

## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Deliver Co. Ltd.

[MANUFAC]

[TESTDATE] 2019-03-22

[ISSUE DATE] 2019-03-22

[LAMP] ASD-FLSL-30N50A-XX

[MANUFAC] ASD Lighting corp

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

### CHARACTERISTICS

|                              |                 |
|------------------------------|-----------------|
| Maximum Candela              | 1069.78         |
| Maximum Candela Angle        | 5H 0V           |
| Horizontal Beam Angle (50%)  | 115.9           |
| Vertical Beam Angle (50%)    | 116.8           |
| Horizontal Field Angle (10%) | 154.1           |
| Vertical Field Angle (10%)   | 150.1           |
| Lumens Per Lamp              | N.A. (absolute) |
| Total Lamp Lumens            | N.A. (absolute) |
| Beam Lumens                  | 2377            |
| Beam Efficiency              | N.A.            |
| Field Lumens                 | 3010            |
| Field Efficiency             | N.A.            |
| Spill Lumens                 | 47              |
| Luminaire Lumens             | 3057            |
| Total Efficiency             | N.A.            |
| Total Luminaire Watts        | 29.9268         |
| Ballast Factor               | 1.00            |

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**AXIAL CANDELA**

| DEG.  | HOR.     | DEG.  | VERT.    |
|-------|----------|-------|----------|
| 90    | .021     | 90    | .015     |
| 85    | 10.5     | 85    | 7.31     |
| 75    | 233.51   | 75    | 122.4    |
| 65    | 456.73   | 65    | 413.14   |
| 55    | 652.6    | 55    | 613.1    |
| 47.5  | 773.93   | 47.5  | 723.015  |
| 42.5  | 840.055  | 42.5  | 794.005  |
| 37.5  | 894.855  | 37.5  | 856.27   |
| 33    | 937.77   | 33    | 904.418  |
| 29    | 971.382  | 29    | 943.584  |
| 25.5  | 996.939  | 25.5  | 974.258  |
| 22.5  | 1014.58  | 22.5  | 995.6    |
| 19.5  | 1030.572 | 19.5  | 1014.966 |
| 17    | 1040.582 | 17    | 1026.996 |
| 15    | 1048.59  | 15    | 1036.62  |
| 13    | 1054.206 | 13    | 1043.748 |
| 11    | 1059.822 | 11    | 1050.876 |
| 9     | 1064.06  | 9     | 1056.742 |
| 7     | 1066.92  | 7     | 1061.346 |
| 5     | 1069.78  | 5     | 1065.95  |
| 3     | 1069.099 | 3     | 1066.801 |
| 1     | 1068.418 | 1     | 1067.652 |
| 0     | 1068.077 | 0     | 1068.077 |
| -1    | 1066.158 | -1    | 1067.348 |
| -3    | 1062.319 | -3    | 1065.889 |
| -5    | 1058.48  | -5    | 1064.43  |
| -7    | 1051.932 | -7    | 1059.05  |
| -9    | 1045.384 | -9    | 1053.67  |
| -11   | 1037.588 | -11   | 1047.468 |
| -13   | 1028.544 | -13   | 1040.444 |
| -15   | 1019.5   | -15   | 1033.42  |
| -17   | 1007.232 | -17   | 1022.26  |
| -19.5 | 991.897  | -19.5 | 1008.31  |
| -22.5 | 969.69   | -22.5 | 986.765  |
| -25.5 | 945.917  | -25.5 | 963.375  |
| -29   | 913.486  | -29   | 930.93   |
| -33   | 870.854  | -33   | 891.672  |
| -37.5 | 818.005  | -37.5 | 841.2    |
| -42.5 | 751.11   | -42.5 | 775.96   |
| -47.5 | 671.365  | -47.5 | 705.205  |
| -55   | 533.63   | -55   | 598.6    |
| -65   | 326.96   | -65   | 361.22   |
| -75   | 65.28    | -75   | 39.17    |
| -85   | 2.6      | -85   | 3.77     |
| -90   | .005     | -90   | .008     |

**IES FLOOD REPORT**

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**CANDELA TABULATION**

Maximum Candela = 1069.78

Beam Edge = 534.89 Cd (50% of Max.)

Field Edge = 106.978 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             | 0.000        | 0.001        | 0.002        | 0.004        | 0.006        | 0.007        | 0.008        | 0.010        | 0.011        |
| 85.0         | 0.000             | 0.219        | 0.608        | 1.112        | 1.908        | 2.814        | 3.464        | 4.127        | 4.743        | 5.259        |
| 75.0         | 0.001             | 0.651        | 1.812        | 5.628        | 14.437       | 24.847       | 45.145       | 60.286       | 72.339       | 81.747       |
| 65.0         | 0.002             | 1.066        | 4.480        | 18.055       | 87.491       | 158.076 *    | 204.507 *    | 236.858 *    | 262.935 *    | 286.531 *    |
| 55.0         | 0.003             | 1.451        | 8.108        | 69.173       | 215.375 *    | 303.456 *    | 359.285 *    | 407.179 *    | 448.557 *    | 484.575 *    |
| 47.5         | 0.004             | 1.714        | 11.179       | 123.338 *    | 290.890 *    | 389.652 *    | 451.168 *    | 505.322 *    | 550.219 *    | 585.511 *    |
| 42.5         | 0.004             | 1.874        | 22.104       | 164.306 *    | 335.391 *    | 442.287 *    | 509.174 *    | 567.478 *    | 614.293 *    | 652.020 *    |
| 37.5         | 0.004             | 2.021        | 31.940       | 201.535 *    | 376.838 *    | 492.747 *    | 563.635 *    | 624.336 *    | 673.928 *    | 713.072 *    |
| 33.0         | 0.004             | 2.142        | 39.795       | 228.394 *    | 410.883 *    | 535.148 *    | 605.067 *    | 669.422 *    | 722.219 *    | 758.686 *    |
| 29.0         | 0.005             | 2.238        | 45.944       | 249.032 *    | 438.227 *    | 566.291 *    | 639.342 *    | 705.776 *    | 756.174 *    | 796.101 *    |
| 25.5         | 0.005             | 2.314        | 50.657       | 265.488 *    | 459.304 *    | 590.542 *    | 665.733 *    | 733.157 *    | 783.444 *    | 822.866 *    |
| 22.5         | 0.005             | 2.372        | 54.188       | 278.296 *    | 475.323 *    | 609.752 *    | 685.944 *    | 752.389 *    | 804.250 *    | 844.964 *    |
| 19.5         | 0.005             | 2.424        | 57.243       | 289.812 *    | 490.091 *    | 627.324 *    | 703.773 *    | 769.689 *    | 821.691 *    | 863.910 *    |
| 17.0         | 0.005             | 2.463        | 59.421       | 298.358 *    | 500.833 *    | 639.840 *    | 716.710 *    | 782.494 *    | 834.237 *    | 875.765 *    |
| 15.0         | 0.005             | 2.490        | 60.920       | 304.467 *    | 508.372 *    | 647.161 *    | 724.809 *    | 791.552 *    | 842.919 *    | 884.022 *    |
| 13.0         | 0.005             | 2.515        | 62.203       | 309.901 *    | 514.956 *    | 653.597 *    | 731.607 *    | 798.286 *    | 850.344 *    | 891.281 *    |
| 11.0         | 0.005             | 2.584        | 63.269       | 314.632 *    | 520.568 *    | 659.107 *    | 737.461 *    | 804.047 *    | 855.912 *    | 897.464 *    |
| 9.0          | 0.005             | 2.587        | 64.119       | 318.635 *    | 525.195 *    | 663.656 *    | 742.317 *    | 808.946 *    | 860.659 *    | 902.497 *    |
| 7.0          | 0.005             | 2.590        | 64.752       | 321.884 *    | 528.828 *    | 667.209 *    | 746.146 *    | 812.831 *    | 864.857 *    | 906.953 *    |
| 5.0          | 0.005             | 2.593        | 65.830       | 324.353 *    | 531.458 *    | 669.733 *    | 748.919 *    | 815.667 *    | 867.988 *    | 910.241 *    |
| 3.0          | 0.005             | 2.596        | 65.610       | 326.971 *    | 534.213 *    | 671.200 *    | 750.616 *    | 817.426 *    | 870.004 *    | 912.405 *    |
| 1.0          | 0.005             | 2.599        | 65.390       | 326.964 *    | 533.825 *    | 671.585 *    | 751.221 *    | 818.089 *    | 870.866 *    | 913.417 *    |
| 0.0          | 0.005             | 2.600        | 65.280       | 326.960 *    | 533.630 *    | 671.365 *    | 751.110 *    | 818.005 *    | 870.854 *    | 913.486 *    |
| -1.0         | 0.005             | 2.600        | 65.326       | 326.898 *    | 533.628 *    | 671.156 *    | 750.937 *    | 817.888 *    | 870.724 *    | 913.299 *    |
| -3.0         | 0.005             | 2.595        | 65.417       | 326.773 *    | 533.624 *    | 669.904 *    | 749.760 *    | 816.818 *    | 869.575 *    | 912.051 *    |
| -5.0         | 0.005             | 2.592        | 65.508       | 324.030 *    | 530.480 *    | 667.544 *    | 747.477 *    | 814.636 *    | 867.262 *    | 909.654 *    |
| -7.0         | 0.005             | 2.589        | 64.305       | 321.444 *    | 527.465 *    | 664.082 *    | 744.093 *    | 811.352 *    | 863.819 *    | 906.136 *    |
| -9.0         | 0.005             | 2.586        | 63.548       | 318.091 *    | 523.455 *    | 659.533 *    | 739.621 *    | 806.984 *    | 859.288 *    | 901.237 *    |
| -11.0        | 0.005             | 2.583        | 62.578       | 313.998 *    | 518.457 *    | 653.911 *    | 734.080 *    | 801.559 *    | 853.843 *    | 895.091 *    |
| -13.0        | 0.005             | 2.514        | 61.395       | 309.194 *    | 512.485 *    | 647.238 *    | 727.494 *    | 795.186 *    | 847.218 *    | 887.786 *    |
| -15.0        | 0.005             | 2.489        | 59.999       | 303.709 *    | 505.552 *    | 639.537 *    | 719.916 *    | 787.867 *    | 838.842 *    | 879.397 *    |
| -17.0        | 0.005             | 2.462        | 58.391       | 297.573 *    | 497.676 *    | 630.838 *    | 710.932 *    | 778.045 *    | 829.363 *    | 870.001 *    |
| -19.5        | 0.005             | 2.423        | 56.086       | 289.030 *    | 486.534 *    | 618.217 *    | 696.747 *    | 764.150 *    | 816.057 *    | 856.897 *    |
| -22.5        | 0.005             | 2.371        | 52.889       | 277.578 *    | 471.317 *    | 600.599 *    | 677.596 *    | 745.347 *    | 798.033 *    | 837.279 *    |
| -25.5        | 0.005             | 2.312        | 49.231       | 264.906 *    | 454.609 *    | 580.750 *    | 656.280 *    | 724.400 *    | 775.801 *    | 814.523 *    |
| -29.0        | 0.005             | 2.237        | 44.391       | 248.706 *    | 433.221 *    | 554.935 *    | 628.902 *    | 695.170 *    | 745.721 *    | 786.722 *    |
| -33.0        | 0.004             | 2.140        | 38.127       | 228.498 *    | 405.550 *    | 521.876 *    | 592.087 *    | 657.664 *    | 708.553 *    | 745.323 *    |
| -37.5        | 0.004             | 2.020        | 30.181       | 201.382 *    | 371.006 *    | 480.842 *    | 548.054 *    | 611.315 *    | 660.036 *    | 698.102 *    |
| -42.5        | 0.004             | 1.873        | 20.297       | 162.222 *    | 328.872 *    | 433.558 *    | 495.603 *    | 552.538 *    | 600.339 *    | 638.768 *    |
| -47.5        | 0.004             | 1.712        | 9.378        | 119.111 *    | 284.992 *    | 380.848 *    | 440.350 *    | 491.665 *    | 535.966 *    | 572.010 *    |
| -55.0        | 0.003             | 1.449        | 6.704        | 62.801       | 209.354 *    | 293.604 *    | 351.297 *    | 395.479 *    | 433.215 *    | 468.791 *    |
| -65.0        | 0.002             | 1.064        | 3.914        | 12.522       | 72.895       | 133.801 *    | 178.216 *    | 210.785 *    | 234.880 *    | 255.146 *    |
| -75.0        | 0.001             | 0.650        | 1.804        | 3.740        | 7.035        | 11.017       | 25.593       | 36.480       | 43.666       | 48.087       |
| -85.0        | 0.000             | 0.219        | 0.605        | 0.882        | 1.258        | 1.725        | 2.052        | 2.383        | 2.686        | 2.936        |
| -90.0        | 0.000             | 0.000        | 0.001        | 0.002        | 0.003        | 0.003        | 0.004        | 0.005        | 0.005        | 0.006        |

| 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         | 0.011             | 0.012        | 0.012        | 0.013        | 0.013        | 0.013        | 0.014        | 0.014       | 0.014       | 0.014       |
| 85.0         | 5.584             | 5.853        | 6.112        | 6.319        | 6.481        | 6.614        | 6.868        | 6.949       | 7.029       | 7.109       |
| 75.0         | 89.158            | 94.316       | 98.416       | 101.057      | 102.682      | 105.733      | 109.109 *    | 112.217 *   | 115.038 *   | 118.650 *   |
| 65.0         | 308.085 *         | 326.019 *    | 342.565 *    | 355.190 *    | 364.468 *    | 373.326 *    | 382.056 *    | 389.868 *   | 396.740 *   | 402.655 *   |
| 55.0         | 509.697 *         | 528.024 *    | 545.015 *    | 558.143 *    | 567.928 *    | 577.042 *    | 584.988 *    | 591.933 *   | 598.066 *   | 603.384 *   |

CANDELA TABULATION - (Cont.)

|       |         |           |           |            |            |            |            |            |            |            |   |
|-------|---------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|---|
| 47.5  | 612.289 | * 632.606 | * 652.138 | * 666.715  | * 677.208  | * 686.654  | * 695.039  | * 702.243  | * 708.511  | * 713.837  | * |
| 42.5  | 679.750 | * 701.424 | * 721.876 | * 737.392  | * 747.728  | * 756.725  | * 764.661  | * 771.974  | * 778.592  | * 784.251  | * |
| 37.5  | 742.601 | * 764.340 | * 784.960 | * 800.313  | * 811.156  | * 819.482  | * 826.995  | * 833.796  | * 840.636  | * 846.416  | * |
| 33.0  | 788.664 | * 812.268 | * 832.203 | * 846.674  | * 857.275  | * 867.066  | * 875.576  | * 882.912  | * 889.515  | * 895.174  | * |
| 29.0  | 824.556 | * 848.926 | * 869.679 | * 884.186  | * 894.998  | * 905.375  | * 914.690  | * 922.874  | * 929.444  | * 934.761  | * |
| 25.5  | 854.911 | * 878.228 | * 899.245 | * 915.255  | * 925.601  | * 934.828  | * 943.579  | * 951.320  | * 957.979  | * 963.993  | * |
| 22.5  | 876.281 | * 900.499 | * 922.306 | * 936.720  | * 947.333  | * 957.022  | * 966.260  | * 973.655  | * 980.105  | * 985.761  | * |
| 19.5  | 894.758 | * 919.520 | * 940.390 | * 956.537  | * 967.100  | * 975.983  | * 984.430  | * 992.664  | * 999.905  | * 1006.019 | * |
| 17.0  | 908.358 | * 931.361 | * 953.464 | * 969.197  | * 979.580  | * 989.419  | * 998.932  | * 1006.331 | * 1012.591 | * 1017.828 | * |
| 15.0  | 916.515 | * 939.624 | * 961.701 | * 977.020  | * 988.427  | * 998.782  | * 1007.262 | * 1014.838 | * 1021.492 | * 1027.051 | * |
| 13.0  | 923.196 | * 947.041 | * 968.176 | * 984.339  | * 996.191  | * 1005.942 | * 1015.007 | * 1023.164 | * 1029.910 | * 1034.875 | * |
| 11.0  | 929.113 | * 953.920 | * 974.324 | * 991.026  | * 1002.319 | * 1012.760 | * 1022.355 | * 1030.152 | * 1036.341 | * 1041.626 | * |
| 9.0   | 934.159 | * 958.877 | * 980.102 | * 996.315  | * 1007.785 | * 1018.993 | * 1028.198 | * 1035.895 | * 1042.703 | * 1048.213 | * |
| 7.0   | 938.374 | * 962.825 | * 984.790 | * 1000.544 | * 1012.402 | * 1023.801 | * 1032.365 | * 1040.691 | * 1048.605 | * 1052.691 | * |
| 5.0   | 942.168 | * 966.151 | * 988.405 | * 1003.459 | * 1015.558 | * 1026.027 | * 1035.166 | * 1044.098 | * 1050.526 | * 1055.987 | * |
| 3.0   | 944.670 | * 968.508 | * 990.775 | * 1005.883 | * 1017.918 | * 1027.456 | * 1036.599 | * 1045.279 | * 1051.744 | * 1057.886 | * |
| 1.0   | 945.839 | * 969.616 | * 991.822 | * 1007.128 | * 1019.565 | * 1028.532 | * 1037.675 | * 1045.598 | * 1052.139 | * 1058.991 | * |
| 0.0   | 945.917 | * 969.690 | * 991.897 | * 1007.232 | * 1019.500 | * 1028.544 | * 1037.588 | * 1045.384 | * 1051.932 | * 1058.480 | * |
| -1.0  | 945.706 | * 969.493 | * 991.719 | * 1007.042 | * 1019.498 | * 1028.325 | * 1037.274 | * 1045.047 | * 1051.539 | * 1058.315 | * |
| -3.0  | 944.271 | * 968.134 | * 990.459 | * 1005.618 | * 1017.705 | * 1026.903 | * 1035.495 | * 1043.726 | * 1050.209 | * 1056.389 | * |
| -5.0  | 941.507 | * 965.515 | * 987.864 | * 1002.845 | * 1014.593 | * 1024.444 | * 1033.047 | * 1041.752 | * 1048.006 | * 1053.416 | * |
| -7.0  | 937.456 | * 961.731 | * 983.468 | * 998.800  | * 1010.083 | * 1020.730 | * 1029.203 | * 1037.436 | * 1044.636 | * 1049.429 | * |
| -9.0  | 932.450 | * 956.940 | * 977.865 | * 993.613  | * 1004.403 | * 1015.544 | * 1024.870 | * 1032.355 | * 1039.020 | * 1044.696 | * |
| -11.0 | 926.425 | * 951.155 | * 971.196 | * 987.761  | * 998.920  | * 1009.356 | * 1019.145 | * 1026.767 | * 1032.790 | * 1038.271 | * |
| -13.0 | 919.428 | * 943.281 | * 964.258 | * 980.491  | * 992.622  | * 1002.383 | * 1011.311 | * 1019.472 | * 1026.394 | * 1031.675 | * |
| -15.0 | 911.557 | * 934.803 | * 956.854 | * 972.273  | * 984.038  | * 994.582  | * 1002.801 | * 1010.262 | * 1017.272 | * 1023.424 | * |
| -17.0 | 902.391 | * 925.599 | * 947.561 | * 963.250  | * 974.153  | * 984.266  | * 993.539  | * 1000.767 | * 1007.275 | * 1012.824 | * |
| -19.5 | 887.878 | * 912.729 | * 933.384 | * 949.677  | * 960.881  | * 970.157  | * 978.596  | * 986.409  | * 993.304  | * 999.150  | * |
| -22.5 | 868.248 | * 892.519 | * 914.437 | * 929.162  | * 940.257  | * 950.627  | * 960.011  | * 966.854  | * 972.807  | * 978.000  | * |
| -25.5 | 845.766 | * 869.034 | * 890.281 | * 906.480  | * 917.072  | * 926.582  | * 935.394  | * 943.038  | * 949.453  | * 954.931  | * |
| -29.0 | 814.287 | * 838.386 | * 859.256 | * 873.861  | * 884.836  | * 895.431  | * 904.742  | * 912.727  | * 919.007  | * 923.777  | * |
| -33.0 | 776.346 | * 799.641 | * 819.344 | * 834.090  | * 845.669  | * 856.224  | * 865.170  | * 872.744  | * 878.996  | * 884.021  | * |
| -37.5 | 728.242 | * 750.377 | * 770.347 | * 785.964  | * 797.556  | * 806.968  | * 815.423  | * 822.811  | * 828.707  | * 833.599  | * |
| -42.5 | 666.444 | * 688.319 | * 708.313 | * 722.961  | * 732.827  | * 741.667  | * 749.657  | * 756.858  | * 763.042  | * 768.109  | * |
| -47.5 | 599.411 | * 620.001 | * 638.925 | * 652.800  | * 662.705  | * 671.551  | * 679.344  | * 686.132  | * 691.997  | * 696.934  | * |
| -55.0 | 493.768 | * 511.815 | * 528.938 | * 542.456  | * 552.690  | * 562.339  | * 570.595  | * 577.712  | * 583.967  | * 589.326  | * |
| -65.0 | 275.073 | * 292.777 | * 309.225 | * 321.838  | * 331.134  | * 339.163  | * 345.279  | * 350.455  | * 354.656  | * 357.849  | * |
| -75.0 | 50.257  | 51.112    | 51.109    | 50.505     | 49.659     | 48.853     | 47.905     | 46.730     | 45.348     | 44.190     |   |
| -85.0 | 3.094   | 3.222     | 3.345     | 3.441      | 3.515      | 3.563      | 3.674      | 3.692      | 3.709      | 3.727      |   |
| -90.0 | 0.006   | 0.006     | 0.007     | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      |   |

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 | 0.014       | 0.015       | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015       | 0.015       |
| 85.0 | 7.190       | 7.270       | 7.310      | 7.329      | 7.366      | 7.404      | 7.441      | 7.479      | 7.516       | 7.360       |
| 75.0 | 120.149     | * 121.650   | * 122.400  | * 123.436  | * 125.508  | * 127.579  | * 127.356  | * 127.898  | * 128.038   | * 127.768   |
| 65.0 | 408.725     | * 411.668   | * 413.140  | * 414.493  | * 417.197  | * 416.738  | * 416.403  | * 415.056  | * 412.703   | * 409.348   |
| 55.0 | 608.802     | * 611.667   | * 613.100  | * 613.575  | * 614.525  | * 612.979  | * 611.569  | * 609.414  | * 606.535   | * 602.958   |
| 47.5 | 718.216     | * 721.651   | * 723.015  | * 723.628  | * 724.148  | * 723.727  | * 722.367  | * 720.074  | * 716.857   | * 713.261   |
| 42.5 | 788.918     | * 792.568   | * 794.005  | * 794.536  | * 794.826  | * 794.113  | * 792.431  | * 789.820  | * 786.605   | * 783.021   |
| 37.5 | 851.140     | * 854.818   | * 856.270  | * 856.703  | * 856.806  | * 855.898  | * 853.987  | * 851.091  | * 848.021   | * 844.067   |
| 33.0 | 899.708     | * 903.125   | * 904.418  | * 904.908  | * 905.068  | * 904.142  | * 902.142  | * 899.503  | * 896.651   | * 892.621   |
| 29.0 | 939.081     | * 942.354   | * 943.584  | * 944.094  | * 944.305  | * 943.478  | * 941.669  | * 939.256  | * 935.517   | * 930.759   |
| 25.5 | 969.006     | * 972.820   | * 974.258  | * 974.603  | * 974.358  | * 972.923  | * 970.559  | * 967.879  | * 964.321   | * 959.994   |
| 22.5 | 990.583     | * 994.220   | * 995.600  | * 996.010  | * 995.965  | * 994.771  | * 992.833  | * 990.217  | * 986.768   | * 981.642   |
| 19.5 | 1010.443    | * 1013.696  | * 1014.966 | * 1015.478 | * 1015.819 | * 1015.062 | * 1012.677 | * 1009.285 | * 1005.022  | * 1000.297  |
| 17.0 | 1022.251    | * 1025.689  | * 1026.996 | * 1027.410 | * 1027.454 | * 1026.659 | * 1025.267 | * 1022.979 | * 1019.614  | * 1014.015  |
| 15.0 | 1031.641    | * 1035.432  | * 1036.620 | * 1037.088 | * 1036.678 | * 1035.738 | * 1034.094 | * 1031.445 | * 1027.943  | * 1023.809  |
| 13.0 | 1038.948    | * 1042.421  | * 1043.748 | * 1043.979 | * 1043.709 | * 1043.381 | * 1042.480 | * 1039.670 | * 1035.670  | * 1030.999  |
| 11.0 | 1045.864    | * 1049.520  | * 1050.876 | * 1050.940 | * 1050.276 | * 1049.919 | * 1048.621 | * 1046.468 | * 1043.005  | * 1037.660  |

CANDELA TABULATION - (Cont.)

|       |          |           |           |           |           |           |           |           |           |           |   |
|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| 9.0   | 1052.205 | *1055.414 | *1056.742 | *1056.689 | *1056.440 | *1056.326 | *1054.601 | *1051.999 | *1048.736 | *1044.021 | * |
| 7.0   | 1056.566 | *1059.975 | *1061.346 | *1061.098 | *1060.873 | *1060.765 | *1060.204 | *1056.809 | *1053.146 | *1049.104 | * |
| 5.0   | 1060.516 | *1064.750 | *1065.950 | *1065.573 | *1065.044 | *1064.565 | *1062.979 | *1060.702 | *1056.293 | *1051.643 | * |
| 3.0   | 1062.404 | *1065.508 | *1066.801 | *1066.561 | *1067.810 | *1067.379 | *1065.190 | *1062.802 | *1058.585 | *1053.439 | * |
| 1.0   | 1062.592 | *1066.186 | *1067.652 | *1067.987 | *1068.721 | *1069.366 | *1066.565 | *1063.815 | *1059.634 | *1054.145 | * |
| 0.0   | 1062.319 | *1066.158 | *1068.077 | *1068.418 | *1069.099 | *1069.780 | *1066.920 | *1064.060 | *1059.822 | *1054.206 | * |
| -1.0  | 1061.966 | *1065.750 | *1067.348 | *1067.942 | *1068.738 | *1069.404 | *1066.558 | *1063.785 | *1059.566 | *1054.034 | * |
| -3.0  | 1061.096 | *1063.990 | *1065.889 | *1066.468 | *1067.672 | *1067.360 | *1065.232 | *1062.782 | *1058.350 | *1053.087 | * |
| -5.0  | 1057.994 | *1062.558 | *1064.430 | *1065.132 | *1064.528 | *1064.082 | *1062.820 | *1060.830 | *1055.926 | *1050.975 | * |
| -7.0  | 1053.689 | *1057.458 | *1059.050 | *1059.619 | *1059.926 | *1059.760 | *1059.289 | *1056.136 | *1052.344 | *1047.950 | * |
| -9.0  | 1049.112 | *1052.387 | *1053.670 | *1054.306 | *1054.922 | *1054.802 | *1053.270 | *1050.698 | *1047.398 | *1042.605 | * |
| -11.0 | 1042.836 | *1046.246 | *1047.468 | *1048.109 | *1048.517 | *1048.263 | *1047.044 | *1044.894 | *1041.379 | *1036.126 | * |
| -13.0 | 1035.953 | *1039.219 | *1040.444 | *1041.120 | *1041.713 | *1041.624 | *1040.767 | *1037.892 | *1033.899 | *1029.342 | * |
| -15.0 | 1028.443 | *1032.309 | *1033.420 | *1034.235 | *1034.346 | *1033.592 | *1031.918 | *1029.339 | *1025.900 | *1021.922 | * |
| -17.0 | 1017.492 | *1020.990 | *1022.260 | *1023.086 | *1023.856 | *1023.584 | *1022.379 | *1020.360 | *1017.168 | *1011.532 | * |
| -19.5 | 1003.740 | *1007.063 | *1008.310 | *1009.320 | *1010.566 | *1010.639 | *1008.685 | *1005.653 | *1001.704 | *996.977  | * |
| -22.5 | 982.404  | *985.621  | *986.765  | *987.760  | *988.811  | *988.644  | *987.397  | *985.207  | *982.147  | *976.841  | * |
| -25.5 | 959.276  | *962.341  | *963.375  | *964.350  | *965.297  | *964.950  | *963.416  | *960.890  | *957.277  | *952.666  | * |
| -29.0 | 927.481  | *930.067  | *930.930  | *931.968  | *933.182  | *933.271  | *932.282  | *930.121  | *926.618  | *922.069  | * |
| -33.0 | 887.916  | *890.694  | *891.672  | *892.632  | *893.742  | *893.770  | *892.725  | *890.757  | *888.039  | *884.075  | * |
| -37.5 | 837.448  | *840.223  | *841.200  | *842.165  | *843.272  | *843.308  | *842.304  | *840.300  | *837.710  | *834.271  | * |
| -42.5 | 772.067  | *774.932  | *775.960  | *776.986  | *778.245  | *778.456  | *777.634  | *775.797  | *773.066  | *769.511  | * |
| -47.5 | 700.939  | *704.015  | *705.205  | *706.251  | *707.653  | *708.144  | *707.735  | *706.440  | *704.276  | *700.826  | * |
| -55.0 | 594.869  | *597.356  | *598.600  | *599.813  | *602.239  | *601.645  | *601.253  | *600.005  | *597.947  | *594.470  | * |
| -65.0 | 361.235  | *361.225  | *361.220  | *363.285  | *367.413  | *368.215  | *369.260  | *369.387  | *368.655  | *367.123  | * |
| -75.0 | 42.182   | 40.174    | 39.170    | 42.760    | 49.938    | 57.115    | 63.107    | 69.279    | 75.032    | 80.300    |   |
| -85.0 | 3.744    | 3.761     | 3.770     | 3.797     | 3.850     | 3.904     | 3.957     | 4.011     | 4.064     | 4.012     |   |
| -90.0 | 0.007    | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     |   |

Vert. Horizontal Angles

|       | 15.0     | 17.0      | 19.5      | 22.5      | 25.5     | 29.0     | 33.0     | 37.5     | 42.5     | 47.5     |
|-------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| 90.0  | 0.015    | 0.015     | 0.015     | 0.015     | 0.015    | 0.015    | 0.015    | 0.016    | 0.016    | 0.016    |
| 85.0  | 7.334    | 7.378     | 7.418     | 7.440     | 7.435    | 7.392    | 7.592    | 7.810    | 7.906    | 7.775    |
| 75.0  | 128.111  | *131.094  | *133.922  | *135.901  | *136.231 | *134.389 | *130.385 | *121.942 | *107.379 | *86.041  |
| 65.0  | 406.291  | *403.336  | *399.187  | *393.814  | *388.336 | *378.662 | *361.570 | *340.583 | *312.995 | *275.507 |
| 55.0  | 598.701  | *593.787  | *586.759  | *577.098  | *566.110 | *549.566 | *524.182 | *491.527 | *452.190 | *408.059 |
| 47.5  | 708.791  | *703.408  | *695.047  | *682.633  | *668.877 | *650.633 | *626.224 | *591.554 | *547.034 | *495.189 |
| 42.5  | 778.631  | *773.121  | *763.737  | *750.372  | *735.356 | *716.379 | *689.006 | *653.317 | *604.776 | *549.372 |
| 37.5  | 839.126  | *832.399  | *822.868  | *809.771  | *794.488 | *772.739 | *745.059 | *708.580 | *658.533 | *598.649 |
| 33.0  | 886.944  | *880.161  | *870.489  | *857.223  | *841.031 | *818.121 | *789.810 | *751.824 | *701.004 | *639.873 |
| 29.0  | 925.062  | *918.495  | *909.261  | *894.891  | *877.868 | *856.729 | *824.345 | *786.124 | *735.292 | *670.989 |
| 25.5  | 954.966  | *948.552  | *937.817  | *923.682  | *907.007 | *882.463 | *851.752 | *812.416 | *758.652 | *695.011 |
| 22.5  | 975.828  | *969.233  | *960.033  | *944.731  | *927.194 | *903.868 | *872.186 | *830.280 | *776.885 | *713.725 |
| 19.5  | 995.096  | *988.462  | *977.595  | *962.730  | *944.657 | *922.337 | *888.720 | *846.363 | *793.327 | *730.578 |
| 17.0  | 1008.013 | *1001.369 | *990.603  | *974.642  | *957.630 | *933.510 | *900.810 | *858.298 | *805.566 | *742.409 |
| 15.0  | 1017.408 | *1009.679 | *999.296  | *983.361  | *965.880 | *941.381 | *909.421 | *866.797 | *813.414 | *749.122 |
| 13.0  | 1025.449 | *1017.489 | *1006.425 | *991.255  | *972.867 | *948.549 | *917.039 | *873.609 | *819.809 | *755.102 |
| 11.0  | 1031.581 | *1024.702 | *1012.971 | *998.246  | *979.161 | *954.945 | *922.882 | *879.459 | *825.236 | *760.317 |
| 9.0   | 1037.339 | *1030.094 | *1018.868 | *1003.424 | *984.688 | *960.504 | *927.552 | *884.319 | *829.855 | *764.733 |
| 7.0   | 1042.008 | *1034.466 | *1023.978 | *1007.863 | *989.323 | *964.728 | *931.374 | *888.277 | *833.641 | *768.318 |
| 5.0   | 1045.615 | *1037.920 | *1027.986 | *1011.105 | *992.783 | *967.745 | *934.334 | *891.318 | *836.572 | *771.044 |
| 3.0   | 1047.769 | *1039.747 | *1029.725 | *1013.222 | *995.232 | *969.880 | *936.401 | *893.431 | *838.630 | *772.884 |
| 1.0   | 1048.712 | *1040.535 | *1030.489 | *1014.368 | *996.636 | *971.110 | *937.547 | *894.613 | *839.803 | *773.813 |
| 0.0   | 1048.590 | *1040.582 | *1030.572 | *1014.580 | *996.939 | *971.382 | *937.770 | *894.855 | *840.055 | *773.930 |
| -1.0  | 1048.570 | *1040.370 | *1030.303 | *1014.183 | *996.451 | *970.907 | *937.381 | *894.514 | *839.727 | *773.692 |
| -3.0  | 1047.330 | *1039.243 | *1029.163 | *1012.666 | *994.673 | *969.268 | *935.904 | *893.138 | *838.400 | *772.519 |
| -5.0  | 1044.834 | *1037.072 | *1027.032 | *1010.174 | *991.838 | *966.716 | *933.517 | *890.844 | *836.184 | *770.427 |
| -7.0  | 1040.912 | *1033.399 | *1022.872 | *1006.683 | *987.973 | *963.269 | *930.251 | *887.641 | *833.087 | *767.436 |
| -9.0  | 1036.021 | *1028.869 | *1017.729 | *1002.301 | *983.234 | *958.698 | *926.142 | *883.546 | *829.126 | *763.567 |
| -11.0 | 1030.144 | *1023.372 | *1011.869 | *997.227  | *977.607 | *952.935 | *921.012 | *878.584 | *824.319 | *758.845 |

CANDELA TABULATION - (Cont.)

|       |          |           |           |           |           |           |           |           |           |           |   |
|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| -13.0 | 1023.890 | *1015.943 | *1005.153 | *990.136  | * 971.137 | * 946.134 | * 914.462 | * 872.321 | * 818.688 | * 753.298 | * |
| -15.0 | 1015.465 | *1007.706 | *997.558  | * 981.611 | * 963.896 | * 938.334 | * 906.188 | * 864.838 | * 811.783 | * 746.954 | * |
| -17.0 | 1005.457 | *998.770  | * 987.992 | * 971.808 | * 954.798 | * 929.585 | * 896.913 | * 855.433 | * 802.927 | * 739.844 | * |
| -19.5 | 991.737  | * 984.749 | * 973.318 | * 958.298 | * 939.983 | * 916.938 | * 883.975 | * 842.241 | * 789.396 | * 726.922 | * |
| -22.5 | 970.541  | * 963.456 | * 953.653 | * 938.107 | * 920.415 | * 897.140 | * 866.406 | * 824.468 | * 771.462 | * 708.838 | * |
| -25.5 | 947.243  | * 940.683 | * 929.999 | * 915.263 | * 898.426 | * 874.698 | * 844.751 | * 804.710 | * 751.804 | * 689.009 | * |
| -29.0 | 916.544  | * 910.072 | * 900.630 | * 885.825 | * 868.167 | * 847.732 | * 816.191 | * 777.374 | * 726.879 | * 663.848 | * |
| -33.0 | 878.485  | * 872.024 | * 862.254 | * 848.477 | * 831.515 | * 808.896 | * 781.080 | * 742.089 | * 691.431 | * 631.590 | * |
| -37.5 | 829.982  | * 823.366 | * 813.532 | * 799.362 | * 783.933 | * 762.651 | * 734.358 | * 697.368 | * 647.973 | * 589.347 | * |
| -42.5 | 764.985  | * 759.356 | * 750.296 | * 737.402 | * 722.931 | * 703.944 | * 676.005 | * 640.235 | * 593.030 | * 539.105 | * |
| -47.5 | 696.371  | * 690.950 | * 682.618 | * 670.095 | * 656.369 | * 637.769 | * 612.303 | * 577.130 | * 534.430 | * 484.599 | * |
| -55.0 | 588.951  | * 582.983 | * 575.017 | * 564.918 | * 554.284 | * 536.844 | * 510.653 | * 482.517 | * 447.867 | * 397.830 | * |
| -65.0 | 365.483  | * 363.152 | * 358.756 | * 351.304 | * 341.483 | * 328.575 | * 316.155 | * 302.465 | * 278.830 | * 244.450 | * |
| -75.0 | 84.577   | 86.966    | 89.241    | 90.843    | 91.113    | 89.616    | 90.495    | 88.879    | 83.454    | 71.229    |   |
| -85.0 | 4.028    | 4.262     | 4.530     | 4.827     | 5.094     | 5.363     | 5.477     | 5.495     | 5.430     | 5.627     |   |
| -90.0 | 0.008    | 0.009     | 0.009     | 0.010     | 0.010     | 0.011     | 0.011     | 0.011     | 0.011     | 0.011     |   |

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  | 0.014       | 0.010       | 0.005       | 0.002       | 0.000       |
| 85.0  | 7.204       | 5.116       | 2.557       | 0.896       | 0.002       |
| 75.0  | 70.521      | 33.496      | 7.613       | 2.664       | 0.005       |
| 65.0  | 214.143     | * 103.500   | 30.199      | 4.355       | 0.009       |
| 55.0  | 330.010     | * 211.009   | * 65.706    | 5.922       | 0.012       |
| 47.5  | 406.639     | * 273.510   | * 90.493    | 6.987       | 0.014       |
| 42.5  | 454.194     | * 308.038   | * 117.681   | * 7.636     | 0.016       |
| 37.5  | 496.147     | * 340.317   | * 142.451   | * 8.228     | 0.017       |
| 33.0  | 531.243     | * 366.084   | * 162.504   | * 8.710     | 0.018       |
| 29.0  | 559.859     | * 386.275   | * 178.431   | * 9.094     | 0.018       |
| 25.5  | 581.120     | * 401.978   | * 190.828   | * 9.396     | 0.019       |
| 22.5  | 597.599     | * 413.926   | * 200.266   | * 9.627     | 0.019       |
| 19.5  | 611.274     | * 424.442   | * 208.576   | * 9.832     | 0.020       |
| 17.0  | 621.258     | * 432.092   | * 214.619   | * 9.983     | 0.020       |
| 15.0  | 628.293     | * 437.475   | * 218.866   | * 10.090    | 0.020       |
| 13.0  | 634.463     | * 442.197   | * 222.583   | * 10.186    | 0.020       |
| 11.0  | 639.751     | * 446.255   | * 225.765   | * 10.461    | 0.021       |
| 9.0   | 644.144     | * 449.649   | * 228.406   | * 10.468    | 0.021       |
| 7.0   | 647.630     | * 452.378   | * 230.503   | * 10.475    | 0.021       |
| 5.0   | 650.203     | * 454.443   | * 233.780   | * 10.482    | 0.021       |
| 3.0   | 652.894     | * 456.580   | * 233.672   | * 10.489    | 0.021       |
| 1.0   | 652.698     | * 456.680   | * 233.564   | * 10.500    | 0.021       |
| 0.0   | 652.600     | * 456.730   | * 233.510   | * 10.500    | 0.021       |
| -1.0  | 652.502     | * 456.511   | * 233.532   | * 10.500    | 0.021       |
| -3.0  | 652.308     | * 456.075   | * 233.575   | * 10.500    | 0.021       |
| -5.0  | 649.201     | * 453.612   | * 233.619   | * 10.500    | 0.021       |
| -7.0  | 646.196     | * 451.229   | * 230.288   | * 10.500    | 0.021       |
| -9.0  | 642.246     | * 448.197   | * 228.139   | * 10.501    | 0.021       |
| -11.0 | 637.349     | * 444.520   | * 225.452   | * 10.501    | 0.021       |
| -13.0 | 631.511     | * 440.200   | * 222.233   | * 10.231    | 0.020       |
| -15.0 | 624.737     | * 435.244   | * 218.489   | * 10.142    | 0.020       |
| -17.0 | 617.036     | * 429.656   | * 214.225   | * 10.041    | 0.020       |
| -19.5 | 606.125     | * 421.797   | * 208.179   | * 9.897     | 0.020       |
| -22.5 | 591.189     | * 411.106   | * 199.893   | * 9.700     | 0.019       |
| -25.5 | 573.803     | * 399.074   | * 190.512   | * 9.476     | 0.019       |
| -29.0 | 551.606     | * 383.397   | * 178.230   | * 9.182     | 0.018       |
| -33.0 | 522.695     | * 363.409   | * 162.500   | * 8.804     | 0.018       |
| -37.5 | 486.819     | * 337.856   | * 142.757   | * 8.328     | 0.017       |
| -42.5 | 443.326     | * 305.432   | * 118.446   | * 7.739     | 0.016       |
| -47.5 | 397.939     | * 270.797   | * 91.833    | 7.090       | 0.014       |
| -55.0 | 325.030     | * 207.894   | * 66.936    | 6.019       | 0.012       |

**IES FLOOD REPORT**

**PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX**

**CANDELA TABULATION - (Cont.)**

|              |           |        |        |       |       |
|--------------|-----------|--------|--------|-------|-------|
| <b>-65.0</b> | 201.218 * | 97.666 | 31.049 | 4.434 | 0.009 |
| <b>-75.0</b> | 60.397    | 31.186 | 8.073  | 2.715 | 0.005 |
| <b>-85.0</b> | 6.019     | 4.831  | 2.717  | 0.914 | 0.002 |
| <b>-90.0</b> | 0.012     | 0.010  | 0.005  | 0.002 | 0.000 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX**

**LUMEN TABULATION**

Average Of Right And Left Sides  
 Total Luminaire Lumens (one side of beam only) = 1528.3  
 Total Field Lumens (one side of beam only) = 1504.92  
 \* Indicates Values Inside Field Edge

| Vert. 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           | 0.01              | 0.01     | 0.01     | 0.01     | 0.01     | 0.01     | 0.01      | 0.01      | 0.01      | 0.01      |
| 75           | 0.20              | 0.40     | 0.40     | 0.39     | 0.39     | 0.38     | 0.37      | 0.36      | 0.36      | 0.44      |
| 65           | 0.82 *            | 1.63 *   | 1.62 *   | 1.61 *   | 1.58 *   | 1.56 *   | 1.53 *    | 1.49 *    | 1.46 *    | 1.78 *    |
| 55           | 1.56 *            | 3.12 *   | 3.10 *   | 3.07 *   | 3.04 *   | 2.99 *   | 2.94 *    | 2.88 *    | 2.82 *    | 3.42 *    |
| 47.5         | 1.53 *            | 3.05 *   | 3.03 *   | 3.01 *   | 2.98 *   | 2.94 *   | 2.90 *    | 2.84 *    | 2.79 *    | 3.39 *    |
| 42.5         | 1.15 *            | 2.31 *   | 2.29 *   | 2.28 *   | 2.26 *   | 2.23 *   | 2.20 *    | 2.16 *    | 2.12 *    | 2.58 *    |
| 37.5         | 1.26 *            | 2.51 *   | 2.50 *   | 2.48 *   | 2.46 *   | 2.43 *   | 2.39 *    | 2.36 *    | 2.31 *    | 2.82 *    |
| 33           | 1.21 *            | 2.41 *   | 2.40 *   | 2.38 *   | 2.36 *   | 2.33 *   | 2.30 *    | 2.27 *    | 2.22 *    | 2.71 *    |
| 29           | 1.13 *            | 2.25 *   | 2.24 *   | 2.22 *   | 2.20 *   | 2.18 *   | 2.15 *    | 2.12 *    | 2.08 *    | 2.54 *    |
| 25.5         | 1.02 *            | 2.04 *   | 2.03 *   | 2.02 *   | 2.00 *   | 1.98 *   | 1.95 *    | 1.92 *    | 1.89 *    | 2.30 *    |
| 22.5         | 0.90 *            | 1.80 *   | 1.79 *   | 1.78 *   | 1.76 *   | 1.74 *   | 1.72 *    | 1.69 *    | 1.66 *    | 2.03 *    |
| 19.5         | 0.92 *            | 1.83 *   | 1.83 *   | 1.81 *   | 1.80 *   | 1.78 *   | 1.76 *    | 1.73 *    | 1.70 *    | 2.07 *    |
| 17           | 0.78 *            | 1.55 *   | 1.55 *   | 1.54 *   | 1.52 *   | 1.51 *   | 1.49 *    | 1.46 *    | 1.44 *    | 1.76 *    |
| 15           | 0.63 *            | 1.25 *   | 1.25 *   | 1.24 *   | 1.23 *   | 1.22 *   | 1.20 *    | 1.19 *    | 1.16 *    | 1.42 *    |
| 13           | 0.63 *            | 1.26 *   | 1.26 *   | 1.25 *   | 1.24 *   | 1.23 *   | 1.21 *    | 1.20 *    | 1.17 *    | 1.43 *    |
| 11           | 0.64 *            | 1.27 *   | 1.27 *   | 1.26 *   | 1.25 *   | 1.24 *   | 1.22 *    | 1.20 *    | 1.18 *    | 1.44 *    |
| 9            | 0.64 *            | 1.28 *   | 1.28 *   | 1.27 *   | 1.26 *   | 1.25 *   | 1.23 *    | 1.21 *    | 1.19 *    | 1.45 *    |
| 7            | 0.64 *            | 1.29 *   | 1.28 *   | 1.28 *   | 1.27 *   | 1.25 *   | 1.24 *    | 1.22 *    | 1.19 *    | 1.46 *    |
| 5            | 0.65 *            | 1.29 *   | 1.29 *   | 1.28 *   | 1.27 *   | 1.26 *   | 1.24 *    | 1.22 *    | 1.20 *    | 1.46 *    |
| 3            | 0.65 *            | 1.30 *   | 1.29 *   | 1.28 *   | 1.27 *   | 1.26 *   | 1.24 *    | 1.22 *    | 1.20 *    | 1.47 *    |
| 1            | 0.65 *            | 1.30 *   | 1.29 *   | 1.29 *   | 1.27 *   | 1.26 *   | 1.24 *    | 1.23 *    | 1.20 *    | 1.47 *    |
| 0            | 0.33 *            | 0.65 *   | 0.65 *   | 0.64 *   | 0.64 *   | 0.63 *   | 0.62 *    | 0.61 *    | 0.60 *    | 0.74 *    |
| -1           | 0.33 *            | 0.65 *   | 0.65 *   | 0.64 *   | 0.64 *   | 0.63 *   | 0.62 *    | 0.61 *    | 0.60 *    | 0.74 *    |
| -3           | 0.65 *            | 1.30 *   | 1.29 *   | 1.29 *   | 1.27 *   | 1.26 *   | 1.24 *    | 1.23 *    | 1.20 *    | 1.47 *    |
| -5           | 0.65 *            | 1.30 *   | 1.29 *   | 1.28 *   | 1.27 *   | 1.26 *   | 1.24 *    | 1.22 *    | 1.20 *    | 1.47 *    |
| -7           | 0.65 *            | 1.29 *   | 1.29 *   | 1.28 *   | 1.27 *   | 1.25 *   | 1.24 *    | 1.22 *    | 1.20 *    | 1.46 *    |
|              | 0.64 *            | 1.28 *   | 1.28 *   | 1.27 *   | 1.26 *   | 1.25 *   | 1.23 *    | 1.21 *    | 1.19 *    | 1.46 *    |



LUMENS TABULATION - (Cont.)

|              |        |        |        |        |        |        |        |        |        |        |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -9           | 0.64 * | 1.28 * | 1.27 * | 1.27 * | 1.26 * | 1.24 * | 1.23 * | 1.21 * | 1.19 * | 1.45 * |
| -11          | 0.64 * | 1.27 * | 1.27 * | 1.26 * | 1.25 * | 1.24 * | 1.22 * | 1.20 * | 1.18 * | 1.44 * |
| -13          | 0.63 * | 1.26 * | 1.26 * | 1.25 * | 1.24 * | 1.23 * | 1.21 * | 1.19 * | 1.17 * | 1.43 * |
| -15          | 0.63 * | 1.25 * | 1.25 * | 1.24 * | 1.23 * | 1.21 * | 1.20 * | 1.18 * | 1.16 * | 1.42 * |
| -17          | 0.77 * | 1.54 * | 1.54 * | 1.53 * | 1.52 * | 1.50 * | 1.48 * | 1.46 * | 1.43 * | 1.75 * |
| -19.5        | 0.91 * | 1.82 * | 1.81 * | 1.80 * | 1.79 * | 1.77 * | 1.75 * | 1.72 * | 1.69 * | 2.06 * |
| -22.5        | 0.89 * | 1.78 * | 1.77 * | 1.76 * | 1.75 * | 1.73 * | 1.71 * | 1.68 * | 1.65 * | 2.01 * |
| -25.5        | 1.01 * | 2.02 * | 2.01 * | 2.00 * | 1.98 * | 1.96 * | 1.93 * | 1.90 * | 1.87 * | 2.28 * |
| -29          | 1.11 * | 2.22 * | 2.21 * | 2.20 * | 2.18 * | 2.16 * | 2.13 * | 2.09 * | 2.05 * | 2.51 * |
| -33          | 1.19 * | 2.37 * | 2.36 * | 2.35 * | 2.33 * | 2.31 * | 2.28 * | 2.24 * | 2.20 * | 2.68 * |
| -37.5        | 1.23 * | 2.46 * | 2.45 * | 2.44 * | 2.42 * | 2.39 * | 2.36 * | 2.32 * | 2.28 * | 2.77 * |
| -42.5        | 1.13 * | 2.25 * | 2.24 * | 2.23 * | 2.21 * | 2.19 * | 2.16 * | 2.12 * | 2.08 * | 2.53 * |
| -47.5        | 1.49 * | 2.98 * | 2.96 * | 2.94 * | 2.92 * | 2.88 * | 2.84 * | 2.79 * | 2.73 * | 3.32 * |
| -55          | 1.46 * | 2.93 * | 2.92 * | 2.90 * | 2.87 * | 2.83 * | 2.79 * | 2.73 * | 2.67 * | 3.24 * |
| -65          | 0.61 * | 1.24 * | 1.25 * | 1.26 * | 1.26 * | 1.25 * | 1.25 * | 1.23 * | 1.21 * | 1.47 * |
| -75          | 0.07   | 0.14   | 0.16   | 0.17   | 0.18   | 0.19   | 0.20   | 0.21   | 0.21   | 0.27   |
| -85          | 0.00   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   |
| -90          | 0.00   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   |
| <b>Total</b> | 35.25  | 70.43  | 70.19  | 69.75  | 69.16  | 68.39  | 67.47  | 66.38  | 65.13  | 79.44  |

Vert. Horizontal Angles

|             | <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>   | 0.01        | 0.01        | 0.02        | 0.02      | 0.02      | 0.02        | 0.01        | 0.02        | 0.01      | 0.01      |
| <b>85</b>   | 0.52        | 0.50        | 0.55        | 0.58      | 0.57      | 0.52        | 0.38        | 0.39        | 0.27      | 0.08      |
| <b>75</b>   | 2.05 *      | 1.95 *      | 2.14 *      | 2.23 *    | 2.22 *    | 2.08 *      | 1.63 *      | 1.66 *      | 1.04      | 0.27      |
| <b>65</b>   | 3.94 *      | 3.75 *      | 4.11 *      | 4.30 *    | 4.30 *    | 4.09 *      | 3.33 *      | 3.56 *      | 2.37 *    | 0.66      |
| <b>55</b>   | 3.92 *      | 3.74 *      | 4.11 *      | 4.33 *    | 4.35 *    | 4.16 *      | 3.44 *      | 3.80 *      | 2.74 *    | 0.83 *    |
| <b>47.5</b> | 2.99 *      | 2.85 *      | 3.14 *      | 3.32 *    | 3.36 *    | 3.23 *      | 2.68 *      | 3.00 *      | 2.24 *    | 0.72 *    |
| <b>42.5</b> | 3.26 *      | 3.12 *      | 3.44 *      | 3.64 *    | 3.69 *    | 3.56 *      | 2.97 *      | 3.35 *      | 2.54 *    | 0.86 *    |
| <b>37.5</b> | 3.14 *      | 3.01 *      | 3.32 *      | 3.52 *    | 3.58 *    | 3.47 *      | 2.90 *      | 3.28 *      | 2.53 *    | 0.89 *    |
| <b>33</b>   | 2.94 *      | 2.82 *      | 3.11 *      | 3.30 *    | 3.36 *    | 3.26 *      | 2.74 *      | 3.11 *      | 2.41 *    | 0.86 *    |
| <b>29</b>   | 2.67 *      | 2.56 *      | 2.83 *      | 3.00 *    | 3.06 *    | 2.98 *      | 2.51 *      | 2.85 *      | 2.22 *    | 0.81 *    |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX**

**LUMENS TABULATION - (Cont.)**

|              |        |        |        |        |        |        |        |        |        |        |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>25.5</b>  | 2.36 * | 2.26 * | 2.49 * | 2.65 * | 2.70 * | 2.63 * | 2.22 * | 2.53 * | 1.98 * | 0.72 * |
| <b>22.5</b>  | 2.41 * | 2.31 * | 2.55 * | 2.71 * | 2.76 * | 2.69 * | 2.28 * | 2.60 * | 2.04 * | 0.75 * |
| <b>19.5</b>  | 2.04 * | 1.95 * | 2.16 * | 2.30 * | 2.34 * | 2.29 * | 1.94 * | 2.22 * | 1.74 * | 0.65 * |
| <b>17</b>    | 1.65 * | 1.58 * | 1.75 * | 1.86 * | 1.90 * | 1.85 * | 1.57 * | 1.80 * | 1.42 * | 0.53 * |
| <b>15</b>    | 1.66 * | 1.59 * | 1.76 * | 1.88 * | 1.92 * | 1.87 * | 1.59 * | 1.82 * | 1.44 * | 0.54 * |
| <b>13</b>    | 1.67 * | 1.61 * | 1.78 * | 1.89 * | 1.93 * | 1.89 * | 1.60 * | 1.84 * | 1.45 * | 0.54 * |
| <b>11</b>    | 1.68 * | 1.62 * | 1.79 * | 1.90 * | 1.94 * | 1.90 * | 1.61 * | 1.85 * | 1.47 * | 0.55 * |
| <b>9</b>     | 1.69 * | 1.62 * | 1.80 * | 1.91 * | 1.95 * | 1.91 * | 1.62 * | 1.86 * | 1.48 * | 0.55 * |
| <b>7</b>     | 1.70 * | 1.63 * | 1.80 * | 1.92 * | 1.96 * | 1.92 * | 1.63 * | 1.87 * | 1.49 * | 0.56 * |
| <b>5</b>     | 1.71 * | 1.63 * | 1.81 * | 1.92 * | 1.97 * | 1.92 * | 1.63 * | 1.88 * | 1.49 * | 0.56 * |
| <b>3</b>     | 1.71 * | 1.64 * | 1.81 * | 1.93 * | 1.97 * | 1.93 * | 1.63 * | 1.88 * | 1.50 * | 0.56 * |
| <b>1</b>     | 0.85 * | 0.82 * | 0.91 * | 0.96 * | 0.99 * | 0.96 * | 0.82 * | 0.94 * | 0.75 * | 0.28 * |
| <b>0</b>     | 0.85 * | 0.82 * | 0.91 * | 0.96 * | 0.99 * | 0.96 * | 0.82 * | 0.94 * | 0.75 * | 0.28 * |
| <b>-1</b>    | 1.71 * | 1.64 * | 1.81 * | 1.93 * | 1.97 * | 1.92 * | 1.63 * | 1.88 * | 1.50 * | 0.56 * |
| <b>-3</b>    | 1.70 * | 1.63 * | 1.81 * | 1.92 * | 1.96 * | 1.92 * | 1.63 * | 1.87 * | 1.49 * | 0.56 * |
| <b>-5</b>    | 1.70 * | 1.63 * | 1.80 * | 1.92 * | 1.96 * | 1.91 * | 1.62 * | 1.87 * | 1.48 * | 0.56 * |
| <b>-7</b>    | 1.69 * | 1.62 * | 1.79 * | 1.91 * | 1.95 * | 1.91 * | 1.62 * | 1.86 * | 1.47 * | 0.55 * |
| <b>-9</b>    | 1.68 * | 1.61 * | 1.78 * | 1.90 * | 1.94 * | 1.89 * | 1.61 * | 1.84 * | 1.46 * | 0.55 * |
| <b>-11</b>   | 1.67 * | 1.60 * | 1.77 * | 1.88 * | 1.93 * | 1.88 * | 1.59 * | 1.83 * | 1.45 * | 0.54 * |
| <b>-13</b>   | 1.66 * | 1.59 * | 1.76 * | 1.87 * | 1.91 * | 1.87 * | 1.58 * | 1.81 * | 1.43 * | 0.53 * |
| <b>-15</b>   | 1.64 * | 1.57 * | 1.74 * | 1.85 * | 1.89 * | 1.85 * | 1.56 * | 1.79 * | 1.41 * | 0.52 * |
| <b>-17</b>   | 2.03 * | 1.94 * | 2.15 * | 2.28 * | 2.33 * | 2.27 * | 1.92 * | 2.20 * | 1.73 * | 0.64 * |
| <b>-19.5</b> | 2.39 * | 2.29 * | 2.53 * | 2.69 * | 2.74 * | 2.67 * | 2.26 * | 2.58 * | 2.03 * | 0.75 * |
| <b>-22.5</b> | 2.34 * | 2.24 * | 2.47 * | 2.63 * | 2.68 * | 2.61 * | 2.19 * | 2.50 * | 1.96 * | 0.72 * |
| <b>-25.5</b> | 2.65 * | 2.53 * | 2.80 * | 2.97 * | 3.03 * | 2.94 * | 2.47 * | 2.81 * | 2.20 * | 0.80 * |
| <b>-29</b>   | 2.91 * | 2.78 * | 3.07 * | 3.26 * | 3.31 * | 3.21 * | 2.70 * | 3.06 * | 2.39 * | 0.86 * |
| <b>-33</b>   | 3.10 * | 2.97 * | 3.27 * | 3.46 * | 3.52 * | 3.40 * | 2.85 * | 3.22 * | 2.50 * | 0.88 * |
| <b>-37.5</b> | 3.21 * | 3.07 * | 3.38 * | 3.57 * | 3.62 * | 3.49 * | 2.91 * | 3.28 * | 2.51 * | 0.86 * |
| <b>-42.5</b> | 2.93 * | 2.80 * | 3.08 * | 3.25 * | 3.28 * | 3.15 * | 2.63 * | 2.94 * | 2.20 * | 0.71 * |
| <b>-47.5</b> | 3.83 * | 3.66 * | 4.02 * | 4.22 * | 4.24 * | 4.07 * | 3.36 * | 3.72 * | 2.68 * | 0.81 * |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX**

**LUMENS TABULATION - (Cont.)**

|              |        |        |        |        |        |        |        |        |        |       |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| <b>-55</b>   | 3.72 * | 3.53 * | 3.85 * | 4.03 * | 4.04 * | 3.86 * | 3.13 * | 3.35 * | 2.26 * | 0.64  |
| <b>-65</b>   | 1.70 * | 1.61 * | 1.75 * | 1.84 * | 1.85 * | 1.76 * | 1.38 * | 1.43 * | 0.93   | 0.25  |
| <b>-75</b>   | 0.32   | 0.31   | 0.35   | 0.38   | 0.39   | 0.36   | 0.28   | 0.29   | 0.22   | 0.07  |
| <b>-85</b>   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01  |
| <b>-90</b>   |        |        |        |        |        |        |        |        |        |       |
| <b>Total</b> | 92.04  | 88.03  | 97.09  | 102.79 | 104.37 | 101.07 | 84.49  | 95.19  | 72.70  | 25.43 |

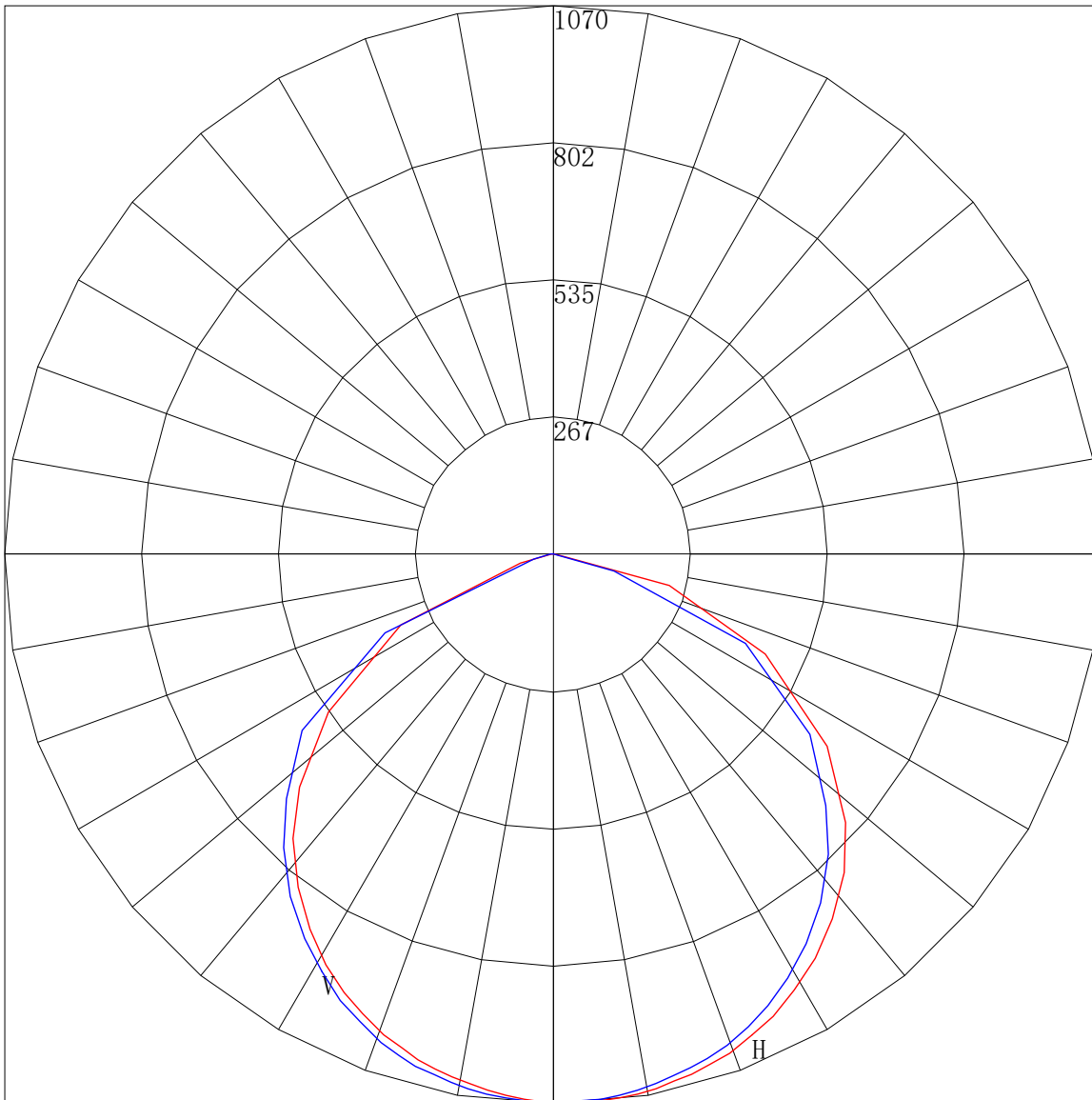
| <b>Vert. Angles</b> | <b>Horizontal Angles</b> |           |           | <b>Total</b> |
|---------------------|--------------------------|-----------|-----------|--------------|
|                     | <b>75</b>                | <b>85</b> | <b>90</b> |              |
| <b>90</b>           | 0.00                     | 0.00      | 0.00      | 0.25         |
| <b>85</b>           | 0.01                     | 0.00      | 0.00      | 8.06         |
| <b>75</b>           | 0.03                     | 0.00      | 0.00      | 32.38        |
| <b>65</b>           | 0.08                     | 0.00      | 0.00      | 63.46        |
| <b>55</b>           | 0.09                     | 0.00      | 0.00      | 63.95        |
| <b>47.5</b>         | 0.09                     | 0.00      | 0.00      | 49.20        |
| <b>42.5</b>         | 0.11                     | 0.00      | 0.00      | 54.06        |
| <b>37.5</b>         | 0.12                     | 0.00      | 0.00      | 52.35        |
| <b>33</b>           | 0.12                     | 0.00      | 0.00      | 49.13        |
| <b>29</b>           | 0.11                     | 0.00      | 0.00      | 44.76        |
| <b>25.5</b>         | 0.10                     | 0.00      | 0.00      | 39.52        |
| <b>22.5</b>         | 0.11 *                   | 0.00      | 0.00      | 40.45        |
| <b>19.5</b>         | 0.09 *                   | 0.00      | 0.00      | 34.32        |
| <b>17</b>           | 0.08 *                   | 0.00      | 0.00      | 27.79        |
| <b>15</b>           | 0.08 *                   | 0.00      | 0.00      | 28.04        |
| <b>13</b>           | 0.08 *                   | 0.00      | 0.00      | 28.26        |
| <b>11</b>           | 0.08 *                   | 0.00      | 0.00      | 28.44        |
| <b>9</b>            | 0.08 *                   | 0.00      | 0.00      | 28.60        |
| <b>7</b>            | 0.08 *                   | 0.00      | 0.00      | 28.72        |
| <b>5</b>            | 0.08 *                   | 0.00      | 0.00      | 28.80        |
| <b>3</b>            | 0.08 *                   | 0.00      | 0.00      | 28.85        |
| <b>1</b>            | 0.04 *                   | 0.00      | 0.00      | 14.43        |
| <b>0</b>            | 0.04 *                   | 0.00      | 0.00      | 14.43        |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ASD-FLSL-30N50A-XX**

**LUMENS TABULATION - (Cont.)**

|              |        |      |        |
|--------------|--------|------|--------|
| <b>-1</b>    | 0.08 * | 0.00 | 28.84  |
| <b>-3</b>    | 0.08 * | 0.00 | 28.78  |
| <b>-5</b>    | 0.08 * | 0.00 | 28.68  |
| <b>-7</b>    | 0.08 * | 0.00 | 28.54  |
| <b>-9</b>    | 0.08 * | 0.00 | 28.37  |
| <b>-11</b>   | 0.08 * | 0.00 | 28.17  |
| <b>-13</b>   | 0.08 * | 0.00 | 27.94  |
| <b>-15</b>   | 0.08 * | 0.00 | 27.67  |
| <b>-17</b>   | 0.09 * | 0.00 | 34.13  |
| <b>-19.5</b> | 0.11   | 0.00 | 40.17  |
| <b>-22.5</b> | 0.10   | 0.00 | 39.18  |
| <b>-25.5</b> | 0.11   | 0.00 | 44.29  |
| <b>-29</b>   | 0.12   | 0.00 | 48.52  |
| <b>-33</b>   | 0.12   | 0.00 | 51.59  |
| <b>-37.5</b> | 0.11   | 0.00 | 53.11  |
| <b>-42.5</b> | 0.09   | 0.00 | 48.20  |
| <b>-47.5</b> | 0.09   | 0.00 | 62.53  |
| <b>-55</b>   | 0.08   | 0.00 | 59.85  |
| <b>-65</b>   | 0.04   | 0.00 | 26.56  |
| <b>-75</b>   | 0.01   | 0.00 | 4.77   |
| <b>-85</b>   | 0.00   | 0.00 | 0.16   |
| <b>-90</b>   |        |      |        |
| <b>Total</b> | 3.50   | 0.02 | 1528.3 |

AXIAL CANDELA DISPLAY

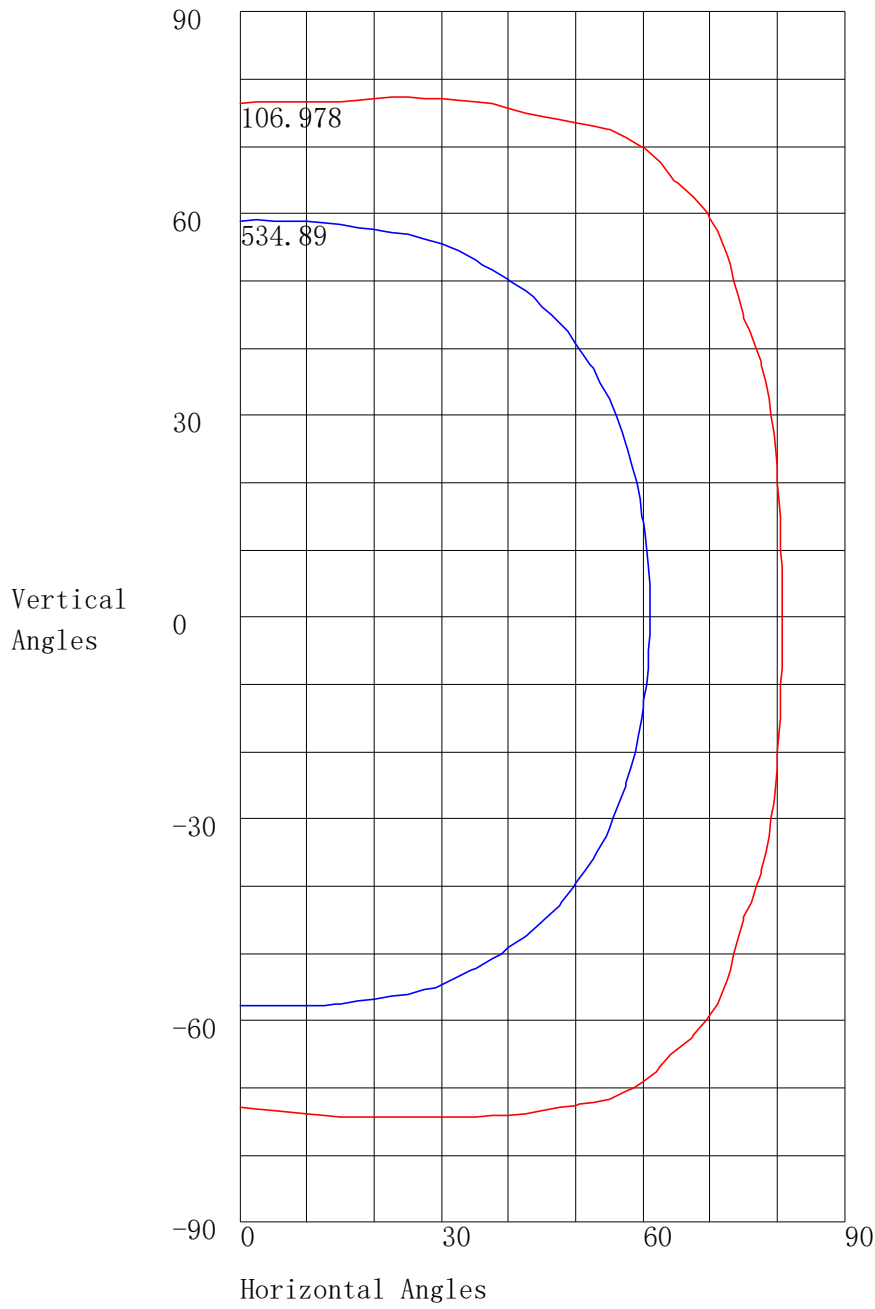


Maximum Candela = 1069.78 Located At Horizontal Angle = 5, Vertical Angle = 0

H - Horizontal Axial Candela

V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 1069.78 Located At Horizontal Angle = 5, Vertical Angle = 0  
50% Maximum Candela = 534.89  
10% Maximum Candela = 106.978