



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13138
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/20/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-MWF-50-GS
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 5000

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

CHARACTERISTICS

| | |
|------------------------------|-----------------|
| NEMA Type | 5 H x 5 V |
| Maximum Candela | 118475 |
| Maximum Candela Angle | 0H 3V |
| Horizontal Beam Angle (50%) | 38.8 |
| Vertical Beam Angle (50%) | 38.8 |
| Horizontal Field Angle (10%) | 76.6 |
| Vertical Field Angle (10%) | 75.3 |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Beam Lumens | 33471 |
| Beam Efficiency | N.A. |
| Field Lumens | 59294 |
| Field Efficiency | N.A. |
| Spill Lumens | 7836 |
| Luminaire Lumens | 67130 |
| Total Efficiency | N.A. |
| Total Luminaire Watts | 462.9 |
| Ballast Factor | 1.00 |

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AXIAL CANDELA

| DEG. | HOR. | DEG. | VERT. |
|-------|--------|-------|--------|
| 90 | 1 | 90 | 0 |
| 85 | 34 | 85 | 0 |
| 75 | 239 | 75 | 0 |
| 65 | 715 | 65 | 126 |
| 55 | 1673 | 55 | 854 |
| 47.5 | 3067 | 47.5 | 1591 |
| 42.5 | 7111 | 42.5 | 4378 |
| 37.5 | 13031 | 37.5 | 9535 |
| 33 | 19517 | 33 | 15559 |
| 29 | 26896 | 29 | 22507 |
| 25.5 | 35095 | 25.5 | 30268 |
| 22.5 | 44736 | 22.5 | 39525 |
| 19.5 | 60017 | 19.5 | 54680 |
| 17 | 75317 | 17 | 70811 |
| 15 | 87119 | 15 | 83024 |
| 13 | 96233 | 13 | 93777 |
| 11 | 103558 | 11 | 102125 |
| 9 | 109394 | 9 | 108583 |
| 7 | 113891 | 7 | 113556 |
| 5 | 117052 | 5 | 117341 |
| 3 | 118073 | 3 | 118475 |
| 1 | 118233 | 1 | 118405 |
| 0 | 118169 | 0 | 118169 |
| -1 | 118233 | -1 | 118198 |
| -3 | 118073 | -3 | 118025 |
| -5 | 117052 | -5 | 117158 |
| -7 | 113891 | -7 | 114308 |
| -9 | 109394 | -9 | 110176 |
| -11 | 103558 | -11 | 104779 |
| -13 | 96233 | -13 | 97906 |
| -15 | 87119 | -15 | 89112 |
| -17 | 75317 | -17 | 77029 |
| -19.5 | 60017 | -19.5 | 62106 |
| -22.5 | 44736 | -22.5 | 46391 |
| -25.5 | 35095 | -25.5 | 36482 |
| -29 | 26896 | -29 | 28271 |
| -33 | 19517 | -33 | 21000 |
| -37.5 | 13031 | -37.5 | 14197 |
| -42.5 | 7111 | -42.5 | 8352 |
| -47.5 | 3067 | -47.5 | 3651 |
| -55 | 1673 | -55 | 2137 |
| -65 | 715 | -65 | 990 |
| -75 | 239 | -75 | 407 |
| -85 | 34 | -85 | 105 |
| -90 | 1 | -90 | 24 |

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CANDELA TABULATION

Maximum Candela = 118475

Beam Edge = 59237.5 Cd (50% of Max.)

Field Edge = 11847.5 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 85.0 | 1 | 2 | 4 | 4 | 4 | 4 | 3 | 2 | 1 | 1 |
| 75.0 | 1 | 5 | 16 | 26 | 31 | 29 | 26 | 21 | 15 | 12 |
| 65.0 | 1 | 8 | 38 | 76 | 110 | 132 | 144 | 153 | 160 | 165 |
| 55.0 | 1 | 12 | 67 | 146 | 242 | 343 | 415 | 495 | 571 | 645 |
| 47.5 | 1 | 17 | 92 | 208 | 382 | 557 | 713 | 833 | 948 | 1124 |
| 42.5 | 1 | 20 | 112 | 258 | 497 | 794 | 952 | 1196 | 1483 | 1620 |
| 37.5 | 1 | 23 | 131 | 316 | 651 | 1005 | 1299 | 1678 | 2059 | 2838 |
| 33.0 | 1 | 25 | 147 | 374 | 812 | 1225 | 1722 | 2199 | 3461 | 5201 |
| 29.0 | 1 | 27 | 162 | 428 | 949 | 1537 | 2000 | 3265 | 5578 | 8033 |
| 25.5 | 1 | 28 | 174 | 475 | 1051 | 1816 | 2412 | 4577 | 7672 | 10656 |
| 22.5 | 1 | 29 | 184 | 512 | 1138 | 1961 | 2895 | 5873 | 9531 | 13072 * |
| 19.5 | 1 | 30 | 194 | 551 | 1235 | 2095 | 3604 | 7226 | 11462 | 15521 * |
| 17.0 | 1 | 31 | 201 | 581 | 1324 | 2232 | 4152 | 8318 | 13012 * | 17604 * |
| 15.0 | 1 | 32 | 207 | 604 | 1389 | 2373 | 4681 | 9129 | 14118 * | 19153 * |
| 13.0 | 1 | 32 | 213 | 625 | 1447 | 2505 | 5207 | 9970 | 15130 * | 20745 * |
| 11.0 | 1 | 33 | 218 | 644 | 1499 | 2625 | 5676 | 10723 | 16131 * | 22216 * |
| 9.0 | 1 | 34 | 223 | 662 | 1545 | 2733 | 6085 | 11398 | 17074 * | 23547 * |
| 7.0 | 1 | 34 | 227 | 677 | 1584 | 2829 | 6431 | 11976 * | 17908 * | 24696 * |
| 5.0 | 1 | 34 | 233 | 690 | 1617 | 2912 | 6712 | 12452 * | 18597 * | 25630 * |
| 3.0 | 1 | 34 | 235 | 704 | 1650 | 3006 | 7004 | 12792 * | 19125 * | 26303 * |
| 1.0 | 1 | 34 | 238 | 711 | 1665 | 3047 | 7075 | 12993 * | 19428 * | 26761 * |
| 0.0 | 1 | 34 | 239 | 715 | 1673 | 3067 | 7111 | 13031 * | 19517 * | 26896 * |
| -1.0 | 1 | 34 | 240 | 718 | 1686 | 3083 | 7152 | 13047 * | 19537 * | 26952 * |
| -3.0 | 1 | 34 | 243 | 723 | 1713 | 3116 | 7235 | 12954 * | 19449 * | 26854 * |
| -5.0 | 1 | 35 | 246 | 722 | 1720 | 3090 | 7084 | 12832 * | 19280 * | 26481 * |
| -7.0 | 1 | 35 | 246 | 722 | 1725 | 3068 | 6930 | 12639 * | 18948 * | 25879 * |
| -9.0 | 1 | 35 | 246 | 719 | 1708 | 3027 | 6702 | 12322 * | 18438 * | 25094 * |
| -11.0 | 1 | 35 | 247 | 714 | 1682 | 2965 | 6400 | 11878 * | 17724 * | 24069 * |
| -13.0 | 1 | 34 | 246 | 709 | 1650 | 2883 | 6026 | 11297 | 16891 * | 22858 * |
| -15.0 | 1 | 34 | 245 | 700 | 1610 | 2781 | 5579 | 10617 | 16028 * | 21473 * |
| -17.0 | 1 | 34 | 244 | 690 | 1564 | 2659 | 5097 | 9936 | 15025 * | 20101 * |
| -19.5 | 1 | 33 | 241 | 674 | 1497 | 2564 | 4558 | 8962 | 13587 * | 18192 * |
| -22.5 | 1 | 33 | 236 | 651 | 1434 | 2498 | 3810 | 7609 | 11786 | 15844 * |
| -25.5 | 1 | 32 | 229 | 627 | 1383 | 2419 | 3279 | 6199 | 9883 | 13432 * |
| -29.0 | 1 | 31 | 220 | 590 | 1319 | 2167 | 2806 | 4730 | 7699 | 10777 |
| -33.0 | 1 | 29 | 207 | 545 | 1199 | 1856 | 2601 | 3443 | 5385 | 7756 |
| -37.5 | 1 | 27 | 192 | 489 | 1045 | 1574 | 2178 | 2760 | 3485 | 4864 |
| -42.5 | 1 | 25 | 172 | 423 | 877 | 1411 | 1690 | 2252 | 2696 | 2956 |
| -47.5 | 1 | 22 | 149 | 364 | 727 | 1107 | 1445 | 1657 | 2028 | 2340 |
| -55.0 | 1 | 17 | 119 | 285 | 523 | 774 | 954 | 1150 | 1355 | 1530 |
| -65.0 | 1 | 12 | 78 | 183 | 314 | 428 | 513 | 602 | 685 | 748 |
| -75.0 | 1 | 8 | 41 | 96 | 159 | 208 | 246 | 281 | 310 | 329 |
| -85.0 | 1 | 4 | 14 | 28 | 44 | 58 | 67 | 75 | 83 | 88 |
| -90.0 | 1 | 2 | 5 | 9 | 14 | 17 | 19 | 20 | 21 | 22 |

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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 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 8 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 166 | 166 | 168 | 166 | 164 | 160 | 156 | 150 | 143 | 134 |
| 55.0 | 689 | 724 | 756 | 778 | 794 | 807 | 820 | 831 | 841 | 848 |
| 47.5 | 1266 | 1314 | 1346 | 1390 | 1442 | 1484 | 1518 | 1552 | 1576 | 1589 |
| 42.5 | 1846 | 2115 | 2526 | 2814 | 3154 | 3486 | 3752 | 3981 | 4169 | 4301 |
| 37.5 | 3802 | 4758 | 5810 | 6620 | 7182 | 7761 | 8251 | 8647 | 8941 | 9136 |
| 33.0 | 6888 | 8348 | 9787 | 11050 | 11980 * | 12776 * | 13479 * | 14060 * | 14535 * | 14917 * |
| 29.0 | 10140 | 12200 * | 14140 * | 15749 * | 16944 * | 18219 * | 19282 * | 20130 * | 20855 * | 21527 * |
| 25.5 | 13470 * | 16076 * | 18634 * | 20694 * | 22515 * | 24194 * | 25586 * | 26991 * | 28126 * | 29104 * |
| 22.5 | 16531 * | 19752 * | 23028 * | 25802 * | 28236 * | 30543 * | 32451 * | 34570 * | 36356 * | 37843 * |
| 19.5 | 19737 * | 23625 * | 27724 * | 31738 * | 35137 * | 38631 * | 41703 * | 45247 * | 48402 * | 50799 * |
| 17.0 | 22374 * | 26899 * | 32163 * | 37346 * | 41632 * | 47422 * | 52518 * | 57824 * | 62638 * | 66932 * |
| 15.0 | 24493 * | 29672 * | 35892 * | 42031 * | 48784 * | 55559 * | 63177 * | 69532 * | 74469 * | 78834 * |
| 13.0 | 26534 * | 32439 * | 39847 * | 48161 * | 55890 * | 65115 * | 73253 * | 80229 * | 85749 * | 89586 * |
| 11.0 | 28473 * | 35021 * | 43779 * | 54062 * | 63882 * | 73586 * | 82240 * | 89271 * | 94909 * | 98712 * |
| 9.0 | 30472 * | 37972 * | 48691 * | 60848 * | 71489 * | 80958 * | 89600 * | 97015 * | 101601 * | 105330 * |
| 7.0 | 32202 * | 40602 * | 53007 * | 66729 * | 77672 * | 87546 * | 95737 * | 102008 * | 106624 * | 109906 * |
| 5.0 | 33449 * | 42582 * | 56313 * | 71353 * | 82247 * | 91776 * | 99710 * | 105614 * | 110240 * | 113383 * |
| 3.0 | 34361 * | 43925 * | 58680 * | 74008 * | 85357 * | 94595 * | 101937 * | 107730 * | 112355 * | 115658 * |
| 1.0 | 34940 * | 44703 * | 59904 * | 75231 * | 87213 * | 96162 * | 103294 * | 108987 * | 113549 * | 116956 * |
| 0.0 | 35095 * | 44736 * | 60017 * | 75317 * | 87119 * | 96233 * | 103558 * | 109394 * | 113891 * | 117052 * |
| -1.0 | 35206 * | 45169 * | 60503 * | 75750 * | 87307 * | 96251 * | 103407 * | 109102 * | 113624 * | 116974 * |
| -3.0 | 35075 * | 44979 * | 59832 * | 74851 * | 85818 * | 95027 * | 102416 * | 108354 * | 113040 * | 115878 * |
| -5.0 | 34411 * | 43840 * | 57650 * | 72286 * | 82963 * | 92499 * | 100859 * | 106623 * | 110872 * | 114009 * |
| -7.0 | 33404 * | 42150 * | 54792 * | 68188 * | 78722 * | 88732 * | 97088 * | 103076 * | 107807 * | 110986 * |
| -9.0 | 32067 * | 39983 * | 51090 * | 63307 * | 74143 * | 83841 * | 91883 * | 98526 * | 103218 * | 106870 * |
| -11.0 | 30455 * | 37433 * | 46774 * | 57944 * | 68063 * | 77241 * | 85332 * | 92068 * | 97377 * | 100962 * |
| -13.0 | 28874 * | 35126 * | 43047 * | 52300 * | 60614 * | 69379 * | 77155 * | 84097 * | 89624 * | 93195 * |
| -15.0 | 27082 * | 32603 * | 39308 * | 46091 * | 53530 * | 60550 * | 67829 * | 74257 * | 79513 * | 83867 * |
| -17.0 | 25178 * | 30051 * | 35796 * | 41564 * | 46318 * | 52431 * | 58057 * | 63780 * | 68868 * | 73182 * |
| -19.5 | 22795 * | 26915 * | 31657 * | 35942 * | 39563 * | 43414 * | 47235 * | 51649 * | 55715 * | 59040 * |
| -22.5 | 19680 * | 23116 * | 26878 * | 30192 * | 32799 * | 35367 * | 37724 * | 40505 * | 42958 * | 44771 * |
| -25.5 | 16667 * | 19586 * | 22680 * | 25296 * | 27276 * | 29113 * | 30750 * | 32594 * | 34204 * | 35330 * |
| -29.0 | 13367 * | 15869 * | 18331 * | 20235 * | 21644 * | 23088 * | 24347 * | 25452 * | 26466 * | 27345 * |
| -33.0 | 9990 | 11943 * | 13764 * | 15252 * | 16335 * | 17261 * | 18122 * | 18871 * | 19557 * | 20143 * |
| -37.5 | 6395 | 7782 | 9228 | 10376 | 11182 | 11875 * | 12478 * | 12992 * | 13454 * | 13819 * |
| -42.5 | 3516 | 4124 | 4968 | 5599 | 6135 | 6645 | 7091 | 7465 | 7766 | 7993 |
| -47.5 | 2596 | 2721 | 2834 | 2965 | 3130 | 3275 | 3401 | 3508 | 3593 | 3656 |
| -55.0 | 1594 | 1640 | 1707 | 1806 | 1883 | 1956 | 2014 | 2058 | 2090 | 2111 |
| -65.0 | 801 | 836 | 873 | 900 | 919 | 935 | 948 | 959 | 968 | 974 |
| -75.0 | 345 | 358 | 370 | 378 | 385 | 390 | 394 | 398 | 401 | 405 |
| -85.0 | 92 | 95 | 96 | 98 | 99 | 100 | 102 | 102 | 102 | 102 |
| -90.0 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 |

| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 132 | 128 | 126 | 128 | 132 | 134 | 143 | 150 | 156 | 160 |

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| 55.0 | 856 | 855 | 854 | 855 | 856 | 848 | 841 | 831 | 820 | 807 |
| 47.5 | 1606 | 1596 | 1591 | 1596 | 1606 | 1589 | 1576 | 1552 | 1518 | 1484 |
| 42.5 | 4438 | 4398 | 4378 | 4398 | 4438 | 4301 | 4169 | 3981 | 3752 | 3486 |
| 37.5 | 9235 | 9471 | 9535 | 9471 | 9235 | 9136 | 8941 | 8647 | 8251 | 7761 |
| 33.0 | 15174 * | 15461 * | 15559 * | 15461 * | 15174 * | 14917 * | 14535 * | 14060 * | 13479 * | 12776 * |
| 29.0 | 21975 * | 22370 * | 22507 * | 22370 * | 21975 * | 21527 * | 20855 * | 20130 * | 19282 * | 18219 * |
| 25.5 | 29791 * | 30184 * | 30268 * | 30184 * | 29791 * | 29104 * | 28126 * | 26991 * | 25586 * | 24194 * |
| 22.5 | 39098 * | 39686 * | 39525 * | 39686 * | 39098 * | 37843 * | 36356 * | 34570 * | 32451 * | 30543 * |
| 19.5 | 53532 * | 54829 * | 54680 * | 54829 * | 53532 * | 50799 * | 48402 * | 45247 * | 41703 * | 38631 * |
| 17.0 | 69783 * | 70983 * | 70811 * | 70983 * | 69783 * | 66932 * | 62638 * | 57824 * | 52518 * | 47422 * |
| 15.0 | 81744 * | 83345 * | 83024 * | 83345 * | 81744 * | 78834 * | 74469 * | 69532 * | 63177 * | 55559 * |
| 13.0 | 92313 * | 93823 * | 93777 * | 93823 * | 92313 * | 89586 * | 85749 * | 80229 * | 73253 * | 65115 * |
| 11.0 | 100748 * | 102056 * | 102125 * | 102056 * | 100748 * | 98712 * | 94909 * | 89271 * | 82240 * | 73586 * |
| 9.0 | 107352 * | 108394 * | 108583 * | 108394 * | 107352 * | 105330 * | 101601 * | 97015 * | 89600 * | 80958 * |
| 7.0 | 112414 * | 113262 * | 113556 * | 113262 * | 112414 * | 109906 * | 106624 * | 102008 * | 95737 * | 87546 * |
| 5.0 | 115566 * | 116946 * | 117341 * | 116946 * | 115566 * | 113383 * | 110240 * | 105614 * | 99710 * | 91776 * |
| 3.0 | 117383 * | 118025 * | 118475 * | 118025 * | 117383 * | 115658 * | 112355 * | 107730 * | 101937 * | 94595 * |
| 1.0 | 118028 * | 118321 * | 118405 * | 118321 * | 118028 * | 116956 * | 113549 * | 108987 * | 103294 * | 96162 * |
| 0.0 | 118073 * | 118233 * | 118169 * | 118233 * | 118073 * | 117052 * | 113891 * | 109394 * | 103558 * | 96233 * |
| -1.0 | 117965 * | 118230 * | 118198 * | 118230 * | 117965 * | 116974 * | 113624 * | 109102 * | 103407 * | 96251 * |
| -3.0 | 117408 * | 117829 * | 118025 * | 117829 * | 117408 * | 115878 * | 113040 * | 108354 * | 102416 * | 95027 * |
| -5.0 | 115940 * | 116965 * | 117158 * | 116965 * | 115940 * | 114009 * | 110872 * | 106623 * | 100859 * | 92499 * |
| -7.0 | 113210 * | 113981 * | 114308 * | 113981 * | 113210 * | 110986 * | 107807 * | 103076 * | 97088 * | 88732 * |
| -9.0 | 108756 * | 109824 * | 110176 * | 109824 * | 108756 * | 106870 * | 103218 * | 98526 * | 91883 * | 83841 * |
| -11.0 | 102943 * | 104362 * | 104779 * | 104362 * | 102943 * | 100962 * | 97377 * | 92068 * | 85332 * | 77241 * |
| -13.0 | 95756 * | 97386 * | 97906 * | 97386 * | 95756 * | 93195 * | 89624 * | 84097 * | 77155 * | 69379 * |
| -15.0 | 86822 * | 88715 * | 89112 * | 88715 * | 86822 * | 83867 * | 79513 * | 74257 * | 67829 * | 60550 * |
| -17.0 | 75995 * | 77230 * | 77029 * | 77230 * | 75995 * | 73182 * | 68868 * | 63780 * | 58057 * | 52431 * |
| -19.5 | 61416 * | 62400 * | 62106 * | 62400 * | 61416 * | 59040 * | 55715 * | 51649 * | 47235 * | 43414 * |
| -22.5 | 45792 * | 46376 * | 46391 * | 46376 * | 45792 * | 44771 * | 42958 * | 40505 * | 37724 * | 35367 * |
| -25.5 | 36045 * | 36422 * | 36482 * | 36422 * | 36045 * | 35330 * | 34204 * | 32594 * | 30750 * | 29113 * |
| -29.0 | 27940 * | 28229 * | 28271 * | 28229 * | 27940 * | 27345 * | 26466 * | 25452 * | 24347 * | 23088 * |
| -33.0 | 20575 * | 20897 * | 21000 * | 20897 * | 20575 * | 20143 * | 19557 * | 18871 * | 18122 * | 17261 * |
| -37.5 | 14080 * | 14201 * | 14197 * | 14201 * | 14080 * | 13819 * | 13454 * | 12992 * | 12478 * | 11875 * |
| -42.5 | 8244 | 8316 | 8352 | 8316 | 8244 | 7993 | 7766 | 7465 | 7091 | 6645 |
| -47.5 | 3711 | 3671 | 3651 | 3671 | 3711 | 3656 | 3593 | 3508 | 3401 | 3275 |
| -55.0 | 2136 | 2137 | 2137 | 2137 | 2136 | 2111 | 2090 | 2058 | 2014 | 1956 |
| -65.0 | 984 | 988 | 990 | 988 | 984 | 974 | 968 | 959 | 948 | 935 |
| -75.0 | 406 | 407 | 407 | 407 | 406 | 405 | 401 | 398 | 394 | 390 |
| -85.0 | 103 | 104 | 105 | 104 | 103 | 102 | 102 | 102 | 102 | 100 |
| -90.0 | 25 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | 24 |

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 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 85.0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 4 |
| 75.0 | 0 | 2 | 4 | 6 | 8 | 12 | 15 | 21 | 26 | 29 |
| 65.0 | 164 | 166 | 168 | 166 | 166 | 165 | 160 | 153 | 144 | 132 |
| 55.0 | 794 | 778 | 756 | 724 | 689 | 645 | 571 | 495 | 415 | 343 |
| 47.5 | 1442 | 1390 | 1346 | 1314 | 1266 | 1124 | 948 | 833 | 713 | 557 |
| 42.5 | 3154 | 2814 | 2526 | 2115 | 1846 | 1620 | 1483 | 1196 | 952 | 794 |
| 37.5 | 7182 | 6620 | 5810 | 4758 | 3802 | 2838 | 2059 | 1678 | 1299 | 1005 |
| 33.0 | 11980 * | 11050 | 9787 | 8348 | 6888 | 5201 | 3461 | 2199 | 1722 | 1225 |
| 29.0 | 16944 * | 15749 * | 14140 * | 12200 * | 10140 | 8033 | 5578 | 3265 | 2000 | 1537 |
| 25.5 | 22515 * | 20694 * | 18634 * | 16076 * | 13470 * | 10656 | 7672 | 4577 | 2412 | 1816 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|
| 22.5 | 28236 * | 25802 * | 23028 * | 19752 * | 16531 * | 13072 * | 9531 | 5873 | 2895 | 1961 |
| 19.5 | 35137 * | 31738 * | 27724 * | 23625 * | 19737 * | 15521 * | 11462 | 7226 | 3604 | 2095 |
| 17.0 | 41632 * | 37346 * | 32163 * | 26899 * | 22374 * | 17604 * | 13012 * | 8318 | 4152 | 2232 |
| 15.0 | 48784 * | 42031 * | 35892 * | 29672 * | 24493 * | 19153 * | 14118 * | 9129 | 4681 | 2373 |
| 13.0 | 55890 * | 48161 * | 39847 * | 32439 * | 26534 * | 20745 * | 15130 * | 9970 | 5207 | 2505 |
| 11.0 | 63882 * | 54062 * | 43779 * | 35021 * | 28473 * | 22216 * | 16131 * | 10723 | 5676 | 2625 |
| 9.0 | 71489 * | 60848 * | 48691 * | 37972 * | 30472 * | 23547 * | 17074 * | 11398 | 6085 | 2733 |
| 7.0 | 77672 * | 66729 * | 53007 * | 40602 * | 32202 * | 24696 * | 17908 * | 11976 * | 6431 | 2829 |
| 5.0 | 82247 * | 71353 * | 56313 * | 42582 * | 33449 * | 25630 * | 18597 * | 12452 * | 6712 | 2912 |
| 3.0 | 85357 * | 74008 * | 58680 * | 43925 * | 34361 * | 26303 * | 19125 * | 12792 * | 7004 | 3006 |
| 1.0 | 87213 * | 75231 * | 59904 * | 44703 * | 34940 * | 26761 * | 19428 * | 12993 * | 7075 | 3047 |
| 0.0 | 87119 * | 75317 * | 60017 * | 44736 * | 35095 * | 26896 * | 19517 * | 13031 * | 7111 | 3067 |
| -1.0 | 87307 * | 75750 * | 60503 * | 45169 * | 35206 * | 26952 * | 19537 * | 13047 * | 7152 | 3083 |
| -3.0 | 85818 * | 74851 * | 59832 * | 44979 * | 35075 * | 26854 * | 19449 * | 12954 * | 7235 | 3116 |
| -5.0 | 82963 * | 72286 * | 57650 * | 43840 * | 34411 * | 26481 * | 19280 * | 12832 * | 7084 | 3090 |
| -7.0 | 78722 * | 68188 * | 54792 * | 42150 * | 33404 * | 25879 * | 18948 * | 12639 * | 6930 | 3068 |
| -9.0 | 74143 * | 63307 * | 51090 * | 39983 * | 32067 * | 25094 * | 18438 * | 12322 * | 6702 | 3027 |
| -11.0 | 68063 * | 57944 * | 46774 * | 37433 * | 30455 * | 24069 * | 17724 * | 11878 * | 6400 | 2965 |
| -13.0 | 60614 * | 52300 * | 43047 * | 35126 * | 28874 * | 22858 * | 16891 * | 11297 | 6026 | 2883 |
| -15.0 | 53530 * | 46091 * | 39308 * | 32603 * | 27082 * | 21473 * | 16028 * | 10617 | 5579 | 2781 |
| -17.0 | 46318 * | 41564 * | 35796 * | 30051 * | 25178 * | 20101 * | 15025 * | 9936 | 5097 | 2659 |
| -19.5 | 39563 * | 35942 * | 31657 * | 26915 * | 22795 * | 18192 * | 13587 * | 8962 | 4558 | 2564 |
| -22.5 | 32799 * | 30192 * | 26878 * | 23116 * | 19680 * | 15844 * | 11786 | 7609 | 3810 | 2498 |
| -25.5 | 27276 * | 25296 * | 22680 * | 19586 * | 16667 * | 13432 * | 9883 | 6199 | 3279 | 2419 |
| -29.0 | 21644 * | 20235 * | 18331 * | 15869 * | 13367 * | 10777 | 7699 | 4730 | 2806 | 2167 |
| -33.0 | 16335 * | 15252 * | 13764 * | 11943 * | 9990 | 7756 | 5385 | 3443 | 2601 | 1856 |
| -37.5 | 11182 | 10376 | 9228 | 7782 | 6395 | 4864 | 3485 | 2760 | 2178 | 1574 |
| -42.5 | 6135 | 5599 | 4968 | 4124 | 3516 | 2956 | 2696 | 2252 | 1690 | 1411 |
| -47.5 | 3130 | 2965 | 2834 | 2721 | 2596 | 2340 | 2028 | 1657 | 1445 | 1107 |
| -55.0 | 1883 | 1806 | 1707 | 1640 | 1594 | 1530 | 1355 | 1150 | 954 | 774 |
| -65.0 | 919 | 900 | 873 | 836 | 801 | 748 | 685 | 602 | 513 | 428 |
| -75.0 | 385 | 378 | 370 | 358 | 345 | 329 | 310 | 281 | 246 | 208 |
| -85.0 | 99 | 98 | 96 | 95 | 92 | 88 | 83 | 75 | 67 | 58 |
| -90.0 | 24 | 24 | 24 | 23 | 23 | 22 | 21 | 20 | 19 | 17 |

| Vert. 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 | 1 | 1 | 1 | 1 | 1 |
| 85.0 | 4 | 4 | 4 | 2 | 1 |
| 75.0 | 31 | 26 | 16 | 5 | 1 |
| 65.0 | 110 | 76 | 38 | 8 | 1 |
| 55.0 | 242 | 146 | 67 | 12 | 1 |
| 47.5 | 382 | 208 | 92 | 17 | 1 |
| 42.5 | 497 | 258 | 112 | 20 | 1 |
| 37.5 | 651 | 316 | 131 | 23 | 1 |
| 33.0 | 812 | 374 | 147 | 25 | 1 |
| 29.0 | 949 | 428 | 162 | 27 | 1 |
| 25.5 | 1051 | 475 | 174 | 28 | 1 |
| 22.5 | 1138 | 512 | 184 | 29 | 1 |
| 19.5 | 1235 | 551 | 194 | 30 | 1 |
| 17.0 | 1324 | 581 | 201 | 31 | 1 |
| 15.0 | 1389 | 604 | 207 | 32 | 1 |
| 13.0 | 1447 | 625 | 213 | 32 | 1 |
| 11.0 | 1499 | 644 | 218 | 33 | 1 |
| 9.0 | 1545 | 662 | 223 | 34 | 1 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|------|-----|-----|----|---|
| 7.0 | 1584 | 677 | 227 | 34 | 1 |
| 5.0 | 1617 | 690 | 233 | 34 | 1 |
| 3.0 | 1650 | 704 | 235 | 34 | 1 |
| 1.0 | 1665 | 711 | 238 | 34 | 1 |
| 0.0 | 1673 | 715 | 239 | 34 | 1 |
| -1.0 | 1686 | 718 | 240 | 34 | 1 |
| -3.0 | 1713 | 723 | 243 | 34 | 1 |
| -5.0 | 1720 | 722 | 246 | 35 | 1 |
| -7.0 | 1725 | 722 | 246 | 35 | 1 |
| -9.0 | 1708 | 719 | 246 | 35 | 1 |
| -11.0 | 1682 | 714 | 247 | 35 | 1 |
| -13.0 | 1650 | 709 | 246 | 34 | 1 |
| -15.0 | 1610 | 700 | 245 | 34 | 1 |
| -17.0 | 1564 | 690 | 244 | 34 | 1 |
| -19.5 | 1497 | 674 | 241 | 33 | 1 |
| -22.5 | 1434 | 651 | 236 | 33 | 1 |
| -25.5 | 1383 | 627 | 229 | 32 | 1 |
| -29.0 | 1319 | 590 | 220 | 31 | 1 |
| -33.0 | 1199 | 545 | 207 | 29 | 1 |
| -37.5 | 1045 | 489 | 192 | 27 | 1 |
| -42.5 | 877 | 423 | 172 | 25 | 1 |
| -47.5 | 727 | 364 | 149 | 22 | 1 |
| -55.0 | 523 | 285 | 119 | 17 | 1 |
| -65.0 | 314 | 183 | 78 | 12 | 1 |
| -75.0 | 159 | 96 | 41 | 8 | 1 |
| -85.0 | 44 | 28 | 14 | 4 | 1 |
| -90.0 | 14 | 9 | 5 | 2 | 1 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 33565.16

Total Field Lumens (one side of beam only) = 29647.00

* 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 65 | 0.19 | 0.40 | 0.40 | 0.42 | 0.44 | 0.46 | 0.47 | 0.48 | 0.49 | 0.61 |
| 55 | 1.49 | 3.00 | 2.99 | 2.98 | 2.96 | 2.94 | 2.89 | 2.84 | 2.78 | 3.38 |
| 47.5 | 2.80 | 5.61 | 5.58 | 5.51 | 5.43 | 5.31 | 5.17 | 5.02 | 4.84 | 5.79 |
| 42.5 | 4.55 | 9.16 | 9.07 | 8.81 | 8.50 | 8.10 | 7.63 | 7.07 | 6.44 | 7.30 |
| 37.5 | 10.58 | 20.96 | 20.59 | 20.10 | 19.41 | 18.47 | 17.32 | 15.95 | 14.47 | 16.06 |
| 33 | 17.14 * | 33.80 * | 33.13 * | 32.40 * | 31.34 | 29.99 | 28.33 | 26.40 | 24.27 | 27.07 |
| 29 | 23.12 * | 45.65 * | 44.72 * | 43.52 * | 41.98 * | 40.17 * | 37.99 * | 35.42 * | 32.63 * | 36.68 * |
| 25.5 | 28.07 * | 55.57 * | 54.45 * | 52.81 * | 50.73 * | 48.29 * | 45.51 * | 42.35 * | 38.89 * | 43.80 * |
| 22.5 | 31.91 * | 63.36 * | 61.91 * | 59.72 * | 57.03 * | 53.81 * | 50.40 * | 46.77 * | 42.71 * | 47.82 * |
| 19.5 | 43.11 * | 85.46 * | 82.62 * | 78.79 * | 74.46 * | 69.28 * | 64.06 * | 58.76 * | 53.11 * | 58.74 * |
| 17 | 47.84 * | 94.80 * | 91.56 * | 86.63 * | 80.73 * | 73.98 * | 67.14 * | 60.15 * | 53.38 * | 58.29 * |
| 15 | 46.93 * | 93.11 * | 90.34 * | 85.69 * | 79.77 * | 72.91 * | 65.15 * | 57.16 * | 49.72 * | 53.31 * |
| 13 | 53.91 * | 106.92 * | 104.07 * | 99.56 * | 93.50 * | 85.85 * | 76.60 * | 66.60 * | 57.06 * | 60.00 * |
| 11 | 59.67 * | 118.40 * | 115.88 * | 111.77 * | 105.62 * | 97.49 * | 87.65 * | 76.39 * | 65.00 * | 67.20 * |
| 9 | 64.14 * | 127.41 * | 125.23 * | 121.34 * | 115.47 * | 107.43 * | 97.24 * | 85.69 * | 73.28 * | 74.99 * |
| 7 | 67.59 * | 134.38 * | 132.18 * | 128.28 * | 122.84 * | 115.30 * | 105.43 * | 93.89 * | 81.03 * | 82.90 * |
| 5 | 70.23 * | 139.48 * | 137.12 * | 133.34 * | 128.04 * | 120.91 * | 111.66 * | 100.26 * | 87.26 * | 89.46 * |
| 3 | 71.70 * | 142.44 * | 140.38 * | 136.82 * | 131.50 * | 124.49 * | 115.61 * | 104.62 * | 91.64 * | 94.14 * |
| 1 | 72.07 * | 143.61 * | 142.21 * | 138.90 * | 133.51 * | 126.57 * | 117.98 * | 107.38 * | 94.23 * | 96.84 * |
| 0 | 36.03 * | 71.94 * | 71.42 * | 69.89 * | 67.24 * | 63.78 * | 59.48 * | 54.19 * | 47.56 * | 48.90 * |
| -1 | 36.01 * | 71.92 * | 71.42 * | 69.91 * | 67.27 * | 63.81 * | 59.51 * | 54.22 * | 47.65 * | 49.10 * |
| | 71.93 * | 143.51 * | 142.27 * | 139.20 * | 133.96 * | 126.97 * | 118.31 * | 107.70 * | 94.79 * | 97.97 * |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| -3 | 71.58 * | 142.51 * | 140.76 * | 137.47 * | 132.39 * | 125.46 * | 116.44 * | 105.31 * | 92.50 * | 95.68 * |
| -5 | 70.43 * | 140.06 * | 138.00 * | 134.40 * | 129.21 * | 122.28 * | 112.97 * | 101.35 * | 88.47 * | 91.45 * |
| -7 | 68.27 * | 135.70 * | 133.64 * | 129.92 * | 124.46 * | 117.16 * | 107.72 * | 96.18 * | 83.26 * | 85.83 * |
| -9 | 65.36 * | 129.65 * | 127.48 * | 123.73 * | 118.00 * | 110.33 * | 100.79 * | 89.64 * | 77.14 * | 79.23 * |
| -11 | 61.60 * | 121.90 * | 119.37 * | 115.47 * | 109.54 * | 101.59 * | 92.10 * | 81.37 * | 69.96 * | 72.34 * |
| -13 | 56.83 * | 112.23 * | 109.28 * | 104.88 * | 98.78 * | 90.99 * | 81.91 * | 72.14 * | 62.23 * | 65.36 * |
| -15 | 50.58 * | 100.08 * | 97.19 * | 92.52 * | 86.39 * | 79.17 * | 71.17 * | 62.90 * | 54.90 * | 58.85 * |
| -17 | 53.07 * | 105.42 * | 102.41 * | 97.24 * | 90.50 * | 82.76 * | 74.91 * | 67.14 * | 59.80 * | 65.52 * |
| -19.5 | 49.64 * | 98.62 * | 96.18 * | 92.01 * | 86.34 * | 79.69 * | 73.18 * | 67.01 * | 60.83 * | 67.62 * |
| -22.5 | 37.85 * | 75.18 * | 73.81 * | 71.46 * | 67.99 * | 63.70 * | 59.42 * | 55.22 * | 50.76 * | 56.98 * |
| -25.5 | 34.49 * | 68.53 * | 67.35 * | 65.39 * | 62.67 * | 59.40 * | 55.95 * | 52.30 * | 48.40 * | 54.76 * |
| -29 | 29.97 * | 59.45 * | 58.34 * | 56.66 * | 54.50 * | 52.07 * | 49.35 * | 46.30 * | 43.02 * | 48.87 * |
| -33 | 24.09 * | 47.78 * | 46.91 * | 45.65 * | 44.03 * | 42.16 * | 40.05 * | 37.67 * | 35.01 * | 39.56 * |
| -37.5 | 17.16 | 34.13 | 33.53 | 32.59 | 31.43 | 30.02 | 28.37 | 26.48 | 24.37 | 27.27 |
| -42.5 | 9.13 | 18.22 | 17.93 | 17.42 | 16.84 | 16.10 | 15.20 | 14.18 | 13.05 | 14.79 |
| -47.5 | 6.62 | 13.30 | 13.23 | 13.01 | 12.72 | 12.35 | 11.89 | 11.35 | 10.74 | 12.63 |
| -55 | 4.76 | 9.51 | 9.43 | 9.30 | 9.16 | 8.97 | 8.72 | 8.41 | 8.06 | 9.56 |
| -65 | 2.13 | 4.24 | 4.21 | 4.16 | 4.11 | 4.05 | 3.97 | 3.89 | 3.78 | 4.56 |
| -75 | 0.78 | 1.55 | 1.54 | 1.53 | 1.51 | 1.49 | 1.47 | 1.44 | 1.41 | 1.70 |
| -85 | 0.10 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.22 |
| -90 | | | | | | | | | | |
| Total | 1575.44 | 3129.13 | 3070.36 | 2971.4 | 2832.51 | 2656.26 | 2447.32 | 2209.76 | 1951.09 | 2073.15 |

Vert. Horizontal Angles

| Angles | 19.5 | 22.5 | 25.5 | 29 | 33 | 37.5 | 42.5 | 47.5 | 55 | 65 |
|---------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| 90 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.01 |
| 85 | 0.02 | 0.03 | 0.05 | 0.08 | 0.11 | 0.15 | 0.17 | 0.24 | 0.25 | 0.13 |
| 75 | 0.73 | 0.72 | 0.83 | 0.92 | 0.98 | 1.00 | 0.89 | 1.08 | 0.92 | 0.41 |
| 65 | 3.87 | 3.64 | 3.94 | 4.02 | 3.86 | 3.52 | 2.78 | 2.95 | 2.18 | 0.85 |
| 55 | 6.62 | 6.25 | 6.62 | 6.44 | 5.97 | 5.37 | 4.09 | 4.08 | 2.79 | 1.00 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|-------|-------|------|------|------|
| 47.5 | | | | | | | | | | |
| | 7.79 | 6.83 | 6.94 | 6.75 | 6.24 | 5.39 | 4.06 | 3.98 | 2.56 | 0.87 |
| 42.5 | 16.22 | 13.06 | 11.97 | 10.44 | 8.98 | 7.47 | 5.45 | 5.26 | 3.27 | 1.06 |
| 37.5 | 27.55 | 22.35 | 19.97 | 15.93 | 11.83 | 9.05 | 6.36 | 5.94 | 3.68 | 1.13 |
| 33 | 37.94 | 31.37 | 28.68 | 23.26 | 16.23 | 10.71 | 6.98 | 6.46 | 3.90 | 1.16 |
| 29 | 45.57 * | 37.90 * | 35.08 | 29.18 | 20.65 | 12.51 | 7.32 | 6.69 | 3.86 | 1.13 |
| 25.5 | 49.58 * | 41.21 * | 38.19 * | 32.06 | 23.21 | 13.78 | 7.34 | 6.39 | 3.62 | 1.05 |
| 22.5 | 60.22 * | 49.86 * | 46.10 * | 38.83 * | 28.62 | 17.14 | 8.52 | 6.89 | 3.92 | 1.12 |
| 19.5 | 58.87 * | 48.33 * | 44.56 * | 37.59 * | 27.99 | 16.99 | 8.13 | 6.15 | 3.51 | 0.99 |
| 17 | 53.16 * | 43.17 * | 39.62 * | 33.36 * | 24.94 | 15.33 | 7.23 | 5.23 | 2.96 | 0.83 |
| 15 | 58.80 * | 47.22 * | 43.08 * | 36.10 * | 27.05 * | 16.90 | 7.95 | 5.51 | 3.09 | 0.86 |
| 13 | 64.44 * | 51.11 * | 46.42 * | 38.75 * | 29.07 * | 18.41 | 8.62 | 5.77 | 3.21 | 0.88 |
| 11 | 70.57 * | 55.07 * | 49.62 * | 41.23 * | 30.96 * | 19.76 | 9.22 | 6.00 | 3.31 | 0.91 |
| 9 | 76.89 * | 58.95 * | 52.56 * | 43.45 * | 32.65 * | 20.93 | 9.73 | 6.21 | 3.40 | 0.93 |
| 7 | 82.11 * | 62.12 * | 54.96 * | 45.34 * | 34.10 * | 21.91 | 10.17 | 6.39 | 3.47 | 0.95 |
| 5 | 85.95 * | 64.41 * | 56.74 * | 46.81 * | 35.23 * | 22.72 | 10.57 | 6.56 | 3.55 | 0.97 |
| 3 | 88.38 * | 65.92 * | 57.98 * | 47.83 * | 36.00 * | 23.25 | 10.84 | 6.69 | 3.60 | 0.98 |
| 1 | 44.65 * | 33.28 * | 29.31 * | 24.17 * | 18.18 * | 11.73 | 5.46 | 3.38 | 1.81 | 0.50 |
| 0 | 44.88 * | 33.43 * | 29.41 * | 24.25 * | 18.22 * | 11.76 | 5.49 | 3.40 | 1.82 | 0.50 |
| -1 | 89.78 * | 66.96 * | 58.80 * | 48.45 * | 36.36 * | 23.55 | 11.08 | 6.86 | 3.68 | 1.00 |
| -3 | 87.99 * | 66.07 * | 58.20 * | 48.07 * | 36.10 * | 23.39 | 11.05 | 6.89 | 3.71 | 1.01 |
| -5 | 84.64 * | 64.19 * | 56.94 * | 47.30 * | 35.64 * | 23.03 | 10.86 | 6.86 | 3.72 | 1.01 |
| -7 | 80.19 * | 61.61 * | 55.18 * | 46.13 * | 34.89 * | 22.51 | 10.62 | 6.81 | 3.71 | 1.01 |
| -9 | 74.76 * | 58.41 * | 52.92 * | 44.55 * | 33.78 * | 21.75 | 10.28 | 6.70 | 3.67 | 1.00 |
| -11 | 69.26 * | 55.05 * | 50.35 * | 42.57 * | 32.34 * | 20.76 | 9.84 | 6.56 | 3.62 | 1.00 |
| -13 | 64.02 * | 51.62 * | 47.52 * | 40.33 * | 30.68 * | 19.55 | 9.30 | 6.38 | 3.55 | 0.99 |
| -15 | 58.76 * | 47.96 * | 44.46 * | 37.92 * | 28.88 * | 18.21 | 8.68 | 6.15 | 3.47 | 0.98 |
| -17 | 66.34 * | 54.75 * | 51.10 * | 43.66 * | 33.23 * | 20.81 | 10.01 | 7.40 | 4.21 | 1.20 |
| -19.5 | 69.46 * | 57.91 * | 54.38 * | 46.53 * | 35.21 | 21.82 | 10.84 | 8.57 | 4.86 | 1.41 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|--------|--------|--------|--------|--------|-------|
| -22.5 | 59.03 * | 49.49 * | 46.64 * | 39.90 * | 29.78 | 18.28 | 9.69 | 8.29 | 4.67 | 1.36 |
| -25.5 | 57.08 * | 47.83 * | 44.98 * | 38.18 | 27.92 | 17.36 | 10.05 | 9.11 | 5.22 | 1.52 |
| -29 | 51.10 * | 42.71 * | 39.70 | 33.02 | 23.79 | 15.84 | 10.15 | 9.35 | 5.56 | 1.63 |
| -33 | 41.00 | 33.91 | 30.92 | 25.25 | 18.98 | 14.41 | 9.94 | 9.12 | 5.61 | 1.68 |
| -37.5 | 27.83 | 22.76 | 21.00 | 18.28 | 15.66 | 12.95 | 9.22 | 8.77 | 5.39 | 1.66 |
| -42.5 | 15.62 | 13.52 | 13.51 | 13.08 | 12.08 | 10.27 | 7.61 | 7.36 | 4.55 | 1.44 |
| -47.5 | 14.24 | 13.38 | 14.32 | 14.20 | 12.99 | 11.39 | 8.64 | 8.39 | 5.42 | 1.79 |
| -55 | 10.78 | 10.17 | 11.07 | 11.27 | 10.61 | 9.39 | 7.18 | 7.28 | 4.96 | 1.73 |
| -65 | 5.20 | 4.88 | 5.27 | 5.41 | 5.25 | 4.79 | 3.75 | 3.96 | 2.86 | 1.04 |
| -75 | 1.96 | 1.86 | 2.02 | 2.11 | 2.10 | 1.95 | 1.56 | 1.68 | 1.24 | 0.47 |
| -85 | 0.25 | 0.24 | 0.27 | 0.28 | 0.28 | 0.26 | 0.22 | 0.24 | 0.18 | 0.07 |
| -90 | | | | | | | | | | |
| Total | 2014.07 | 1601.54 | 1462.19 | 1233.29 | 937.63 | 618.08 | 327.96 | 254.01 | 148.55 | 44.19 |

| Vert. Angles | Horizontal Angles | | | |
|-----------------|-------------------|-----------|-----------|--------------|
| | <u>75</u> | <u>85</u> | <u>90</u> | <u>Total</u> |
| 90 | | | | |
| | 0.01 | 0.00 | 0.10 | |
| 85 | | | | |
| | 0.04 | 0.00 | 1.28 | |
| 75 | | | | |
| | 0.09 | 0.00 | 12.94 | |
| 65 | | | | |
| | 0.17 | 0.00 | 60.06 | |
| 55 | | | | |
| | 0.19 | 0.00 | 100.49 | |
| 47.5 | | | | |
| | 0.16 | 0.00 | 128.20 | |
| 42.5 | | | | |
| | 0.19 | 0.00 | 257.31 | |
| 37.5 | | | | |
| | 0.19 | 0.00 | 407.85 | |
| 33 | | | | |
| | 0.19 | 0.00 | 548.77 | |
| 29 | | | | |
| | 0.18 | 0.00 | 660.54 | |
| 25.5 | | | | |
| | 0.16 | 0.00 | 732.04 | |
| 22.5 | | | | |
| | 0.17 | 0.00 | 929.80 | |
| 19.5 | | | | |
| | 0.15 | 0.00 | 967.76 | |
| 17 | | | | |
| | 0.12 | 0.00 | 920.05 | |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMENS TABULATION - (Cont.)

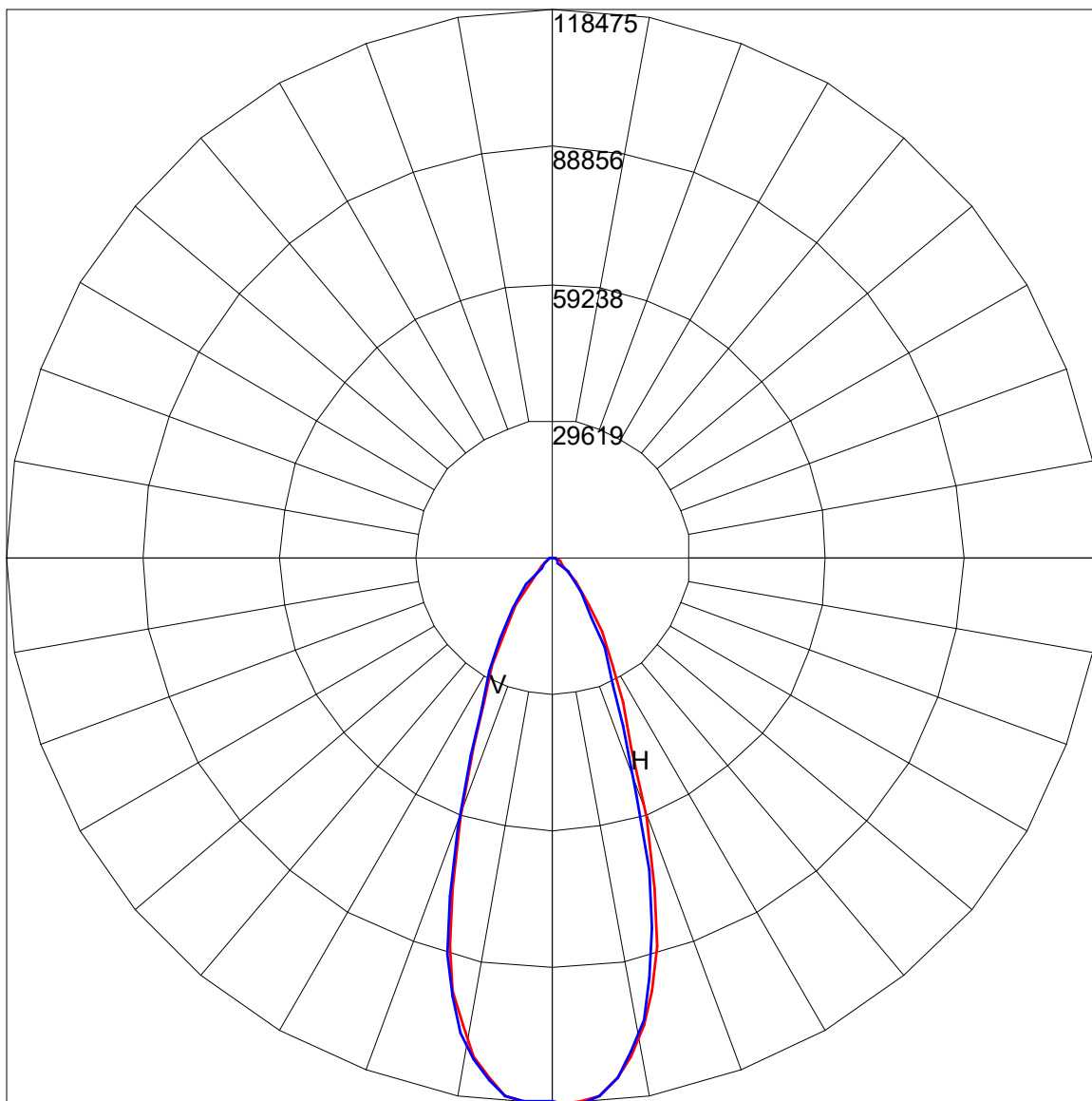
| | | | |
|--------------|------|------|---------|
| 15 | | | |
| | 0.13 | 0.00 | 1050.76 |
| 13 | | | |
| | 0.13 | 0.00 | 1171.91 |
| 11 | | | |
| | 0.13 | 0.00 | 1279.00 |
| 9 | | | |
| | 0.14 | 0.00 | 1369.66 |
| 7 | | | |
| | 0.14 | 0.00 | 1439.4 |
| 5 | | | |
| | 0.14 | 0.00 | 1486.98 |
| 3 | | | |
| | 0.14 | 0.00 | 1514.94 |
| 1 | | | |
| | 0.07 | 0.00 | 762.97 |
| 0 | | | |
| | 0.07 | 0.00 | 764.06 |
| -1 | | | |
| | 0.15 | 0.00 | 1523.3 |
| -3 | | | |
| | 0.15 | 0.00 | 1502.72 |
| -5 | | | |
| | 0.15 | 0.00 | 1462.98 |
| -7 | | | |
| | 0.15 | 0.00 | 1404.96 |
| -9 | | | |
| | 0.15 | 0.00 | 1329.32 |
| -11 | | | |
| | 0.15 | 0.00 | 1236.72 |
| -13 | | | |
| | 0.15 | 0.00 | 1128.71 |
| -15 | | | |
| | 0.15 | 0.00 | 1009.39 |
| -17 | | | |
| | 0.18 | 0.00 | 1091.67 |
| -19.5 | | | |
| | 0.22 | 0.00 | 1082.31 |
| -22.5 | | | |
| | 0.21 | 0.00 | 879.70 |
| -25.5 | | | |
| | 0.24 | 0.00 | 828.72 |
| -29 | | | |
| | 0.26 | 0.00 | 731.64 |
| -33 | | | |
| | 0.27 | 0.00 | 593.99 |
| -37.5 | | | |
| | 0.27 | 0.00 | 429.14 |
| -42.5 | | | |
| | 0.24 | 0.00 | 252.16 |
| -47.5 | | | |
| | 0.30 | 0.01 | 222.93 |
| -55 | | | |
| | 0.30 | 0.01 | 170.63 |
| -65 | | | |
| | 0.18 | 0.00 | 81.69 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-50-GS.IES

LUMENS TABULATION - (Cont.)

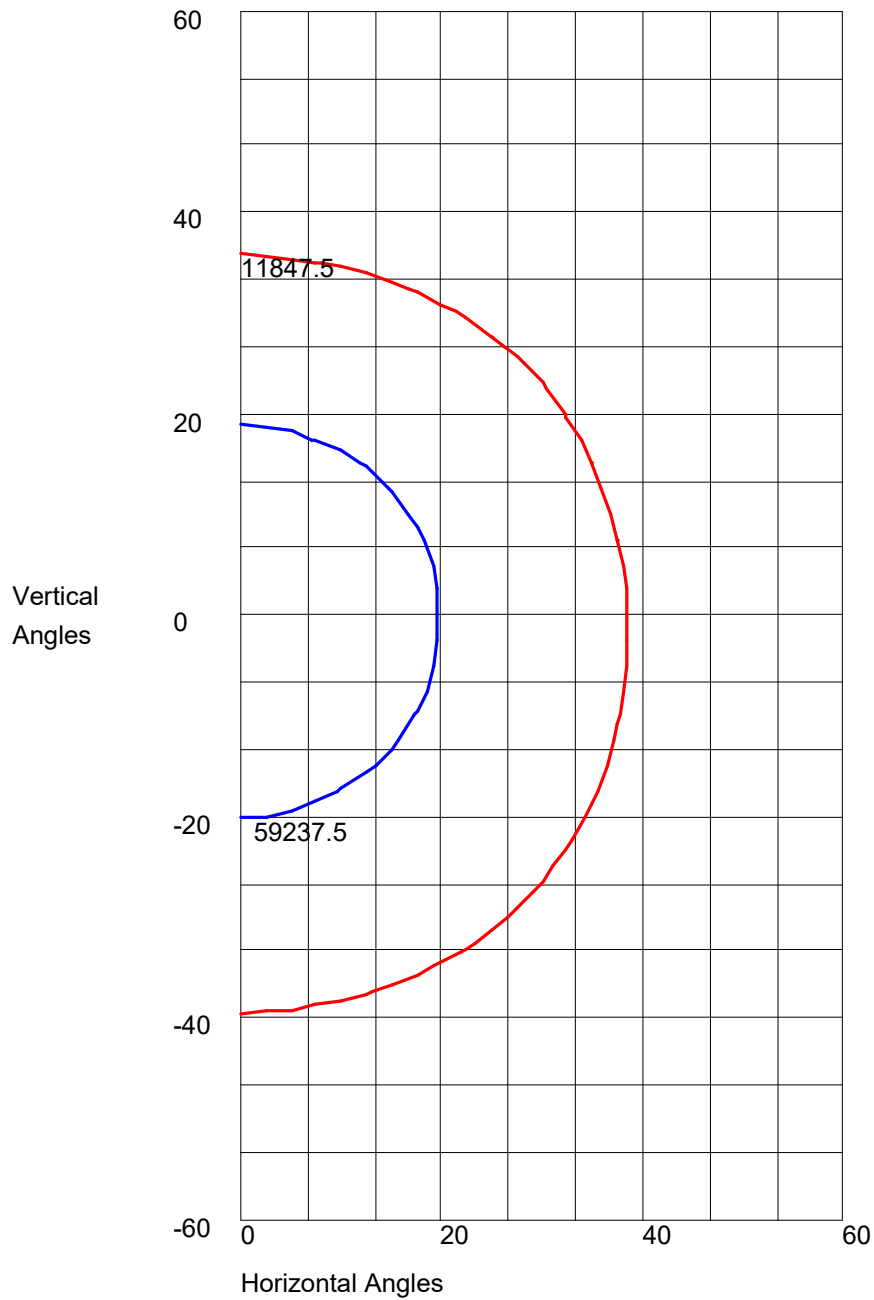
| | | | |
|--------------|------|------|----------|
| -75 | 0.09 | 0.00 | 31.46 |
| -85 | 0.02 | 0.00 | 4.14 |
| -90 | | | |
| Total | 7.07 | 0.12 | 33565.13 |

AXIAL CANDELA DISPLAY



Maximum Candela = 118475 Located At Horizontal Angle = 0, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 118475 Located At Horizontal Angle = 0, Vertical Angle = 3
50% Maximum Candela = 59237.5
10% Maximum Candela = 11847.5