569                 | 796                 |
| <b>-25.5</b>            | 0                        | 48                  | 60                  | 87                  | 135                 | 189                 | 253                 | 348                 | 479                 | 644                 |
| <b>-29.0</b>            | 0                        | 47                  | 59                  | 84                  | 127                 | 176                 | 225                 | 299                 | 392                 | 502                 |
| <b>-33.0</b>            | 0                        | 46                  | 58                  | 81                  | 118                 | 160                 | 199                 | 251                 | 316                 | 387                 |
| <b>-37.5</b>            | 0                        | 45                  | 57                  | 77                  | 108                 | 143                 | 172                 | 207                 | 250                 | 296                 |
| <b>-42.5</b>            | 0                        | 44                  | 56                  | 73                  | 97                  | 125                 | 147                 | 170                 | 195                 | 221                 |
| <b>-47.5</b>            | 0                        | 43                  | 54                  | 68                  | 87                  | 109                 | 126                 | 145                 | 158                 | 175                 |
| <b>-55.0</b>            | 0                        | 42                  | 53                  | 61                  | 75                  | 88                  | 98                  | 107                 | 118                 | 127                 |
| <b>-65.0</b>            | 0                        | 35                  | 49                  | 54                  | 61                  | 66                  | 70                  | 75                  | 79                  | 82                  |
| <b>-75.0</b>            | 0                        | 22                  | 46                  | 49                  | 52                  | 52                  | 54                  | 55                  | 55                  | 56                  |
| <b>-85.0</b>            | 0                        | 7                   | 24                  | 35                  | 45                  | 43                  | 44                  | 46                  | 47                  | 47                  |
| <b>-90.0</b>            | 0                        | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |

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**CANDELA TABULATION - (Cont.)**

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |              |              |              |              |              |              |             |             |             |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
|                         | <b>-25.5</b>             | <b>-22.5</b> | <b>-19.5</b> | <b>-17.0</b> | <b>-15.0</b> | <b>-13.0</b> | <b>-11.0</b> | <b>-9.0</b> | <b>-7.0</b> | <b>-5.0</b> |
| <b>90.0</b>             | 0                        | 0            | 0            | 0            | 0            | 0            | 0            | 0           | 0           | 0           |
| <b>85.0</b>             | 47                       | 48           | 50           | 51           | 52           | 51           | 51           | 51          | 50          | 49          |
| <b>75.0</b>             | 58                       | 59           | 59           | 60           | 60           | 61           | 61           | 60          | 60          | 60          |
| <b>65.0</b>             | 84                       | 85           | 88           | 89           | 90           | 91           | 92           | 93          | 92          | 93          |
| <b>55.0</b>             | 133                      | 137          | 141          | 146          | 150          | 153          | 154          | 156         | 158         | 160         |
| <b>47.5</b>             | 187                      | 202          | 213          | 220          | 228          | 236          | 242          | 248         | 253         | 256         |
| <b>42.5</b>             | 246                      | 265          | 288          | 304          | 321          | 340          | 355          | 366         | 375         | 381         |
| <b>37.5</b>             | 335                      | 371          | 419          | 454          | 478          | 520          | 557          | 586         | 611         | 630         |
| <b>33.0</b>             | 459                      | 536          | 616          | 697          | 754          | 813          | 876          | 938         | 990         | 1031        |
| <b>29.0</b>             | 626                      | 755          | 891          | 1011         | 1107         | 1215         | 1349         | 1469        | 1583        | 1695 *      |
| <b>25.5</b>             | 828                      | 1010         | 1238         | 1438         | 1656         | 1859 *       | 2050 *       | 2292 *      | 2505 *      | 2674 *      |
| <b>22.5</b>             | 1046                     | 1329         | 1674         | 2016 *       | 2333 *       | 2665 *       | 2945 *       | 3318 *      | 3633 *      | 3882 *      |
| <b>19.5</b>             | 1330                     | 1747 *       | 2250 *       | 2808 *       | 3245 *       | 3746 *       | 4202 *       | 4721 *      | 5160 *      | 5516 *      |
| <b>17.0</b>             | 1573                     | 2171 *       | 2901 *       | 3616 *       | 4199 *       | 4882 *       | 5525 *       | 6157 *      | 6697 *      | 7147 *      |
| <b>15.0</b>             | 1834 *                   | 2544 *       | 3436 *       | 4304 *       | 5123 *       | 5891 *       | 6664 *       | 7366 *      | 8011 *      | 8528 *      |
| <b>13.0</b>             | 2075 *                   | 2919 *       | 4022 *       | 5088 *       | 5999 *       | 6960 *       | 7814 *       | 8632 *      | 9336 *      | 9893 *      |
| <b>11.0</b>             | 2271 *                   | 3228 *       | 4528 *       | 5821 *       | 6887 *       | 7926 *       | 8948 *       | 9832 *      | 10595 *     | 11215 *     |
| <b>9.0</b>              | 2493 *                   | 3600 *       | 5070 *       | 6506 *       | 7665 *       | 8850 *       | 9953 *       | 10925 *     | 11773 *     | 12452 *     |
| <b>7.0</b>              | 2671 *                   | 3883 *       | 5491 *       | 7054 *       | 8368 *       | 9627 *       | 10820 *      | 11912 *     | 12845 *     | 13556 *     |
| <b>5.0</b>              | 2792 *                   | 4085 *       | 5807 *       | 7493 *       | 8880 *       | 10229 *      | 11517 *      | 12711 *     | 13711 *     | 14591 *     |
| <b>3.0</b>              | 2859 *                   | 4188 *       | 6031 *       | 7793 *       | 9255 *       | 10666 *      | 12010 *      | 13262 *     | 14403 *     | 15325 *     |
| <b>1.0</b>              | 2873 *                   | 4233 *       | 6116 *       | 7922 *       | 9443 *       | 10856 *      | 12229 *      | 13523 *     | 14731 *     | 15848 *     |
| <b>0.0</b>              | 2892 *                   | 4253 *       | 6168 *       | 7994 *       | 9508 *       | 10956 *      | 12342 *      | 13658 *     | 14883 *     | 15981 *     |
| <b>-1.0</b>             | 2873 *                   | 4234 *       | 6116 *       | 7922 *       | 9443 *       | 10856 *      | 12229 *      | 13523 *     | 14731 *     | 15848 *     |
| <b>-3.0</b>             | 2858 *                   | 4188 *       | 6031 *       | 7793 *       | 9255 *       | 10666 *      | 12010 *      | 13260 *     | 14403 *     | 15324 *     |
| <b>-5.0</b>             | 2792 *                   | 4085 *       | 5807 *       | 7493 *       | 8880 *       | 10229 *      | 11517 *      | 12703 *     | 13711 *     | 14590 *     |
| <b>-7.0</b>             | 2671 *                   | 3883 *       | 5491 *       | 7054 *       | 8353 *       | 9627 *       | 10820 *      | 11913 *     | 12845 *     | 13556 *     |
| <b>-9.0</b>             | 2491 *                   | 3600 *       | 5065 *       | 6505 *       | 7665 *       | 8850 *       | 9953 *       | 10925 *     | 11767 *     | 12452 *     |
| <b>-11.0</b>            | 2268 *                   | 3227 *       | 4528 *       | 5820 *       | 6886 *       | 7926 *       | 8942 *       | 9831 *      | 10595 *     | 11215 *     |
| <b>-13.0</b>            | 2068 *                   | 2919 *       | 4012 *       | 5087 *       | 5999 *       | 6942 *       | 7814 *       | 8632 *      | 9336 *      | 9893 *      |
| <b>-15.0</b>            | 1831 *                   | 2544 *       | 3433 *       | 4272 *       | 5123 *       | 5884 *       | 6664 *       | 7366 *      | 8011 *      | 8528 *      |
| <b>-17.0</b>            | 1573                     | 2170 *       | 2900 *       | 3615 *       | 4199 *       | 4882 *       | 5525 *       | 6157 *      | 6697 *      | 7147 *      |
| <b>-19.5</b>            | 1326                     | 1745 *       | 2250 *       | 2808 *       | 3245 *       | 3746 *       | 4202 *       | 4721 *      | 5160 *      | 5516 *      |
| <b>-22.5</b>            | 1046                     | 1329         | 1674         | 2009 *       | 2333 *       | 2665 *       | 2936 *       | 3317 *      | 3633 *      | 3882 *      |
| <b>-25.5</b>            | 827                      | 1010         | 1238         | 1437         | 1656         | 1859 *       | 2050 *       | 2292 *      | 2505 *      | 2674 *      |
| <b>-29.0</b>            | 626                      | 755          | 890          | 1011         | 1107         | 1215         | 1349         | 1469        | 1583        | 1695 *      |
| <b>-33.0</b>            | 458                      | 536          | 616          | 697          | 754          | 813          | 876          | 938         | 990         | 1031        |
| <b>-37.5</b>            | 335                      | 371          | 419          | 454          | 478          | 520          | 557          | 586         | 611         | 630         |
| <b>-42.5</b>            | 246                      | 265          | 288          | 304          | 321          | 340          | 355          | 366         | 375         | 381         |
| <b>-47.5</b>            | 187                      | 202          | 213          | 220          | 228          | 236          | 242          | 248         | 253         | 256         |
| <b>-55.0</b>            | 133                      | 137          | 141          | 146          | 150          | 153          | 154          | 156         | 158         | 160         |
| <b>-65.0</b>            | 84                       | 85           | 88           | 89           | 90           | 91           | 92           | 93          | 92          | 93          |
| <b>-75.0</b>            | 58                       | 59           | 59           | 60           | 60           | 61           | 61           | 60          | 60          | 60          |
| <b>-85.0</b>            | 47                       | 48           | 50           | 51           | 52           | 51           | 51           | 51          | 50          | 49          |
| <b>-90.0</b>            | 0                        | 0            | 0            | 0            | 0            | 0            | 0            | 0           | 0           | 0           |

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |             |            |            |            |            |            |            |             |             |
|-------------------------|--------------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
|                         | <b>-3.0</b>              | <b>-1.0</b> | <b>0.0</b> | <b>1.0</b> | <b>3.0</b> | <b>5.0</b> | <b>7.0</b> | <b>9.0</b> | <b>11.0</b> | <b>13.0</b> |
| <b>90.0</b>             | 0                        | 0           | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0           |
| <b>85.0</b>             | 49                       | 49          | 49         | 49         | 49         | 49         | 50         | 51         | 51          | 51          |
| <b>75.0</b>             | 60                       | 61          | 61         | 61         | 60         | 60         | 60         | 60         | 61          | 61          |
| <b>65.0</b>             | 93                       | 93          | 93         | 93         | 93         | 93         | 92         | 93         | 92          | 91          |

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**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 55.0  | 161     | 160     | 160     | 160     | 161     | 160     | 158     | 156     | 154     | 153     |
| 47.5  | 259     | 257     | 255     | 257     | 259     | 256     | 253     | 248     | 242     | 236     |
| 42.5  | 388     | 387     | 386     | 387     | 388     | 381     | 375     | 367     | 355     | 340     |
| 37.5  | 647     | 653     | 653     | 653     | 647     | 630     | 611     | 587     | 557     | 520     |
| 33.0  | 1066    | 1076    | 1079    | 1076    | 1066    | 1031    | 990     | 939     | 877     | 813     |
| 29.0  | 1783 *  | 1819 *  | 1828 *  | 1819 *  | 1783 *  | 1695 *  | 1585    | 1469    | 1349    | 1215    |
| 25.5  | 2796 *  | 2859 *  | 2882 *  | 2859 *  | 2796 *  | 2674 *  | 2505 *  | 2292 *  | 2050 *  | 1859 *  |
| 22.5  | 4051 *  | 4145 *  | 4171 *  | 4145 *  | 4051 *  | 3882 *  | 3633 *  | 3317 *  | 2945 *  | 2665 *  |
| 19.5  | 5783 *  | 5922 *  | 5969 *  | 5922 *  | 5786 *  | 5529 *  | 5161 *  | 4721 *  | 4202 *  | 3746 *  |
| 17.0  | 7468 *  | 7634 *  | 7688 *  | 7634 *  | 7469 *  | 7148 *  | 6698 *  | 6157 *  | 5525 *  | 4882 *  |
| 15.0  | 8890 *  | 9092 *  | 9127 *  | 9092 *  | 8895 *  | 8535 *  | 8011 *  | 7366 *  | 6668 *  | 5891 *  |
| 13.0  | 10290 * | 10479 * | 10541 * | 10479 * | 10290 * | 9899 *  | 9344 *  | 8639 *  | 7816 *  | 6960 *  |
| 11.0  | 11637 * | 11838 * | 11903 * | 11838 * | 11643 * | 11215 * | 10595 * | 9833 *  | 8948 *  | 7926 *  |
| 9.0   | 12904 * | 13126 * | 13196 * | 13126 * | 12906 * | 12455 * | 11785 * | 10925 * | 9953 *  | 8850 *  |
| 7.0   | 14084 * | 14322 * | 14399 * | 14322 * | 14084 * | 13556 * | 12845 * | 11913 * | 10820 * | 9627 *  |
| 5.0   | 15109 * | 15448 * | 15493 * | 15448 * | 15109 * | 14591 * | 13711 * | 12711 * | 11517 * | 10229 * |
| 3.0   | 15882 * | 16144 * | 16203 * | 16144 * | 15882 * | 15325 * | 14403 * | 13262 * | 12010 * | 10666 * |
| 1.0   | 16462 * | 16573 * | 16561 * | 16573 * | 16462 * | 15861 * | 14756 * | 13557 * | 12257 * | 10883 * |
| 0.0   | 16685 * | 16753 * | 16681 * | 16753 * | 16685 * | 15981 * | 14883 * | 13658 * | 12342 * | 10956 * |
| -1.0  | 16462 * | 16573 * | 16561 * | 16573 * | 16462 * | 15861 * | 14756 * | 13557 * | 12257 * | 10883 * |
| -3.0  | 15882 * | 16144 * | 16203 * | 16144 * | 15882 * | 15324 * | 14403 * | 13260 * | 12010 * | 10666 * |
| -5.0  | 15109 * | 15434 * | 15493 * | 15434 * | 15109 * | 14590 * | 13711 * | 12703 * | 11517 * | 10229 * |
| -7.0  | 14084 * | 14297 * | 14399 * | 14297 * | 14084 * | 13556 * | 12845 * | 11912 * | 10820 * | 9627 *  |
| -9.0  | 12904 * | 13093 * | 13196 * | 13093 * | 12906 * | 12455 * | 11780 * | 10925 * | 9953 *  | 8850 *  |
| -11.0 | 11637 * | 11811 * | 11903 * | 11811 * | 11643 * | 11215 * | 10595 * | 9832 *  | 8942 *  | 7926 *  |
| -13.0 | 10290 * | 10452 * | 10541 * | 10452 * | 10290 * | 9899 *  | 9344 *  | 8639 *  | 7816 *  | 6942 *  |
| -15.0 | 8890 *  | 9067 *  | 9127 *  | 9067 *  | 8895 *  | 8535 *  | 8011 *  | 7366 *  | 6668 *  | 5884 *  |
| -17.0 | 7468 *  | 7611 *  | 7688 *  | 7611 *  | 7469 *  | 7148 *  | 6698 *  | 6157 *  | 5525 *  | 4882 *  |
| -19.5 | 5783 *  | 5904 *  | 5969 *  | 5904 *  | 5786 *  | 5529 *  | 5161 *  | 4721 *  | 4202 *  | 3746 *  |
| -22.5 | 4051 *  | 4132 *  | 4171 *  | 4132 *  | 4051 *  | 3882 *  | 3633 *  | 3318 *  | 2936 *  | 2665 *  |
| -25.5 | 2788 *  | 2851 *  | 2882 *  | 2851 *  | 2788 *  | 2674 *  | 2505 *  | 2292 *  | 2050 *  | 1859 *  |
| -29.0 | 1770 *  | 1814 *  | 1828 *  | 1814 *  | 1770 *  | 1695 *  | 1585    | 1469    | 1349    | 1215    |
| -33.0 | 1055    | 1073    | 1079    | 1073    | 1055    | 1031    | 990     | 939     | 877     | 813     |
| -37.5 | 647     | 652     | 653     | 652     | 647     | 630     | 611     | 587     | 557     | 520     |
| -42.5 | 388     | 386     | 386     | 386     | 388     | 381     | 375     | 367     | 355     | 340     |
| -47.5 | 258     | 256     | 255     | 256     | 258     | 256     | 253     | 248     | 242     | 236     |
| -55.0 | 161     | 160     | 160     | 160     | 161     | 160     | 158     | 156     | 154     | 153     |
| -65.0 | 93      | 93      | 93      | 93      | 93      | 93      | 92      | 93      | 92      | 91      |
| -75.0 | 60      | 61      | 61      | 61      | 60      | 60      | 60      | 60      | 61      | 61      |
| -85.0 | 49      | 49      | 49      | 49      | 49      | 49      | 50      | 51      | 51      | 51      |
| -90.0 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |

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

|      | <u>15.0</u> | <u>17.0</u> | <u>19.5</u> | <u>22.5</u> | <u>25.5</u> | <u>29.0</u> | <u>33.0</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 85.0 | 52          | 51          | 50          | 48          | 47          | 47          | 47          | 46          | 44          | 43          |
| 75.0 | 60          | 60          | 59          | 59          | 58          | 56          | 55          | 55          | 54          | 52          |
| 65.0 | 90          | 89          | 88          | 85          | 84          | 82          | 79          | 75          | 70          | 66          |
| 55.0 | 150         | 146         | 141         | 137         | 133         | 127         | 118         | 107         | 98          | 88          |
| 47.5 | 228         | 220         | 213         | 202         | 187         | 175         | 158         | 145         | 126         | 109         |
| 42.5 | 321         | 304         | 289         | 265         | 246         | 221         | 195         | 170         | 147         | 125         |
| 37.5 | 478         | 454         | 419         | 371         | 335         | 296         | 250         | 207         | 172         | 143         |
| 33.0 | 755         | 697         | 616         | 536         | 459         | 387         | 316         | 251         | 199         | 160         |
| 29.0 | 1107        | 1011        | 891         | 755         | 626         | 502         | 393         | 299         | 225         | 176         |
| 25.5 | 1656        | 1438        | 1238        | 1010        | 828         | 645         | 479         | 348         | 253         | 189         |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |        |      |     |     |     |
|-------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|
| 22.5  | 2333 * | 2016 * | 1674   | 1329   | 1046   | 798    | 570  | 394 | 277 | 203 |
| 19.5  | 3252 * | 2808 * | 2263 * | 1748 * | 1330   | 961    | 665  | 448 | 304 | 216 |
| 17.0  | 4204 * | 3616 * | 2901 * | 2171 * | 1578   | 1110   | 761  | 488 | 322 | 226 |
| 15.0  | 5123 * | 4304 * | 3436 * | 2544 * | 1834 * | 1233   | 827  | 514 | 340 | 236 |
| 13.0  | 5999 * | 5088 * | 4022 * | 2919 * | 2075 * | 1350   | 884  | 555 | 357 | 245 |
| 11.0  | 6887 * | 5821 * | 4528 * | 3233 * | 2271 * | 1478   | 947  | 592 | 370 | 251 |
| 9.0   | 7715 * | 6506 * | 5070 * | 3600 * | 2493 * | 1586   | 1005 | 622 | 379 | 256 |
| 7.0   | 8368 * | 7054 * | 5491 * | 3883 * | 2671 * | 1681 * | 1048 | 642 | 386 | 259 |
| 5.0   | 8880 * | 7493 * | 5807 * | 4085 * | 2792 * | 1760 * | 1077 | 655 | 389 | 261 |
| 3.0   | 9255 * | 7793 * | 6031 * | 4194 * | 2859 * | 1815 * | 1095 | 665 | 394 | 263 |
| 1.0   | 9469 * | 7946 * | 6135 * | 4247 * | 2883 * | 1831 * | 1097 | 670 | 390 | 262 |
| 0.0   | 9508 * | 7994 * | 6168 * | 4253 * | 2892 * | 1833 * | 1095 | 668 | 388 | 261 |
| -1.0  | 9469 * | 7946 * | 6135 * | 4247 * | 2883 * | 1831 * | 1097 | 670 | 390 | 262 |
| -3.0  | 9255 * | 7793 * | 6031 * | 4194 * | 2858 * | 1814 * | 1095 | 665 | 394 | 263 |
| -5.0  | 8880 * | 7493 * | 5807 * | 4085 * | 2792 * | 1760 * | 1077 | 655 | 389 | 261 |
| -7.0  | 8353 * | 7054 * | 5491 * | 3883 * | 2671 * | 1681 * | 1048 | 642 | 386 | 259 |
| -9.0  | 7715 * | 6505 * | 5065 * | 3600 * | 2491 * | 1586   | 1005 | 621 | 379 | 256 |
| -11.0 | 6886 * | 5820 * | 4528 * | 3232 * | 2269 * | 1478   | 947  | 592 | 370 | 251 |
| -13.0 | 5999 * | 5087 * | 4011 * | 2919 * | 2068 * | 1349   | 884  | 555 | 357 | 245 |
| -15.0 | 5123 * | 4272 * | 3433 * | 2544 * | 1831 * | 1230   | 827  | 514 | 340 | 236 |
| -17.0 | 4204 * | 3615 * | 2900 * | 2170 * | 1578   | 1110   | 761  | 488 | 322 | 226 |
| -19.5 | 3252 * | 2808 * | 2263 * | 1746 * | 1326   | 961    | 665  | 448 | 304 | 216 |
| -22.5 | 2333 * | 2009 * | 1674   | 1329   | 1046   | 798    | 569  | 394 | 277 | 203 |
| -25.5 | 1656   | 1437   | 1238   | 1010   | 827    | 644    | 479  | 348 | 253 | 189 |
| -29.0 | 1107   | 1011   | 890    | 755    | 626    | 502    | 393  | 299 | 225 | 176 |
| -33.0 | 755    | 697    | 616    | 536    | 458    | 387    | 316  | 251 | 199 | 160 |
| -37.5 | 478    | 454    | 419    | 371    | 335    | 296    | 250  | 207 | 172 | 143 |
| -42.5 | 321    | 304    | 289    | 265    | 246    | 221    | 195  | 170 | 147 | 125 |
| -47.5 | 228    | 220    | 213    | 202    | 187    | 175    | 158  | 145 | 126 | 109 |
| -55.0 | 150    | 146    | 141    | 137    | 133    | 127    | 118  | 107 | 98  | 88  |
| -65.0 | 90     | 89     | 88     | 85     | 84     | 82     | 79   | 75  | 70  | 66  |
| -75.0 | 60     | 60     | 59     | 59     | 58     | 56     | 55   | 55  | 54  | 52  |
| -85.0 | 52     | 51     | 50     | 48     | 47     | 47     | 47   | 46  | 44  | 43  |
| -90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0   | 0   | 0   |

| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>55.0</u>       | <u>65.0</u> | <u>75.0</u> | <u>85.0</u> | <u>90.0</u> |
| 90.0            | 0                 | 0           | 0           | 0           | 0           |
| 85.0            | 45                | 35          | 24          | 7           | 0           |
| 75.0            | 52                | 49          | 46          | 22          | 0           |
| 65.0            | 61                | 54          | 49          | 35          | 0           |
| 55.0            | 75                | 61          | 53          | 42          | 0           |
| 47.5            | 87                | 68          | 54          | 43          | 0           |
| 42.5            | 97                | 73          | 56          | 44          | 0           |
| 37.5            | 108               | 77          | 57          | 45          | 0           |
| 33.0            | 118               | 81          | 58          | 46          | 0           |
| 29.0            | 127               | 84          | 59          | 47          | 0           |
| 25.5            | 135               | 87          | 60          | 48          | 0           |
| 22.5            | 141               | 89          | 60          | 49          | 0           |
| 19.5            | 147               | 91          | 60          | 50          | 0           |
| 17.0            | 151               | 93          | 61          | 51          | 0           |
| 15.0            | 154               | 94          | 61          | 51          | 0           |
| 13.0            | 157               | 95          | 61          | 52          | 0           |
| 11.0            | 159               | 95          | 61          | 52          | 0           |
| 9.0             | 161               | 96          | 61          | 53          | 0           |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**CANDELA TABULATION - (Cont.)**

|              |     |    |    |    |   |
|--------------|-----|----|----|----|---|
| <b>7.0</b>   | 163 | 96 | 61 | 53 | 0 |
| <b>5.0</b>   | 164 | 97 | 61 | 53 | 0 |
| <b>3.0</b>   | 165 | 97 | 61 | 54 | 0 |
| <b>1.0</b>   | 165 | 96 | 60 | 54 | 0 |
| <b>0.0</b>   | 165 | 96 | 60 | 54 | 0 |
| <b>-1.0</b>  | 165 | 96 | 60 | 54 | 0 |
| <b>-3.0</b>  | 165 | 97 | 61 | 54 | 0 |
| <b>-5.0</b>  | 164 | 97 | 61 | 53 | 0 |
| <b>-7.0</b>  | 163 | 96 | 61 | 53 | 0 |
| <b>-9.0</b>  | 161 | 96 | 62 | 53 | 0 |
| <b>-11.0</b> | 159 | 95 | 61 | 52 | 0 |
| <b>-13.0</b> | 157 | 95 | 61 | 52 | 0 |
| <b>-15.0</b> | 154 | 94 | 61 | 51 | 0 |
| <b>-17.0</b> | 151 | 93 | 61 | 51 | 0 |
| <b>-19.5</b> | 147 | 91 | 60 | 50 | 0 |
| <b>-22.5</b> | 141 | 89 | 60 | 49 | 0 |
| <b>-25.5</b> | 135 | 87 | 60 | 48 | 0 |
| <b>-29.0</b> | 127 | 84 | 59 | 47 | 0 |
| <b>-33.0</b> | 118 | 81 | 58 | 46 | 0 |
| <b>-37.5</b> | 108 | 77 | 57 | 45 | 0 |
| <b>-42.5</b> | 97  | 73 | 56 | 44 | 0 |
| <b>-47.5</b> | 87  | 68 | 54 | 43 | 0 |
| <b>-55.0</b> | 75  | 61 | 53 | 42 | 0 |
| <b>-65.0</b> | 61  | 54 | 49 | 35 | 0 |
| <b>-75.0</b> | 52  | 49 | 46 | 22 | 0 |
| <b>-85.0</b> | 45  | 35 | 24 | 7  | 0 |
| <b>-90.0</b> | 0   | 0  | 0  | 0  | 0 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 3286.73

Total Field Lumens (one side of beam only) = 2672.33

\* Indicates Values Inside Field Edge

| Vert.<br>Angles | Horizontal Angles |          |          |          |          |          |           |           |           |           |
|-----------------|-------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
|                 | <u>0</u>          | <u>1</u> | <u>3</u> | <u>5</u> | <u>7</u> | <u>9</u> | <u>11</u> | <u>13</u> | <u>15</u> | <u>17</u> |
| 90              |                   |          |          |          |          |          |           |           |           |           |
| 85              | 0.04              | 0.07     | 0.07     | 0.07     | 0.08     | 0.08     | 0.08      | 0.08      | 0.08      | 0.09      |
| 75              | 0.17              | 0.33     | 0.33     | 0.33     | 0.33     | 0.33     | 0.33      | 0.33      | 0.33      | 0.40      |
| 65              | 0.23              | 0.47     | 0.46     | 0.46     | 0.46     | 0.46     | 0.45      | 0.45      | 0.44      | 0.54      |
| 55              | 0.39              | 0.77     | 0.77     | 0.76     | 0.75     | 0.74     | 0.73      | 0.72      | 0.70      | 0.84      |
| 47.5            | 0.48              | 0.96     | 0.95     | 0.94     | 0.92     | 0.90     | 0.88      | 0.85      | 0.82      | 0.98      |
| 42.5            | 0.49              | 0.98     | 0.98     | 0.96     | 0.94     | 0.91     | 0.87      | 0.83      | 0.79      | 0.93      |
| 37.5            | 0.79              | 1.58     | 1.55     | 1.51     | 1.46     | 1.40     | 1.32      | 1.23      | 1.14      | 1.32      |
| 33              | 1.19              | 2.36     | 2.31     | 2.22     | 2.12     | 2.00     | 1.85      | 1.71      | 1.57      | 1.78      |
| 29              | 1.77              | 3.50     | 3.39     | 3.21     | 3.01     | 2.78     | 2.53      | 2.30      | 2.09      | 2.33      |
| 25.5            | 2.50 *            | 4.93 *   | 4.76 *   | 4.48 *   | 4.14 *   | 3.76 *   | 3.38      | 3.02      | 2.67      | 2.90      |
| 22.5            | 3.21 *            | 6.32 *   | 6.11 *   | 5.77 *   | 5.32 *   | 4.77 *   | 4.25 *    | 3.77 *    | 3.27 *    | 3.45      |
| 19.5            | 4.62 *            | 9.09 *   | 8.77 *   | 8.27 *   | 7.62 *   | 6.83 *   | 6.06 *    | 5.32 *    | 4.57 *    | 4.75 *    |
| 17              | 5.18 *            | 10.20 *  | 9.85 *   | 9.29 *   | 8.57 *   | 7.73 *   | 6.84 *    | 5.94 *    | 5.08 *    | 5.23 *    |
| 15              | 5.11 *            | 10.07 *  | 9.74 *   | 9.21 *   | 8.52 *   | 7.71 *   | 6.84 *    | 5.94 *    | 5.05 *    | 5.16 *    |
| 13              | 5.98 *            | 11.80 *  | 11.43 *  | 10.84 *  | 10.06 *  | 9.14 *   | 8.14 *    | 7.09 *    | 6.01 *    | 6.09 *    |
| 11              | 6.82 *            | 13.47 *  | 13.08 *  | 12.43 *  | 11.58 *  | 10.57 *  | 9.43 *    | 8.21 *    | 6.97 *    | 7.04 *    |
| 9               | 7.62 *            | 15.07 *  | 14.65 *  | 13.95 *  | 13.01 *  | 11.90 *  | 10.63 *   | 9.27 *    | 7.88 *    | 7.93 *    |
| 7               | 8.38 *            | 16.57 *  | 16.10 *  | 15.34 *  | 14.32 *  | 13.08 *  | 11.69 *   | 10.21 *   | 8.67 *    | 8.72 *    |
| 5               | 9.09 *            | 17.95 *  | 17.42 *  | 16.57 *  | 15.44 *  | 14.09 *  | 12.57 *   | 10.97 *   | 9.31 *    | 9.35 *    |
| 3               | 9.64 *            | 19.05 *  | 18.51 *  | 17.58 *  | 16.31 *  | 14.85 *  | 13.24 *   | 11.54 *   | 9.79 *    | 9.81 *    |
| 1               | 9.97 *            | 19.81 *  | 19.30 *  | 18.27 *  | 16.88 *  | 15.32 *  | 13.64 *   | 11.90 *   | 10.08 *   | 10.08 *   |
| 0               | 5.07 *            | 10.12 *  | 9.87 *   | 9.31 *   | 8.57 *   | 7.77 *   | 6.91 *    | 6.03 *    | 5.11 *    | 5.10 *    |
| -1              | 5.07 *            | 10.12 *  | 9.87 *   | 9.31 *   | 8.57 *   | 7.77 *   | 6.91 *    | 6.03 *    | 5.11 *    | 5.10 *    |
|                 | 9.97 *            | 19.81 *  | 19.30 *  | 18.27 *  | 16.88 *  | 15.31 *  | 13.64 *   | 11.90 *   | 10.08 *   | 10.08 *   |



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

|              |        |         |         |         |         |         |         |         |        |        |
|--------------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| <b>-3</b>    | 9.64 * | 19.05 * | 18.51 * | 17.58 * | 16.31 * | 14.85 * | 13.24 * | 11.54 * | 9.79 * | 9.81 * |
| <b>-5</b>    | 9.08 * | 17.94 * | 17.42 * | 16.57 * | 15.44 * | 14.08 * | 12.57 * | 10.96 * | 9.31 * | 9.35 * |
| <b>-7</b>    | 8.37 * | 16.55 * | 16.10 * | 15.34 * | 14.31 * | 13.08 * | 11.69 * | 10.20 * | 8.67 * | 8.72 * |
| <b>-9</b>    | 7.62 * | 15.05 * | 14.65 * | 13.95 * | 13.01 * | 11.89 * | 10.63 * | 9.27 *  | 7.88 * | 7.93 * |
| <b>-11</b>   | 6.81 * | 13.45 * | 13.08 * | 12.43 * | 11.58 * | 10.57 * | 9.42 *  | 8.20 *  | 6.97 * | 7.03 * |
| <b>-13</b>   | 5.97 * | 11.78 * | 11.43 * | 10.84 * | 10.06 * | 9.14 *  | 8.14 *  | 7.08 *  | 6.00 * | 6.08 * |
| <b>-15</b>   | 5.10 * | 10.06 * | 9.74 *  | 9.21 *  | 8.52 *  | 7.71 *  | 6.84 *  | 5.94 *  | 5.04 * | 5.14 * |
| <b>-17</b>   | 5.17 * | 10.19 * | 9.85 *  | 9.29 *  | 8.57 *  | 7.73 *  | 6.84 *  | 5.94 *  | 5.08 * | 5.23 * |
| <b>-19.5</b> | 4.61 * | 9.07 *  | 8.77 *  | 8.27 *  | 7.62 *  | 6.83 *  | 6.06 *  | 5.32 *  | 4.57 * | 4.74 * |
| <b>-22.5</b> | 3.21 * | 6.31 *  | 6.11 *  | 5.77 *  | 5.32 *  | 4.77 *  | 4.25 *  | 3.77 *  | 3.27 * | 3.45   |
| <b>-25.5</b> | 2.50 * | 4.91 *  | 4.75 *  | 4.48 *  | 4.14 *  | 3.76 *  | 3.38    | 3.02    | 2.67   | 2.90   |
| <b>-29</b>   | 1.76   | 3.48    | 3.37    | 3.21    | 3.01    | 2.78    | 2.53    | 2.30    | 2.09   | 2.32   |
| <b>-33</b>   | 1.18   | 2.35    | 2.30    | 2.22    | 2.12    | 2.00    | 1.85    | 1.71    | 1.57   | 1.78   |
| <b>-37.5</b> | 0.79   | 1.58    | 1.55    | 1.51    | 1.46    | 1.40    | 1.32    | 1.23    | 1.14   | 1.32   |
| <b>-42.5</b> | 0.49   | 0.98    | 0.97    | 0.96    | 0.94    | 0.91    | 0.87    | 0.83    | 0.79   | 0.93   |
| <b>-47.5</b> | 0.47   | 0.95    | 0.95    | 0.94    | 0.92    | 0.90    | 0.88    | 0.85    | 0.82   | 0.98   |
| <b>-55</b>   | 0.39   | 0.77    | 0.77    | 0.76    | 0.75    | 0.74    | 0.73    | 0.72    | 0.70   | 0.84   |
| <b>-65</b>   | 0.23   | 0.47    | 0.46    | 0.46    | 0.46    | 0.46    | 0.45    | 0.45    | 0.44   | 0.54   |
| <b>-75</b>   | 0.17   | 0.33    | 0.33    | 0.33    | 0.33    | 0.33    | 0.33    | 0.33    | 0.33   | 0.40   |
| <b>-85</b>   | 0.04   | 0.07    | 0.07    | 0.07    | 0.08    | 0.08    | 0.08    | 0.08    | 0.08   | 0.09   |
| <b>-90</b>   |        |         |         |         |         |         |         |         |        |        |
| <b>Total</b> | 177.36 | 350.74  | 340.77  | 323.56  | 300.79  | 274.20  | 245.34  | 215.30  | 184.73 | 189.55 |

| <b>Vert. Angles</b> | <b>Horizontal Angles</b> |             |             |           |           |             |             |             |           |           |
|---------------------|--------------------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
|                     | <u>19.5</u>              | <u>22.5</u> | <u>25.5</u> | <u>29</u> | <u>33</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> | <u>55</u> | <u>65</u> |
| <b>90</b>           |                          |             |             |           |           |             |             |             |           |           |
| <b>85</b>           | 0.10                     | 0.10        | 0.11        | 0.12      | 0.13      | 0.13        | 0.12        | 0.16        | 0.15      | 0.08      |
| <b>75</b>           | 0.46                     | 0.44        | 0.49        | 0.54      | 0.57      | 0.58        | 0.52        | 0.69        | 0.69      | 0.40      |
| <b>65</b>           | 0.62                     | 0.60        | 0.66        | 0.71      | 0.74      | 0.74        | 0.65        | 0.83        | 0.82      | 0.52      |
| <b>55</b>           | 0.96                     | 0.92        | 1.01        | 1.06      | 1.06      | 1.02        | 0.87        | 1.04        | 0.95      | 0.56      |
| <b>55</b>           | 1.11                     | 1.03        | 1.11        | 1.13      | 1.11      | 1.04        | 0.85        | 0.96        | 0.83      | 0.46      |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

|              |        |        |        |      |      |      |      |      |      |      |
|--------------|--------|--------|--------|------|------|------|------|------|------|------|
| <b>47.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 1.03   | 0.94   | 0.98   | 0.98 | 0.93 | 0.86 | 0.68 | 0.75 | 0.62 | 0.33 |
| <b>42.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 1.43   | 1.27   | 1.30   | 1.26 | 1.15 | 1.01 | 0.79 | 0.84 | 0.68 | 0.34 |
| <b>37.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 1.86   | 1.60   | 1.57   | 1.47 | 1.29 | 1.09 | 0.82 | 0.85 | 0.66 | 0.32 |
| <b>33</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 2.39   | 1.98   | 1.87   | 1.67 | 1.41 | 1.14 | 0.82 | 0.83 | 0.62 | 0.29 |
| <b>29</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 2.91   | 2.35   | 2.16   | 1.84 | 1.49 | 1.15 | 0.79 | 0.78 | 0.58 | 0.26 |
| <b>25.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 3.36   | 2.64   | 2.36   | 1.95 | 1.50 | 1.11 | 0.74 | 0.72 | 0.52 | 0.23 |
| <b>22.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 4.48 * | 3.41   | 2.94   | 2.34 | 1.74 | 1.24 | 0.81 | 0.76 | 0.53 | 0.23 |
| <b>19.5</b>  |        |        |        |      |      |      |      |      |      |      |
|              | 4.84 * | 3.56 * | 2.95   | 2.28 | 1.65 | 1.14 | 0.72 | 0.66 | 0.46 | 0.20 |
| <b>17</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 4.71 * | 3.39 * | 2.73   | 2.05 | 1.45 | 0.97 | 0.60 | 0.55 | 0.37 | 0.16 |
| <b>15</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 5.51 * | 3.91 * | 3.08   | 2.24 | 1.56 | 1.03 | 0.63 | 0.57 | 0.38 | 0.16 |
| <b>13</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 6.27 * | 4.38 * | 3.40 * | 2.43 | 1.67 | 1.09 | 0.66 | 0.58 | 0.38 | 0.16 |
| <b>11</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 7.01 * | 4.84 * | 3.71 * | 2.62 | 1.77 | 1.14 | 0.68 | 0.59 | 0.39 | 0.16 |
| <b>9</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 7.70 * | 5.28 * | 3.99 * | 2.78 | 1.86 | 1.18 | 0.69 | 0.60 | 0.39 | 0.16 |
| <b>7</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 8.22 * | 5.61 * | 4.22 * | 2.91 | 1.91 | 1.21 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>5</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 8.58 * | 5.81 * | 4.37 * | 3.00 | 1.95 | 1.23 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>3</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 8.78 * | 5.91 * | 4.44 * | 3.05 | 1.97 | 1.23 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>1</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 4.43 * | 2.98 * | 2.23 * | 1.53 | 0.99 | 0.62 | 0.35 | 0.30 | 0.20 | 0.08 |
| <b>0</b>     |        |        |        |      |      |      |      |      |      |      |
|              | 4.43 * | 2.98 * | 2.23 * | 1.53 | 0.99 | 0.62 | 0.35 | 0.30 | 0.20 | 0.08 |
| <b>-1</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 8.78 * | 5.91 * | 4.44 * | 3.04 | 1.97 | 1.23 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>-3</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 8.58 * | 5.81 * | 4.37 * | 3.00 | 1.95 | 1.23 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>-5</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 8.22 * | 5.61 * | 4.22 * | 2.91 | 1.91 | 1.21 | 0.70 | 0.61 | 0.40 | 0.16 |
| <b>-7</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 7.69 * | 5.28 * | 3.99 * | 2.78 | 1.86 | 1.18 | 0.69 | 0.60 | 0.39 | 0.16 |
| <b>-9</b>    |        |        |        |      |      |      |      |      |      |      |
|              | 7.00 * | 4.84 * | 3.71 * | 2.62 | 1.77 | 1.14 | 0.68 | 0.59 | 0.39 | 0.16 |
| <b>-11</b>   |        |        |        |      |      |      |      |      |      |      |
|              | 6.26 * | 4.38 * | 3.39 * | 2.43 | 1.67 | 1.09 | 0.66 | 0.58 | 0.38 | 0.16 |
| <b>-13</b>   |        |        |        |      |      |      |      |      |      |      |
|              | 5.51 * | 3.91 * | 3.07   | 2.24 | 1.56 | 1.03 | 0.63 | 0.57 | 0.38 | 0.16 |
| <b>-15</b>   |        |        |        |      |      |      |      |      |      |      |
|              | 4.71 * | 3.39 * | 2.72   | 2.05 | 1.45 | 0.97 | 0.60 | 0.55 | 0.37 | 0.16 |
| <b>-17</b>   |        |        |        |      |      |      |      |      |      |      |
|              | 4.84 * | 3.56 * | 2.95   | 2.28 | 1.65 | 1.14 | 0.72 | 0.66 | 0.46 | 0.20 |
| <b>-19.5</b> |        |        |        |      |      |      |      |      |      |      |
|              | 4.48 * | 3.41   | 2.94   | 2.34 | 1.74 | 1.24 | 0.81 | 0.76 | 0.53 | 0.23 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

|              |        |        |        |       |       |       |       |       |       |       |
|--------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>-22.5</b> | 3.36   | 2.64   | 2.36   | 1.95  | 1.50  | 1.11  | 0.74  | 0.72  | 0.52  | 0.23  |
| <b>-25.5</b> | 2.91   | 2.35   | 2.16   | 1.84  | 1.49  | 1.15  | 0.79  | 0.78  | 0.58  | 0.26  |
| <b>-29</b>   | 2.39   | 1.98   | 1.87   | 1.67  | 1.41  | 1.14  | 0.82  | 0.83  | 0.62  | 0.29  |
| <b>-33</b>   | 1.86   | 1.60   | 1.57   | 1.47  | 1.29  | 1.09  | 0.82  | 0.85  | 0.66  | 0.32  |
| <b>-37.5</b> | 1.43   | 1.27   | 1.30   | 1.26  | 1.15  | 1.01  | 0.79  | 0.84  | 0.68  | 0.34  |
| <b>-42.5</b> | 1.03   | 0.94   | 0.98   | 0.98  | 0.93  | 0.86  | 0.68  | 0.75  | 0.62  | 0.33  |
| <b>-47.5</b> | 1.11   | 1.03   | 1.11   | 1.13  | 1.11  | 1.04  | 0.85  | 0.96  | 0.83  | 0.46  |
| <b>-55</b>   | 0.96   | 0.92   | 1.01   | 1.06  | 1.06  | 1.02  | 0.87  | 1.04  | 0.95  | 0.56  |
| <b>-65</b>   | 0.62   | 0.60   | 0.66   | 0.71  | 0.74  | 0.74  | 0.65  | 0.83  | 0.82  | 0.52  |
| <b>-75</b>   | 0.46   | 0.44   | 0.49   | 0.54  | 0.57  | 0.58  | 0.52  | 0.69  | 0.69  | 0.40  |
| <b>-85</b>   | 0.10   | 0.10   | 0.11   | 0.12  | 0.13  | 0.13  | 0.12  | 0.16  | 0.15  | 0.08  |
| <b>-90</b>   |        |        |        |       |       |       |       |       |       |       |
| <b>Total</b> | 173.52 | 125.87 | 103.34 | 79.90 | 59.79 | 43.91 | 29.78 | 29.74 | 22.83 | 11.22 |

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                  |                  |                     |
|-------------------------|--------------------------|------------------|------------------|---------------------|
|                         | <b><u>75</u></b>         | <b><u>85</u></b> | <b><u>90</u></b> | <b><u>Total</u></b> |
| <b>90</b>               |                          |                  |                  |                     |
|                         | 0.02                     | 0.00             |                  | 1.96                |
| <b>85</b>               |                          |                  |                  |                     |
|                         | 0.13                     | 0.00             |                  | 8.73                |
| <b>75</b>               |                          |                  |                  |                     |
|                         | 0.20                     | 0.01             |                  | 11.51               |
| <b>65</b>               |                          |                  |                  |                     |
|                         | 0.24                     | 0.01             |                  | 16.86               |
| <b>55</b>               |                          |                  |                  |                     |
|                         | 0.19                     | 0.01             |                  | 18.49               |
| <b>47.5</b>             |                          |                  |                  |                     |
|                         | 0.13                     | 0.01             |                  | 16.90               |
| <b>42.5</b>             |                          |                  |                  |                     |
|                         | 0.13                     | 0.01             |                  | 23.52               |
| <b>37.5</b>             |                          |                  |                  |                     |
|                         | 0.12                     | 0.01             |                  | 30.75               |
| <b>33</b>               |                          |                  |                  |                     |
|                         | 0.11                     | 0.01             |                  | 40.03               |
| <b>29</b>               |                          |                  |                  |                     |
|                         | 0.10                     | 0.01             |                  | 50.96               |
| <b>25.5</b>             |                          |                  |                  |                     |
|                         | 0.09                     | 0.00             |                  | 61.47               |
| <b>22.5</b>             |                          |                  |                  |                     |
|                         | 0.09                     | 0.00             |                  | 84.48               |
| <b>19.5</b>             |                          |                  |                  |                     |
|                         | 0.07                     | 0.00             |                  | 92.44               |
| <b>17</b>               |                          |                  |                  |                     |
|                         | 0.06                     | 0.00             |                  | 90.39               |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

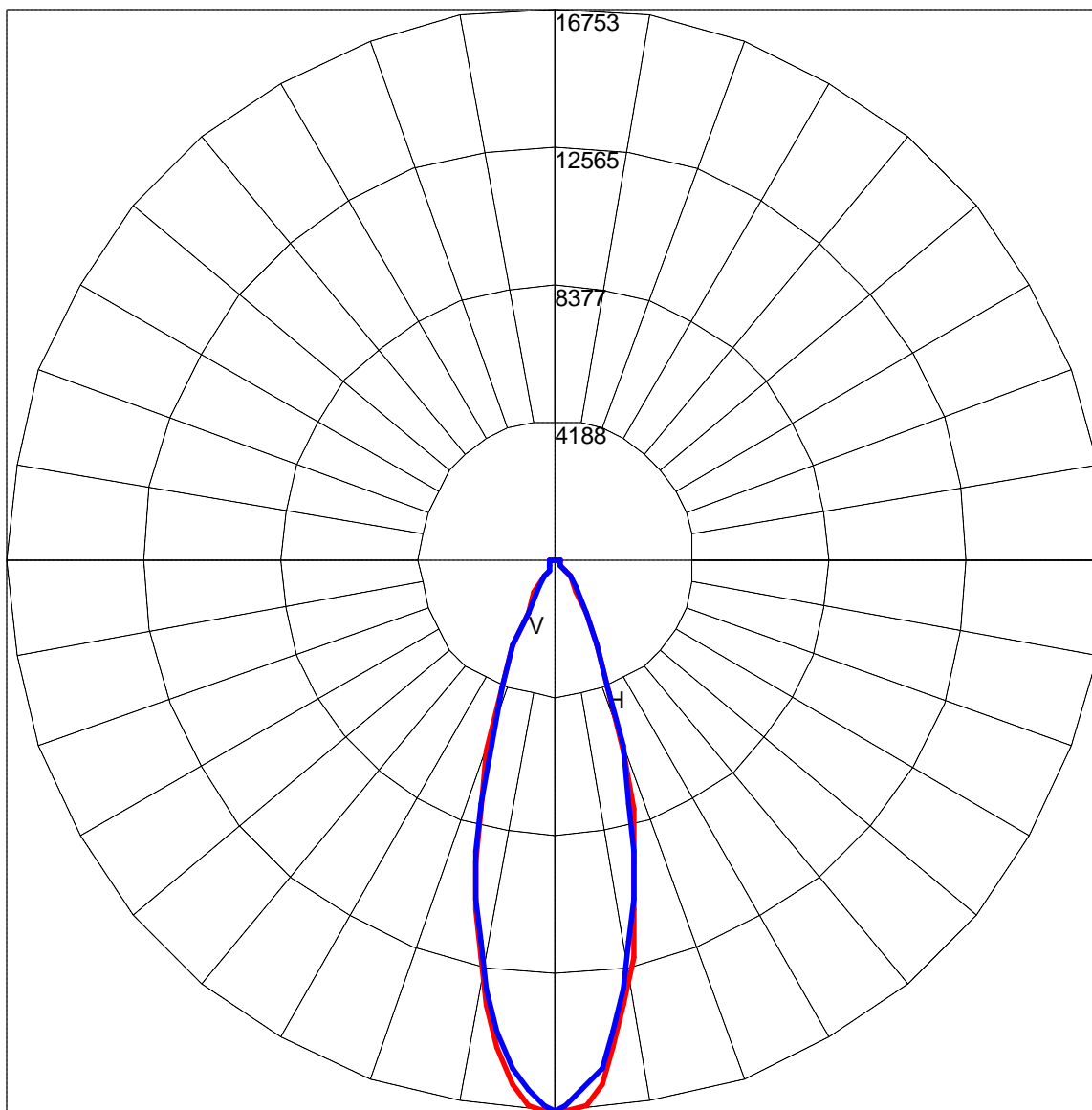
|              |      |      |        |
|--------------|------|------|--------|
| <b>15</b>    | 0.06 | 0.00 | 105.70 |
| <b>13</b>    | 0.06 | 0.00 | 120.68 |
| <b>11</b>    | 0.06 | 0.00 | 134.88 |
| <b>9</b>     | 0.06 | 0.00 | 147.79 |
| <b>7</b>     | 0.06 | 0.00 | 158.74 |
| <b>5</b>     | 0.06 | 0.00 | 167.19 |
| <b>3</b>     | 0.06 | 0.00 | 172.58 |
| <b>1</b>     | 0.03 | 0.00 | 87.60  |
| <b>0</b>     | 0.03 | 0.00 | 87.60  |
| <b>-1</b>    | 0.06 | 0.00 | 172.58 |
| <b>-3</b>    | 0.06 | 0.00 | 167.17 |
| <b>-5</b>    | 0.06 | 0.00 | 158.71 |
| <b>-7</b>    | 0.06 | 0.00 | 147.74 |
| <b>-9</b>    | 0.06 | 0.00 | 134.83 |
| <b>-11</b>   | 0.06 | 0.00 | 120.62 |
| <b>-13</b>   | 0.06 | 0.00 | 105.62 |
| <b>-15</b>   | 0.06 | 0.00 | 90.33  |
| <b>-17</b>   | 0.07 | 0.00 | 92.40  |
| <b>-19.5</b> | 0.09 | 0.00 | 84.43  |
| <b>-22.5</b> | 0.09 | 0.00 | 61.43  |
| <b>-25.5</b> | 0.10 | 0.01 | 50.92  |
| <b>-29</b>   | 0.11 | 0.01 | 39.99  |
| <b>-33</b>   | 0.12 | 0.01 | 30.73  |
| <b>-37.5</b> | 0.13 | 0.01 | 23.52  |
| <b>-42.5</b> | 0.13 | 0.01 | 16.90  |
| <b>-47.5</b> | 0.19 | 0.01 | 18.49  |
| <b>-55</b>   | 0.24 | 0.01 | 16.86  |
| <b>-65</b>   | 0.20 | 0.01 | 11.51  |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-MF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

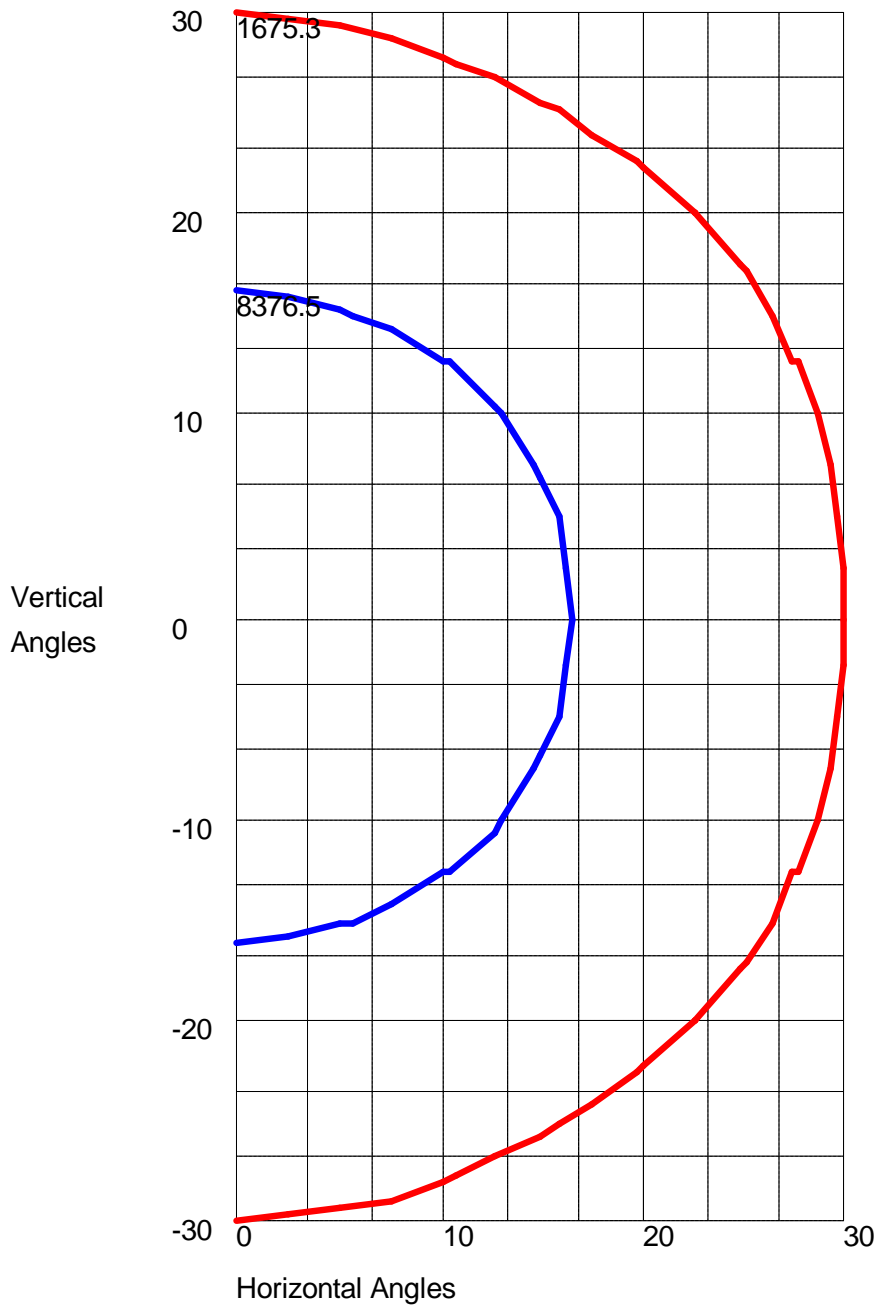
|              |      |      |         |
|--------------|------|------|---------|
| <b>-75</b>   | 0.13 | 0.00 | 8.73    |
| <b>-85</b>   | 0.02 | 0.00 | 1.96    |
| <b>-90</b>   |      |      |         |
| <b>Total</b> | 4.26 | 0.23 | 3286.74 |

AXIAL CANDELA DISPLAY



Maximum Candela = 16753 Located At Horizontal Angle = -1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 16753 Located At Horizontal Angle = -1, Vertical Angle = 0  
50% Maximum Candela = 8376.5  
10% Maximum Candela = 1675.3