

IES FLOOD REPORT
PHOTOMETRIC FILENAME : AES-01-ST10-070-3070-R09601.IES

CANDELA TABULATION

Maximum Candela = 5301.009

Beam Edge = 2650.5045 Cd (50% of Max.)

Field Edge = 530.1009 Cd (10% of Max.)

* Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <u>-90.0</u> | <u>-85.0</u> | <u>-75.0</u> | <u>-65.0</u> | <u>-55.0</u> | <u>-47.5</u> | <u>-42.5</u> | <u>-37.5</u> | <u>-33.0</u> | <u>-29.0</u> |
| 90.0 | 0.000 | 0.014 | 0.035 | 0.046 | 0.048 | 0.047 | 0.047 | 0.047 | 0.048 | 0.049 |
| 85.0 | 0.015 | 7.987 | 7.991 | 7.570 | 7.337 | 7.337 | 7.119 | 7.244 | 7.475 | 7.823 |
| 75.0 | 0.044 | 9.184 | 15.589 | 49.403 | 90.744 | 73.302 | 71.324 | 69.195 | 77.970 | 97.331 |
| 65.0 | 0.072 | 10.781 | 48.755 | 529.262 | 686.665 * | 558.498 * | 277.278 | 149.447 | 169.151 | 255.121 |
| 55.0 | 0.098 | 12.301 | 307.355 | 2505.575 | *2433.367 | *1744.603 | *1079.410 | *552.212 * | 688.907 * | 751.958 * |
| 47.5 | 0.115 | 13.762 | 745.602 * | 4280.833 | *3676.573 | *3321.381 | *2981.207 | *2668.044 | *2392.668 | *2162.351 * |
| 42.5 | 0.125 | 15.122 | 1146.448 | *4945.339 | *4435.254 | *4463.629 | *4140.386 | *3749.097 | *3583.646 | *3441.408 * |
| 37.5 | 0.135 | 16.805 | 1579.685 | *5228.898 | *4940.695 | *5042.084 | *4698.406 | *4404.726 | *4248.461 | *4114.011 * |
| 33.0 | 0.143 | 18.539 | 1957.832 | *5301.009 | *5052.986 | *4984.384 | *4787.056 | *4506.215 | *4322.144 | *4206.777 * |
| 29.0 | 0.149 | 20.179 | 2268.029 | *5236.986 | *4934.418 | *4712.461 | *4553.658 | *4315.168 | *4111.032 | *4001.517 * |
| 25.5 | 0.153 | 21.532 | 2446.311 | *5100.294 | *4709.856 | *4389.483 | *4238.380 | *4031.711 | *3849.270 | *3764.373 * |
| 22.5 | 0.157 | 23.013 | 2564.754 | *4967.524 | *4460.741 | *4097.309 | *3948.300 | *3758.243 | *3616.345 | *3541.486 * |
| 19.5 | 0.160 | 24.342 | 2641.702 | *4767.983 | *4225.554 | *3812.669 | *3683.610 | *3506.741 | *3398.335 | *3326.100 * |
| 17.0 | 0.163 | 25.329 | 2649.981 | *4596.463 | *4028.426 | *3588.439 | *3475.442 | *3331.629 | *3236.988 | *3155.609 * |
| 15.0 | 0.164 | 26.036 | 2643.211 | *4429.814 | *3874.123 | *3455.333 | *3320.289 | *3199.604 | *3120.034 | *3042.933 * |
| 13.0 | 0.166 | 26.668 | 2589.417 | *4251.969 | *3718.572 | *3331.801 | *3197.220 | *3081.421 | *3011.676 | *2944.777 * |
| 11.0 | 0.167 | 28.519 | 2531.811 | *4077.228 | *3575.335 | *3221.743 | *3094.943 | *2977.829 | *2911.615 | *2859.817 * |
| 9.0 | 0.168 | 28.571 | 2481.929 | *3867.876 | *3431.425 | *3114.241 | *2998.121 | *2886.845 | *2825.162 | *2780.263 * |
| 7.0 | 0.169 | 28.624 | 2339.877 | *3658.220 | *3294.852 | *3019.426 | *2909.653 | *2801.874 | *2746.748 | *2702.844 * |
| 5.0 | 0.169 | 28.677 | 2236.294 | *3443.770 | *3159.542 | *2931.995 | *2828.631 | *2726.276 | *2671.534 | *2628.743 * |
| 3.0 | 0.170 | 28.730 | 2083.270 | *3198.494 | *3026.090 | *2850.227 | *2751.850 | *2654.820 | *2600.162 | *2558.321 * |
| 1.0 | 0.170 | 28.783 | 1929.926 | *2954.902 | *2896.748 | *2777.879 | *2685.246 | *2588.087 | *2531.413 | *2490.960 * |
| 0.0 | 0.170 | 28.810 | 1853.200 | *2833.000 | *2832.000 | *2742.000 | *2652.600 | *2556.400 | *2498.100 | *2458.500 * |
| -1.0 | 0.170 | 28.810 | 1825.613 | *2790.513 | *2790.020 | *2704.839 | *2615.633 | *2521.638 | *2463.309 | *2423.875 * |
| -3.0 | 0.170 | 28.685 | 1770.479 | *2705.614 | *2706.160 | *2630.657 | *2541.789 | *2453.018 | *2394.475 | *2354.696 * |
| -5.0 | 0.169 | 28.602 | 1715.459 | *2618.054 | *2624.875 | *2557.234 | *2470.983 | *2384.276 | *2325.274 | *2284.274 * |
| -7.0 | 0.169 | 28.520 | 1626.737 | *2533.901 | *2543.821 | *2483.436 | *2401.705 | *2315.052 | *2255.623 | *2212.789 * |
| -9.0 | 0.168 | 28.437 | 1551.732 | *2449.376 | *2464.922 | *2409.140 | *2327.453 | *2246.567 | *2185.322 | *2139.732 * |
| -11.0 | 0.167 | 28.356 | 1476.699 | *2370.973 | *2385.642 | *2334.099 | *2256.222 | *2177.251 | *2113.665 | *2064.849 * |
| -13.0 | 0.166 | 26.499 | 1399.362 | *2280.629 | *2308.504 | *2258.507 | *2185.213 | *2105.801 | *2039.497 | *1990.099 * |
| -15.0 | 0.164 | 25.851 | 1325.336 | *2195.692 | *2230.197 | *2182.650 | *2114.549 | *2031.932 | *1964.348 | *1915.163 * |
| -17.0 | 0.163 | 25.131 | 1235.895 | *2110.252 | *2153.383 | *2106.527 | *2041.584 | *1956.031 | *1888.773 | *1838.765 * |
| -19.5 | 0.160 | 24.135 | 1130.508 | *2006.325 | *2056.934 | *2008.794 | *1948.947 | *1861.167 | *1794.133 | *1742.116 * |
| -22.5 | 0.157 | 22.805 | 1006.923 | *1874.187 | *1940.800 | *1891.249 | *1834.646 | *1744.607 | *1682.409 | *1629.162 * |
| -25.5 | 0.153 | 21.335 | 882.371 * | 1742.576 | *1826.038 | *1776.555 | *1720.021 | *1633.878 | *1575.785 | *1521.593 * |
| -29.0 | 0.149 | 20.074 | 741.494 * | 1570.304 | *1690.103 | *1647.521 | *1593.820 | *1517.367 | *1457.798 | *1410.702 * |
| -33.0 | 0.143 | 18.582 | 597.344 * | 1379.488 | *1529.510 | *1503.193 | *1457.407 | *1395.308 | *1337.849 | *1292.901 * |
| -37.5 | 0.135 | 17.048 | 455.982 | 1152.512 | *1340.113 | *1340.950 | *1307.406 | *1262.953 | *1218.698 | *1182.500 * |
| -42.5 | 0.125 | 15.484 | 327.342 | 892.135 * | 1119.561 | *1148.293 | *1140.851 | *1112.570 | *1083.375 | *1060.443 * |
| -47.5 | 0.115 | 14.241 | 222.709 | 644.981 * | 882.875 * | 942.239 * | 953.686 * | 955.258 * | 942.074 * | 929.721 * |
| -55.0 | 0.098 | 12.960 | 113.311 | 334.784 | 518.633 | 603.505 * | 639.365 * | 664.983 * | 680.334 * | 690.425 * |
| -65.0 | 0.072 | 11.818 | 46.391 | 102.331 | 185.768 | 232.081 | 264.983 | 285.366 | 307.078 | 324.194 |
| -75.0 | 0.044 | 10.585 | 16.571 | 35.424 | 46.873 | 60.567 | 70.485 | 69.687 | 66.409 | 61.727 |
| -85.0 | 0.015 | 9.614 | 11.384 | 11.126 | 10.150 | 8.935 | 7.811 | 6.499 | 5.104 | 3.969 |
| -90.0 | 0.000 | 0.017 | 0.055 | 0.084 | 0.092 | 0.085 | 0.075 | 0.063 | 0.052 | 0.044 |

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CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| | <u>-25.5</u> | <u>-22.5</u> | <u>-19.5</u> | <u>-17.0</u> | <u>-15.0</u> | <u>-13.0</u> | <u>-11.0</u> | <u>-9.0</u> | <u>-7.0</u> | <u>-5.0</u> |
| 90.0 | 0.050 | 0.050 | 0.051 | 0.051 | 0.051 | 0.050 | 0.050 | 0.049 | 0.048 | 0.047 |
| 85.0 | 8.107 | 8.412 | 8.644 | 8.731 | 8.702 | 8.093 | 7.645 | 6.718 | 5.808 | 4.940 |
| 75.0 | 105.400 | 112.061 | 117.394 | 119.955 | 120.639 | 112.512 | 101.616 | 90.092 | 78.442 | 68.628 |
| 65.0 | 298.941 | 305.091 | 313.456 | 319.564 | 324.294 | 327.911 | 330.004 | 331.448 | 332.521 | 333.304 |
| 55.0 | 632.284 * | 574.793 * | 572.805 * | 605.161 * | 638.215 * | 668.830 * | 669.962 * | 662.543 * | 660.031 * | 660.273 * |
| 47.5 | 2041.235 | *1970.707 | *1922.376 | *1859.926 | *1816.198 | *1779.489 | *1752.477 | *1737.353 | *1716.306 | *1693.612 * |
| 42.5 | 3299.522 | *3213.495 | *3148.709 | *3116.464 | *3107.893 | *3076.608 | *3029.742 | *3014.168 | *3009.477 | *3007.913 * |
| 37.5 | 4004.940 | *3954.040 | *3943.057 | *3921.281 | *3912.378 | *3905.472 | *3901.774 | *3903.002 | *3920.263 | *3922.462 * |
| 33.0 | 4125.592 | *4101.928 | *4108.880 | *4126.944 | *4135.705 | *4149.170 | *4167.476 | *4184.867 | *4206.622 | *4231.399 * |
| 29.0 | 3966.626 | *3953.838 | *3977.432 | *4014.013 | *4045.204 | *4067.589 | *4090.357 | *4108.042 | *4126.275 | *4152.600 * |
| 25.5 | 3732.485 | *3724.130 | *3751.492 | *3797.899 | *3842.341 | *3877.511 | *3898.823 | *3916.175 | *3931.420 | *3953.001 * |
| 22.5 | 3500.955 | *3495.515 | *3521.333 | *3568.048 | *3613.870 | *3656.478 | *3682.230 | *3698.727 | *3710.429 | *3723.888 * |
| 19.5 | 3281.002 | *3279.916 | *3299.788 | *3340.626 | *3383.595 | *3424.497 | *3459.990 | *3476.656 | *3487.467 | *3497.912 * |
| 17.0 | 3122.018 | *3122.952 | *3143.714 | *3175.178 | *3209.000 | *3247.476 | *3277.365 | *3295.097 | *3305.153 | *3319.140 * |
| 15.0 | 3013.473 | *3013.586 | *3032.335 | *3057.198 | *3081.972 | *3116.488 | *3138.707 | *3157.931 | *3175.769 | *3191.283 * |
| 13.0 | 2917.565 | *2914.265 | *2928.649 | *2948.030 | *2971.583 | *2997.834 | *3018.981 | *3038.378 | *3056.583 | *3069.844 * |
| 11.0 | 2829.973 | *2822.895 | *2829.046 | *2843.595 | *2862.535 | *2884.275 | *2901.707 | *2918.267 | *2932.792 | *2941.022 * |
| 9.0 | 2748.127 | *2736.913 | *2738.715 | *2747.577 | *2759.014 | *2776.213 | *2791.815 | *2804.201 | *2815.517 | *2824.265 * |
| 7.0 | 2670.948 | *2656.327 | *2655.139 | *2660.446 | *2668.285 | *2679.602 | *2691.912 | *2702.923 | *2712.318 | *2715.734 * |
| 5.0 | 2596.353 | *2579.513 | *2575.972 | *2578.792 | *2584.458 | *2592.257 | *2600.789 | *2610.940 | *2617.865 | *2625.524 * |
| 3.0 | 2525.572 | *2506.027 | *2497.931 | *2497.140 | *2500.238 | *2506.103 | *2513.341 | *2519.800 | *2525.689 | *2531.553 * |
| 1.0 | 2457.855 | *2436.300 | *2421.208 | *2414.666 | *2413.123 | *2415.262 | *2419.322 | *2423.301 | *2427.009 | *2430.638 * |
| 0.0 | 2425.500 | *2401.000 | *2383.400 | *2373.400 | *2368.700 | *2367.900 | *2369.800 | *2372.200 | *2375.700 | *2379.300 * |
| -1.0 | 2390.128 | *2364.327 | *2344.299 | *2331.711 | *2325.273 | *2322.768 | *2323.015 | *2324.362 | *2326.685 | *2329.816 * |
| -3.0 | 2319.331 | *2290.698 | *2266.114 | *2248.952 | *2238.483 | *2232.210 | *2229.696 | *2227.538 | *2228.020 | *2229.729 * |
| -5.0 | 2247.706 | *2216.330 | *2187.785 | *2166.419 | *2151.776 | *2141.295 | *2135.784 | *2131.290 | *2133.179 | *2133.559 * |
| -7.0 | 2175.016 | *2140.931 | *2108.421 | *2083.369 | *2066.167 | *2052.369 | *2043.074 | *2038.901 | *2036.963 | *2041.789 * |
| -9.0 | 2100.120 | *2064.140 | *2028.578 | *2001.365 | *1982.090 | *1966.482 | *1955.152 | *1948.991 | *1946.110 | *1946.152 * |
| -11.0 | 2023.696 | *1986.432 | *1949.300 | *1920.749 | *1900.340 | *1882.421 | *1870.366 | *1860.733 | *1856.425 | *1858.046 * |
| -13.0 | 1946.301 | *1908.186 | *1869.803 | *1840.591 | *1819.777 | *1799.998 | *1785.549 | *1774.659 | *1767.436 | *1765.464 * |
| -15.0 | 1868.989 | *1829.124 | *1789.628 | *1759.842 | *1741.548 | *1718.107 | *1700.494 | *1688.776 | *1681.855 | *1677.126 * |
| -17.0 | 1792.081 | *1750.210 | *1709.849 | *1678.879 | *1657.258 | *1635.963 | *1615.988 | *1601.133 | *1593.136 | *1587.888 * |
| -19.5 | 1695.918 | *1654.635 | *1613.655 | *1582.953 | *1559.971 | *1538.380 | *1517.906 | *1503.787 | *1495.065 | *1489.848 * |
| -22.5 | 1580.555 | *1544.055 | *1507.011 | *1477.803 | *1455.790 | *1435.133 | *1416.525 | *1401.042 | *1389.341 | *1383.963 * |
| -25.5 | 1473.510 | *1436.771 | *1410.047 | *1384.524 | *1363.233 | *1344.083 | *1328.219 | *1314.767 | *1304.381 | *1299.505 * |
| -29.0 | 1365.070 | *1336.987 | *1308.478 | *1288.233 | *1271.619 | *1255.476 | *1239.669 | *1227.427 | *1218.642 | *1214.244 * |
| -33.0 | 1259.736 | *1233.687 | *1211.581 | *1193.915 | *1178.661 | *1164.830 | *1154.062 | *1143.163 | *1134.195 | *1129.666 * |
| -37.5 | 1153.308 | *1132.763 | *1115.230 | *1097.603 | *1085.563 | *1074.355 | *1063.768 | *1054.890 | *1049.910 | *1045.334 * |
| -42.5 | 1040.923 | *1026.651 | *1008.719 | *995.687 | *988.636 | *980.765 | *972.684 | *967.868 | *964.461 | *962.085 * |
| -47.5 | 918.927 * | 907.526 * | 891.086 * | 878.196 * | 869.313 * | 861.677 * | 856.270 * | 854.197 * | 852.944 * | 852.465 * |
| -55.0 | 694.143 * | 690.068 * | 682.716 * | 675.325 * | 669.563 * | 665.193 * | 664.274 * | 667.357 * | 671.816 * | 677.059 * |
| -65.0 | 337.058 | 343.719 | 351.392 | 354.634 | 357.130 | 358.462 | 359.159 | 360.443 | 362.170 | 364.350 |
| -75.0 | 56.620 | 53.021 | 49.947 | 47.767 | 46.437 | 42.697 | 38.576 | 34.094 | 29.488 | 26.060 |
| -85.0 | 3.210 | 2.645 | 2.165 | 1.824 | 1.592 | 1.442 | 1.324 | 1.252 | 1.217 | 1.214 |
| -90.0 | 0.039 | 0.036 | 0.034 | 0.033 | 0.032 | 0.032 | 0.031 | 0.031 | 0.031 | 0.031 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| | <u>-3.0</u> | <u>-1.0</u> | <u>0.0</u> | <u>1.0</u> | <u>3.0</u> | <u>5.0</u> | <u>7.0</u> | <u>9.0</u> | <u>11.0</u> | <u>13.0</u> |
| 90.0 | 0.046 | 0.045 | 0.045 | 0.045 | 0.046 | 0.047 | 0.048 | 0.049 | 0.050 | 0.050 |
| 85.0 | 4.216 | 3.627 | 3.357 | 3.627 | 4.216 | 4.948 | 5.808 | 6.718 | 7.645 | 8.093 |
| 75.0 | 58.057 | 49.630 | 45.827 | 49.630 | 58.057 | 68.628 | 78.442 | 90.092 | 101.616 | 112.512 |
| 65.0 | 334.596 | 334.190 | 334.080 | 334.190 | 334.596 | 333.304 | 332.521 | 331.515 | 330.004 | 327.911 |

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| | | | | | | | | | | | |
|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| 55.0 | 666.537 | * 666.597 | * 667.500 | * 666.597 | * 666.537 | * 660.273 | * 660.031 | * 662.543 | * 669.962 | * 668.830 | * |
| 47.5 | 1687.306 | *1651.389 | *1639.400 | *1651.389 | *1687.306 | *1693.612 | *1716.306 | *1737.352 | *1752.477 | *1779.490 | * |
| 42.5 | 3028.976 | *3010.822 | *3006.500 | *3010.822 | *3028.976 | *3007.913 | *3009.477 | *3014.167 | *3029.742 | *3076.607 | * |
| 37.5 | 3929.316 | *3935.548 | *3934.300 | *3935.548 | *3929.535 | *3922.462 | *3920.263 | *3903.002 | *3901.774 | *3905.472 | * |
| 33.0 | 4252.832 | *4269.034 | *4274.100 | *4269.034 | *4252.832 | *4231.399 | *4206.622 | *4184.867 | *4167.476 | *4149.169 | * |
| 29.0 | 4174.928 | *4191.637 | *4198.400 | *4191.637 | *4174.928 | *4152.600 | *4126.275 | *4108.042 | *4090.357 | *4067.589 | * |
| 25.5 | 3973.699 | *3988.499 | *3995.000 | *3988.499 | *3973.699 | *3953.001 | *3931.420 | *3916.175 | *3898.823 | *3877.511 | * |
| 22.5 | 3743.613 | *3756.618 | *3763.200 | *3756.618 | *3743.613 | *3723.888 | *3710.430 | *3698.513 | *3682.230 | *3656.478 | * |
| 19.5 | 3515.070 | *3527.844 | *3534.400 | *3527.844 | *3515.070 | *3497.912 | *3487.467 | *3476.656 | *3459.990 | *3424.497 | * |
| 17.0 | 3335.346 | *3344.617 | *3350.200 | *3344.617 | *3335.346 | *3319.140 | *3305.153 | *3295.097 | *3277.365 | *3247.476 | * |
| 15.0 | 3200.582 | *3199.450 | *3201.100 | *3199.450 | *3200.582 | *3191.283 | *3175.769 | *3157.931 | *3138.707 | *3116.488 | * |
| 13.0 | 3079.114 | *3078.873 | *3080.800 | *3078.873 | *3079.114 | *3069.844 | *3056.583 | *3038.378 | *3018.981 | *2997.834 | * |
| 11.0 | 2952.832 | *2951.992 | *2954.500 | *2951.992 | *2952.832 | *2941.022 | *2932.792 | *2918.267 | *2901.707 | *2884.275 | * |
| 9.0 | 2829.750 | *2827.888 | *2830.900 | *2827.888 | *2829.750 | *2824.265 | *2815.517 | *2804.201 | *2791.815 | *2776.212 | * |
| 7.0 | 2723.374 | *2720.705 | *2723.000 | *2720.705 | *2723.374 | *2715.734 | *2712.318 | *2702.308 | *2691.912 | *2679.602 | * |
| 5.0 | 2629.732 | *2626.799 | *2630.400 | *2626.799 | *2629.733 | *2625.524 | *2617.865 | *2610.940 | *2600.789 | *2592.257 | * |
| 3.0 | 2535.813 | *2535.623 | *2535.000 | *2535.623 | *2535.707 | *2531.553 | *2525.689 | *2519.800 | *2512.731 | *2506.103 | * |
| 1.0 | 2433.948 | *2435.645 | *2434.600 | *2435.641 | *2433.948 | *2430.638 | *2427.009 | *2423.301 | *2419.322 | *2415.262 | * |
| 0.0 | 2382.400 | *2383.900 | *2383.800 | *2383.900 | *2382.400 | *2379.300 | *2375.700 | *2372.200 | *2369.800 | *2367.900 | * |
| -1.0 | 2331.812 | *2333.959 | *2333.800 | *2333.955 | *2331.812 | *2329.816 | *2326.685 | *2324.362 | *2323.015 | *2322.768 | * |
| -3.0 | 2232.555 | *2234.811 | *2234.800 | *2234.811 | *2232.455 | *2229.729 | *2228.020 | *2227.538 | *2229.056 | *2232.210 | * |
| -5.0 | 2136.136 | *2142.907 | *2138.600 | *2142.907 | *2136.136 | *2133.559 | *2133.179 | *2131.290 | *2135.784 | *2141.295 | * |
| -7.0 | 2042.324 | *2048.269 | *2045.500 | *2048.269 | *2042.324 | *2041.789 | *2036.963 | *2038.355 | *2043.074 | *2052.369 | * |
| -9.0 | 1949.488 | *1954.984 | *1952.400 | *1954.984 | *1949.488 | *1946.152 | *1946.110 | *1948.991 | *1955.152 | *1966.482 | * |
| -11.0 | 1857.330 | *1861.491 | *1859.500 | *1861.491 | *1857.330 | *1858.046 | *1856.425 | *1860.733 | *1870.366 | *1882.421 | * |
| -13.0 | 1765.590 | *1768.262 | *1766.500 | *1768.262 | *1765.590 | *1765.464 | *1767.436 | *1774.659 | *1785.549 | *1799.998 | * |
| -15.0 | 1676.990 | *1678.932 | *1677.100 | *1678.932 | *1676.990 | *1677.126 | *1681.855 | *1688.776 | *1700.494 | *1718.107 | * |
| -17.0 | 1585.307 | *1586.097 | *1585.000 | *1586.097 | *1585.307 | *1587.888 | *1593.136 | *1601.133 | *1615.988 | *1635.963 | * |
| -19.5 | 1487.345 | *1487.355 | *1486.800 | *1487.355 | *1487.345 | *1489.848 | *1495.065 | *1503.787 | *1517.906 | *1538.380 | * |
| -22.5 | 1384.134 | *1386.831 | *1387.300 | *1386.831 | *1384.134 | *1383.963 | *1389.341 | *1400.933 | *1416.525 | *1435.133 | * |
| -25.5 | 1298.730 | *1300.329 | *1300.700 | *1300.329 | *1298.730 | *1299.505 | *1304.381 | *1314.767 | *1328.219 | *1344.083 | * |
| -29.0 | 1212.947 | *1213.535 | *1213.700 | *1213.535 | *1212.947 | *1214.244 | *1218.642 | *1227.427 | *1239.669 | *1255.476 | * |
| -33.0 | 1126.932 | *1126.167 | *1125.800 | *1126.167 | *1126.932 | *1129.666 | *1134.195 | *1143.163 | *1154.062 | *1164.830 | * |
| -37.5 | 1043.262 | *1042.863 | *1042.600 | *1042.863 | *1043.199 | *1045.334 | *1049.910 | *1054.890 | *1063.768 | *1074.355 | * |
| -42.5 | 962.487 | * 960.466 | * 960.040 | * 960.466 | * 962.487 | * 962.085 | * 964.461 | * 967.868 | * 972.684 | * 980.765 | * |
| -47.5 | 854.172 | * 853.083 | * 853.040 | * 853.083 | * 854.172 | * 852.465 | * 852.944 | * 854.197 | * 856.270 | * 861.677 | * |
| -55.0 | 684.003 | * 687.312 | * 689.070 | * 687.312 | * 684.003 | * 677.059 | * 671.816 | * 667.357 | * 664.274 | * 665.193 | * |
| -65.0 | 368.224 | 367.815 | 367.740 | 367.815 | 368.224 | 364.350 | 362.170 | 360.288 | 359.159 | 358.462 | |
| -75.0 | 21.757 | 18.661 | 17.340 | 18.661 | 21.757 | 26.060 | 29.488 | 34.094 | 38.576 | 42.697 | |
| -85.0 | 1.241 | 1.284 | 1.308 | 1.284 | 1.241 | 1.214 | 1.217 | 1.252 | 1.324 | 1.442 | |
| -90.0 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.032 | |

Vert. 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 | 0.051 | 0.051 | 0.051 | 0.050 | 0.050 | 0.049 | 0.048 | 0.047 | 0.047 | 0.047 |
| 85.0 | 8.708 | 8.731 | 8.644 | 8.415 | 8.107 | 7.823 | 7.475 | 7.244 | 7.119 | 7.337 |
| 75.0 | 120.639 | 119.983 | 117.394 | 112.061 | 105.400 | 97.331 | 77.970 | 69.195 | 71.324 | 73.302 |
| 65.0 | 324.294 | 319.564 | 313.456 | 305.091 | 298.941 | 255.121 | 169.151 | 149.448 | 277.279 | 558.497 * |
| 55.0 | 638.215 * | 605.161 * | 572.805 * | 574.793 * | 632.283 * | 751.959 * | 688.907 * | 552.212 * | 1079.411 | *1744.603 * |
| 47.5 | 1817.766 | *1861.549 | *1922.376 | *1970.708 | *2041.235 | *2162.352 | *2392.670 | *2668.042 | *2981.204 | *3321.382 * |
| 42.5 | 3107.893 | *3116.464 | *3148.708 | *3213.495 | *3299.522 | *3441.407 | *3583.645 | *3749.097 | *4140.386 | *4463.631 * |
| 37.5 | 3912.378 | *3921.281 | *3943.057 | *3954.041 | *4004.940 | *4114.011 | *4248.460 | *4404.726 | *4698.406 | *5042.084 * |
| 33.0 | 4135.705 | *4126.944 | *4108.880 | *4101.928 | *4125.592 | *4206.777 | *4322.140 | *4506.215 | *4787.056 | *4984.384 * |
| 29.0 | 4045.204 | *4014.013 | *3977.432 | *3953.838 | *3966.625 | *4001.517 | *4111.032 | *4315.169 | *4553.659 | *4712.461 * |
| 25.5 | 3842.341 | *3797.900 | *3751.492 | *3724.130 | *3732.485 | *3764.372 | *3849.271 | *4031.711 | *4238.380 | *4389.483 * |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 22.5 | 3613.846 | *3568.048 | *3521.333 | *3495.516 | *3500.955 | *3541.486 | *3616.345 | *3758.243 | *3948.301 | *4097.310 * |
| 19.5 | 3383.595 | *3340.245 | *3299.788 | *3279.916 | *3280.593 | *3326.100 | *3398.335 | *3506.742 | *3682.577 | *3812.668 * |
| 17.0 | 3208.905 | *3175.178 | *3143.714 | *3122.953 | *3122.018 | *3155.608 | *3236.988 | *3331.629 | *3475.442 | *3588.308 * |
| 15.0 | 3081.972 | *3057.198 | *3032.335 | *3013.586 | *3013.473 | *3042.225 | *3120.034 | *3199.604 | *3320.289 | *3455.333 * |
| 13.0 | 2971.332 | *2948.030 | *2927.248 | *2914.265 | *2917.564 | *2944.777 | *3011.675 | *3081.421 | *3197.220 | *3331.801 * |
| 11.0 | 2862.535 | *2843.595 | *2829.046 | *2822.895 | *2829.973 | *2859.817 | *2911.614 | *2977.829 | *3094.943 | *3217.517 * |
| 9.0 | 2759.014 | *2747.577 | *2738.715 | *2736.913 | *2748.127 | *2780.263 | *2825.162 | *2886.845 | *2998.121 | *3114.240 * |
| 7.0 | 2668.285 | *2660.446 | *2655.139 | *2656.327 | *2670.948 | *2702.844 | *2746.748 | *2801.875 | *2906.884 | *3019.426 * |
| 5.0 | 2584.458 | *2578.792 | *2575.973 | *2579.513 | *2596.353 | *2628.743 | *2671.534 | *2726.277 | *2828.632 | *2931.995 * |
| 3.0 | 2500.238 | *2497.140 | *2497.931 | *2506.027 | *2525.572 | *2558.321 | *2600.162 | *2654.820 | *2751.850 | *2850.227 * |
| 1.0 | 2413.123 | *2414.666 | *2421.208 | *2435.067 | *2457.855 | *2490.960 | *2531.413 | *2588.087 | *2685.246 | *2777.878 * |
| 0.0 | 2368.700 | *2373.400 | *2383.400 | *2401.000 | *2425.500 | *2458.500 | *2498.100 | *2556.400 | *2652.600 | *2742.000 * |
| -1.0 | 2325.273 | *2331.711 | *2344.299 | *2363.000 | *2390.128 | *2423.876 | *2463.309 | *2521.638 | *2615.633 | *2704.839 * |
| -3.0 | 2238.483 | *2248.951 | *2266.114 | *2290.698 | *2319.331 | *2354.696 | *2394.475 | *2453.018 | *2541.790 | *2630.657 * |
| -5.0 | 2151.776 | *2166.419 | *2187.785 | *2216.330 | *2247.707 | *2284.274 | *2325.274 | *2384.276 | *2470.983 | *2557.234 * |
| -7.0 | 2066.167 | *2083.369 | *2108.421 | *2140.931 | *2175.016 | *2212.789 | *2255.624 | *2315.052 | *2399.071 | *2483.435 * |
| -9.0 | 1982.090 | *2001.365 | *2028.578 | *2064.140 | *2100.120 | *2139.732 | *2185.322 | *2246.566 | *2327.453 | *2409.141 * |
| -11.0 | 1900.340 | *1920.749 | *1949.300 | *1986.432 | *2023.696 | *2064.849 | *2113.665 | *2177.250 | *2256.222 | *2330.676 * |
| -13.0 | 1819.596 | *1840.591 | *1868.548 | *1908.186 | *1946.302 | *1990.100 | *2039.497 | *2105.801 | *2185.213 | *2258.507 * |
| -15.0 | 1741.548 | *1759.842 | *1789.628 | *1829.124 | *1868.989 | *1914.488 | *1964.348 | *2031.932 | *2114.549 | *2182.650 * |
| -17.0 | 1657.200 | *1678.879 | *1709.849 | *1750.210 | *1792.081 | *1838.765 | *1888.774 | *1956.031 | *2041.584 | *2106.437 * |
| -19.5 | 1559.971 | *1582.759 | *1613.655 | *1654.635 | *1695.606 | *1742.116 | *1794.133 | *1861.167 | *1948.329 | *2008.795 * |
| -22.5 | 1455.780 | *1477.803 | *1507.011 | *1544.055 | *1580.555 | *1629.162 | *1682.409 | *1744.608 | *1834.646 | *1891.249 * |
| -25.5 | 1363.233 | *1384.524 | *1410.047 | *1436.771 | *1473.510 | *1521.593 | *1575.785 | *1633.878 | *1720.021 | *1776.555 * |
| -29.0 | 1271.619 | *1288.233 | *1308.478 | *1336.987 | *1365.070 | *1410.702 | *1457.798 | *1517.367 | *1593.820 | *1647.521 * |
| -33.0 | 1178.661 | *1193.915 | *1211.581 | *1233.687 | *1259.736 | *1292.901 | *1337.522 | *1395.308 | *1457.407 | *1503.193 * |
| -37.5 | 1085.563 | *1097.603 | *1115.230 | *1132.763 | *1153.308 | *1182.500 | *1218.698 | *1262.953 | *1307.406 | *1340.950 * |
| -42.5 | 988.636 | * 995.687 * | * 1008.719 | *1026.651 | *1040.923 | *1060.443 | *1083.375 | *1112.570 | *1140.851 | *1148.293 * |
| -47.5 | 869.125 | * 877.992 * | * 891.086 * | * 907.526 * | * 918.927 * | * 929.721 * | * 942.074 * | * 955.258 * | * 953.686 * | * 942.239 * |
| -55.0 | 669.563 | * 675.325 * | * 682.716 * | * 690.068 * | * 694.143 * | * 690.425 * | * 680.334 * | * 664.983 * | * 639.365 * | * 603.505 * |
| -65.0 | 357.130 | 354.634 | 351.392 | 343.719 | 337.058 | 324.194 | 307.078 | 285.366 | 264.983 | 232.081 |
| -75.0 | 46.437 | 47.599 | 49.947 | 53.021 | 56.620 | 61.727 | 66.409 | 69.687 | 70.485 | 60.567 |
| -85.0 | 1.586 | 1.824 | 2.165 | 2.629 | 3.210 | 3.969 | 5.104 | 6.499 | 7.811 | 8.935 |
| -90.0 | 0.032 | 0.033 | 0.034 | 0.036 | 0.039 | 0.044 | 0.052 | 0.063 | 0.075 | 0.085 |

Vert. Horizontal Angles

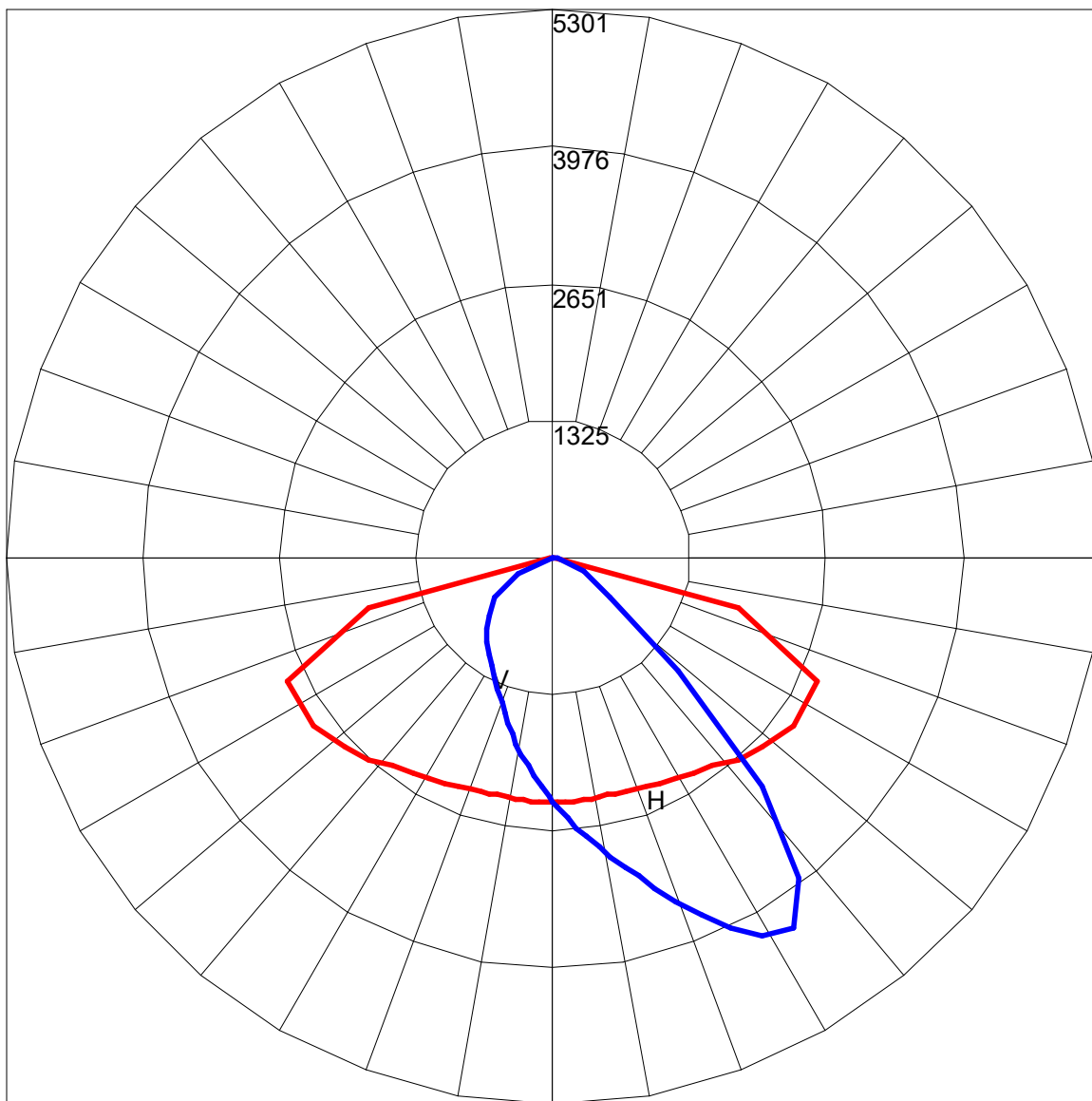
| | <u>55.0</u> | <u>65.0</u> | <u>75.0</u> | <u>85.0</u> | <u>90.0</u> |
|------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 0.048 | 0.046 | 0.035 | 0.014 | 0.000 |
| 85.0 | 7.337 | 7.587 | 7.998 | 7.989 | 0.015 |
| 75.0 | 90.744 | 49.403 | 15.589 | 9.184 | 0.044 |
| 65.0 | 686.665 * | 529.263 | 48.755 | 10.781 | 0.072 |
| 55.0 | 2433.370 | *2505.575 | *307.355 | 12.301 | 0.098 |
| 47.5 | 3676.570 | *4280.833 | *745.602 * | 13.762 | 0.115 |
| 42.5 | 4435.254 | *4946.986 | *1146.448 | *15.122 | 0.125 |
| 37.5 | 4940.695 | *5228.898 | *1579.685 | *16.805 | 0.135 |
| 33.0 | 5052.986 | *5301.009 | *1957.832 | *18.539 | 0.143 |
| 29.0 | 4934.418 | *5236.986 | *2257.727 | *20.184 | 0.149 |
| 25.5 | 4709.855 | *5100.294 | *2446.309 | *21.532 | 0.153 |
| 22.5 | 4460.700 | *4967.524 | *2564.752 | *23.013 | 0.157 |
| 19.5 | 4225.554 | *4767.983 | *2641.701 | *24.342 | 0.160 |
| 17.0 | 4028.425 | *4596.461 | *2649.978 | *25.329 | 0.163 |
| 15.0 | 3874.123 | *4429.815 | *2643.211 | *26.036 | 0.164 |
| 13.0 | 3718.573 | *4251.969 | *2589.414 | *26.668 | 0.166 |
| 11.0 | 3575.335 | *4062.000 | *2531.811 | *28.519 | 0.167 |
| 9.0 | 3431.426 | *3867.878 | *2454.376 | *28.571 | 0.168 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|----------|-----------|-----------|----------|-------|
| 7.0 | 3294.851 | *3658.218 | *2339.872 | *28.624 | 0.169 |
| 5.0 | 3159.541 | *3443.770 | *2236.292 | *28.677 | 0.169 |
| 3.0 | 3026.090 | *3198.496 | *2083.272 | *28.730 | 0.170 |
| 1.0 | 2896.748 | *2954.904 | *1929.929 | *28.810 | 0.170 |
| 0.0 | 2832.000 | *2833.000 | *1853.200 | *28.810 | 0.170 |
| -1.0 | 2790.020 | *2790.513 | *1825.612 | *28.768 | 0.170 |
| -3.0 | 2706.160 | *2705.613 | *1770.478 | *28.685 | 0.170 |
| -5.0 | 2624.876 | *2618.054 | *1715.460 | *28.602 | 0.169 |
| -7.0 | 2543.822 | *2533.901 | *1626.739 | *28.520 | 0.169 |
| -9.0 | 2464.922 | *2449.375 | *1541.767 | *28.437 | 0.168 |
| -11.0 | 2385.642 | *2363.956 | *1476.699 | *28.356 | 0.167 |
| -13.0 | 2308.503 | *2280.629 | *1399.363 | *26.499 | 0.166 |
| -15.0 | 2230.197 | *2195.691 | *1325.336 | *25.851 | 0.164 |
| -17.0 | 2153.384 | *2110.253 | *1235.897 | *25.131 | 0.163 |
| -19.5 | 2056.935 | *2006.325 | *1130.508 | *24.135 | 0.160 |
| -22.5 | 1940.777 | *1874.187 | *1006.924 | *22.805 | 0.157 |
| -25.5 | 1826.038 | *1742.575 | *882.372 | * 21.335 | 0.154 |
| -29.0 | 1690.103 | *1570.305 | *735.804 | * 20.065 | 0.149 |
| -33.0 | 1529.510 | *1379.488 | *597.344 | * 18.582 | 0.143 |
| -37.5 | 1340.113 | *1152.512 | *455.982 | 17.048 | 0.135 |
| -42.5 | 1119.561 | *891.305 | * 327.342 | 15.484 | 0.125 |
| -47.5 | 882.875 | * 644.981 | * 222.709 | 14.241 | 0.115 |
| -55.0 | 518.633 | 334.784 | 113.311 | 12.960 | 0.098 |
| -65.0 | 185.768 | 102.331 | 46.391 | 11.818 | 0.072 |
| -75.0 | 46.873 | 35.424 | 16.571 | 10.585 | 0.044 |
| -85.0 | 10.150 | 11.112 | 11.385 | 9.618 | 0.015 |
| -90.0 | 0.092 | 0.084 | 0.055 | 0.017 | 0.000 |

AXIAL CANDELA DISPLAY



Maximum Candela = 5301.009 Located At Horizontal Angle = -65, Vertical Angle = 33
H - Horizontal Axial Candela
V - Vertical Axial Candela